UNITED STATES
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NBS TECHNICAL NOTE 715

# Tabulation of Published Data on Electron Devices of the U.S.S.R. Through December 1971

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[1] Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.
[2] Part of the Center for Radiation Research.
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# NBS TECHNICAL NOTE 715

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## Tabulation of Published Data on Electron Devices of the U.S.S.R. Through December 1971

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(Supersedes Technical Note 526)

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# FOREWORD

This tabulation of published data on electron devices of the U.S.S.R. has been prepared as part of the National Bureau of Standards Electron Devices Data Service. Established in 1948 to provide technical data on radio tubes to members of the Bureau staff, the service has since been extended to other scientists and engineers in government and industry. In the course of the program, a large volume of information on tubes, transistors, diodes, and other electron devices has been accumulated. To make this information more readily available, a system has been worked out for automatically tabulating the data in handbook form. Previous tabulations include *Tabulation of Data on Microwave Tubes*, NBS Handbook 104 (1967); *Tabulation of Data on Receiving Tubes*, NBS Handbook 103 (1967); and *Tabulation of Data on Semiconductor Amplifiers and Oscillators at Microwave Frequencies*, NBS Technical Note 597 (1972).

The present tabulation, updating Technical Note 526, is the result of compilation efforts extending over the past 10 years. All the included information was taken from published specifications, and every effort has been made to ensure accuracy and completeness. However, the Bureau cannot assume responsibility for omissions nor for results obtained with these data.

LAWRENCE M. KUSHNER, *Acting Director*

## CONTENTS

## Comments on Tabulations of Electron Devices of the U.S.S.R.

This revision is actually the seventh revision in the series of Tabulations of Electron Devices of the U.S.S.R. published over the past 11 years. These publications document the growth of the U.S.S.R. electron device industry in that a concerted attempt has been made to include all published data on their devices. Of course, no attempt has been made to penetrate their classified data, and we have no knowledge of the time lag between pilot or serial production and data publication.

The growth of published device data is detailed in table 1 which shows the increase in the number of device types in the various groups. Generally this increase, in the receiving tube area, has been in subminiature types and more germanium transistor devices are still being produced than silicon devices. Germanium transistor devices have always outnumbered silicon devices by a large factor as is evidenced in the bottom listing of table 1.

There is no U.S.S.R. equivalent of the complete data sheet, with characteristic curves, as published by the European, Japanese, and U.S. device manufacturers; and while Soviet national (GOST) device specifications are quite complete, they appear to be delayed in publication. Furthermore, the published data is not consistent in different publications. For this reason, considerable effort has been expended intercomparing Soviet data in the available publications and selecting the most probably correct data values for this tabulation.

The sources for this tabulation are books published by the institutes, export brochures, and data contained in magazines and journals.

New prefix letters for transistors have been introduced during the past 2 or 3 years. The letters "G" and "K" designate germanium and silicon, respectively. These are followed by the letters "D" or "T" for diodes or transistors. This type of letter prefix has replaced the "1T" and "2T" designations initiated 3 years ago, although a few have been retained in this tabulation as no equivalent "G" or "K" types have replaced them.

The prefix letter "M" was used for the first time about 3 years ago and is now quite common preceding the "P number" to indicate that the transistor enclosure is a cold weld between the copper cap and the alloy header.

The new Group X-A covering integrated circuits introduced at the Paris fair in the Spring of 1969 is included. These devices range from a simple assembly of diodes to 30 transistors both in bipolar and MOS structures; the tabulation contains data for 314 devices. While the data on these devices is limited, the tabulation is arranged to include all the information available.

Note that a new group, X-B (Metal-Oxide-Silicon transistors, or MOS transistors), has been included and thattwo-terminal n-p-n-p devices are separated from three-terminal n-p-n devices in new group XII-B, Silicon Controlled Rectifiers.

In previous editions, the asterisk following the type number indicated "obsolete type." Determination of obsolescence was usually subjective, based on old or nonstandardized type numbers or limited data. For this revision, an **ASTERISK FOLLOWING THE TYPE NUMBER** indicates that the device is "**CURRENT**"; that is, that the device in question has been used in electronic equipment or circuits noted in the past 2 years or has been first noted in that time.

TABLE I. *Number of devices in the various tabulations of U.S.S.R. devices*

| Group | | NBS 6637 1/60 | NBS 7481 4/62 | TN186 6/63 | TN265 10/65 | TN441 10/67 | TN526 12/69 | TN715 4/72 |
|---|---|---|---|---|---|---|---|---|
| I | Numerical listing | 642 | 1,362 | 1,631 | 2,360 | 2,373 | 3,020 | 3.200 |
| II | Receiving tubes | 262 | 316 | 328 | 383 | 443 | 461 | 482 |
| III | Power tubes | 89 | 147 | 176 | 176 | 179 | 188 | 187 |
| IV | Rectifying tubes | | 53 | 68 | 80 | 80 | 86 | 89 |
| V | Voltage regulator tubes | | 23 | 30 | 33 | 38 | 38 | 36 |
| VI | Current regulator tubes | | 8 | 9 | 9 | 9 | 9 | 9 |
| VII | Thyratrons | 26 | 42 | 69 | 54 | 60 | 79 | 77 |
| VIII | Cathode ray tubes | 59 | 87 | 100 | 109 | 115 | 157 | 154 |
| IX | Microwave tubes | 13 | 17 | 20 | 27 | 101 | 101 | 106 |
| X | Transistors | 77 | 125 | 160 | 265 | 296 | 438 | 418 |
| X–A | Integrated circuits | | | | | | 317 | 317 |
| X–B | MOS transistors | | | | | | | 11 |
| XI | Rectifier diodes | 84 | 108 | 108 | 200 | 200 | 238 | 246 |
| XI–A | Switching diodes | | | | 16 | 16 | 16 | 16 |
| XI–B | Tunnel diodes | | | | 8 | 26 | 26 | 30 |
| XI–C | Control rectifiers | | | | 10 | 10 | 10 | 10 |
| XI–D | Varactors | | | | 6 | 7 | 7 | 20 |
| XI–E | Miscellaneous | | | | | | 26 | 30 |
| XII | Power rectifiers | | | 29 | 29 | 29 | 29 | 29 |
| XII–A | Silicon Controlled Devices | | | | 40 | 56 | 68 | 40 |
| XII–B | Silicon controlled rectifiers | | | | | | | 26 |
| XIII | Regulator diodes | | 8 | 8 | 41 | 89 | 103 | 107 |
| XIV | Mixer and detector diodes | | 37 | 37 | 33 | 44 | 50 | 50 |
| XV | Photoconductive diodes | | 4 | 23 | 29 | 29 | 45 | 50 |
| XVI | Photodiodes and multipliers | | 25 | 63 | 73 | 72 | 93 | 102 |
| XVII | Flash tubes | | | 12 | | | | |
| XVIII | Thermocouples | | 15 | 15 | 15 | 15 | 15 | 15 |
| XIX | Thermistors | 31 | 19 | 23 | 23 | 35 | 58 | 58 |
| XX | Strobatrons | | 12 | 23 | 23 | 23 | 23 | 23 |
| XXI | Counter tubes | | 41 | 41 | 68 | 68 | 81 | 82 |
| XXII | Discharge diodes | | | 20 | 25 | 25 | 31 | 31 |
| XXIII | Decatrons | | | 4 | 4 | 8 | 9 | 7 |
| XXIII–A | Numerical indicators | | | | | | | 8 |
| XXIV | Light amplifiers | | | 2 | 2 | 2 | 2 | 2 |
| XXV | Tube base connections | | 164 | 162 | 173 | 212 | 225 | 235 |
| | Total Devices | 641 | 1,087 | 1,368 | 1,781 | 2,075 | 2,804 | 2,868 |
| | Transistors germanium | 73 | 119 | 140 | 224 | 248 | 329 | 312 |
| | Transistors silicon | 4 | 6 | 20 | 41 | 48 | 102 | 106 |

# TABULATION OF PUBLISHED DATA ON ELECTRON DEVICES OF THE U.S.S.R. THROUGH DECEMBER 1971

**Charles P. Marsden**

This tabulation includes data on U.S.S.R. electron devices as collected from publications, mostly handbooks, published by the various ministries and institutes of the U.S.S.R. Information is given on all active devices ranging from receiving to microwave devices, semiconductor devices, and miscellaneous devices such as photographic flash tubes and thermistors.

Keywords: Electron devices; electron tubes; semiconductors; U.S.S.R.

## 1. Introduction

The increased circulation of published literature and the importation of equipment from the U.S.S.R. has created a need for factual information about Russian electron devices. To satisfy this need, the National Bureau of Standards Electron Devices Data Service has prepared the present publication in a format that has been reproduced directly from punched cards.

This publication is the seventh revision and is an expansion of Technical Note 526 published in October 1970.

The sources of the data are the various publications produced in the U.S.S.R. and include books published by the various ministries and technical magazines. To ensure that the device values selected for use in this tabulation are the probably correct values, considerable effort has been taken to intercompare data from available publications. Because data for any one device may be derived from a number of intercompared sources, no references are given.

## 2. Description of the Tabulation

Within each group the type numbers are arranged in alphanumerical order; the first numerical part of the type number is used as the prime sorting means. Alphabetical prefixes are secondary sorting means and alphabetical postfixes are tertiary means. In the listing, those types without alphabetical prefix follow those with prefix. For example, in the numerical listing, these type numbers will be found in the following order:

| | |
|---|---|
| VI-0.1/40 | SG2S |
| VT1 | TO-2 |
| 1A2P | 2A1 |

Alphabetical sorting is performed according to the English alphabet rather than the Russian which was transliterated according to the recommended practice of the Library of Congress as shown below:

| | | | |
|---|---|---|---|
| А | A | О | O |
| Б | B | П | P |
| В | V | Р | R |
| Г | G | С | S |
| Д | D | Т | T |
| Е | Ye | У | U |
| Ж | Zh | Ф | F |
| И | I | Х | Kh |
| К | K | Ц | Ts |
| Л | L | Щ | Sh |
| М | M | З | E |
| Н | N | Я | JA |

## 3. Organization of the Tabulation

Data in the 35 groups of the tabulation are presented with columnar headings appropriate to each group.

Group I is a numerical listing of all type numbers in the complete tabulation and also includes discontinued and obsolete type numbers. All these types

are defined by a three-letter code to indicate the kind and type of device. Furthermore, under the heading "Group No.," Roman numerals are used to show the group number under which the data for a type will be found. The last column contains the GOST (U.S.S.R. State National Standard) Specification Number (followed by the year of publication of the specification). These specifications include the information in, and follow the format of, the U.S. military specifications.

Group I also constitutes an interchangeability list and known similar types are so identified. The following symbol code indicates the geographic area of manufacture and identifies obsolete or inactive devices.

\$ Domestic manufacture
= European manufacture
\+ Russian manufacture
* Current

These symbol explanations apply only to Group I. Because the card punch limits the number of available symbols, the asterisk is used in tabulations for other groups with different meanings as noted in the columnar headings.

Titles of Groups II-XXIV describe the particular class of device listed under each group. Individual type numbers are arranged in alphanumerical order as described on page vii under the heading: "2. Description of the Tabulation."

Under each columnar heading, the device characteristic is expressed in the most commonly used units. For example, under the heading of Maximum Plate Current ($I_p$), the unit in the heading is mA (milliamperes). However, where the data are in amperes, the value will be tabulated with the number followed by the letter "A," e.g., 15A. All such letters used to indicate a unit change are included in the list of alphabetic symbols under "4.4 Code" on page ix.

A blank in any column indicates that no value was given in the available data.

Group XXV, "Tube Base Connections," lists the base connections for the particular "Base No." of the previous groups by a system compatible with punched-card coding.

Instead of the usual base diagram or line drawing, the number of each base pin is given in the column whose heading is the appropriate electrode symbol. This system was developed because many of the Soviet types have base connections which do not conform to the standard base designations of the Electronic Industries Association. In those instances where an electrode is connected to more than one base pin, only the lowest numbered pin is shown in the tabulation.

Outline drawings are shown for semiconductor diodes, transistors, and integrated circuits.

## 4. Terminology Used in the Tabulation

### 4.1 Column Headings

Headings used in the various formats are either the standard symbols as defined by the Institute of Electrical and Electronics Engineers or words descriptive of the given device characteristic. Headings are not further defined due either to the difficulties of translation or lack of definite information.

### 4.2 Bulb Size

This column heading, which is used in the Receiving, Power, Rectifier, etc. groups, uses a special code to describe the bulb shape and size. The numerical part of the code indicates the diameter of the glass bulb or metal anode (power tubes) in eighths of an inch according to the Standard of the Electronic Industries Association. The alphabetical part of the code is explained as follows:

*Prefix*

A – Air-cooled anode
B – Bell-shape
C – Ceramic construction
G – Globe-shaped bulb
F – Flat top of Soviet design
M – Metal tube
P – Spiral
R – Ring-shaped
S – ST design, i.e., the domed conical shaped glass bulb
T – Cylindrical Shape
U – U-shape flash tube
V – Vapor-cooled anode
W – Water-cooled anode

*Postfix*

B – Button glass stem
F – Flat press glass stem

For example, a "T3F" would be a cylindrical bulb with a flat press having a diameter of 3/8 inch.

### 4.3 Special Symbols

Receiving tubes (Group II) have postfixed letters with the following meaning:

"V"—Ruggedized tubes with 500-hour life
"K"—Vibration tested
"Ye"—3,000- to 10,000-hour long-life tubes
"I"—Intended for pulse use

Rectifier Diodes (Group XI) with postfixed letter "P" are available in reverse polarity.

### 4.4 Code

Due to the limitations of available columns in the punched card, one- to three-letter codes have been developed and used in the tabulation. These have been so chosen as to be readily understood. The following table lists code meanings alphabetically by code.

| | |
|---|---|
| A | Change of unit to amperes |
| AAB | Alpha and beta radiation |
| ACO | Acorn tube |
| ADR | And/or logic |
| AF | Audio frequency<br>Forced air cooling |
| AHE | Argon-helium gas-filled |
| AHN | Argon-helium-neon gas-filled |
| AKN | Argon-krypton gas-filled |
| AL | Aluminum cathode; countertube |
| ALP | Alpha radiation |
| AMK | Aluminum-magnesium alloy with potassium surface |
| AMP | Amplifier |
| AN | Natural air cooling |
| AND | And logic |
| ANR | And/nor logic |
| AR | Argon gas-filled |
| ARC | Arc rectifier-mercury pool |
| BA | Barium (metal) cathode |
| BAG | Beta and gamma radiation |
| BAL | Ballast or current regulator |
| BAO | Barium oxide cathode |
| BEA | Beam pentode |
| BET | Beta radiation |
| BIS | Bismuth sulphide |
| BL | Blue luminescence |
| BWD | Backward diode |
| BWT | Backward wave tube |
| C | Circular dynode arrangement<br>Common collector operation<br>Cold cathode<br>Continuous wave operation |
| CAM | Copper-aluminum-magnesium |
| CDS | Cadmium sulphide |
| CDSE | Cadmium selenide |
| CH | Charactron |
| CN | Converter |
| CO | Coax connector |
| COM | Commutator tube<br>Temperature compensation |
| CON | Control switch<br>Temperature control |
| COU | Counter tube |
| CP | Cap, external, in tabulation of bases |
| CSB | Cesium antimony photo surface |
| CU | Copper cathode; counter tube |
| CYL | Cylindrical shape (thermistors) |
| DBA | Double anode beam pentode |
| DEC | Decatron |
| DET | Detector operation |
| DIO | Diode<br>With diode, e.g., triode-diode |
| DSC | Disc shape |
| DT | Dark trace CR tube |
| DTL | Diode-transistor Logic |
| DUO | Double, e.g., double diode with separate cathodes |
| DWD | Duo diode (single cathode)<br>With duodiode, e.g., triode-duodiode |
| E | Common emitter operation |
| EL | Electrometer tube |
| ELM | Electromagnetic focus or deflection |
| ELS | Electrostatic focus or deflection |
| END | End-view indicator |
| EXP | Expander |
| F | Filamentary type cathode |
| FE | Iron cathode; counter tube |
| FIL | Filter circuit |
| FLP | Flip-flop |
| G | Giga ($10^9$) |
| GAM | Gamma radiation |
| GAN | Germanium alloy, n-type |
| GAP | Germanium alloy, p-type |
| GAS | Gallium arsenide |
| GDN | Germanium diffused junction, n-type |
| GDP | Germanium diffused junction, p-type |
| GE | Germanium |
| GEA | Germanium alloy junction |
| GEM | Germanium mesa structure |
| GEP | Germanium point-contact |
| GPN | Germanium, planar, n-type |
| GPP | Germanium point-contact, p-type |
| GR | Green luminescence<br>Graphite cathode; counter tube |
| GS | Gas-filled |
| GSP | Germanium surface-barrier, p-type |
| GTB | Gated beam pentode |
| H | Heater type cathode |
| h | Hecto ($10^2$) |
| HE | Helium gas-filled |
| HEX | Hexode |
| HG | Mercury vapor-filled |
| HK | Hydrogen-krypton gas-filled |
| HPT | Heptode |
| HY | Hydrogen gas-filled |
| IC | Iconoscope |
| ID | Indicator tube |
| IGN | Ignitron tube |
| IM | Image orthicon |
| INV | Inverter |
| k | Kilo ($10^3$) |
| K | Potassium |
| KLA | Klystron amplifier |
| KLO | Klystron oscillator |
| KX | Krypton-xenon gas-filled |
| L | Linear dynode arrangement<br>Liters per minute—cooling rate |
| LAM | Light amplifier |
| LD | Lead cathode; counter tube |
| LIM | Limiter |
| LIT | Lighthouse |

| | |
|---|---|
| LO | Long persistence screen |
| M | Mega ($10^6$)<br>Meters per second—Cooling rate |
| m | Milli ($10^{-3}$) |
| MAG | Magnetron |
| MCR | Metal-ceramic tube |
| MD | Medium persistence screen |
| MEA | Temperature measurement |
| MG | Magnesium cathode |
| MIX | Mixer |
| MJF | MOS junction FET transistor |
| MMP | MOS amplifier |
| MND | MOS-Nand logic |
| MNR | MOS-Nor logic |
| MO | Moly cathode |
| MOR | MOS—or Logic |
| MOS | Metal—oxide semiconductor |
| MUL | Multiplier |
| MVB | Multivibrator |
| N | n-type construction S/C |
| n | Nano ($10^9$) |
| NA | Neon—argon gas-filled |
| NDR | Nand/nor logic |
| NE | Neon gas-filled |
| NEH | Neon-helium gas-filled |
| NEU | Neutron |
| NI | Nickel cathode |
| NK | Neon-krypton gas-filled |
| NND | Nand logic |
| NO<br>NOI | Noise generator |
| NOR | Nor logic |
| NSP | Nuclear spectrometry |
| NUV | Nuvistor |
| OD | Double beam oscilloscope tube |
| OG | Orange-green luminescence |
| ONR | Or/nor logic |
| OR | Or logic |
| ORD | Or/and logic |
| OS | Oscilloscope tube |
| OSC | Oscillator |
| P | Pulse operation<br>p-type construction |
| PA | Power amplifier |
| PB | Purple-blue luminescence |
| PBS | Lead sulphide |
| PEN | Pencil tube |
| PHM | Photomultiplier |
| PHO | Phototube |
| PIN | Pin type diode |
| PM | Permanent magnet |
| PND | Pentode<br>With pentode e.g., triode-pentode |
| POW | Power rectifier |
| PR | Projection kinescope |
| PT | Phototelegraph reproduction |
| PTG | Pentagrid |
| R | Rectangular-diagonal dimension |
| RA | Radar |
| RD | Red luminescence |
| RDL | Resistor-diode logic |
| REG | Regulator (voltage) |
| RF | Radio frequency |
| RTL | Resistor-transistor Logic |
| S1–S7 | Spectral sensitivity of photo surface |
| S | Max. dimension of cathode ray tube face |
| SAN | Silicon alloy, n-type |
| SAP | Silicon alloy, p-type |
| SCC | Scintillation counters |
| SCG | Space-charge grid (with) |
| SCH | Schmitt trigger |
| SCR | Silicon controlled-rectifier |
| SDN | Silicon diffused junction, n-type |
| SEN | Silicon planar epitaxial-npn |
| SH | Short persistence screen |
| SI | Silicon |
| SIA | Silicon alloy junction |
| SID | Silicon diffused junction |
| SIDE | Side-View indicator |
| SIM | Silicon mesa |
| SIN | Single e.g., single triode |
| SIP | Silicon, point contact |
| SI4 | Silicon, 4-layer rectifier |
| SM | Secondary emission pentode |
| SN | Tin cathode; counter tube |
| SPN | Silicon planar n-type |
| SQ | Self-quenching type of counter |
| SS | Stainless steel; counter tube |
| ST | Storage tube |
| SWI | Switching diode or mode |
| T | Thoriated tungsten cathode |
| TET | Tetrode |
| THM | Thermocouple tube |
| TMS | Thermistor |
| TRD | With triple diode |
| TRI | Triode<br>With triode e.g., pentode-triode |
| TTL | Transistor logic |
| TUN | Tunnel diode |
| TV | Television tube<br>Television circuits |
| TWN | Twin with same cathode e.g., twin triode |
| TWT | Traveling-wave tube |
| $\mu$ | Micro ($10^6$) |
| UF | Ultra high frequency |
| UV | Ultra violet radiation |
| V | Venetian-blind dynode |
| VAR | Varactor |
| VB | Violet-blue luminescence |
| VC | Vacuum |
| VI | Vidicon |
| VID | Video detector |
| VR | Voltage regulator |
| W | Change of units to watts<br>Tungsten cathode<br>Water-cooled |
| WG | Wave guide coupling |
| WH | White luminescence |
| XE | Xenon gas-filled |
| YG | Yellow-green luminescence |
| YO | Yellow-orange luminescence |
| 1DA | Single diode array |
| 2DA | Double diode array |
| 3C | Three color screen for television |
| 3DA | Triple diode array |
| 4DA | Four diode array |
| 5O | Oscilloscope tube, 5 beam |
| 8DA | Eight diode array |
| *<br># | Meaning of symbols indicated in column heading |
| < | Less than (before digits) |
| * | Current type |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 144 | | | XA | | |
| FS-AG | PHG | | XV | | |
| FS-AO | PHG | | XV | | |
| FS-AV | PHG | | XV | | |
| FS-DO | PHG | | XV | | |
| FS-KG | PHG | | XV | | |
| FS-KO | PHG | | XV | | |
| FS-KV | PHG | | XV | | |
| TOS-M | TMS | CON | XIX | | |
| 0.24812-18 | 8AL | SIN | VI | | 7162-70 |
| 0.3B17-35 | BAL | SIN | VI | | 7162-70 |
| 0.3865-135 | BAL | SIN | VI | | 7162-70 |
| 0.425855-12 | BAL | SIN | VI | | 7162-70 |
| 0.6P2B * | PND | SIN | II | GK505AX | |
| 0.6S57A * | TRI | SIN | II | | |
| 0.6ZH68 | PND | SIN | II | | |
| 0.85855-12 | 8AL | SIN | VI | | 7162-70 |
| GR-0.8/1.6 | DWD | SIN | | GR1-0.25/1.5+ | |
| GRI-0.25/1.5 | DWD | SIN | IV | | |
| TG-0.3/0.3 | TRI | THY | | TG1-0.1/0.3+, 884$ | |
| TG-0.5/1.3 | TET | THY | | TG1-0.1/1.3+, 2050$ | |
| VG0251500 | DIO | SIN | | GR1-0.25/1.5+ | |
| AS-1 | GOU | | XXI | | |
| D1A | REC | | XI | | |
| D1B | REG | | XI | | |
| D1D | REG | | XI | | |
| D1G | REG | | XI | | |
| D1V | REG | | XI | | |
| D1YE | REC | | XI | | |
| D1ZH | REG | | XI | | |
| DG-S1 | MIX | | XIV | | |
| DG-TS1 | REG | | XI | D2G+ | |
| DK-I1M * | MIX | | XIV | | |
| DK-S1M * | MIX | | XIV | | |
| DK-V1 * | DET | | XIV | | |
| DL-S1 | MIX | | | | |
| F-1 * | PHO | | XVI | | |
| FD-1 | PHG | | XV | | |
| FDK-1 | PHC | | XV | | |
| FEU-1 * | PHM | | XVI | | |
| FEU-18 | PHM | | XVI | | |
| FEU-181V | PHM | | XVI | | |
| FEU-182V | PHM | | XVI | | |
| FEU-1S | PHM | | XVI | | |
| FEU-1V | PHM | | XVI | | |
| FS-A1 * | PHG | | XV | | |
| FS-D1 | PHG | | XV | | |
| FS-K1 | PHG | | XV | | |
| FSA-G1 | | | XV | | |
| FSD-G1 | | | XV | | |
| FSK-G1 | | | XV | | |
| FSK-P1 | | | XV | | |
| FT-1 | PHG | | XV | | |
| FTG-1 | PHG | | XV | | |
| GE-1 | TET | SIN | III | GKE-100* | |
| GG-1-0.3/8 | DIO | SIN | IV | | |
| GG1-0.5/5 | DIO | SIN | IV | VG1.5/5000+ | 13705-68 |
| GG-1-0.5/20 | DIO | SIN | IV | | |
| GG-1-1/22 | DIO | SIN | IV | | |
| GG-1-2/5 | DIO | SIN | IV | | |
| GG-1-2/16 | DIO | SIN | IV | | |
| GG-1.5/15 | DIO | SIN | | GG1-0.5/5+ | |
| GK1A | TRI | SIN | III | | |
| GM1A | TRI | SIN | III | | 14609-69 |
| GM1P | TRI | SIN | 111 | | |
| GMI-18 | TRI | SIN | III | | |
| GR1-02/15 | DIO | SIN | IV | | |
| GR-1-0.3/8.5 | DIO | SIN | IV | | |
| GR-1-25/15 | DWD | SIN | IV | | |
| GS-18 | TRI | SIN | III | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| GUZH-1 | PND | SIN | | G411+ | |
| I-1-25/0.8 | | | IV | 5550$ | |
| I-1-50/20 | | | IV | | |
| I-1-70/0.8 | TRI | IGN | IV | 5551A$ | |
| I-1-100/1.5 | TRI | IGN | IV | | |
| I-1-140/0.8 | TRI | IGN | IV | 5552A$ | |
| I-1-350/0.8 | TRI | IGN | 1V | 7673$ | |
| IN-1 * | DEG | | XXIIIA | | |
| KF-1 | TET | TWN | | GU-29+, 829B$ | |
| KMT-1 * | TMS | | XIX | | 10688-63 |
| KZH1 | PND | SIN | | G411* | |
| LD1 | TRI | SIN | | 12S3S+ | |
| LG-1 | DWD | SIN | | 12KH3S+ | |
| LI-1 | IG | | VIII | | |
| MMT-1 * | TMS | | XIX | | 10688-63 |
| MS1 | TRI | SIN | | GM-60+ | |
| OG-1 | DEG | | XXIII | | |
| P1A | | | X | | |
| P1B | | | X | | |
| P1D | | | X | | |
| P1G | | | X | | |
| P1I | | | X | | |
| P1V | | | X | | |
| P1YE | | | X | | |
| P1ZH | | | X | | |
| R-1 | | | XXII | | |
| R8-1 | | | XXII | | |
| S1A | | | X | | |
| S1B | | | X | | |
| S1D | | | X | | |
| S1G | | | X | | |
| S1V | | | X | | |
| S1YE | | | X | | |
| SBS-1 | GOU | | XXI | | |
| SFK-1 | GOU | UV | XXI | | |
| SG18 | DIO | SIN | | 0A2$ | |
| SG1P | DIO | SIN | V | 0A2$ | 13282-67 |
| SG1P-V | REG | | | SG1P+ | |
| SG1P-YE | REG | | | SG1P+ | |
| SI-1BG | GOU | | XXI | | |
| SI-1G | COU | | | STS-1+ | |
| SK1-5.6/1000 | REG | | XIII | | |
| SK1-6.8/1000 | REG | | XIII | | |
| SK1-8.2/1000 | REG | | XIII | | |
| SK1-10/500 | REG | | XIII | | |
| SK1-12/500 | REG | | XIII | | |
| SK1-15/500 | REG | | XIII | | |
| SK1-18/500 | REG | | XIII | | |
| SK1-22/150 | REG | | XIII | | |
| SK1-24/150 | REG | | XIII | | |
| SK1-28/150 | REG | | XIII | | |
| SK1-30/150 | REG | | XIII | | |
| SK1-36/150 | REG | | XIII | | |
| SK1-43/150 | REG | | XIII | | |
| SK1-51/150 | REG | | XIII | | |
| SK1-62/50 | REG | | XIII | | |
| SK1-75/50 | REG | | XIII | | |
| SK1-95/50 | REG | | XIII | | |
| SK1-110/50 | REG | | XIII | | |
| SK1-120/50 | REG | | XIII | | |
| SK1-150/50 | REG | | XIII | | |
| SK1-180/50 | REG | | XIII | | |
| SK1-220/25 | REG | | XIII | | |
| SK1-270/25 | REG | | XIII | | |
| SK1-300/25 | REG | | XIII | | |
| ST1-17 | TMS | MEA | XIX | | |
| ST1-18 | | | XIX | | |
| ST1-19 | TMS | MEA | XIX | | |
| ST-1-21 | TMS | | XIX | | |
| ST-1-30 | TMS | | XIX | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| STS-1 | COU | | XXI | | |
| T-1B | TRI | THY | | TG-18+ | |
| TG1B | TRI | THY | VII | | |
| TG18-V | TRI | THY | | TG18+ | |
| TG1P | | | VII | | |
| TG1-.02/0.5 | TET | THY | VII | | |
| TG1-0.1/0.3 | TRI | THY | VII | 884$ | |
| TG1-0.1/1.3 | TET | THY | VII | 2050$ | 7843-55 |
| TG1-0.5/12 | TRI | THY | VII | | |
| TG1-1.0/0.8 | TET | THY | VII | | |
| TG1-1.5/2 | TRI | THY | VII | | |
| TG1-1.6/1.3 | TRI | THY | VII | | |
| TG1-2/8 | | | VII | | |
| TG1-2.5/4 | TRI | THY | VII | TG8/3, TG1-2.5/3*+ | 7952-68 |
| TG1-2.5/10 | | | VII | | |
| TG1-3.2/1.3 | TRI | THY | VII | | |
| TG1-5/3 | TRI | THY | VII | | 7953-56 |
| TG1-6.4/1.3 | TRI | THY | VII | | |
| TG1-12.5/1.3 | TRI | THY | VII | | |
| TGI-1B | TRI | THY | VII | | |
| TGI-1-3/1 | TET | THY | VII | | |
| TGI-1-5/1.1 | TRI | THY | VII | | |
| TGI-1-10/1 | TRI | THY | VII | | |
| TGI-1-35/3 | TRI | THY | VII | 3C45$ | |
| TGI-1-50/5 | TRI | THY | VII | | |
| TGI-1-90/8 | TRI | THY | VII | MTI-4*+ | |
| TGI-1-130/8 | TRI | THY | VII | | |
| TGI-1-130/10 | TRI | THY | VII | | |
| TGI-1-260/12 | | | VII | | |
| TGI-1-325/16 | TRI | THY | VII | MTI-5+, TGI-325/16+ | |
| TGI-1-400/3.5 | TRI | THY | VII | | |
| TGI-1-400/16 | TRI | THY | VII | | |
| TGI-1-500/16 | | | VII | | |
| TGI-1-500/20 | | | VII | | |
| TGI-1-700/25 | TRI | THY | VII | | |
| TGI-1-1000/25 | | | VII | | |
| TGI1-2000/35 | | | VII | | |
| TGI1-2500/35 | | | VII | | |
| TKI-1 | TMS | MEA | XIX | | |
| TKH1 | TRI | THY | VII | 313C | |
| TKH1B | TRI | THY | VII | | |
| TKHI-1G | PND | | VII | | |
| TM-1 | TRI | SIN | | 6S5D+, 2C40$ | |
| TNI-1.5 | DEC | | XXIII | | |
| TO-1 | PND | SIN | | 10ZH12S+ | |
| TR1-2.5/3 | | | V11 | | |
| TR1-5/2 | TRI | THY | VII | VT-3 | 7954-69 |
| TR1-6/3 | | | V11 | | |
| TR1-6/15 | TRI | THY | VII | | 7955-68 |
| TR1-15/3 | | | V11 | | |
| TR1-15/15 | TRI | THY | VII | | |
| TR1-15/20 | | | V11 | | |
| TR1-40/15 | TRI | THY | VII | | 7956-69 |
| TR1-85/15 | TRI | THY | VII | | |
| TR1-130/15 | TRI | THY | VII | | |
| TSG-1 | PHO | | XVI | | |
| TSH-1 | TMS | MEA | XIX | | |
| TST-1A | TMS | REG | XIX | | |
| TSV-1 | PHO | | XVI | | |
| TVB-1 | THM | | XVIII | | |
| V1-00313 | DIO | SIN | IV | V13/30+,3B26 | |
| V1-02/20 | DIO | SIN | IV | | |
| V1-03/13 | DIO | SIN | IV | | |
| V1-05/70 | DIO | SIN | IV | | |
| V1-06/30 | DIO | SIN | IV | | |
| V1-1/2.5 | DIO | SIN | IV | | |
| V1-1/30 | DIO | SIN | IV | | |
| V1-1/40 | DIO | SIN | IV | | |
| V1-2/40 | DIO | SIN | IV | | |
| V1-3/16 | DIO | SIN | IV | | |
| V1-3/70 | DIO | SIN | IV | | |
| V1-4/40 | DIO | SIN | IV | | |
| V1-15/55 | DIO | SIN | IV | | |
| VD1 | DIO | SIN | | V1-1/40+ | |
| VDI-1D | DIO | SIN | | VI-1-100/50+ | |
| VG1/8500 | DIO | SIN | IV | | |
| VG1.5/5000 | DIO | SIN | | GG2-0.5/5+ | |
| VI-1-5/20 | DIO | SIN | IV | | |
| VI-1-5/30 | DIO | SIN | IV | | |
| VI-1-18/32 | DIO | SIN | IV | | |
| VI-1-27/35 | DIO | SIN | IV | | |
| VI-1-30/25 | DIO | SIN | IV | | |
| VI-1-70/32 | DIO | SIN | IV | | |
| VI-1-100/50 | DIO | SIN | IV | | |
| VO-1 | DIO | SIN | IV | | |
| VSTS-1 | PHO | | | F-3+ | |
| VT-1 | TRI | THY | | TG-2.5/5+ | |
| 1A1P | PTG | SIN | II | 1R5$, DK91, DK192 | 7708-66 |
| 1A2P * | PTG | SIN | II | DK96=, 1R5$ | 9836-66 |
| 1A501A | | | XI-E | | |
| 1A501G | | | XI-E | | |
| 1A501I | | | XI-E | | |
| 1A504A | | | XI-E | | |
| 1A504B | | | XI-E | | |
| 1B1P | PND | DIO | II | 1S5$, DAF91=, DAF191 | 8006-56 |
| 182P * | PND | DIO | II | DAF96=, 1S5$ | 9837-66 |
| 185-9 | 8AL | SIN | VI | | 7162-70 |
| 1810-17 | 8AL | SIN | VI | | 7162-70 |
| 1DA191 | | | XA | | |
| 1E1P * | TET | SIN | II | | |
| 1E3P | TRI | SIN | II | EM-4+ | |
| 1F2B | PND | TRI | II | | |
| 1GF191 | | | XA | | |
| 1GF192 | MV8 | | XA | | |
| 1GF193 | MV8 | | XA | | |
| 1I2P | PND | TRI | II | | |
| 1I-302A | TUN | GAS | XI-B | | |
| 1I-302B | TUN | GAS | XI-B | | |
| 1I-302G | TUN | GAS | XI-8 | | |
| 1I-302V | TUN | GAS | XI-8 | | |
| 1IE201 | | | XA | | |
| 1IL131A | | | XA | | |
| 1IL1318 | | | XA | | |
| 1IL131V | | | XA | | |
| 1IL141A | | | XA | | |
| 1IL1418 | | | XA | | |
| 1IR141A | | | XA | | |
| 1IR141B | | | XA | | |
| 1IR201 | MOS | | XA | | |
| 1IR202 | MOS | | XA | | |
| 1IR451 | MOS | | XA | | |
| 1JAM351 | MOS | | XA | | |
| 1K1P | PND | SIN | II | 1T4$, DF91= | 7707-55 |
| 1K2P * | PND | SIN | II | DF96=, 1T4$ | 9946-66 |
| 1K12B | PND | SIN | II | | |
| 1KP191 | | | XA | | |
| 1KT011A | | | XA | | |
| 1KT0118 | | | XA | | |
| 1KT011G | | | XA | | |
| 1KT011V | | | XA | | |
| 1KT491 | | | XA | | |
| 1L8041 | NND | | XA | | |
| 1LB042 | NND | | XA | | |
| 1L8043 | NND | | XA | | |
| 1LB044 | NND | | XA | | |
| 1LB061 | NDR | | XA | | |
| 1L8062 | NDR | | XA | | |
| 1LB063 | NDR | | XA | | |
| 1L8064 | NDR | | XA | | |
| 1LB065 | NDR | | XA | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 1LB066 | NDR | | XA | | |
| 1LB067 | NDR | | XA | | |
| 1LB068 | NDR | | XA | | |
| 1LB069 | NDR | | XA | | |
| 1LB091A | NDR | | XA | | |
| 1LB091B | NDR | | XA | | |
| 1LB091G | NDR | | XA | | |
| 1LB091V | NDR | | XA | | |
| 1LB092A | NDR | | XA | | |
| 1LB092B | NDR | | XA | | |
| 1LB111 | NOR | | XA | | |
| 1LB112 | NOR | | XA | | |
| 1LB113 | NOR | | XA | | |
| 1LB131A | NOR | | XA | | |
| 1LB131B | NOR | | XA | | |
| 1LB131V | NOR | | XA | | |
| 1LB132A | NOR | | XA | | |
| 1LB132B | NOR | | XA | | |
| 1LB132V | NOR | | XA | | |
| 1LB133A | NOR | | XA | | |
| 1LB133B | NOR | | XA | | |
| 1LB133V | NOR | | XA | | |
| 1LB134A | NOR | | XA | | |
| 1LB134B | NOR | | XA | | |
| 1LB134V | NOR | | XA | | |
| 1LB135A | NOR | | XA | | |
| 1LB135B | NOR | | XA | | |
| 1LB135V | NOR | | XA | | |
| 1LB141A | NOR | | XA | | |
| 1LB141B | NOR | | XA | | |
| 1LB142A | NOR | | XA | | |
| 1LB142B | NOR | | XA | | |
| 1LB143A | NOR | | XA | | |
| 1LB143B | NOR | | XA | | |
| 1LB144A | NOR | | XA | | |
| 1LB144B | NOR | | XA | | |
| 1LB145A | NOR | | XA | | |
| 1LB145B | NOR | | XA | | |
| 1LB146A | NOR | | XA | | |
| 1LB146B | NOR | | XA | | |
| 1LB211A | NDR | | XA | | |
| 1LB211B | NDR | | XA | | |
| 1LB211G | NDR | | XA | | |
| 1LB211V | NDR | | XA | | |
| 1LB212A | NDR | | XA | | |
| 1LB212B | NDR | | XA | | |
| 1LB251 | MND | | XA | | |
| 1LB331A | NND | | XA | | |
| 1LB331B | NND | | XA | | |
| 1LB332A | NND | | XA | | |
| 1LB332B | NND | | XA | | |
| 1LB341 | NOR | | XA | | |
| 1LB342 | NOR | | XA | | |
| 1LB371 | | | XA | | |
| 1LB372 | ONR | | XA | | |
| 1LB381 | ONR | | XA | | |
| 1LB391 | ONR | | XA | | |
| 1LB392 | ONR | | XA | | |
| 1LB471 | MNR | | XA | | |
| 1LB472 | MNR | | XA | | |
| 1LB0610 | NDR | | XA | | |
| 1LI041 | AND | | XA | | |
| 1LI042 | AND | | XA | | |
| 1LI043 | AND | | XA | | |
| 1LI044 | AND | | XA | | |
| 1LI045 | AND | | XA | | |
| 1LL201 | MOR | | XA | | |
| 1LP061 | OR | | XA | | |
| 1LP062 | OR | | XA | | |
| 1LP063 | OR | | XA | | |
| 1LP064 | OR | | XA | | |
| 1LP065 | OR | | XA | | |
| 1LP066 | OR | | XA | | |
| 1LP067 | OR | | XA | | |
| 1LP068 | OR | | XA | | |
| 1LP091 | | | XA | | |
| 1LP141 | OR | | XA | | |
| 1LP142 | OR | | XA | | |
| 1LP201 | MOS | | XA | | |
| 1LP211 | | | XA | | |
| 1LP251 | MOS | | XA | | |
| 1LP331 | OR | | XA | | |
| 1LP371 | | | XA | | |
| 1LP391 | | | XA | | |
| 1LP421 | MOS | | XA | | |
| 1LP471 | MOS | | XA | | |
| 1LR061 | ADR | | XA | | |
| 1LR062 | ADR | | XA | | |
| 1LR063 | ADR | | XA | | |
| 1LR064 | ADR | | XA | | |
| 1LR271 | ADR | | XA | | |
| 1LR331A | ADR | | XA | | |
| 1LR331B | ADR | | XA | | |
| 1LR341 | ADR | | XA | | |
| 1LR342 | ADR | | XA | | |
| 1LR421 | MOS | | XA | | |
| 1LS271 | ADR | | XA | | |
| 1MA191 | | | XA | | |
| 1N1 | TRI | TWN | | 1N3S= | |
| 1N1 * | | | XXIIIA | | |
| 1N3S * | TRI | TWN | II | 1N1+, 1G6-GT$ | |
| 1ND041 | | | XA | | |
| 1ND042 | | | XA | | |
| 1ND043 | | | XA | | |
| 1ND044 | | | XA | | |
| 1P2B * | PND | SIN | II | CK507AX | |
| 1P3B | PND | SIN | II | | |
| 1P4B * | PND | SIN | II | | |
| 1P5B * | PND | SIN | II | | |
| 1P22B * | PND | SIN | II | | |
| 1P24B * | PND | SIN | II | | |
| 1P32B * | PND | SIN | II | | |
| 1PP191 | | | XA | | |
| 1S12P | TRI | SIN | II | DC96= | |
| 1S38A * | TRI | SIN | II | | |
| 1SV191 | AMP | | XA | | |
| 1T303A | | | X | | |
| 1T303B | | | X | | |
| 1T303D | | | X | | |
| 1T303G | | | X | | |
| 1T303V | | | X | | |
| 1T303YE | | | X | | |
| 1T308A | | | | GT308A+ | |
| 1T308B | | | | GT308B+ | |
| 1T308V | | | | GT308V+ | |
| 1T403A | | | | GT403A+ | |
| 1T403B | | | | GT403B+ | |
| 1T403D | | | | GT403D+ | |
| 1T403G | | | | GT403G+ | |
| 1T403I | | | | GT403I+ | |
| 1T403V | | | | GT403V+ | |
| 1T403YE | | | | GT403YE+ | |
| 1T403ZH | | | | GT403ZH+ | |
| 1TK191 | | | XA | | |
| 1TK251 | MOS | | XA | | |
| 1TK471 | MOS | | XA | | |
| 1TR061 | ADR | | XA | | |
| 1TR062 | ADR | | XA | | |
| 1TR063 | ADR | | XA | | |
| 1TR064 | ADR | | XA | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| 1TR131A | | NOR | | XA | | |
| 1TR131B | | NOR | | XA | | |
| 1TR131V | | NOR | | XA | | |
| 1TR141A | | NOR | | XA | | |
| 1TR1418 | | NOR | | XA | | |
| 1TR421 | | MOS | | XA | | |
| 1TS1 | | DIO | SIN | | 1TS1S+, 1VD1+ | |
| 1TS1S | * | DIO | SIN | II | 1TS1+, 1VD1+,1Z1$ | |
| 1TS7S | * | DIO | SIN | II | DY30=, 1B3/8016$ | 8359-66 |
| 1TS11P | * | DIO | SIN | II | | |
| 1TS208 | | DIO | SIN | II | | |
| 1TS21P | * | DIO | SIN | II | 1S2$,DY86=,DYB7= | 13849-68 |
| 1TSH191 | | SCH | | XA | | |
| 1UB191 | | AMP | | XA | | |
| 1UI461 | | AMP | | XA | | |
| 1UI462 | | AMP | | XA | | |
| 1US191 | | AMP | | XA | | |
| 1US192 | | AMP | | XA | | |
| 1US221A | | AMP | | XA | | |
| 1US221B | | AMP | | XA | | |
| 1US221V | | AMP | | XA | | |
| 1US222A | | AMP | | XA | | |
| 1US222B | | AMP | | XA | | |
| 1US222V | | AMP | | XA | | |
| 1US481 | | AMP | | XA | | |
| 1UT191 | | AMP | | XA | | |
| 1UT221A | | AMP | | XA | | |
| 1UT221B | | AMP | | XA | | |
| 1UT221G | | AMP | | XA | | |
| 1UT221V | | AMP | | XA | | |
| 1UT321 | | AMP | | XA | | |
| 1UT401 | | AMP | | XA | | |
| 1UYE191 | | AMP | | XA | | |
| 1UYE201 | | MMP | | XA | | |
| 1V3/8016 | | DIO | SIN | | 1TS7S+, 1B3/8016$ | |
| 1VD1 | | DIO | SIN | | 1TS1, 1TS1S+ | |
| 1VD2 | | DIO | SIN | | 1TS7S+, 1B3/8016$ | |
| 1YE4A | | TRI | SIN | II | | |
| 1ZH1ZH | | PND | SIN | II | | |
| 1ZH2 | | PND | SIN | | 1ZH2M+ | |
| 1ZH2M | | PND | SIN | II | 1ZH2* | |
| 1ZH17B | * | PND | SIN | II | | |
| 1ZH18B | * | PND | SIN | II | | |
| 1ZH24B | * | PND | SIN | II | | |
| 1ZH26A | | PND | SIN | II | | |
| 1ZH29B | * | PND | SIN | II | | |
| 1ZH30B | | PND | SIN | II | | |
| 1ZH368 | * | PND | SIN | II | | |
| 1ZH37B | * | PND | SIN | II | | |
| 1ZH42A | * | PND | SIN | II | | |
| AS-2 | | COU | | XXI | | |
| D2A | | REC | | XI | DG-TS9*+ | |
| D2B | | REC | | XI | DG-TS10*+ | 14341-69 |
| D2D | | REC | | XI | DG-TS2*+ | 14341-69 |
| D2G | | REC | | XI | DG-TS1*+ | 14341-69 |
| D2I | * | REC | | XI | | 14341-69 |
| D2K | | REC | | XI | DG-TS6*+ | |
| D2M | | REC | | XI | DG-TS7*+ | |
| D2N | | REC | | XI | DG-TS15*+ | |
| D2P | | REC | | XI | DG-TS16*+ | |
| D2R | | REC | | XI | | |
| D2V | | REC | | XI | DG-TS8+ | 14341-69 |
| D2YE | | REC | | XI | DG-TS4*+ | 14341-69 |
| D2ZH | | REC | | XI | DG-TS5*+ | 14341-69 |
| DG-S2 | | MIX | | XIV | | |
| DG-TS2 | | REC | | XI | D2D+ | |
| DI-2-10 | | DIO | SIN | | 2D1S+ | |
| DK-I2M | * | MIX | | XIV | | |
| DK-S2M | * | MIX | | XIV | | |
| DK-V2 | * | DET | | XIV | | |
| DL-S2 | | MIX | | | | |
| DSH2-10 | | DIO | SIN | | 2D2S+ | |
| F-2 | * | PHO | | XVI | | |
| FD-2 | | PHC | | XV | | |
| FEU-2 | * | PHM | | XVI | | |
| FEU-2B | | PHM | | XVI | | |
| FEU-2B1V | | PHM | | XVI | | |
| FEU-2M | | PHM | | XVI | | |
| FEU-2V | | PHM | | XVI | | |
| FS-2A | | PHC | | XV | | |
| FS-82 | | PHC | | XV | | |
| FS-K2 | | PHC | | XV | | |
| FSA-G2 | | | | XV | | |
| FSK-G2 | | | | XV | | |
| GE-2 | | TET | SIN | III | GKE-150= | |
| GMI-2B | | TET | SIN | III | | |
| GS-2B | | TRI | SIN | III | | |
| GU-2 | | BEA | SIN | II | | |
| GUZH-2 | | BEA | SIN | | G807+, 807$ | |
| GZH2 | | PND | SIN | | G413+ | |
| I-2-50/1.5 | | TRI | IGN | IV | | |
| I2-70/0.8 | * | TRI | IGN | IV | | 15480-7 |
| I2-140/0.8 | * | TRI | IGN | IV | | 15481-7 |
| I2-200/1.5 | * | TET | IGN | IV | | 16282-7 |
| I2-350/0.8 | * | TRI | IGN | IV | | 15482-7 |
| IN-2 | * | | | XXIII-A | | |
| KF-2 | | BEA | TWN | | GU-32+, 832-A$ | |
| KS-2 | | TRI | SIN | | GU-4+ | |
| KZH-2 | | BEA | SIN | | G-807+, 807$ | |
| MTI-2 | | TRI | THY | | TGI-200+ | |
| OG-2 | | DEC | | XXIII | | |
| P2A | | | | X | | |
| P2B | | | | X | 0C821= | |
| PT-2 | | TRI | THY | | TG-213* | |
| R-2 | | | | XXII | | |
| R-2M | | | | XXII | | |
| RB-2 | | | | XXII | | |
| S2A | | | | X | | |
| S28 | | | | X | | |
| S2G | | | | X | | |
| S2V | | | | X | | |
| SF2-1 | | | | XV | | |
| SF-2-2 | | | | XV | | |
| SF-2-4 | | | | XV | | |
| SF-2-5 | * | CDS | | XV | | |
| SF-2-8 | * | CDS | | XV | | |
| SF-2-9 | | | | XV | | |
| SF-2-12 | | | | XV | | |
| SF-2-16 | * | CDS | | XV | | |
| SG2P | | DIO | SIN | V | 0B2$ | 13283-67 |
| SG2S | | DIO | SIN | V | 0A3$ | |
| SI-2B | | COU | | XXI | | |
| SI-2BG | | COU | | XXI | | |
| SK2-5.6/2000 | | REG | | XIII | | |
| SK2-6.8/2000 | | REG | | XIII | | |
| SK2-8.2/2000 | | REG | | XIII | | |
| SK2-10/1000 | | REG | | XIII | | |
| SK2-12/1000 | | REG | | XIII | | |
| SK2-15/1000 | | REG | | XIII | | |
| SK2-18/700 | | REG | | XIII | | |
| SK2-22/300 | | REG | | XIII | | |
| SK2-24/300 | | REG | | XIII | | |
| SK2-28/300 | | REG | | XIII | | |
| SK2-30/300 | | REG | | XIII | | |
| SK2-36/300 | | REG | | XIII | | |
| SK2-43/300 | | REG | | XIII | | |
| SK2-51/200 | | REG | | XIII | | |
| SK2-62/200 | | REG | | XIII | | |
| SK2-75/100 | | REG | | XIII | | |
| SK2-91/100 | | REG | | XIII | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| SK2-110/100 | REG | | XIII | | |
| SK2-120/100 | REG | | XIII | | |
| SK2-150/100 | REG | | XIII | | |
| SK2-180/100 | REG | | XIII | | |
| SK2-220/50 | REG | | XIII | | |
| SK2-270/50 | REG | | XIII | | |
| SK2-300/50 | REG | | XIII | | |
| ST-2-26 | | | XIX | | |
| ST2S | BAL | TWN | VI | | 7162-70 |
| STS-2 | COU | | XXI | | |
| STSV-2A | PHO | | | F-2+ | |
| TG2-01/01 | TRI | THY | VII | 1050$ | |
| TG2-0.5/12 | TRI | THY | VII | | |
| TG-2.5/5 | TRI | THY | VII | VT-1 | |
| TGI-2.5/3 | TRI | THY | | TG1-2.5/4*+ | |
| TGI-2.5/10 | TET | | | | |
| TGI-2-260/12 | TRI | THY | VII | | |
| TGI-2-32516 | TRI | THY | VII | | |
| TGI-2-40035 | TRI | THY | VII | | |
| TKH-2 | TRI | THY | VII | | |
| TKI-2 | TMS | MEA | XIX | | |
| TO-2 | PND | SIN | | 10P12S+ | |
| TP-2/0.5 | REG | | XIX | | |
| TP-2/2 | REG | | XIX | | |
| TSH-2 | TMS | MEA | XIX | | |
| TV-2 | THM | | XVIII | | |
| TVB-2 | THM | | XVIII | | |
| VD2 | DIO | SIN | | V1-2/40+ | |
| VI-2-27/35 | DIO | SIN | IV | | |
| VI-2-70/32 | DIO | SIN | IV | | |
| VI-2-100/50 | DIO | SIN | IV | | |
| 2A1 | PTG | SIN | II | S0242*+ 2A1M | |
| 2A1M | PTG | SIN | | S0242*+ | |
| 2A3 | TRI | SIN | | 2S4S+, 2A3$ | |
| 2A201A | | | XIV | | |
| 2A202A | | | XIV | | |
| 2D1L | DWD | SIN | II | | |
| 2D1S * | DIO | SIN | II | DI-2-10+ | |
| 2D2S * | DIO | SIN | II | DSH2-10+ | |
| 2D3B * | DIO | SIN | II | | |
| 2D3S | DIO | SIN | II | | |
| 2D7S * | DIO | SIN | II | | |
| 2D9S * | DIO | SIN | II | | |
| 2D21 | TET | THY | | TG3-0.1/1.3+, 2D21$ | |
| 2D503A | SI | | | KD503A+ | |
| 2D503B | SI | | | KD503A+ | |
| 2DA1B1 | DET | | XA | | |
| 2DS191 | LIM | | XA | | |
| 2E1 | TET | SIN | II | | |
| 2E2 | TET | SIN | II | UB155+ | |
| 2E2P * | TET | TWN | II | | |
| 2F2M | TRI | SIN | | | |
| 2FP201 | FIL | | XA | | |
| 2GF181 | MVB | | XA | | |
| 2GF182 | MVB | | XA | | |
| 2GF201 | MVB | | XA | | |
| 2GS191 | OSC | | XA | | |
| 2GS192 | OSC | | XA | | |
| 2GS193 | OSC | | XA | | |
| 2ID231 | | | XA | | |
| 2IE111 | | | XA | | |
| 2IE112 | | | XA | | |
| 2IE231 | | | XA | | |
| 2IL071 | | | XA | | |
| 2IL072 | | | XA | | |
| 2IL073 | | | XA | | |
| 2IL231 | | | XA | | |
| 2IR111 | | | XA | | |
| 2IR112 | | | XA | | |
| 2J55 | MAG | | IX | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 2K1 | PND | | II | 2K1M+ | |
| 2K1M | PND | SIN | II | 2K1*, SB241* | |
| 2K2 | PND | SIN | | 2K2M* | |
| 2K2M | PND | SIN | II | 1E5G$, 2K2*, S0241* | |
| 2KD281 | SWI | | XA | | |
| 2KD2B2 | SWI | | XA | | |
| 2KH1 | DWD | SIN | | 2KH1L+ | |
| 2KH1L * | DWD | SIN | II | 2KH1* | |
| 2KH2 | DIO | SIN | | 2VDBA+, 2TS2S+, 2X2$ | |
| 2KT2B1 | SWI | | XA | | |
| 2LB011 | NND | | XA | | |
| 2LB012 | NOR | | XA | | |
| 2LB013 | NOR | | XA | | |
| 2LB014 | NND | | XA | | |
| 2LB015 | NND | | XA | | |
| 2LB016 | NOR | | XA | | |
| 2LB017 | NOR | | XA | | |
| 2LB041 | NDR | | XA | | |
| 2LB042 | NND | | XA | | |
| 2LB051 | NOR | | XA | | |
| 2LB052 | NOR | | XA | | |
| 2LB053 | NOR | | XA | | |
| 2LB071 | NOR | | XA | | |
| 2LB072 | NOR | | XA | | |
| 2LB073 | NOR | | XA | | |
| 2LB074 | NOR | | XA | | |
| 2LB075 | NOR | | XA | | |
| 2LB076 | NOR | | XA | | |
| 2LB111 | NND | | XA | | |
| 2LB112 | NND | | XA | | |
| 2LB113 | NND | | XA | | |
| 2LB114 | NND | | XA | | |
| 2LB115 | NND | | XA | | |
| 2LB116 | NND | | XA | | |
| 2LB117 | NND | | XA | | |
| 2LB11B | NND | | XA | | |
| 2LB119 | NND | | XA | | |
| 2LB171 | NND | | XA | | |
| 2LB172 | NND | | XA | | |
| 2LB173 | NND | | XA | | |
| 2LB1B1 | | | XA | | |
| 2LB211 | | | XA | | |
| 2LB231 | ORD | | XA | | |
| 2LB1110 | NOR | | XA | | |
| 2LB1111 | NOR | | XA | | |
| 2LB1112 | NOR | | XA | | |
| 2LI041 | | | XA | | |
| 2LL231 | | | XA | | |
| 2LN021 | NND | | XA | | |
| 2LN022 | NND | | XA | | |
| 2LN051 | NND | | XA | | |
| 2LN052 | NND | | XA | | |
| 2LN111 | NND | | XA | | |
| 2LN112 | NND | | XA | | |
| 2LN113 | NND | | XA | | |
| 2LN114 | NND | | XA | | |
| 2LN115 | NND | | XA | | |
| 2LN116 | NND | | XA | | |
| 2LN151 | NND | | XA | | |
| 2LN1B1 | INV | | XA | | |
| 2LN1B2 | INV | | XA | | |
| 2LN183 | INV | | XA | | |
| 2LN211 | NOR | | XA | | |
| 2LP171 | EXP | | XA | | |
| 2LP172 | EXP | | XA | | |
| 2LP173 | EXP | | XA | | |
| 2LR171 | ANR | | XA | | |
| 2LR221 | ANR | | XA | | |
| 2LS011 | ADR | | XA | | |
| 2LS021 | ADR | | XA | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 2LS022 | ADR | | XA | | |
| 2LS023 | ADR | | XA | | |
| 2LS024 | ADR | | XA | | |
| 2LS025 | ADR | | XA | | |
| 2LS026 | ADR | | XA | | |
| 2LS027 | ADR | | XA | | |
| 2LS028 | ADR | | XA | | |
| 2LS151 | ADR | | XA | | |
| 2LS152 | ADR | | XA | | |
| 2LS211 | | | XA | | |
| 2MS191 | | | XA | | |
| 2MS192 | | | XA | | |
| 2ND021 | | | XA | | |
| 2ND022 | | | XA | | |
| 2NE281 | | | XA | | |
| 2NK041 | | | XA | | |
| 2NK051 | | | XA | | |
| 2NK281 | | | XA | | |
| 2NS191A | | | XA | | |
| 2NS191B | | | XA | | |
| 2NT011 | | | XA | | |
| 2NT012 | | | XA | | |
| 2NT013 | | | XA | | |
| 2NT171 | | | XA | | |
| 2NT172 | | | XA | | |
| 2NT173 | | | XA | | |
| 2NT191 | | | XA | | |
| 2N1 | TRI | DUO | II | 1J6GT$, 2N1M*, SB243, S0243 | |
| 2N1M | TRI | DUO | | 2N1+, SB243+, S0243+ | |
| 2P1 | BEA | SIN | II | SB244+, S0244+ | |
| 2P1M | BEA | SIN | | 2P1P+, S8244 | |
| 2P1P | 8EA | SIN | II | DL94=, 2P1M, 3S4$ | 8005-66 |
| 2P2 | 8EA | SIN | II | 3S4$ | |
| 2P2P * | 8EA | SIN | II | DL92=, 3S4$ | 9947-66 |
| 2P3 | 8EA | SIN | II | S8258+, S0258+, 2P2M+ | |
| 2P58 * | PND | SIN | II | | |
| 2P9 | BEA | SIN | | 2P9M+, 2P9S | |
| 2P9M | 8EA | SIN | II | 2P9+, 2P9S, 6AK7 | |
| 2P9S | 8EA | SIN | | 2P9M+, 2P9 | |
| 2P19B | PND | SIN | II | | |
| 2P21S | BEA | SIN | | | |
| 2P29 | PND | SIN | | 2P29L+ | |
| 2P29L * | PND | SIN | II | | |
| 2P29P | PND | SIN | II | | |
| 2S1 | TRI | SIN | II | UB152+ | |
| 2S2 | TRI | SIN | II | UB240+ | |
| 2S3 | TRI | SIN | | 2S4S+, 2A3$ | |
| 2S3A * | TRI | SIN | II | | |
| 2S3M | TRI | SIN | | 2S2+ | |
| 2S4S * | TRI | SIN | II | 2A3$ | |
| 2S14B * | TRI | SIN | II | | |
| 2S22 | TRI | SIN | | 6S8S+, 2C22$ | |
| 2S49D * | TRI | SIN | II | | |
| 2S-156A | REG | SI | XIII | | |
| 2S-168A | REG | SI | XIII | | |
| 2S920A(P) | REG | SI | XIII | | |
| 2S930A(P) | REG | SI | XIII | | |
| 2S950A(P) | REG | SI | XIII | | |
| 2S980A(P) | REG | SI | XIII | | |
| 2T301 | | | | KT301+ | |
| 2T301A | | | | KT301A+ | |
| 2T301B | | | | KT301B+ | |
| 2T301D | | | | KT301D+ | |
| 2T301G | | | | KT301G+ | |
| 2T301V | | | | KT301V+ | |
| 2T301YE | | | | KT301YE+ | |
| 2T301ZH | | | | KT301ZH+ | |
| 2TK041 | | | XA | | |
| 2TK171 | | | XA | | |
| 2TK181 | | | XA | | |
| 2TM-20 | TRI | TWN | III | | |
| 2TM-100 | TRI | TWN | III | | |
| 2TR071 | | | XA | | |
| 2TR072 | | | XA | | |
| 2TR073 | | | XA | | |
| 2TR111 | NOR | | XA | | |
| 2TR112 | NOR | | XA | | |
| 2TR113 | NOR | | XA | | |
| 2TR114 | NOR | | XA | | |
| 2TR115 | NOR | | XA | | |
| 2TR116 | NOR | | XA | | |
| 2TR171 | | | XA | | |
| 2TR172 | | | XA | | |
| 2TR211 | FLP | | XA | | |
| 2TR231 | | | XA | | |
| 2TS2S * | DIO | SIN | II | 2X2$ | 8527-65 |
| 2U-101A | SCR | | | KU101A+ | |
| 2U-101B | SCR | | | KU101B+ | |
| 2U-101D | SCR | | | | |
| 2U-101G | SCR | | | KU101G+ | |
| 2U-101V | SCR | | | | |
| 2U-101YE | SCR | | | KU101YE+ | |
| 2UI021 | AMP | | XA | | |
| 2UI071 | AMP | | XA | | |
| 2UI111 | AMP | | XA | | |
| 2UI151 | AMP | | XA | | |
| 2UI181 | AMP | | XA | | |
| 2UI182 | AMP | | XA | | |
| 2UI183 | AMP | | XA | | |
| 2US181 | AMP | | XA | | |
| 2US191A | AMP | | XA | | |
| 2US191B | AMP | | XA | | |
| 2US192 | AMP | | XA | | |
| 2US193 | AMP | | XA | | |
| 2US194 | AMP | | XA | | |
| 2US201 | AMP | | XA | | |
| 2US202 | | | XA | | |
| 2US281 | AMP | | XA | | |
| 2US282 | AMP | | XA | | |
| 2US283 | AMP | | XA | | |
| 2US284 | AMP | | XA | | |
| 2US285 | AMP | | XA | | |
| 2UYE181 | AMP | | XA | | |
| 2V6 | DIO | ARC | IV | | |
| 2V12 | DIO | ARC | IV | | |
| 2V20 | DIO | ARC | IV | | |
| 2VD8 | DIO | SIN | II | | |
| 2VN12 | DIO | ARC | IV | | |
| 2VN20 | DIO | ARC | IV | | |
| 2ZH1M | PND | SIN | II | S8245+ | |
| 2ZH2B | PND | SIN | | | |
| 2ZH2M | PND | SIN | II | | |
| 2ZH4 | PND | SIN | II | S0257+ | |
| 2ZH148* | PND | SIN | II | | |
| 2ZH158* | PND | SIN | II | | |
| 2ZH27 | PND | SIN | | 2ZH27L+ | |
| 2ZH27L* | PND | SIN | II | 2ZH27+ | |
| 2ZH27P* | PND | SIN | II | | |
| 2ZH28L | PND | SIN | II | | |
| D3A | DET | | XIV | | |
| D38 | DET | | XIV | | |
| DG-S3 | MIX | | XIV | | |
| DG-TS3 | REC | | XI | | |
| DK-S3 | MIX | | XIV | | |
| DK-V3 * | DET | | XIV | | |
| DL-S3 | MIX | | | | |
| EM-3 | TET | SIN | II | | |
| F-3 * | PHO | | XVI | | |
| FD-3 | PHC | | XV | | |
| FEU-38 | PHM | | XVI | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| FEU-3M | | PHM | | XVI | | |
| FEU-R3 | | PHM | | XVI | | |
| FS-3A | | PHC | | XV | | |
| FS-K3 | | PHC | | XV | | |
| GI-3 | | TRI | SIN | III | 2C26A$ | |
| GI-3/100 | | TRI | SIN | | GI-3+ | |
| GK3A | | TRI | SIN | III | | |
| GM3P | | TRI | SIN | III | | |
| GMI-3 | | TET | SIN | III | | |
| GS-3B | | TET | SIN | III | | |
| GU-3 | | BEA | SIN | III | | |
| GUZH-3 | | BEA | SIN | | G1625+, 1625$ | |
| KF-3 | | BEA | SIN | | GU-13+, 813$ | |
| KZH-3 | | BEA | SIN | | G-1625+, 1625$ | |
| LI-3 | | IC | | VIII | | |
| LIM-3 | | LAM | | XXIV | | |
| MD3 | * | | | XI | | |
| MS3 | | TRI | SIN | | GM57+, UB180=, M457+ | |
| OG-3 | * | DEC | | XXIII | | |
| P3A | | | | X | | |
| P3B | | | | X | | |
| P3V | | | | X | | |
| PIM-3 | | IC | | VIII | | |
| PT-3 | | TRI | THY | | TG-235*+ | |
| R-3 | | | | XXII | | |
| RB-3 | | | | XXII | | 15630-70 |
| S3A | | | | X | | |
| S3B | | | | X | | |
| S3D | | | | X | | |
| S3G | | | | X | | |
| S3V | | | | X | | |
| S3YE | | | | X | | |
| SBT-3 | | COU | | XXI | | |
| SF3-1 | | | | XV | | |
| SF-3-5 | * | CDS | | XV | | |
| SF-3-8 | * | | | XV | | |
| SG3P | | REG | | V | | |
| SG3S | | DIO | SIN | V | 0C3$ | |
| SI-3B | | COU | | | MST-18+ | |
| SI-3BG | | COU | | XXI | | |
| SNM-3 | | COU | | XXI | | |
| ST3P | | DIO | SIN | VI | | |
| ST3-17 | | TMS | MEA | X1X | | |
| ST3-18 | | | | XIX | | |
| ST3-19 | | TMS | MEA | XIX | | |
| ST-3-21 | | | | X1X | | |
| ST-3-22 | | | | XIX | | |
| ST3-23 | | TMS | COM | XIX | | |
| ST-3-24 | | | | X1X | | |
| ST3-25 | | TMS | MEA | XIX | | |
| ST-3-26 | | | | X1X | | |
| STS-3 | | COU | | XXI | | |
| STSV-3 | * | PHO | | XVI | | |
| TG3-0.1/1.3 | | TET | THY | VII | 2D21$ | 13875-68 |
| TG3-2.5/10 | | TRI | THY | VII | | |
| TKH3B | | TET | THY | VII | | |
| TKI-3 | | TMS | MEA | XIX | | |
| TO-3 | | PND | SIN | | 7ZH12S+ | |
| TSG-3 | * | PHO | | XVI | | |
| TSV-3 | | PHO | | XVI | | |
| TVB-3 | | THM | | XVIII | | |
| VDI-3D | | DIO | SIN | | VI-1-30/25+ | |
| VT-3 | | TRI | THY | | TR1-5/2*+ | |
| 3A4S | | PND | SIN | II | | |
| 3B4S | | BEA | SIN | II | | |
| 3D6A-V* | | DIO | SIN | II | | |
| 3E29 | | BEA | TWN | | GI-30+, 3E29$ | |
| 3I-301A | | TUN | | | AI301A | |
| 3I-301B | | TUN | | | AI301B | |
| 3I-301G | | TUN | | | AI301G | |
| 3I-301V | | TUN | | | AI301V | |
| 3J21 | | MAG | | IX | | |
| 3LK1B | * | TV | | VIII | | |
| 3L01-I* | | | | VIII | | |
| 3S1 | | TRI | SIN | II | TO-141+ | |
| 3S2 | | TRI | SIN | II | TO-142+ | |
| 3S6B-V* | | TRI | SIN | II | | |
| 3S7B-V* | | TRI | SIN | II | | |
| 3S9 | | TRI | SIN | II | | |
| 3TS16S* | | DIO | | II | 3A3$, 3B2$ | |
| 3TS18P* | | DIO | SIN | II | | 10372-67 |
| 3TS22S* | | DIO | SIN | II | GY501= | |
| 3V30 | | DIO | ARC | IV | | |
| 3VN30 | | DIO | ARC | IV | | |
| 3VN60 | | DIO | ARC | IV | | |
| 3VN100 | | DIO | ARC | IV | | |
| 3VP1 | | OS | | | 8L029+, 3BP1A$ | |
| 3ZH1BV* | | PND | SIN | II | | |
| 3ZH2BV* | | PND | SIN | II | | |
| DG-S4 | | MIX | | XIV | | |
| DG-TS4 | | REC | | XI | D2YE*+ | |
| DK-S4 | | MIX | | XIV | | |
| DK-V4 | * | DET | | XIV | | |
| DL-S4 | | MIX | | | | |
| EM-4 | * | TRI | SIN | II | 1E3P+ | |
| F-4 | * | PHO | | XVI | | |
| FEU-4 | * | PHM | | XVI | | |
| FS-A4 | | PHC | | XV | | |
| FS-K4 | | PHC | | XV | | |
| GI-4A | | TRI | SIN | III | | |
| GKV-4 | | TRI | SIN | | GU-4+ | |
| GMI-4B | | TET | SIN | III | | |
| GS-4 | | TRI | SIN | III | | |
| GS-4 | | COU | | XXI | | |
| GS-4B | | TRI | SIN | | G431A+ | |
| GS4D | | TRI | SIN | III | | |
| GU4 | | TRI | SIN | III | | |
| GU4A | | TRI | SIN | III | | |
| IN-4 | * | | | XXIII-A | | |
| KMT-4 | * | TMS | | XIX | | 10688-63 |
| KS-4 | | TRI | SIN | | GU-150+ | |
| LIM-4 | | LAM | | XXIV | | |
| LN-4 | * | ST | | VIII | | |
| LP-4 | * | COM | | VII | | |
| MMT-4 | * | TMS | | XIX | | 10688-63 |
| MS-4 | | COU | | XXI | | |
| MSTR-4 | | COU | | XXI | | |
| MTI-4 | | TRI | THY | | TGI-1-90/8+ | |
| OG-4 | | DEC | | XXIII | | |
| P4 | | | | | 2N68$ | |
| P4AE | * | | | X | | |
| P4BE | * | | | X | | |
| P4DE | * | | | X | | |
| P4GE | * | | | X | | |
| P4L | | | | X | | |
| P4VE | * | | | X | | |
| PIM-4 | | IC | | VIII | | |
| R-4 | | | | XXII | | |
| S 4A | | | | X | | |
| S4B | | | | X | | |
| S4G | | | | X | | |
| S4V | | | | X | | |
| SBS-4 | | COU | | XXI | | |
| SF-4-1 | | PHC | | XV | | |
| SG4S | | DIO | SIN | V | 0D3$ | |
| SI-4BG | | COU | | XXI | | |
| SI-4G | | COU | | | VS-9T+ | |
| ST-4-15 | | TMS | | XIX | | |
| STSV-4 | * | PHO | | XVI | | |
| TGI-4 | | TRI | THY | | TGI-1-130/10+ | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| TKH-48 | | TET | THY | VII | | |
| T0-4 | | PND | SIN | | 7P12S+ | |
| TSG-4 | * | PHO | | XVI | | |
| TSV-4 | | PHO | | XVI | | |
| TV-4 | | THM | | XVIII | | |
| TVB-4 | | THM | | XVIII | | |
| VDI-4D | | DIO | SIN | | VI-1-70/32+ | |
| VS-4 | | COU | | XXI | | |
| 4D2 | | DIO | SIN | | 4TS6S+ | |
| 4D5S | | DIO | SIN | II | | |
| 4D17P | | DIO | SIN | II | | |
| 4E1 | | TET | SIN | II | | |
| 4E2 | | TET | SIN | II | | |
| 4E3 | | TET | SIN | II | | |
| 4F6S | | 8EA | SIN | II | | |
| 4J26-30 | | MAG | | IX | | |
| 4J45 | | MAG | | IX | | |
| 4J50 | | MAG | | IX | | |
| 4N1 | | TRI | DUO | II | SB259+, S0259+ | |
| 4P1 | | PND | SIN | II | | |
| 4P1L | * | PND | SIN | II | | |
| 4P2 | | PND | SIN | | | |
| 4P6L | | PND | SIN | | | |
| 4P10S | | PND | SIN | II | | |
| 4S1 | | TRI | SIN | II | UB107+ | |
| 4S2 | | TRI | SIN | II | U8110+ | |
| 4S3 | | TRI | SIN | II | | |
| 4S3S | | TRI | SIN | II | | |
| 4S4 | | TRI | SIN | II | | |
| 4S5 | | TRI | SIN | II | S0-185+ | |
| 4TS1M | | DIO | SIN | | 4TS6S+ | |
| 4TS6S | * | DIO | SIN | II | | |
| 4TS14S | * | DIO | SIN | II | | |
| 4VD1 | | DIO | SIN | II | | |
| 4VKH1 | | DIO | TWN | II | V0-188*+ | |
| 4VKH2 | | DIO | SIN | II | V0-188*+ | |
| 4ZH1L | * | PND | SIN | II | | |
| 4ZH1P | | PND | SIN | II | | |
| 4ZH4 | | PND | SIN | | S0124+ | |
| 4ZH5 | | TET | SIN | II | 4ZH5S+ | |
| 4ZH5S | | PND | SIN | II | | |
| DG-TS5 | | REC | | XI | D2ZH*+ | |
| DK-S5 | | MIX | | XIV | | |
| DK-V5M | * | DET | | XIV | | |
| EM-5 | * | TET | D8A | 11 | | |
| F-5 | * | PHO | | XVI | | |
| FEU-5 | * | PHM | | XV1 | | |
| FEU-R5 | | PHM | | XVI | | |
| FS-K5 | | PHC | | XV | | |
| G-5 | | TRI | SIN | | M39+ | |
| G-5A | | TRI | SIN | | GU5A+ | |
| G-5RA | | TRI | SIN | | GU-58+ | |
| GI-5B | | TRI | SIN | III | | |
| GK5A | | TRI | SIN | III | | |
| GMI-5 | | TET | SIN | III | | |
| GP-5 | * | TRI | SIN | II | | |
| GS-5B | | TRI | SIN | | G433A+ | |
| GSH-5 | | NOI | | IX | | |
| GU5A | | TRI | SIN | III | | 12402-66 |
| GU58 | | TRI | SIN | III | | 12403-66 |
| GU0-5 | | TRI | SIN | | G120+ | |
| LP-5 | * | COM | | VII | | |
| MMT-5 | | TMS | MEA | XIX | | |
| MTI-5 | | TRI | THY | | TGI-1-32516+ | |
| OG-5 | | DEC | | XXIII | | |
| P5A | | | | X | | |
| P5B | | | | X | 2N107$ | |
| P5D | | | | X | CK727$ | |
| P5G | | | | X | 2N65$ | |
| P5V | | | | X | | |
| P5YE | | | | X | | |
| R-5 | * | | | XXII | | 15632-70 |
| R8-5 | * | | | XXII | | 15631-70 |
| R8-5A | | | | XXII | | |
| SBS-5 | | COU | | XXI | | |
| SG58 | | DIO | SIN | V | | |
| SG58-V | | REG | | | SG5B+ | |
| SGS-5 | | COU | | XXI | | |
| SNM-5 | | COU | | XXI | | |
| STS-5 | | COU | | XXI | | |
| TKH-5A | | TRI | THY | VII | | |
| TKH-5B | | TRI | THY | VII | | |
| TV-5 | | THM | | XVIII | | |
| TVB-5 | | THM | | XVIII | | |
| UV-5 | | TWT | | IX | | |
| VG-5 | | POW | | XII | | |
| 5L01B | | OS | | | 5L038+, 2AP1$ | |
| 5L038I | * | OS | | VIII | 2AP1$ | |
| 5SR1 | | OS | | | 5CP1A$ | |
| 5SR7 | | OS | | | 5CP7A$ | |
| 5TS3S | * | DWD | SIN | II | 5U4G$ | 8360-66 |
| 5TS4 | | DIO | DUO | | 5TS4S+, 5Z4G$ | |
| 5TS4M | * | DIO | DUO | II | 5Z4$ | |
| 5TS4S | * | DIO | DUO | II | 5Z4$ | 8079-67 |
| 5TS8S | * | DWD | SIN | II | | 8361-66 |
| 5TS9S | * | DWD | SIN | II | 1502+ | 8362-66 |
| 5TS9SE | | DWD | SIN | II | | |
| 5TS12P | * | DIO | SIN | II | | |
| 5VKH1 | | DWD | SIN | | 5Z4G$ | |
| 5VKH2 | | DWD | SIN | II | 5U4G$ | |
| 5VKH3 | | DWD | SIN | II | 5Y3G$ | |
| D6 | | REG | | XIII | | |
| DG-TS6 | | REC | | XI | D2K+ | |
| DK-V6 | | DET | | XIV | | |
| EM-6 | * | TET | DBA | 11 | | |
| F-6 | | PHO | | XVI | | |
| FS-A6 | | PHC | | XV | | |
| FS-D6 | | PHC | | XV | | |
| FS-K6 | | PHC | | XV | | |
| GI-6B | | TRI | SIN | III | LD6 | |
| GK6A | | TRI | SIN | | | |
| GMI-6 | | 8EA | TWN | III | | |
| GS6 | | TRI | SIN | III | | |
| GS-6 | | COU | | XXI | | |
| GSH-6 | | NOI | | IX | | |
| LD-6 | | TRI | SIN | | GI-68+ | |
| LI-6 | | IC | | VIII | | |
| LP-6 | * | COM | | V11 | | |
| MMT-6 | | TMS | | XIX | | |
| MS-6 | | COU | | XXI | | |
| P6A | | | | X | | |
| P6B | | | | X | 0C821= | |
| P6D | | | | X | 0C812= | |
| P6G | | | | X | | |
| P6V | | | | X | 0C814= | |
| R6 | | | | XXII | | |
| SG6S | | | | II | | |
| SGS-6 | | COU | | XXI | | |
| STS-6 | | COU | | XXI | | |
| STSV-6 | | PHO | | XVI | F-4+ | |
| TKH-6G | | HEX | | VII | | |
| TP-6/2 | | REG | | XIX | | |
| TSV-6 | | PHO | | XVI | F-5+ | |
| TVB-6 | | THM | | XVIII | | |
| UV-6 | | TWT | | IX | | |
| VS-6 | | COU | | XXI | | |
| 6A1B | | PTG | SIN | | 6SA7$ | |
| 6A2P | * | PTG | SIN | II | 6BE6$, EK90= | 8354-66 |
| 6A3P | * | GTB | SIN | II | 6BN6$ | |
| 6A4P | * | PTG | D8A | II | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 6A58 | PTG | SIN | | 6L7$ | |
| 6A6A | DIO | | | | |
| 6A7 * | PTG | SIN | II | 6SA7$ | 8086-67 |
| 6A8 | PTG | SIN | II | 6A8B+, 6A8$ | 8367-67 |
| 6A8B | PTG | SIN | | 6A8$ | |
| 6A8M | PTG | SIN | | 6A8S*+ | |
| 6A10S | PTG | SIN | II | 6SA7$ | 8087-56 |
| 6A158 | PTG | SIN | | 6SA7$ | |
| 6AG7 | 8EA | SIN | | 6P9+, 6AG7$ | |
| 6AZH5 | PND | SIN | | 6AG5$ EF96= | |
| 6B1P * | PND | DIO | II | | |
| 6B2P * | PND | DIO | II | L100*+ | |
| 6B4 | TRI | SIN | | 6A3$ | |
| 688 * | PND | DWD | 11 | | |
| 6B8M | PND | DWD | | 688S+, 6B8G$ | |
| 688S | PND | DWD | II | 688G$, 6B8M* | 8369-57 |
| 68KH1 | DIO | DUO | | 6KH5S+ | |
| 6D1A | DIO | SIN | | 6D6A*, 5704$ | |
| 6D1ZH | DIO | SIN | | 6D4ZH*, 9004$ | |
| 6D3D * | DIO | SIN | II | 559$ | |
| 6D4ZH * | DIO | SIN | II | 9004$ | |
| 6D6A * | DIO | SIN | II | 5704$,*6D1A+ | |
| 6D8D * | DIO | SIN | II | | |
| 6D10D * | DIO | | II | | |
| 6D13D * | DIO | SIN | II | | |
| 6D14P * | DIO | SIN | II | | |
| 6D15D | DIO | SIN | II | | |
| 6D16D | DIO | SIN | II | | |
| 6D20P * | DIO | SIN | II | EY88=,6AL3$ | 13848-68 |
| 6D22S | DIO | SIN | 11 | | |
| 6E5P * | TET | SIN | II | | |
| 6E6P * | TET | SIN | II | | |
| 6E6P-YE* | BEA | SIN | II | E7119+ | 14206-69 |
| 6E7P * | TET | SIN | II | | |
| 6E12N * | TET | SIN | II | 7587$ | |
| 6E13N * | TET | SIN | II | | |
| 6E14N * | TET | SIN | II | | |
| 6F1P * | PND | TRI | II | EF80=,6U,;8L8$ | 12399-66 |
| 6F3P * | TRI | PND | II | 6BM8$ | 13394-67 |
| 6F4P * | PND | TRI | II | 6DX8$ | 14608-69 |
| 6F5 | TRI | SIN | | 6S48+, 6F5$ | |
| 6F5B | TRI | SIN | | 6S48+, 6F5$ | |
| 6F5M | TRI | SIN | II | 6F5GT$, 6S4+ | 8372-57 |
| 6F5P * | TRI | PND | II | 6GV8$ | |
| 6F5S | TRI | SIN | II | | |
| 6F6 | PND | SIN | | 6P68+, 6F6$ | |
| 6F6M1 | PND | SIN | II | | |
| 6F6S | PND | SIN | II | 6F6-GT$ | 8082-67 |
| 6F7 | PND | TRI | II | | |
| 6F9P * | PND | TRI | II | | |
| 6F12P | PND | TRI | 11 | | |
| 6G1 * | TRI | DWD | II | 6SR7$ | |
| 6G3P | TRD | TRI | II | | |
| 6G3S | TRI | DWD | | 6AK5$ | |
| 6G7 * | TRI | DWD | II | 6Q7= | 8371-65 |
| 6I1P * | PTG | TRI | II | ECH81=, 6AJ8$ | 9948-66 |
| 6I3P | PTG | TRI | II | | |
| 6I4P | PTG | TRI | | 6V9$,ECH200= | |
| 6I14P | PTG | TRI | II | ECH81=,6I1P+ | |
| 6K1B * | PND | SIN | II | 5702$ | |
| 6K1L | PND | SIN | II | | |
| 6K1P * | PND | SIN | II | 9003$ | |
| 6K1ZH * | PND | SIN | II | 956$ | |
| 6K2P | PND | SIN | | 6K4P+ | |
| 6K3 * | PND | SIN | II | 6SK7$ | 8084-67 |
| 6K4 * | PND | SIN | II | 6SG7$ | 8083-67 |
| 6K4P * | PND | SIN | II | EF93=, 68A6$ | 8352-66 |
| 6K6A * | PND | SIN | II | | |
| 6K7 | PND | SIN | II | 6K7S*, 6K7G$, 6K9S+ | 8363-66 |
| 6K7S | PND | SIN | | 6K9S+, 6K7G$, 6K7 | |
| 6K88 | PND | SIN | II | | |
| 6K8P | PND | SIN | II | 6ES6$ | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 6K9S | PND | SIN | II | 6K7G$, 6SK7$ | |
| 6K118-K | PND | SIN | II | 6K18+ | |
| 6K12 | PND | SIN | | 6EH7$ | |
| 6K13P * | PND | SIN | II | 6EH7$,EF183= | |
| 6K148 | PND | SIN | II | | |
| 6K148-V | PND | SIN | II | | |
| 6K158 | PND | SIN | | 6AB7$ | |
| 6K178 | PND | SIN | | 6SK7$ | |
| 6K198 | PND | SIN | | 9003$ | |
| 6K19P | PND | SIN | | 6K1P+, 9003$ | |
| 6KH1ZH | DIO | SIN | | 6D4ZH+, 9004$ | |
| 6KH2P * | DIO | TWN | II | EAA91=,6AL5$ | 8348-66 |
| 6KH4P | DWD | SIN | | 6TS4P+ | |
| 6KH5 | DWD | SIN | | 6VKH1+, 6X5GT$ | |
| 6KH5S | DWD | SIN | | 6VKH1+, 6X5GT$ | |
| 6KH6 | DIO | TWN | | 6KH6B+, 6H6$ | |
| 6KH68 | DIO | TWN | II | 6H6-G$ | |
| 6KH6M | DIO | TWN | | 6KH6S+, 6H6G$ | |
| 6KH6S * | DIO | TWN | II | 6H6-G$ | 8080-67 |
| 6KH78 * | DIO | TWN | II | | |
| 6L1P * | HPT | SIN | II | | |
| 6L7 | PTG | SIN | II | 6L7$ | |
| 6LK1A | ELM | | VIII | | |
| 6LK18 * | ELM | . | VIII | | |
| 6L01I * | ELS | | VIII | | |
| 6N1P * | TRI | TWN | II | 68K7$ | 8355-66 |
| 6N2P * | TRI | TWN | II | ECC83=, 6AX7$ | 8356-66 |
| 6N3P * | TRI | TWN | II | ECH42=, 2C51$ | 8357-66 |
| 6N4P | TRI | TWN | II | 12AY7$ | |
| 6N5P * | TRI | TWN | II | | 13892-6 |
| 6N5S * | TRI | TWN | II | 6AS7G$ | |
| 6N6 | DIO | TWN | | 6KH68+, 6H6$ | |
| 6N6P * | TRI | TWN | II | | |
| 6N7 | TRI | TWN | II | 6N7$, 6N7S+ | |
| 6N7S * | TRI | TWN | II | 6N7-GT$ | 8374-66 |
| 6N8 | TRI | TWN | | 6N8S+, 6SN7GT$ | |
| 6N8M | TRI | TWN | | 6N8S+, 6SN7GT$ | |
| 6N8S * | TRI | TWN | II | 6SN7-GT$ | |
| 6N9 | TRI | TWN | | 6N9S+, 6SL7GT$ | |
| 6N9M | TRI | TWN | | 6N9S+, 6SL7GT$ | |
| 6N9S * | TRI | TWN | II | 6SL7GT$ | |
| 6N10 | TRI | TWN | | 6N10S+, 6SC7GT$ | |
| 6N10M | TRI | TWN | | 6N10S+, 6SC7GT$ | |
| 6N10S | TRI | TWN | II | 6SC7GT$ | |
| 6N11 | TRI | TWN | | 6N5S+, 6AS7G$ | |
| 6N12S * | TRI | TWN | II | 6DN7$, 5687$ | |
| 6N13S * | TRI | TWN | II | 6080$, 6AS7$ | 8378-66 |
| 6N14P * | TRI | TWN | II | ECC84=,6CW7$ | 10880-66 |
| 6N15 | TRI | TWN | II | 6J6$, 6N15P+ | |
| 6N15P * | TRI | TWN | II | 6J6$, ECC91= | |
| 6N168 * | TRI | TWN | II | | |
| 6N17B * | TRI | TWN | II | | |
| 6N188 * | TRI | TWN | II | | |
| 6N19P * | TTR | DWD | II | | |
| 6N21B * | TRI | TWN | II | | |
| 6N23P * | TRI | TWN | II | ECC88=,6DJ8$ | 15078-69 |
| 6N24P * | TRI | DUO | II | ECC89=,6FC7$ | 15531-70 |
| 6N25G * | TET | TWN | II | | |
| 6N26P * | TRI | TWN | II | | |
| 6N27P * | TRI | TWN | II | ECC86=,6GM8$ | |
| 6N288 | TRI | TWN | II | | |
| 6N28B-V | TRI | TWN | II | | |
| 6P1P * | BEA | SIN | II | EL90=, 6AQ5$ | 8358-66 |
| 6P2 | 8EA | SIN | | 6P6S+, 6V6GT$ | |
| 6P2P | PND | SIN | II | | |
| 6P3 | 8EA | SIN | | 6P3S+, 6L6G$ | |
| 6P3B | BEA | SIN | | 6P3S+, 6L6G$ | |
| 6P3S * | 8EA | SIN | II | 6L6G$ | 8376-66 |
| 6P3S-YE | 8EA | SIN | | 6P3S,E7121+ | |
| 6P4 | PND | SIN | II | 6G6G$ | |

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| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 6P6 | 8EA | SIN | | 6P6S+, 6V6GT$ | |
| 6P68 | PND | SIN | II | 6F6$ | |
| 6P6P | 8EA | SIN | | | |
| 6P6S * | 8EA | SIN | II | 6V6-GT$ | 8375-66 |
| 6P7 | 8EA | SIN | | 6P7S*+, 68G6GA$ | |
| 6P7S * | BEA | SIN | II | 6P7*+, 68G6GA$ | |
| 6P8P | TRI | SIN | | 6S1P+, 9002$ | |
| 6P8S | PND | SIN | II | 6G6G$ | |
| 6P9 * | 8EA | SIN | II | 6AG7$ | 8377-66 |
| 6P9E | 8EA | SIN | II | 6AK7$ | |
| 6P13S * | 8EA | SIN | II | | |
| 6P14P * | 8EA | SIN | II | EL84=, 6BQ5$ | 10066-66 |
| + 6P15P * | 8EA | SIN | II | EL83=,6CK6$ | 10879-66 |
| 6P17S | BEA | SIN | II | 6DY5$ | |
| 6P18P * | BEA | SIN | II | 68Q6$, EL82 | |
| 6P20S * | 8EA | SIN | II | 6CB5$, 6CD6$ | |
| 6P21S * | BEA | SIN | II | | |
| 6P23S * | BEA | SIN | II | | |
| 6P25B * | PND | SIN | II | | |
| 6P27S * | BEA | SIN | II | 6CA7$ | |
| 6P30B * | PND | SIN | II | | |
| 6P31S * | BEA | SIN | II | EL36=,6CM5 | |
| 6P33P * | PND | SIN | II | 6CW5$,EL86 | |
| 6P34S * | PND | SIN | II | | |
| 6P35GV* | PND | SIN | II | | |
| 6P36S * | BEA | SIN | II | 6GB5$ | 13883-68 |
| 6P37N * | PND | SIN | 11 | | |
| 6P38P * | PND | SIN | II | | |
| 6P39S * | PND | SIN | II | E55L=,8233$ | |
| 6P41S * | 8EA | SIN | II | | |
| 6P42S * | BEA | SIN | 11 | | |
| 6R18 | TRI | DWD | | 6G1+, 6SR7$ | |
| 6R2P | 8EA | DUO | II | | |
| 6R3S | 8EA | DUO | II | | |
| 6R7 | TRI | DWD | | 6G7+, 6Q7$ | |
| 6R7B | TRI | DWD | | 6G7+, 6Q7$ | |
| 6R17B | TRI | DWD | | 6G2+, 6SQ7$ | |
| 6S1B | TRI | SIN | | 6S6B+, 5703$ | |
| 6S1P * | TRI | SIN | II | 9002$ | |
| 6S1ZH * | TRI | SIN | II | 4671$, 955$ | |
| 6S2 | TRI | SIN | | 6J5-GT$ | |
| 6S2B * | TRI | SIN | II | 6S78+, 5744$ | |
| 6S2P * | TRI | SIN | II | 6J4$ | 8353-67 |
| 6S2S * | TRI | SIN | II | 6J5-GT$ | 8081-67 |
| 6S38 * | TRI | SIN | II | 6K4A$ | |
| 6S3P * | TRI | SIN | II | | |
| 6S4 | TRI | SIN | | 6F5$ | |
| 6S4B | TRI | SIN | II | 6F5$ | |
| 6S4P * | TRI | SIN | II | 6B4$ | |
| 6S4S * | TRI | SIN | II | 6B4-G$ | 8373-66 |
| 6S5 | TRI | SIN | II | 6S5S+, 6C5GT$, 6J5GT$ | |
| 6S5B | TRI | SIN | | 6C5-GT$ | |
| 6S5D * | TRI | SIN | II | TM1*+, 2C40$ | |
| 6S5S * | TRI | SIN | II | 6C5-GT$, 6J5GT, 6S5$ | 8368-57 |
| 6S6B * | TRI | SIN | II | 5703$ | |
| 6S7B * | TRI | SIN | II | 5744$ | |
| 6S8P * | TRI | SIN | | 6S1P+, 9002$ | |
| 6S8S * | TRI | SIN | II | 2C22$ | |
| 6S9D * | TRI | SIN | II | | |
| 6S10D | TRI | SIN | II | | |
| 6S11D | TRI | SIN | II | | |
| 6S13D * | TRI | SIN | II | | |
| 6S15P * | TRI | SIN | II | | |
| 6S16D * | TRI | SIN | II | | |
| 6S17K * | TRI | SIN | II | | |
| 6S18S * | TRI | SIN | II | | |
| 6S19P * | TRI | SIN | II | | 12841-67 |
| 6S20S * | TRI | SIN | II | 68D4$ | |
| 6S21D * | TRI | SIN | II | | |
| 6S258 | TRI | SIN | II | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 6S26B * | TRI | SIN | II | 6S68+ | |
| 6S278 * | TRI | SIN | II | 6S78+ | |
| 6S28B-V* | TRI | SIN | II | | |
| 6S298-V* | TRI | SIN | II | | |
| 6S308 | TRI | SIN | II | | |
| 6S31B * | TRI | SIN | II | | |
| 6S328 * | TRI | SIN | II | | |
| 6S33B * | TRI | SIN | II | | |
| 6S33S * | TRI | SIN | II | | |
| 6S34A-V* | TRI | SIN | II | | |
| 6S35A-V* | TRI | SIN | II | | |
| 6S36K * | TRI | SIN | II | | |
| 6S37B * | TRI | SIN | II | | |
| 6S39S | TRI | SIN | II | | |
| 6S40P * | TRI | SIN | II | | |
| 6S41S * | TRI | SIN | 11 | | |
| 6S44D * | TRI | SIN | II | | |
| 6S45K | TRI | SIN | II | | |
| 6S45P-YE | TRI | SIN | 11 | | |
| 6S46G * | TRI | SIN | II | | |
| 6S47S * | TRI | SIN | II | | |
| 6S48D | TRI | SIN | 11 | | |
| 6S50D * | TRI | SIN | 11 | | |
| 6S51N * | TRI | SIN | II | 7586$ | |
| 6S52N * | TRI | SIN | II | 7895$,6CW4$ | |
| 6S53N * | TRI | SIN | II | 8058$ | |
| 6S56P * | TRI | SIN | II | | |
| 6S58P * | TRI | SIN | II | | |
| 6S59P * | TRI | SIN | II | | |
| 6S62N * | TRI | SIN | II | | |
| 6SK7 | PND | TRI | II | | |
| 6TS4P * | DWD | SIN | II | 6X4$ | 8347-66 |
| 6TS4S | DIO | SIN | II | | |
| 6TS5S * | DWD | SIN | II | 6X5GT$ | 8528-66 |
| 6TS10P* | DIO | SIN | II | 683$ | |
| 6TS13P* | DIO | SIN | II | | |
| 6TS15S | DIO | TWN | II | | |
| 6TS17S* | DIO | SIN | II | 68L4$,6X5$,6AU4$ | |
| 6TS19P* | DIO | SIN | II | | |
| 6V1P * | PND | SIN | II | | |
| 6V2P * | PND | SIN | II | | |
| 6V3S | PND | SIN | II | | |
| 6VKH1 | DWD | SIN | II | | |
| 6YE1P * | TRI | SIN | II | EM80=, 68R5$ | 10881-66 |
| 6YE2P | TRI | SIN | II | | |
| 6YE3P | TRI | SIN | II | EM84=,6FG6$ | |
| 6YE5 | TRI | SIN | | 6YE5S+ | |
| 6YE5S * | TRI | SIN | II | 6YE5*, 6E5$ | 8379-66 |
| 6ZH18 * | PND | SIN | II | 5702$ | |
| 6ZH1L | PND | SIN | II | | |
| 6ZH1P * | PND | SIN | II | 6AK5$,EF95= | 8349-66 |
| 6ZH1P-E | PND | SIN | | 6ZH1P,E7112+,5654$ | |
| 6ZH1ZH* | PND | SIN | II | 954$ | |
| 6ZH28 * | PND | SIN | II | 5784$, 5639$ | |
| 6ZH2M | PND | SIN | II | 1851$ | |
| 6ZH2P * | PND | SIN | II | 6ZH2P-E, E7113+, 6AS6$ | 11317-65 |
| 6ZH2P-E | PND | SIN | | 6ZH2P,E7113+,5725$ | |
| 6ZH3 * | PND | SIN | II | 6SH7$ | 8085-67 |
| 6ZH3M | PND | SIN | II | 6A87/1853$ | |
| 6ZH3P * | PND | SIN | II | 6AG5$, EF96= | 8350-66 |
| 6ZH4 * | PND | SIN | II | 6AC7$, 6A87$ | 8364-66 |
| 6ZH48 | PND | SIN | | 6AG7$ | |
| 6ZH4E | PND | SIN | II | 6A87$, 6AC7$ | |
| 6ZH4P * | PND | SIN | II | 6AU6$, EF94= | 12398-66 |
| 6ZH5 | TRI | SIN | | 6J5$ | |
| 6ZH5A | PND | SIN | II | | |
| 6ZH5B * | PND | SIN | II | | |
| 6ZH5P * | BEA | SIN | II | 6AH6$ | 8351-66 |
| 6ZH6M | PND | SIN | | 6J7$ | |
| 6ZH6P | PND | SIN | | 6J7$ | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 6ZH6S * | PND | SIN | II | Z62= | |
| 6ZH7 * | PND | SIN | II | 6J7 | 8365-66 |
| 6ZH78 | PND | SIN | | 6W7G$ | |
| 6ZH8 * | PND | SIN | II | 6SJ7$ | 8366-67 |
| 6ZH8S | PND | SIN | II | | |
| 6ZH98 | PND | SIN | II | | |
| 6ZH9G * | PND | SIN | 11 | | |
| 6ZH9P * | PND | SIN | II | E180F=,6688$ | 11702-66 |
| 6ZH9P-E | PND | SIN | | 6ZH9P,E7114+ | |
| 6ZH108* | PND | SIN | II | | |
| 6ZH10P* | PND | SIN | II | | 12842-67 |
| 6ZH11B | PND | SIN | | 6SH7$ | |
| 6ZH11P* | PND | SIN | II | 68Q5$ | |
| 6ZH11P-E | PND | SIN | | 6ZH11P+, E7115+ | |
| 6ZH128 | PND | SIN | | 6SG7$ | |
| 6ZH13 | PND | SIN | | 6ZH13L+ | |
| 6ZH13L* | PND | SIN | II | 6ZH13 | |
| 6ZH20P* | 8EA | DIO | II | | |
| 6ZH21P* | 8EA | DIO | II | | |
| 6ZH22P* | DIO | 8EA | II | | |
| 6ZH23P* | PND | | II | | |
| 6ZH318K* | PND | SIN | II | EF95= | |
| 6ZH328* | PND | SIN | II | | |
| 6ZH32P* | PND | SIN | II | EF96=,6267$ | 14072-68 |
| 6ZH33AV* | PND | SIN | II | | |
| 6ZH358V* | PND | SIN | II | | |
| 6ZH38P* | PND | SIN | II | EF184=,6EJ7$ | 14207-69 |
| 6ZH39G-V | PND | SIN | 11 | | |
| 6ZH40P | PND | SIN | II | 6ET6$ | |
| 6ZH43P | PND | SIN | II | | |
| 6ZH44P | PND | SCG | 11 | | |
| 6ZH458V | PND | SIN | II | | |
| 6ZH468YE | PND | SIN | II | | |
| 6ZH49P | PND | SIN | 11 | | |
| 6ZH50P* | PND | SIN | II | | |
| 6ZH51P* | PND | SIN | II | | |
| 6ZH52P* | PND | SIN | 11 | | |
| 6ZH53P* | PND | SIN | 11 | | |
| D7 | REG | | XIII | | |
| D7A * | REC | | XI | DG-TS21*+ | |
| D78 * | REC | | XI | DG-TS22*+ | |
| D7D * | REC | | XI | DG-TS25*+ | |
| D7G * | REC | | XI | DG-TS24*+ | |
| D7V * | REC | | XI | DG-TS23*+ | |
| D7YE * | REC | | XI | DGTS26 | |
| D7ZH * | REC | | XI | DG-TS27*+ | |
| DG-TS7 | REC | | XI | D2M+ | |
| DK-S7 | MIX | | XIV | | |
| DK-S7M * | MIX | | XIV | | |
| DK-V7M * | DET | | XIV | | |
| EM-7 * | TRI | SIN | II | | |
| F-7 * | PHO | | XV1 | | |
| FS-K7 | PHC | | XV | | |
| FSK-7A | PHC | | XV | | |
| FSK-78 | PHC | | XV | | |
| FSK-G7 | PHC | | XV | | |
| GI-78 | TRI | SIN | III | LD7 | |
| GMI-7 | TET | SIN | III | | |
| GS-7 | COU | | XXI | | |
| GS-7 | TRI | SIN | | GK-3000+ | |
| GS-7A | TRI | SIN | III | | |
| GS-78 | TRI | SIN | III | | |
| KS-7 | TRI | SIN | | G-811+, 811-A$ | |
| LD-7 | TRI | SIN | | GI-78+ | |
| LI-7 * | IC | | VIII | | |
| LN-7 * | ST | | V111 | | |
| LP-7 | COM | | V11 | | |
| MS-7 | COU | | XXI | | |
| P7 | | | X | | |
| R-7 | | | XXII | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| SAT-7 | COU | | XXI | | |
| SBM-7 | COU | | XXI | | |
| S8T-7 | COU | | XXI | | |
| SG7S | DIO | SIN | V | | |
| SNM-7 | COU | | XXI | | |
| TKH-7G | | | VII | | |
| TV8-7 | THM | | XVIII | | |
| UV-7 | TWT | | IX | | |
| 7L01M * | OS | | VIII | | |
| 7L055I* | OS | | VIII | 3MP1$ | |
| 7P12S * | PND | SIN | II | 329A | |
| 7ZH12S* | PND | SIN | II | 328A$ | |
| D8 | REG | | XIII | | |
| DG-TS8 | REC | | XI | D2V+ | |
| DK-V8 | VID | SI | XIV | | |
| EM-8 * | PND | SIN | 11 | | |
| F-8 * | PHO | | XVI | | |
| FS-K8 | PHC | | XV | | |
| GI-8 | PND | SIN | III | | |
| GS-8 | COU | | XXI | | |
| GS-88 | TET | SIN | III | | |
| GU8 | TRI | SIN | III | | 7711-55 |
| IN-8 * | | | XXIII-A | | |
| IN-8-2 * | | | XXIII-A | | |
| KMT-8 * | TMS | | XIX | | 10688-63 |
| LN-8 * | ST | | V111 | | |
| MMT-8 * | TMS | | XIX | | 10688-63 |
| MS-8 | COU | | XXI | | |
| P8 | | | X | | |
| P8A | | | | P8+ | |
| R-8 | | | XXII | | |
| SAT-8 | COU | | XXI | | |
| SBM-8 | COU | | XXI | | |
| S8T-8 | COU | | XXI | | |
| SG8S | DIO | SIN | V | | |
| SNM-8 | COU | | XXI | | |
| STS-8 | COU | | XXI | | |
| T8D | TMS | | XIX | | |
| T8E | TMS | | XIX | | |
| T8M | TMS | | XIX | | |
| T8R | TMS | | XIX | | |
| T8S1 | TMS | | XIX | | |
| T8S1M | TMS | | XIX | | |
| T8S2 | TMS | | XIX | | |
| T8S2M | TMS | | XIX | | |
| T8S3 | TMS | | XIX | | |
| T8S3M | TMS | | XIX | | |
| TG8/3 | TRI | THY | | TG1-2.5/4+ | |
| TKH-8G | HEX | | VII | | |
| TV8-8 | THM | | XVIII | | |
| VS-8 | COU | | XXI | | |
| 8LK28 * | TV | | V111 | | |
| 8LM3V * | OS | | VIII | | |
| 8L02B | OS | | | 8L029+, 38P1A$ | |
| 8L03I * | OS | | V111 | | |
| 8L04I * | OS | | V111 | | |
| 8L029I* | OS | | VIII | 38P1$ | |
| 8L029M | | | | 8L029I+ | |
| 8L030I* | OS | | VIII | 3DP1$ | |
| 8L030M | | | | 8L030I+ | |
| 8L039V* | OS | | VIII | 3JP7$ | |
| D9A | REC | | XI | | |
| D98 * | REC | | XI | | 14342-69 |
| D9D * | REC | | XI | | 14342-69 |
| D9G * | REC | | XI | | 14342-69 |
| D9I * | REC | | XI | | 14342-69 |
| D9K * | REC | | XI | | 14342-69 |
| D9L * | REC | | XI | | 14342-69 |
| D9M | GEP | | XI | | |
| D9V * | REC | | XI | | 14342-69 |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| D9YE * | REC | | XI | | 14342-69 |
| D9ZH * | REC | | XI | | 14342-69 |
| DG-TS9 | REC | | XI | D2A+ | |
| F-9 * | PHO | | XV1 | | |
| G-9 | TRI | SIN | | GU65+ | |
| GK9P | TRI | SIN | III | | |
| GS-9 | COU | | XXI | | |
| GS9B | TRI | SIN | III | | |
| LD-9 | TRI | SIN | | GS-9B+ | |
| MMT-9 * | TMS | | XIX | | 10688-63 |
| MS-9 | COU | | XXI | | |
| P9 | | | X | 2N35$ | |
| P9A | | | X | | |
| R-9 | | | XXII | | |
| SBT-9 | COU | | XXI | | |
| SG9S | DIO | SIN | V | | |
| SI-9BG | COU | | XXI | | |
| SNM-9 | COU | | XXI | | |
| T9 | TMS | | XIX | | |
| TKH-9G | | | VII | | |
| TVB-9 | THM | | XVIII | | |
| VS-9 | COU | | XXI | | |
| VS-9T | COU | | XXI | | |
| 9L01I * | OD | | V111 | | |
| D10 * | REC | | XI | | |
| D10A * | REC | | XI | | |
| D10B * | REC | | XI | | |
| DGTS10 | REC | | XI | D2B+ | |
| F-10 * | PHO | | XV1 | | |
| G10 | TRI | SIN | III | | |
| G-10A | TRI | SIN | | GU-10A+ | |
| G-10RA | TRI | SIN | | GU-10B+ | |
| GK10P | TRI | SIN | 111 | | |
| GKO-10 | TRI | SIN | | GK-2000+ | |
| GS-10 | COU | | XXI | | |
| GSH-10 | NOI | | IX | | |
| GT-10 | TRI | SIN | | G46+ | |
| GU10A | TRI | SIN | III | | 12843-67 |
| GU10B | TRI | SIN | III | | |
| ISK10 | | | XX | | |
| ISP10 | | | XX | | |
| IST10 | | | XX | | |
| KMT-10 | TMS | | XIX | | |
| MO-10 | TRI | SIN | III | | |
| P10 | | | X | 2N35$ | |
| P10A | GAP | | X | | |
| P10B | GAP | | X | | |
| R-10 | | | XXII | | |
| SBT-10 | COU | | XXI | | |
| SG10S | REG | | V | | |
| SI-10BG | COU | | XXI | | |
| TO-10 | PND | SIN | | 10P12S | |
| VG-10 | POW | | XII | | |
| 6G2 * | TRI | DWD | II | 6SQ7$ | 8370-65 |
| 6G2P-K | TRI | DWD | II | | |
| 6G2S | TRI | DWD | | 6SQ7G$ | |
| VG-10-30 | POW | | XII | | |
| VG-10-45 | POW | | XII | | |
| VG-10-55 | POW | | XII | | |
| VG-10-80 | POW | | XII | | |
| VG-10-110 | POW | | XII | | |
| VG-10-150 | POW | | XII | | |
| VK-10 | POW | | XII | | |
| VKU-10-0.25 | SCR | SI4 | XII-A | | |
| VKU-10-0.5 | SCR | SI4 | XII-A | | |
| VKU-10-0.75 | SCR | SI4 | XII-A | | |
| VKU-10-1.0 | SCR | SI4 | XII-A | | |
| VKU-10-1.5 | SCR | SI4 | XII-A | | |
| VKU-10-2.0 | SCR | SI4 | XII-A | | |
| VKU-10-2.5 | SCR | SI4 | XII-A | | |
| VKU-10-3.0 | SCR | SI4 | XII-A | | |
| 10LK2B * | PR | | VIII | | |
| 10LK38 * | TV | | V111 | | |
| 10L02I * | OD | | V111 | | |
| 10L043I* | OD | | VIII | | |
| 10P12S * | PND | SIN | II | 312A | |
| 10ZH1L * | PND | SIN | II | 10ZH3L+ | |
| 10ZH3L * | PND | SIN | II | 10ZH1L+ | |
| 10ZH3P | PND | SIN | | | |
| 10ZH12S* | PND | SIN | II | 310A$ | |
| D11 * | REC | | XI | | |
| DK-V11 | VID | SI | XIV | | |
| FEU-11 * | PHM | | XVI | | |
| GI-11B | TRI | SIN | III | LD-11 | |
| GS-11 | COU | | XXI | | |
| GSH-11 | NOI | | IX | | |
| GU11A | TRI | SIN | III | | |
| GU11B | TRI | SIN | III | | |
| KMT-11 | TMS | | XIX | | |
| LD11 | TRI | SIN | | GI-11B+ | |
| MS-11 | COU | | XXI | | |
| P11 | | | X | 2N94$ | |
| P11A | GAP | | X | | |
| R-11 | | | XXII | | |
| SI-118G | COU | | XXI | | |
| TKH-11G | TET | | VII | | |
| VS-11 | COU | | XXI | | |
| 11LK1B * | | | VIII | | |
| 11LM2G * | DT | | V111 | | |
| 11LM3G * | DT | | V111 | | |
| D12 * | REC | | XI | | |
| D12A * | REC | | XI | | |
| DGTS12 | REC | | XI | | |
| FEU-12 | PHM | | XVI | | |
| FEU-12A * | PHM | | XVI | | |
| GI-12B | TRI | SIN | III | LD-12 | |
| GS-12 | COU | | XXI | | |
| GU12A | TRI | SIN | III | 880$ | |
| IN-12A * | | | XXIII-A | | |
| IN-128 * | | | XXIII-A | | |
| K-12 | KLO | | IX | | |
| KIU12 | KLA | | IX | | |
| KMT-12 | TMS | | XIX | | |
| LD12 | TRI | SIN | | GI-12B$ | |
| MI-12 | MAG | | IX | | |
| MMT-12 | TMS | | XIX | | |
| MS-12 | COU | | XXI | | |
| 0S12/500 * | PND | SIN | | G837= | |
| P12 | | | X | 2N112$ | |
| P12A | GAP | | X | | |
| R-12 | | | XXII | | |
| SI-12BG | COU | | XXI | | |
| TKH-12G | | | VII | | |
| 12B1M | PND | DWD | II | | |
| 12B2M | PND | DWD | II | | |
| 12G1 | TRI | DWD | II | 12SR7$ | |
| 12G2 | TRI | DWD | II | 12SQ7$ | |
| 12K1M | PND | SIN | II | | |
| 12K3 | PND | SIN | II | 12SK7$ | |
| 12K4 | PND | SIN | | 12SG7$ | |
| 12K12B | PND | SIN | | 12SG7$ | |
| 12K17B | PND | SIN | | 12SK7$ | |
| 12KH3S * | DWD | SIN | II | LG1 | |
| 12M1M | PND | TRI | II | | |
| 12N1 | TRI | TWN | | 12N11S+, 12AH7GT$ | |
| 12N4P | TRI | TWN | II | 12AY7$ | |
| 12N10 | TRI | TWN | | 12N10S+, 12SC7GT$ | |
| 12N10M | TRI | TWN | | 12N10S+, 12SC7GT$ | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 12N10S | TRI | DUO | II | 12SC7$ | |
| 12N11S | TRI | TWN | II | 12AH7CT$ | |
| 12P4S | PND | SIN | II | 12A6$ | |
| 12P14S | BEA | SIN | II | | |
| 12P17L * | PND | SIN | II | | |
| 12R1B | TRI | DWD | | 12G1+, 12SR7$ | |
| 12R17B | TRI | DWD | | 12C2+, 12SQ7$ | |
| 12S2 | TRI | SIN | II | | |
| 12S3S * | TRI | SIN | II | LD1+ | |
| 12S42S * | TRI | SIN | II | | |
| 12ZH1 | PND | SIN | | 12ZH1L+ | |
| 12ZH1L * | PND | SIN | II | 12ZH1 | |
| 12ZH1M | PND | SIN | II | | |
| 12ZH3L * | PND | SIN | II | | |
| 12ZH8 * | PND | SIN | II | 12SJ7$ | |
| 12ZH88 | PND | SIN | | 12SJ7$ | |
| 12ZH17B | PND | SIN | | 12SJ7$ | |
| D13 * | REC | | XI | | |
| DCTS13 | REC | | XI | | |
| FEU-13 * | PHM | | XVI | | |
| C-13 | TRI | SIN | III | | |
| CI-13 | TRI | SIN | III | | |
| CI-13B | TRI | SIN | III | | |
| CM13 | TET | SIN | III | | |
| CU13 | BEA | SIN | III | 813$ | |
| LI-13 * | IM | | VIII | | |
| MMT-13 * | TMS | | X1X | | 10688-63 |
| MS-13 | COU | | XXI | | |
| P13 | | | X | 2N43$ | |
| P13A | | | X | 2N34$ | |
| P13B | | | X | | |
| SG13P | DIO | SIN | V | 0A2$ | |
| SI-13C | COU | | XXI | | |
| TKH-13 | | | VII | | |
| UV-13 | TWT | | IX | | |
| V13/30 | DIO | SIN | | V0-1 | |
| VS-13 | COU | | XXI | | |
| 13LK1B * | TV | | VIII | 5FP4$ | |
| 13LK2B * | TV | | VIII | | |
| 13LK3B * | TV | | V111 | | |
| 13LK6B * | TV | | V111 | | |
| 13LK7B * | TV | | V111 | | |
| 13LK8A * | PT | | V111 | | |
| 13LM4V * | OS | | VIII | | |
| 13LM6V * | RA | | V111 | | |
| 13LM7V * | RA | | V111 | | |
| 13LM31M* | OS | | VIII | 5FP7$ | |
| 13LM31V | OS | | | 13LM31M+ | |
| 13LM56I* | OS | | VIII | 5FP1$ | |
| 13LM57 * | OS | | VIII | 5FP7$ | |
| 13LM57D | OS | | | 13LM57+ | |
| 13LM58K* | OS | | VIII | | |
| 13LN2 * | ST | | V111 | | |
| 13L01B | | | VIII | | |
| 13L028 | | | VIII | 5CP1-A*$ | |
| 13L03I * | OS | | VIII | | |
| 13L04I | OS | | VIII | | |
| 13L05P | | | VIII | 5CP7-A$ | |
| 13L06I | | | VIII | 5FP7-A$ | |
| 13L07V * | OD | | V111 | | |
| 13L09I * | OS | | V111 | | |
| 13L036 | OS | | | 5FP7$, L0736+, 13L036V+ | |
| 13L036V* | OS | | VIII | | |
| 13L037A* | OS | | VIII | 5CP7$ | |
| 13L037I | OS | | | 5CP1$, L0737+ | |
| 13L037M | OS | | | | |
| 13L048V* | OD | | VIII | L0748+ | |
| 13L048I | OD | | | 5SP1$ | |
| 13L048M | OD | | | | |
| 13L054A* | OS | | VIII | L0754 | |
| 13L054M | OS | | | | |
| 13L054V | OS | | | | |
| 13L0101M* | | | VIII | | |
| 13L0102M* | | | VIII | | |
| 13L0104A* | TV | | VIII | | |
| 13P1 | BEA | SIN | | 13P1M+, 13P1S+ | |
| 13P1M | 8EA | SIN | | 13P1+, 13P1S+ | |
| 13P1S | 8EA | SIN | II | 13P1+, 13P1M+ | |
| 13ZH41S* | PND | SIN | II | | |
| D14 * | REC | | XI | | |
| D14A * | REC | | XI | | |
| DCTS14 | REC | | XI | | |
| FEU-14 | PHM | | XVI | | |
| FEU-14A * | PHM | | XVI | | |
| CI-14B | TRI | SIN | III | LD-14 | |
| IN-14 * | | | XXIII-A | | |
| KMT-14 | TMS | | XIX | | |
| LI-14 | IM | | VIII | | |
| MI-14 | MAG | | IX | | |
| MP148 * | | | X | | |
| MS-14 | COU | | XXI | | |
| P14 | | | X | 2N65$ | |
| P14A | | | X | | |
| SC14P | REG | AH | V | | |
| TV-14 | THM | | XVIII | | |
| UV-14 | TWT | | IX | | |
| VS-14 | COU | | XXI | | |
| D15 | REC | | XI | | |
| DCTS15 | REC | | XI | D2N+ | |
| FEU-15 * | PHM | | XVI | | |
| G-15A | TRI | SIN | | CU-11A+ | |
| C-15RA | TRI | SIN | | CU-16B+ | |
| CDO-15 | TRI | SIN | | C-61+ | |
| CS-15B | TET | SIN | III | | |
| CU15 | 8EA | SIN | III | | |
| IFK15-1 | | | XX | | |
| ISSH15 | | | XX | | |
| K-15 | KLO | | IX | | |
| KIU15 | KLA | | IX | | |
| LI-15 | IM | | VIII | | |
| MI-15 | MAC | | IX | | |
| P15 | | | X | 2N43$, 0C604= | |
| P15A | CAP | | X | | |
| SG15P | DIO | SIN | V | | |
| SG15P1 | DIO | SIN | V | SC15P+ | |
| SC15P2 * | REG | | V | | 14783-6 |
| TC-15/3 | TRI | THY | | TC1-5/3+ | |
| TR-15/2 | TRI | THY | | TR-1-5/2+ | |
| TV-15 | THM | | XVIII | | |
| VC15/5000 | DIO | SIN | | CC1-0.5/5+ | |
| 15A6S | PND | SIN | II | | |
| D16 | REC | | XI | | |
| D16A | REC | | XI | | |
| DCTS16 | REC | | XI | D2P+ | |
| FEU-16 * | PHM | | XVI | | |
| GI-16B | TET | SIN | III | | |
| CU16B | TRI | SIN | III | | |
| LC-16 | DIO | SIN | | 2D2S+ | |
| MI-16 | MAC | | IX | | |
| MS-16 | COU | | XXI | | |
| P16 * | | | X | 2N55$, 0C604= | |
| P16A | | | X | | |
| P168 | | | X | | |
| SC16P | DIO | SIN | V | 0C2$ | |
| TV-16 | THM | | XVIII | | |
| VS-16 | COU | | XXI | | |
| 16LK1B | | | VIII | | |
| 16LM1C * | RA | | V111 | | |
| 16L02I * | OD | | V111 | | |
| 16L03I * | OS | | V111 | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| D17 | | REC | | XI | | |
| DGTS17 | | REC | | XI | | |
| FEU-17 | | PHM | | XVI | | |
| FEU-17A | * | PHM | | XVI | | |
| G-17B | | TRI | SIN | III | | |
| GI-17 | | TRI | SIN | III | G480* | |
| GU-17 | | BEA | TWN | III | 6360$ | |
| KMT-17 | * | TMS | | XIX | | |
| LI-17 | * | IM | | VIII | | |
| MST-17 | | COU | | XXI | | |
| P17 | | | | X | | |
| P17A | | | | X | | |
| P17B | | | | X | | |
| SG17S | | DIO | SIN | V | | |
| D18 | * | GEP | | XI | | |
| FEU-18 | | PHM | | XVI | | |
| FEU-18A | * | PHM | | XVI | | |
| GI-18B | | TRI | SIN | III | | |
| GS-18 | | TRI | SIN | | GK-2000+ | |
| GU-18 | | BEA | TWN | III | | |
| LI-18 | | VI | | VIII | | |
| MST-18 | | COU | | XXI | | |
| P18 | | | | X | | |
| P18A | | | | X | | |
| P18B | | | | X | | |
| R-18 | | | | XXII | | |
| SG18S | | DIO | SIN | V | | |
| 18LK1B | | TV | | VIII | | |
| 18LK2B | | TV | | VIII | 7QP4$ | |
| 18LK3V | | | | VIII | | |
| 18LK4B | | TV | | VIII | | |
| 18LK5B | * | TV | | VIII | | |
| 18LK7B | | TV | | VIII | | |
| 18LK9A | * | PT | | V111 | | |
| 18LK11B | * | TV | | V111 | | |
| 18LK12B | * | TV | | V111 | | |
| 18LK13L | * | TV | | V111 | | |
| 18LK14T | * | ELS | | VIII | | |
| 18LK15 | | TV | | VIII | | |
| 18LK17L | * | ELM | ELM | VIII | | |
| 18LM3S | * | RA | | V111 | | |
| 18LM35 | | OS | | | 7BP7A$, 18LM35V+ | |
| 18LM35V | * | OS | | VIII | 7BP7$ | |
| 18L01A | | | | VIII | | |
| 18L01P | | | | | 7BP7A$ | |
| 18L040B | | TV | | VIII | 7JP4$, LK740+ | |
| 18L047A | * | OD | | VIII | | |
| 18L047V | | OD | | | 18L047A+ | |
| D19 | | GEP | | XI | | |
| D19A | | GEP | | XI | | |
| D19B | | GEP | | XI | | |
| FEU-19A | * | PHM | | XVI | | |
| GI-19B | | TRI | SIN | III | | |
| GU-19 | | BEA | TWN | III | | |
| P19 | | | | X | | |
| SG19S | | DIO | SIN | V | | |
| SI-19BG | * | COU | | XXI | | |
| SI-19G | | COU | | XXI | | |
| 19LK4B | | TV | | VIII | | |
| D20 | * | GEP | | XI | | |
| FEU-20 | * | PHM | | XVI | | |
| GK20 | | TRI | SIN | III | | |
| I-20/1.5 | | TRI | IGN | IV | | |
| I-20/1500 | | DIO | IGN | IV | | |
| IFK20 | | | | XX | | |
| M-20/35 | | TRI | SIN | | GM-1A+ | |
| M020 | | TRI | SIN | III | | |
| MP20 | * | | | X | | |
| MP20A | * | | | X | | 14073-68 |
| MP20B | * | | | X | | 14073-68 |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| SG20G | | DIO | SIN | V | | |
| SI-20G | | COU | | XXI | | |
| QV20-P18 | | TET | SIN | | GMI-83= | |
| T-20BFL | | COU | | XXI | | |
| TKP-20 | | TMS | POW | XIX | | |
| TR-20/15 | | TRI | THY | | TR-1-6/15+ | |
| V20/20 | | DIO | SIN | | V1-0.02/20+ | |
| VKU-20-0.25 | | SCR | SI4 | XII-A | | |
| VKU-20-0.5 | | SCR | SI4 | XII-A | | |
| VKU-20-0.75 | | SCR | SI4 | XII-A | | |
| VKU-20-1.0 | | SCR | SI4 | XII-A | | |
| VKU-20-1.5 | | SCR | SI4 | XII-A | | |
| VKU-20-2.0 | | SCR | SI4 | XII-A | | |
| VKU-20-2.5 | | SCR | SI4 | XII-A | | |
| VKU-20-3.0 | | SCR | SI4 | XII-A | | |
| 20LM1YE | * | | | VIII | | |
| D21 | | | | X1 | | |
| DGTS21 | | REC | | XI | D7A+ | |
| GI-21B | | TRI | SIN | III | | |
| GU21B | | TRI | SIN | III | | |
| P21 | | | | X | | |
| P21A | | | | X | | |
| P21B | | | | X | | |
| P21D | * | | | X | | 14073-68 |
| P21G | * | | | X | | 14073-68 |
| P21V | * | | | X | | 14073-68 |
| P21YE | * | | | X | | 14073-68 |
| R-21 | | | | XX11 | | |
| SI-21G | | COU | | XXI | | |
| STI-21 | * | TMS | | XIX | | |
| DGTS22 | | REC | | XI | D7B+ | |
| FEU-22 | | PHM | | XVI | | |
| GI-22 | | TRI | SIN | III | | |
| GU22A | | TRI | SIN | III | | 10030-62 |
| LI-22 | * | IM | | V111 | | |
| P22 | | | | X | | |
| SI-22G | | COU | | XXI | | |
| 22L01A | * | OS | | V111 | | |
| DGTS23 | | REC | | XI | D7V+ | |
| FEU-23 | | PHM | | XVI | | |
| GU23A | | TRI | SIN | III | | 10031-68 |
| GU-23B | | TRI | SIN | III | | |
| LI-23 | * | | | VIII | | |
| P23 | | | | X | | |
| P23A | | | | | | |
| 23LK1B | | TV | | VIII | 9CP4$ | |
| 23LK2B | | TV | | VIII | | |
| 23LK5B | * | TV | | V111 | | |
| 23LK6I | * | PT | | V111 | | |
| 23LK7B | * | TV | | VIII | | |
| 23LK8B | * | TV | | VIII | | |
| 23LK9B | * | ELS | | VIII | | |
| 23LK41I | * | TV | | V111 | | |
| 23LM3S | * | RA | | V111 | | |
| 23LM34 | | OS | | | 9GP7$, 23LM34V+ | |
| 23LM34V | * | OS | | VIII | | |
| 23L01P | | OS | | | 9GP7$ | |
| 23L051A | * | OS | | VIII | | |
| DGTS24 | | REC | | XI | D7G+ | |
| FEU-24 | * | PHM | | XVI | | |
| GI-24A | | TRI | SIN | III | | |
| GU24. | | | | III | | |
| R-24 | | | | XX11 | | |
| DGTS25 | | REC | | XI | D7D+ | |
| EVU-25/1.0 | | IGN | HG | 1V | | |
| FEU-25 | * | PHM | | XVI | | |
| GI-25 | | TRI | SIN | III | | |
| GU25B | | TRI | SIN | III | | |
| ISK25 | | | | XX | | |
| MP25 | * | | | X | | 14830-69 |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| MP25A | * | | | X | | 14830-69 |
| MP25B | * | | | X | | 14830-69 |
| T-25BFL | | COU | | XXI | | |
| VK-25 | | POW | | XII | | |
| 25LM1V | * | RA | | V111 | | |
| 25P1 | | BEA | SIN | II | 25L6$ | |
| 25P1S | | BEA | SIN | II | 25L6$ | |
| DGTS26 | | REC | | XI | D7E+ | |
| FEU-26 | * | PHM | | XVI | | |
| GU26A | | TRI | SIN | III | | |
| GU26B | | TRI | SIN | III | | |
| K-26 | | KLO | | IX | | |
| MP26 | * | | | X | | 14830-69 |
| MP26A | * | | | X | | 14830-69 |
| MP26B | * | | | X | | 14830-69 |
| DGTS27 | | REC | | XI | D7ZH+ | |
| FEU-27 | * | PHM | | XVI | | |
| GU27A | | TET | SIN | III | | 14626-69 |
| GU27B | | TET | SIN | III | 827-R$ | |
| P27 | * | | | X | | |
| P27A | * | | | X | | |
| FEU-28 | * | PHM | | XV1 | | |
| GSH-28 | | NOI | | IX | | |
| GU2BA | | TET | SIN | III | | |
| GU2BB | | TET | SIN | III | | |
| M28 | | TRI | SIN | III | | |
| P28 | * | | | X | | |
| FEU-29 | * | PHM | | XVI | | |
| G29 | | TRI | SIN | III | | |
| GSH-29 | | NOI | | IX | | |
| GU29 | * | BEA | TWN | III | 829-B$ | 9839-68 |
| K-29 | | KLO | | IX | | |
| P29 | * | | | X | | |
| P29A | * | | | X | | |
| FEU-30 | * | PHM | | XV1 | | |
| GDO-30 | | TRI | SIN | | GS-3B+ | |
| GI-30 | | BEA | TWN | III | 3E29$ | |
| GMI-30 | | TRI | SIN | III | 6C21$ | |
| GS-30 | | COU | | XXI | | |
| GU30A | | TRI | SIN | III | | |
| K-30 | | KLO | | IX | | |
| M-30/450 | | TRI | SIN | | GMI-30+ | |
| P30 | * | | | X | | |
| T-30BFL | | COU | | XXI | | |
| VG-30 | | POW | | XII | | |
| 30LK1B | | TV | | VIII | 31LK1B+ | |
| 30P1 | | BEA | SIN | | 30P1S+ | |
| 30P1M | | BEA | SIN | | 30P1S+ | |
| 30P1S | * | BEA | SIN | II | 30P1M | |
| 30TS1M | | DIO | SIN | II | 30VKH1+, 30TS6S+ | |
| 30TS6S | * | DIO | TWN | II | 30VKH1+, 30TS14* | B078-67 |
| 30VD1 | | DIO | SIN | II | 30TS1M+ | |
| 30VKH1 | | DIO | SIN | II | 30TS6S+ | |
| FEU-31 | * | PHM | | XVI | | |
| GU31 | | TET | SIN | III | | |
| K-31 | | KLO | | IX | | |
| P31 | | | | X | | |
| P31A | | | | X | | |
| 31LK1B | | TV | | VIII | | |
| 31LK2B | * | TV | | VIII | 12LP4$ | |
| 31LM32 | | OS | | | 12DP7A$,31LM32V+ | |
| 31LM32V | * | OS | | VIII | | |
| 31L01P | | | | VIII | 12DP7$ | |
| 31L033 | | OS | | | 12GP7$,31L033V+ | |
| 31L033V | * | OS | | VIII | | |
| FEU-32 | * | PHM | | XVI | | |
| G32 | | TRI | SIN | III | | |
| GU32 | | BEA | TWN | III | B32$ | 9838-6B |
| K-32 | | KLO | | IX | | |
| P32 | | | | X | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| FEU-33 | * | PHM | | XVI | | |
| GU33B | | TET | SIN | III | | 16095-70 |
| K-33 | | KLO | | IX | | |
| FEU-34 | | PHM | | XVI | | |
| GU34B | | TET | SIN | III | | 16096-70 |
| K-34 | | KLO | | IX | | |
| FEU-35 | * | PHM | | XVI | | |
| GU-35B | | TET | SIN | III | | |
| K-35 | | KLO | | IX | | |
| MP35 | * | | | X | | 14831-69 |
| 35LK1B | * | ELS | ELM | VIII | | |
| 35LK2B | * | TV | | VIII | | 8B15-5B |
| 35LK4B | * | TV | | V111 | | |
| FEU-36 | * | PHM | | XVI | | |
| G36 | | TRI | SIN | III | | |
| GK36 | | TRI | SIN | | GK-20+ | |
| GU-36B | | TET | SIN | III | | |
| MP36A | * | | | X | | 14B31-69 |
| FEU-37 | * | PHM | | XVI | | |
| GU-37B | * | TRI | SIN | III | | |
| MP37 | * | | | X | | 14B31-69 |
| MP37A | * | | | X | | 14B31-69 |
| MP37B | * | | | X | | 14831-69 |
| P37A | | | | | MP37A+ | |
| P37B | | | | | MP27B+ | |
| FEU-3B | * | PHM | | XVI | | |
| MP3B | * | | | X | | 14B31-69 |
| MP3BA | * | | | X | | 14831-69 |
| FEU-39A | * | PHM | | XVI | | |
| GU-39A | | TET | SIN | III | | 10746-67 |
| GU-39B | | TET | SIN | III | | 11260-65 |
| GU39P | | TET | SIN | 111 | | |
| M39 | | TRI | SIN | III | | |
| MP39 | * | | | X | | 1494B-69 |
| MP39B | * | | | X | | 14948-69 |
| FEU-40 | | NSP | | XVI | | |
| GU-40B | | TET | SIN | III | | |
| MP40 | * | | | X | | 14948-69 |
| MP40A | * | | | X | | 14948-69 |
| P40B | | | | X | | |
| T-40BFL | | COU | | XXI | | |
| V40/100 | | DIO | SIN | | V1-0.1/40+ | |
| 40LK1B | * | TV | | VIII | 16AP4$ | |
| K-41 | | KLO | | IX | | |
| MP41 | * | | | X | | 1494B-69 |
| MP41A | * | | | X | | 1494B-69 |
| FEU-42 | | NSP | | XVI | | |
| K-42 | | KLO | | IX | | |
| MP42 | * | | | X | | 14947-69 |
| MP42A | * | | | X | | 14947-69 |
| MP42B | * | | | X | | 14947-69 |
| 42LM2YE | * | | | VIII | | |
| FEU-43 | | NSP | | XVI | | |
| GU43B | | TET | SIN | III | | |
| 43LK2B | * | TV | | VIII | | |
| 43LK3B | * | TV | | VIII | | |
| 43LK6B | | TV | | VIII | | |
| 43LK7B | | TV | | VIII | | |
| 43LK8B | * | TV | | VIII | | |
| 43LK9B | * | TV | | VIII | | |
| FEU-44 | | NSP | | XVI | | |
| FEU-45 | | NSP | | XVI | | |
| 45LM1B | * | | | VIII | | |
| 45LM2U | * | RA | | V111 | | |
| 45LM3N | * | RA | | V111 | | |
| FEU-46 | | NSP | | XVI | | |
| G46 | | TRI | SIN | III | | |
| FEU-47 | | NSP | | XVI | | |
| G47 | | TRI | SIN | III | | |
| SB-47 | | PND | SIN | II | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| 47LK1B | TV | | VIII | | |
| 47LK28 * | ELS | | VIII | | 14854-69 |
| FEU-48 | NSP | | XVI | | |
| GU48 | | | | 833A$ | |
| K-48 | KLO | | IX | | |
| FEU-49 * | PHM | | XVI | | |
| G-49 | TRI | SIN | | GS-4+ | |
| EVU-50/1.0 | IGN | HG | 1V | | |
| FEU-50 * | PHM | | XV1 | | |
| GD-50 | TRI | SIN | | G-46+ | |
| GU50 * | PND | SIN | III | LS50= | 12407-66 |
| I-50/1.5 | TRI | IGN | IV | | |
| I-50/1500 | DIO | IGN | IV | | |
| IFK50 | | | XX | | |
| LS50 | PND | SIN | | GU50= | |
| M50 | TRI | SIN | III | | |
| T-50BFL | COU | | XXI | | |
| TKP-50A | TMS | POW | XIX | | |
| TKP-50B | TMS | POW | XIX | | |
| VG-50 | POW | | XII | | |
| VK-50 | POW | | XII | | |
| VKU-50-0.25 | SCR | SI4 | XII-A | | |
| VKU-50-0.5 | SCR | SI4 | XII-A | | |
| VKU-50-0.75 | SCR | SI4 | XII-A | | |
| VKU-50-1.0 | SCR | SI4 | XII-A | | |
| VKU-50-1.5 | SCR | SI4 | XII-A | | |
| VKU-50-2.0 | SCR | SI4 | XII-A | | |
| VKU-50-2.5 | SCR | SI4 | XII-A | | |
| VKU-50-3.0 | SCR | SI4 | XII-A | | |
| FEU-51 * | PHM | | XV1 | | |
| GM51A | TRI | SIN | III | | |
| MI-51 | MAG | | IX | | |
| S8-51 | PND | SIN | II | | |
| STSV51 * | PHO | | XVI | | |
| 51LS1 * | CH | | V111 | | |
| FEU-52 * | PHM | | XVI | | |
| MI-52 | MAG | | IX | | |
| FEU-53 * | PHM | | XVI | | |
| M53 | TRI | SIN | III | | |
| MI-53 | MAG | | IX | | |
| 53LK2B * | TV | | VIII | | |
| 53LK3B | TV | | VIII | | |
| 53LK4TS* | TV | | VIII | | |
| 53LK5B | TV | | VIII | | |
| 53LK6B | TV | | VIII | | |
| FEU-54 * | PHM | | XV1 | | |
| G-54 | TRI | SIN | | GS-6+ | |
| MI-54 | MAG | | IX | | |
| R-54 | | | XXII | | |
| FEU-55 * | PHM | | XV1 | | |
| FEU-56 * | PHM | | XV1 | | |
| G-56 | TRI | SIN | | G29+ | |
| GM57 | TRI | SIN | III | MS50*+, M457+, UB180= | |
| M57 | TRI | SIN | III | | |
| S0-57 | PND | SIN | II | | |
| FEU-58 * | PHM | | XV1 | | |
| G-58 | TRI | SIN | | GK-3000+ | |
| FEU-59 * | PHM | | XV1 | | |
| 59LK1B | TV | | VIII | | |
| 59LK2B | ELS | | VIII | | 14855-69 |
| FEU-60 | PHM | | XV1 | | |
| GM60 | TRI | SIN | III | M600*+ | |
| GS-60 | COU | | XXI | | |
| T-608FL | COU | | XXI | | |
| G61 | TRI | SIN | III | | |
| GU61P | TET | SIN | III | | |
| 61LK1B * | ELM | ELM | VIII | | |
| FEU-62 * | PHM | | XV1 | | |
| G62 | TRI | SIN | III | | |
| GU62P | TRI | SIN | 111 | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| M62 | MAG | | IX | | |
| FEU-63 * | PHM | | XVI | | |
| FEU-64 * | PHM | | XV1 | | |
| G-64 | TRI | SIN | | GS-3B+ | |
| FEU-65 * | PHM | | XVI | | |
| G65 | TRI | SIN | III | | |
| 65LK1B | | | VIII | | |
| GU66P | TRI | SIN | 111 | | |
| FEU-67 * | PHM | | XV1 | | |
| FEU-68 * | PHM | | XVI | | |
| G68 | TRI | SIN | III | | |
| GI-70B | TRI | SIN | III | LD-70 | |
| FEU-70 * | | | XVI | | |
| GM-70 | TRI | SIN | III | | |
| GM70B | TRI | SIN | III | | |
| ISP70 | | | XX | | |
| LD70 | TRI | SIN | | GI-70B+ | |
| V70/1000 | DIO | SIN | | V1-0.3/70+ | |
| GK71 | PND | SIN | III | G471+, 471A* | |
| GU72 | PND | SIN | III | | |
| FEU-74 * | PHM | | XVI | | |
| M74 | TRI | SIN | III | | |
| FEU-75 * | PHM | | XVI | | |
| 75S5-30 | DIO | SIN | | SG2S+, 0A3$ | |
| GI-76B | TRI | SIN | III | | |
| FEU-77 * | PHM | | XVI | | |
| FEU-80 * | PHM | | XVI | | |
| GU80 | PND | SIN | III | 0S450=, P800*+ | 12404-66 |
| M80 | TRI | SIN | III | | |
| T-80BFL | COU | | XXI | | |
| FEU-81 * | | | XVI | | |
| GU81 | PND | SIN | III | | 13048-67 |
| FEU-82 * | | | XVI | | |
| GMI-83 | TET | SIN | III | QV20-P18=,5D21$ | |
| G88 | TRI | SIN | III | | |
| V0-88 | DIO | TWN | | 4VKH1+ | |
| GMI-89 | TET | SIN | III | G-489*+ | |
| GU89A | TRI | SIN | III | 889A$ | |
| GU89B | TRI | SIN | III | 889R-A$ | |
| M89 | TRI | SIN | III | | |
| GMI-90 | TET | SIN | III | G-490*+ | |
| GS90B | TRI | SIN | III | LD-90 | |
| LD-90 | TRI | SIN | | GS-90B+ | |
| MTKH90 | TRI | THY | VII | | |
| RB-90 | | | XXII | | |
| TGI-90/8 | TRI | THY | | TGI-1-90/8+ | |
| G91 | TRI | SIN | III | | |
| G-92 | TRI | SIN | | GK-2000+ | |
| K-92A | KLO | | IX | | |
| K-92B | KLO | | IX | | |
| K-92G | KLO | | IX | | |
| K-92V | KLO | | IX | | |
| MI-95 | MAG | | IX | | |
| L-99 | PTG | SIN | | 6A2P+ 6BE6$ | |
| EVU-100/1.0 | IGN | HG | 1V | | |
| G-100 | TRI | SIN | | G-29+ | |
| G-100A | TRI | SIN | | GK-3A+ | |
| GD-100 | TRI | SIN | | G-47+ | |
| GKE100 | TET | SIN | III | GE-1= | |
| GM100 | TRI | SIN | III | | |
| I-100/1.0 | TRI | IGN | IV | | |
| I-100/5.0 | TRI | IGN | IV | | |
| I-100/1000 | DIO | IGN | IV | | |
| I-100/5000 | DIO | IGN | IV | | |
| ISSH100-1 | | | XX | | |
| ISSH100-3 | | | XX | | |
| L100 | PND | DIO | | 6B2P* | |
| VG-100 | POW | | XII | | |
| VK-100 | POW | | XII | | |
| VKU100-0.25 | SCR | SI4 | XII-A | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| VKU100-0.5 | | SCR | SI4 | XII-A | | |
| VKU100-0.75 | | SCR | SI4 | XII-A | | |
| VKU100-1.0 | | SCR | SI4 | XII-A | | |
| VKU100-1.5 | | SCR | SI4 | XII-A | | |
| VKU100-2.0 | | SCR | SI4 | XII-A | | |
| VKU100-2.5 | | SCR | SI4 | XII-A | | |
| VKU100-3.0 | | SCR | SI4 | XII-A | | |
| VKUV-100-0.25 | | SCR | SI4 | XII-A | | |
| VKUV-100-0.5 | | SCR | SI4 | XII-A | | |
| VKUV-100-0.75 | | SCR | SI4 | XII-A | | |
| VKUV-100-1.0 | | SCR | SI4 | XII-A | | |
| VKUV-100-1.5 | | SCR | SI4 | XII-A | | |
| VKUV-100-2.0 | | SCR | SI4 | XII-A | | |
| VKUV-100-2.5 | | SCR | SI4 | XII-A | | |
| VKUV-100-3.0 | | SCR | SI4 | XII-A | | |
| A101 | | DEC | | XX111 | | |
| AI-101A | * | TUN | | XI-B | | |
| AI-101B | * | TUN | | XI-B | | |
| AI-101D | * | TUN | | XI-B | | |
| AI-101G | * | TUN | | XI-B | | |
| AI-101I | * | TUN | | XI-B | | |
| AI-101V | * | TUN | | XI-B | | |
| AI-101YE | * | TUN | | XI-B | | |
| AI-101ZH | * | TUN | | XI-B | | |
| D101 | * | REC | | XI | | |
| D101A | * | REC | | XI | | |
| KU101A | * | SCR | TRI | XII-B | | |
| KU101B | * | SCR | TRI | XII-B | | |
| KU101G | * | SCR | TRI | XII-B | | |
| KU101YE | * | SCR | TRI | XII-B | | |
| LI-101 | | IC | | VIII | | |
| P101 | | | | X | | |
| P101A | | | | X | | |
| P1018 | | | | X | | |
| D102 | * | REC | | XI | | |
| D102A | * | REC | | XI | | |
| KD102A | * | | | XI | | |
| KP102I | * | MJF | | X-B | | |
| KP102K | * | MJF | | X-B | | |
| KP102L | * | MJF | | X-B | | |
| KP102YE | * | MJF | | X-B | | |
| KP102ZH | * | MJF | | X-B | | |
| KV102A | * | VAR | SI | XI-D | | |
| KV102B | * | VAR | SI | XI-D | | |
| KV102D | * | VAR | SI | XI-D | | |
| KV102G | * | VAR | SI | XI-D | | |
| KV102V | * | VAR | SI | XI-D | | |
| P102 | | | | X | | |
| D103 | * | REC | | XI | | |
| D103A | * | REC | | XI | | |
| KD103A | * | | | XI | | |
| KD103B | * | | | XI | | |
| KP103I | * | MJF | | X-B | | |
| KP103K | * | MJF | | X-B | | |
| KP103L | * | MJF | | X-B | | |
| KP103M | * | MJF | | X-B | | |
| KP103YE | * | MJF | | X-B | | |
| KP103ZH | * | MJF | | X-B | | |
| P103 | | | | X | | |
| P103A | | | | X | | |
| S-103 | | TET | SIN | | GKE-1000+ | |
| D104 | * | REC | | XI | | |
| D104A | * | REC | | XI | | |
| KV104A | * | VAR | SI | XI-D | | |
| KV104B | * | VAR | SI | XI-D | | |
| KV104D | * | VAR | SI | XI-D | | |
| KV104G | * | VAR | SI | XI-D | | |
| KV104V | * | VAR | SI | XI-D | | |
| KV104YE | * | VAR | SI | XI-D | | |
| L-104 | | PND | SIN | | 6K4P+, 6BA6$ | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| P104 | | | | X | | |
| D105 | * | REC | | XI | | |
| D105A | * | REC | | XI | | |
| KD105A | | | | XI | | |
| KD1058 | | | | XI | | |
| KD105V | | | | XI | | |
| KV105A | * | VAR | SI | XI-D | | |
| KV105B | * | VAR | SI | XI-D | | |
| P105 | | | | X | | |
| 105S5-30 | | DIO | SIN | | SG3S+, 0C3$ | |
| D106 | * | REC | | XI | | |
| D106A | * | REC | | XI | | |
| P106 | | | | X | | |
| S-106 | | TET | SIN | | GKE-150+ | |
| D107 | | REC | SIP | XI | | |
| D107A | | REC | SIP | XI | | |
| P107 | | | | | | |
| UB107 | | TRI | SIN | | 4S1+ | |
| D108 | | REC | SIP | XI | | |
| GT108A | * | | | X | | 15141-69 |
| GT108B | * | | | X | | 15141-69 |
| GT108G | * | | | X | | 15141-69 |
| GT108V | * | | | X | | 15141-69 |
| P108 | | | | X | | |
| P108A | | | | X | | |
| D109 | | REC | SIP | XI | | |
| GT109A | * | | | X | | 15142-69 |
| GT1098 | * | | | X | | 15142-69 |
| GT109D | * | | | X | | 15142-69 |
| GT109G | * | | | X | | 15142-69 |
| GT109I | * | | | X | | 15142-69 |
| GT109V | * | | | X | | 15142-69 |
| GT109YE | * | | | X | | 15142-69 |
| GT109ZH | * | | | X | | 15142-69 |
| P109 | | | | X | | |
| S-109 | | TET | SIN | | GKE-300+ | |
| P110 | | | | X | | |
| UB110 | | TRI | SIN | | 4S2+ | |
| MP111 | * | | | X | | 14949-69 |
| MP111A | * | | | X | | 14949-69 |
| MP111B | * | | | X | | 14949-69 |
| VU-111D | | DIO | SIN | IV | | |
| MP112 | * | | | X | | 14949-69 |
| S8-112 | | PND | SIN | II | 4E1+ | |
| MP113 | * | | | X | | 14949-69 |
| MP113A | * | | | X | | 14949-69 |
| MP114 | * | | | X | | 14874-69 |
| MP115 | * | | | X | | 14874-69 |
| MP116 | * | | | X | | 14874-69 |
| SO-118 | | TRI | SIN | | 4S5+ | |
| G120 | | TRI | SIN | III | | |
| IFK120 | | | | XX | | |
| MI-120 | | MAG | | IX | | |
| TR-120/15 | | TRI | THY | | TR-1-40/15+ | |
| SO-122 | | PND | SIN | | 4P1+ | |
| SO-124 | | PND | SIN | II | 4ZH5+ | |
| VO-125 | | DIO | SIN | IV | | |
| SK-127 | | | | XXII | | |
| VG-129 | | DIO | SIN | IV | | |
| U8-132 | | TRI | SIN | II | 4S3+ | |
| KS133A | * | REG | SI | X111 | | |
| P135 | | | | X | | |
| MI-137 | | MAG | | IX | | |
| KS139A | * | REG | SI | X111 | | |
| TO-141 | | TRI | SIN | II | 3S1+ | |
| TO-142 | | TRI | SIN | II | 3S2+, 3S9+ | |
| KS147A | * | REG | SI | X111 | | |
| SB-147 | | TET | SIN | | 4E2+ | |
| SO-148 | | PND | SIN | II | 4E3+ | |
| GI-150 | | TRI | SIN | III | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| GKE150 | | TET | SIN | III | GE-2= | |
| GU150 | | TRI | SIN | III | | 7712-55 |
| I-150/1.0 | | TRI | IGN | IV | | |
| M150 | | TRI | SIN | III | | |
| 150S5-30 | | DIO | SIN | | SG4S+, 0D3$ | |
| SB-152 | | TRI | SIN | II | | |
| UB-152 | | TRI | SIN | II | 2S1+ | |
| UB-153 | | TRI | SIN | II | | |
| SB-154 | | PND | SIN | II | 2E1+ | |
| SB-155 | | BEA | SIN | | 2P2+ | |
| UB-155 | | BEA | SIN | II | 2E2+ | |
| KS156A | * | REG | SI | X111 | | |
| VG-161 | | DIO | SIN | IV | | |
| VG-163 | | | | IV | | |
| KS16BA | * | REG | SI | X111 | | |
| VG-176 | | DIO | SIN | IV | | |
| UB-17B | | TRI | SIN | II | | |
| SO-1B2 | | PND | SIN | II | | |
| UB-1B2 | | TRI | SIN | II | | |
| SO-185 | | TRI | SIN | | 4S5+ | |
| U01B6 | | TRI | SIN | II | 4S4+ | |
| US-186 | | TRI | SIN | | 4S4+ | |
| VO-1BB | | DWD | SIN | IV | 4VKH1* | |
| SB-190 | | PND | SIN | II | | |
| 191P | | TET | SIN | II | | |
| KS194A | | REG | | XIII | | |
| KS194B | | REG | | XIII | | |
| KS194G | | REG | | XIII | | |
| KS194V | | REG | | XIII | | |
| VO-196 | | DIO | SIN | IV | | |
| VO-197 | | DWD | SIN | IV | | |
| GD-200 | | TRI | SIN | | GS-4+ | |
| I-200/1.5 | | TRI | IGN | IV | | |
| IFP200 | | | | XX | | |
| IVS200/2 | | | IGN | IV | | |
| TGI-200 | | TRI | THY | VII | MT | |
| VGV200 | | POW | | XII | | |
| VK-200 | | POW | | XII | | |
| VKV200 | | POW | | XII | | |
| AI-201A | * | TUN | | XI-B | | |
| AI-201B | * | TUN | | XI-B | | |
| AI-201D | * | TUN | | XI-B | | |
| AI-201G | * | TUN | | XI-B | | |
| AI-201I | * | TUN | | XI-B | | |
| AI-201K | * | TUN | | XI-B | | |
| AI-201L | * | TUN | | XI-B | | |
| AI-201V | * | TUN | | XI-B | | |
| AI-201YE | * | TUN | | XI-B | | |
| AI-201ZH | * | TUN | | XI-B | | |
| D201A | | REC | | XI | | |
| D201B | | REC | | XI | | |
| D201D | | REC | | XI | | |
| D201G | | REC | | XI | | |
| D201TS | | REC | | XI | | |
| D201V | | REC | | XI | | |
| D201YE | | REC | | XI | | |
| D201ZH | | REC | | XI | | |
| KU-201A | * | SCR | | XII-B | | |
| KU-201B | * | SCR | | XII-B | | |
| KU-201D | * | SCR | | XII-B | | |
| KU-201G | * | SCR | | XII-B | | |
| KU-201I | * | SCR | | XII-B | | |
| KU-201K | * | SCR | | XII-B | | |
| KU-201L | * | SCR | | XII-B | | |
| KU-201V | * | SCR | | XII-B | | |
| KU-201YE | * | SCR | | XII-B | | |
| KU-201ZH | * | SCR | | XII-B | | |
| LI-201 | * | IM | | VIII | | |
| P201E | * | | | X | | |
| P201AE | * | | | X | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| SG201S | | DIO | SIN | V | 0B3$ | |
| D202 | * | REC | | XI | | |
| KD202A | * | | | XI | | |
| KD202B | * | REC | | XI | | |
| KD202D | * | REC | | X1 | | |
| KD202G | * | REC | | X1 | | |
| KD202I | * | REC | | X1 | | |
| KD202K | * | REC | | X1 | | |
| KD202L | * | REC | | X1 | | |
| KD202M | * | REC | | X1 | | |
| KS202N | * | REC | | X1 | | |
| KD202R | * | REC | | X1 | | |
| KD202S | * | REC | | X1 | | |
| KD202V | * | REC | | X1 | | |
| KD202YE | * | REC | | X1 | | |
| KD202ZH | * | REC | | X1 | | |
| KU-202A | * | SCR | TRI | XII-B | | |
| KU-202B | * | SCR | TRI | XII-B | | |
| KU-202D | * | SCR | TRI | XII-B | | |
| KU-202G | * | SCR | TRI | XII-B | | |
| KU-202I | * | SCR | TRI | XII-B | | |
| KU-202K | * | SCR | TRI | XII-B | | |
| KU-202L | * | SCR | TRI | XII-B | | |
| KU-202M | * | SCR | TRI | XII-B | | |
| KU-202N | * | SCR | TRI | XII-B | | |
| KU-202V | * | SCR | TRI | XII-B | | |
| KU-202YE | * | SCR | TRI | XII-B | | |
| KU-202ZH | * | SCR | TRI | XII-B | | |
| LI-202 | * | IM | | V111 | | |
| P202E | * | | | X | 2N68$ | |
| SG202B | | DIO | SIN | V | | |
| VO-202 | | DWD | SIN | IV | | |
| D203 | * | REC | | XI | | |
| LI-203 | * | | | VIII | | |
| P203E | * | | | X | 2N68$ | |
| SG203K | | DIO | SIN | V | | |
| D204 | * | REC | | XI | | |
| UV-204 | | TWT | | IX | | |
| D205 | * | REC | | XI | | |
| UV-205 | | TWT | | IX | | |
| D206 | * | REC | | XI | | |
| D207 | * | REC | | XI | | |
| LI-207 | * | IM | | V111 | | |
| P207 | | | | X | | |
| P207A | | | | X | | |
| D208 | * | REC | | XI | | |
| P20B | | | | X | | |
| P208A | | | | X | | |
| D209 | * | REC | | XI | | |
| P209 | | GAP | | X | | |
| P209A | | GAP | | X | | |
| D210 | * | REC | | XI | | |
| P210 | | GAP | | X | | |
| P210A | * | GAP | | X | | |
| P210B | * | GAP | | X | | 14B75-69 |
| P210V | * | GAP | | X | | 14875-69 |
| D211 | * | REC | | XI | | |
| KS211B | | REG | SI | XIII | | |
| KS211D | | REG | SI | XIII | | |
| KS211G | | REG | SI | XIII | | |
| KS211V | | REG | SI | XIII | | |
| P211 | | | | X | | |
| LI-212 | * | IM | | VIII | | |
| P212 | | | | X | | |
| P212A | | | | X | | |
| TG212M | | TRI | THY | VII | | |
| P213 | * | | | X | | |
| P213A | * | | | X | | |
| P213B | * | | | X | | |
| TG-213 | | TRI | THY | VII | PT-2*+ | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| D214 | | REC | SIA | XI | | |
| D214A | | REC | SIA | XI | | |
| D214B | | REC | | XI | | |
| P214 | * | | | X | | |
| P214A | * | | | X | | |
| P214B | * | | | X | | |
| P214G | * | | | X | | |
| P214V | * | | | X | | |
| D215 | | REC | SIA | XI | | |
| D215A | | REC | SIA | XI | | |
| D215B | | REC | SIA | XI | | |
| P215 | * | | | X | | |
| P216 | * | | | X | | |
| P216A | * | | | X | | |
| P216B | * | | | X | | |
| P216D | * | | | X | | |
| P216C | * | | | X | | |
| P216V | * | | | X | | |
| D217 | * | REC | SIA | XI | | |
| P217 | * | | | X | | |
| P217A | * | | | X | | |
| P217B | * | | | X | | |
| P217C | * | | | X | | |
| P217V | * | | | X | | |
| D218 | * | REC | SIA | XI | | |
| D219A | * | REC | SIA | XI | | |
| D219S | * | | | XI | | |
| D220 | * | REC | SIA | XI | | |
| D220A | * | REC | SIA | XI | | |
| D220B | * | REC | SIA | XI | | |
| SK-220 | | | | XXII | | |
| D221 | | REC | SIA | XI | | |
| D222 | | REC | SIA | XI | | |
| D223 | * | REC | SIA | XI | | 14343-69 |
| D223A | * | REC | SIA | XI | | 14343-69 |
| D223B | * | REC | SIA | XI | | 14343-69 |
| D224 | | REC | SIA | XI | | |
| D224A | | REC | SIA | XI | | |
| D224B | | REC | SIA | XI | | |
| D225 | | REC | SIA | XI | | |
| D226 | | REC | SIA | XI | | |
| D226A | | REC | SIA | XI | | |
| D226B | * | | | XI | | |
| D226D | * | SIA | | XI | | |
| D226C | * | SIA | | XI | | |
| D226V | * | SIA | | XI | | |
| D226YE | | SIA | | XI | | |
| SC226 | | DIO | SIN | V | | |
| D227-A | | SWI | SI4 | XI-A | | |
| D227-B | | SWI | SI4 | XI-A | | |
| D227-D | | SWI | SI4 | XI-A | | |
| D227-C | | SWI | SI4 | XI-A | | |
| D227-I | | SWI | SI4 | XI-A | | |
| D227-V | | SWI | SI4 | XI-A | | |
| D227YE | | SWI | SI4 | XI-A | | |
| D227-ZH | | SWI | SI4 | XI-A | | |
| SC227 | | DIO | SIN | V | | |
| D228-A | | SWI | SI4 | XI-A | | |
| D228-B | | SWI | SI4 | XI-A | | |
| D228-D | | SWI | SI4 | XI-A | | |
| D228-G | | SWI | SI4 | XI-A | | |
| D228-I | | SWI | SI4 | XI-A | | |
| D228-V | | SWI | SI4 | XI-A | | |
| D228YE | | SWI | SI4 | XI-A | | |
| D228-ZH | | SWI | SI4 | XI-A | | |
| D229A | | SIA | | XI | | |
| D229B | | SIA | | XI | | |
| D229D | | | | XI | | |
| D229E | | | | XI | | |
| D229C | | | | XI | | |
| D229V | | | | XI | | |
| D230A | | SIA | | XI | | |
| D230B | | SIA | | XI | | |
| VO-230 | | DIO | SIN | IV | | |
| D231(P) | | REC | SIA | XI | | |
| D231A(P) | | REC | SIA | XI | | |
| D231B(P) | | REC | SIA | | | |
| D232(P) | | REC | SIA | XI | | |
| D232A(P) | | REC | SIA | XI | | |
| D232B(P) | | REC | SIA | XI | | |
| D233(P) | | SIA | | XI | | |
| D233A | | REC | SIA | XI | | |
| D233B(P) | | REC | SIA | XI | | |
| D234B(P) | | REC | SIA | XI | | |
| D235A | | CON | SI | XI-C | | |
| D235B | | CON | SI | XI-C | | |
| D235C | | CON | SI | XI-C | | |
| D235V | | CON | SI | XI-C | | |
| TC-235 | | TRI | THY | VII | PT-3*+ | |
| VG-236 | | | | IV | | |
| VC-237 | | DIO | SIN | IV | | |
| D238A | | CON | SI | XI-C | | |
| D238B | | CON | SI | XI-C | | |
| D238D | | CON | SI | XI-C | | |
| D238C | | CON | SI | XI-C | | |
| D238V | | CON | SI | XI-C | | |
| D238YE | | CON | SI | XI-C | | |
| VO-239 | | DIO | SIN | IV | | |
| UB-240 | | TRI | SIN | II | 2S2+ | |
| SB241 | | PND | SIN | | 2K1*, 2K1M+, S0241* | |
| S0241 | | PND | SIN | | 2K1*, 2K1M+, S0241* | |
| D242 | * | REC | | XI | | 14758-69 |
| D242A | * | REC | | XI | | 14758-69 |
| D242B | * | REC | | XI | | 14758-69 |
| SB-242 | | PTC | SIN | | 2A1+ | |
| SO-242 | | PTC | SIN | II | SB242, 2A1, 2A1M | |
| D243 | * | REC | | XI | | 14758-69 |
| D243A | * | REC | | XI | | 14758-69 |
| D243B | * | REC | | XI | | 14758-69 |
| SB243 | | TRI | DUO | | 2N1*, 2N1M*, S0243* | |
| SO-243 | | TRI | TWN | II | 2N1+ | |
| D244 | * | REC | | XI | | |
| D244A | * | REC | | XI | | |
| D244B | * | REC | | XI | | |
| SB244 | | BEA | SIN | | 2P1+, S0244+ | |
| SO-244 | | PND | SIN | II | 2P1+ | |
| D245 | * | REC | | XI | | 14758-69 |
| D245A | * | REC | | XI | | 14758-69 |
| D245B | * | REC | | XI | | 14758-69 |
| SB245 | | PND | SIN | | 2ZH1M+ | |
| D246 | * | REC | | XI | | 14758-69 |
| D246A | * | REC | | XI | | 14758-69 |
| D246B | * | REC | | XI | | 14758-69 |
| D247 | * | REC | | XI | | 14758-69 |
| D247B | * | REC | | XI | | 14758-69 |
| LO-247 | * | OS | | VIII | | |
| D248B | * | REC | | XI | | |
| LO-248 | | OS | | VIII | | |
| LO-249 | | OS | | VIII | | |
| CKO-250 | | TRI | SIN | | CK-1A+ | |
| VC-252 | | DIO | SIN | IV | | |
| C256 | | TRI | SIN | III | | |
| S0257 | | PND | SIN | II | 2ZH4+ | |
| SB258 | | BEA | SIN | | 2P3+, 2P2M+, S0258+ | |
| SO-258 | | PND | SIN | II | 2P3+ | |
| SB259 | | TRI | DUO | | 4N1+ | |
| S0259 | | TRI | DUO | | 4N1+ | |
| RB-280 | | | | XXII | | |
| C-300 | | TRI | SIN | | C68 | |
| CI-300 | | TRI | SIN | | GI-18B+ | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| GK-300 | | TRI | SIN | | GU-8+ | |
| GKE300 | | TET | SIN | III | | |
| IFB300 | | | | XX | | |
| TKP-300 | | TMS | POW | XIX | | |
| AI-301A | * | TUN | GE | XI-B | | 15606-70 |
| AI-301B | * | TUN | GE | XI-B | | 15606-70 |
| AI-301G | * | TUN | GE | XI-B | | 15606-70 |
| AI-301V | * | TUN | GE | XI-B | | 15606-70 |
| KT301 | * | | | X | | |
| KT301A | * | | | X | | |
| KT301B | * | | | X | | |
| KT301D | * | | | X | | |
| KT301G | * | | | X | | |
| KT301V | * | | | X | | |
| KT301YE | * | | | X | | |
| KT301ZH | * | | | X | | |
| SG301S | | DIO | SIN | V | | |
| D302 | * | REC | | XI | | |
| D302A | * | | | XI | | |
| P302 | * | | | X | | |
| SG302S | | DIO | SIN | V | | |
| D303 | * | REC | | XI | | |
| D303A | * | | | XI | | |
| P303 | * | | | X | | |
| P303A | * | | | X | | |
| SG303S | | DIO | SIN | V | | |
| D304 | * | REC | | XI | | |
| GI304A | * | TUN | GE | XI-B | | |
| GI304B | * | TUN | GE | XI-B | | |
| KU304 | | KLA | | IX | | |
| KU304A | | KLA | | IX | | |
| P304 | * | | | X | | |
| SG304S | | DIO | SIN | V | | |
| D305 | * | REC | | XI | | |
| GI305A | * | TUN | GE | XI-B | | |
| GI305B | * | TUN | GE | XI-B | | |
| SG305K | | REG | | V | | |
| KT306A | * | | | X | | |
| KT306B | * | | | X | | |
| KT306D | * | | | X | | |
| KT306G | * | | | X | | |
| KT306V | * | | | X | | |
| P306 | * | | | X | | |
| P306A | * | | | X | | |
| SG306K | | REG | | V | | |
| KT307A | * | | | X | | |
| KT307B | * | | | X | | |
| KT307G | * | | | X | | |
| KT307V | * | | | X | | |
| P307 | | | | X | | |
| P307A | | | | X | | |
| P307B | | | | X | | |
| P307G | | | | X | | |
| P307V | | | | X | | |
| SG307K | | | | V | | |
| GT308A | * | | | X | | |
| GT308B | * | | | X | | |
| GT308V | * | | | X | | |
| K-308 | | KLO | | IX | | |
| KU308 | | KLA | | IX | | |
| P308 | | | | X | | |
| SG308K | | | | V | | |
| GT309A | * | | | X | | |
| GT309B | * | | | X | | |
| GT309D | * | | | X | | |
| GT309G | * | | | X | | |
| GT309V | * | | | X | | |
| GT309YE | * | | | X | | |
| KU309 | | KLA | | IX | | |
| P309 | | | | X | | |

| Type No. | | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|---|
| SG309K | | | | V | | |
| D310 | * | GEA | | XI | | |
| GT310A | * | | | X | | |
| GT310B | * | | | X | | |
| GT310D | * | | | X | | |
| GT310G | * | | | X | | |
| GT310V | * | | | X | | |
| GT310YE | * | | | X | | |
| KU310A | | KLA | | IX | | |
| KU310B | | KLA | | IX | | |
| D311 | * | REC | | XI | | |
| D311A | * | REC | | XI | | |
| D311B | * | REC | | XI | | |
| GT311A | * | | | X | | |
| GT311B | * | | | X | | |
| GT311D | | | | X | | |
| GT311G | | | | X | | |
| GT311I | | | | X | | |
| GT311V | | | | X | | |
| GT311YE | | | | X | | |
| GT311ZH | | | | X | | |
| SG311S | | REG | | V | | |
| D312 | * | REC | | XI | | |
| D312A | * | REC | | XI | | |
| D312B | * | REC | | XI | | |
| KT312A | * | | | X | | |
| KT312B | * | | | X | | |
| KT312G | | | | X | | |
| KT312V | * | | | X | | |
| GT313A | * | | | X | | |
| GT313B | * | | | X | | |
| P314A | | | | X | | |
| P314B | | | | X | | |
| P314S | | | | X | | |
| KT315A | * | | | X | | |
| KT315B | * | | | X | | |
| KT315G | * | | | X | | |
| KT315V | * | | | X | | |
| KT316A | * | | | X | | |
| KT316B | * | | | X | | |
| KT316D | * | | | X | | |
| KT316G | * | | | X | | |
| KT316V | * | | | X | | |
| KT319A | | | | X | | |
| KT319B | | | | X | | |
| KT319V | | | | X | | |
| GT320A | * | | | X | | |
| GT320B | * | | | X | | |
| GT320V | * | | | X | | |
| GT321A | * | | | X | | |
| GT321B | * | | | X | | |
| GT321D | * | | | X | | |
| GT321G | * | | | X | | |
| GT321V | * | | | X | | |
| GT321YE | * | | | X | | |
| GT322A | * | | | X | | |
| GT322B | * | | | X | | |
| GT322D | * | | | X | | |
| GT322G | * | | | X | | |
| GT322V | * | | | X | | |
| GT322YE | * | | | X | | |
| P322 | | | | X | | |
| KT325A | | | | X | | |
| KT325B | | | | X | | |
| KT325D | | | | X | | |
| KT325G | | | | X | | |
| KT325V | | | | X | | |
| TGI-325/16 | | TRI | THY | | MTI5+,TGI-1-325/16+ | |
| KT326A | | | | X | | |
| KT326B | | | | X | | |

| Type No. | | Kind | Type | Group No. | Similar types | COST spec. No. |
|---|---|---|---|---|---|---|
| GT328 | | | | X | | |
| GT329A | | | | X | | |
| GT329B | | | | X | | |
| GT329V | | | | X | | |
| GT330A | | | | X | | |
| GT330B | | | | X | | |
| R-350 | | | | XXII | | 15633-70 |
| RB-350 | | | | XXII | | |
| K-351 | | KLO | | IX | | |
| K-352 | | KLO | | IX | | |
| VO-360 | | DIO | SIN | IV | | |
| GD-400 | | TRI | SIN | | GS-6+ | |
| M400 | | TRI | SIN | III | | |
| TG-400/15 | | TRI | THY | | TRI-130/15+ | |
| TGI400/3.5 | | TRI | THY | | TGI-2-400/3.5+ | |
| D401 | | MIX | | XIV | | |
| GI401A | * | | | XI-E | | |
| GI401B | * | | | XI-E | | |
| KD401A | * | REC | | XI | | |
| KD401B | * | REC | | XI | | |
| KTS401A | * | REC | | XI | | |
| KTS401B | * | REC | | XI | | 14914-69 |
| KTS401V | * | REC | | XI | | |
| LI-401 | | | | VIII | | |
| M401 | | TRI | SIN | III | | |
| P401 | * | | | X | 2N112$ | |
| AI402B | * | BWD | GAS | XI-E | | |
| AI402G | * | BWD | GAS | XI-E | | |
| AI402I | * | BWD | GAS | XI-E | | |
| AI402YE | * | BWD | GAS | XI-E | | |
| D402 | | MIX | SI | XIV | | |
| GD402A | * | REC | | X1 | | |
| GD402B | * | REC | | X1 | | |
| GT402 | | | | | | |
| GT402A | * | | | X | | |
| GT402B | * | | | X | | |
| P402 | * | | | X | SB-100$ | |
| D403A | | MIX | | XIV | | |
| D403B | | MIX | | XIV | | |
| D403V | | MIX | | XIV | | |
| GD403A | * | REC | | XI | | |
| GD403B | * | REC | | XI | | |
| GD403V | * | REC | | XI | | |
| GT403A | * | | | X | | |
| GT403B | * | | | X | | |
| GT403D | * | | | X | | |
| GT403G | * | | | X | | |
| GT403I | * | | | X | | |
| GT403V | * | | | X | | |
| GT403YE | * | | | X | | |
| GT403ZH | * | | | X | | |
| P403 | * | | | X | 0C614= | |
| P403A | * | | | X | 0C614= | |
| D404 | | MIX | SI | XIV | | |
| P404 | | | | X | | |
| P404A | | | | X | | |
| D405 | | DET | | XIV | | |
| D405A | | DET | | XIV | | |
| D405AP | | DET | | XIV | | |
| D405B | | DET | | XIV | 1N23D$ | |
| D405BP | | DET | | XIV | | |
| P405 | | | | X | | |
| P405A | | | | X | | |
| D406 | | MIX | SI | XIV | | |
| P406 | | | | X | GT-60=,2N113$ | |
| LI-407 | * | VI | | V111 | | |
| P407 | | | | X | 2N114$ | |
| D408 | | MIX | SI | XIV | | |
| LI-408 | * | VI | | VIII | | |
| P408 | | | | X | | |
| LI-409 | * | VI | | V111 | | |
| P409 | | | | X | | |
| T-409 | | DIO | IGM | IV | | |
| G410 | | TRI | SIN | III | | |
| LI-410 | * | VI | | V111 | | |
| P410 | * | | | X | | |
| P410A | * | | | X | | |
| T-410 | | DIO | IGM | IV | | |
| 410R | | KLO | | | | |
| G411 | | PND | SIN | III | KZH1*+ | |
| P411 | * | | | X | AF114= | |
| P411A | * | | | X | AF114= | |
| T-411 | | DIO | IGM | IV | | |
| G412 | | PND | SIN | III | | |
| LI-412 | * | VI | | V111 | | |
| G413 | | PND | SIN | III | GZH2*+ | |
| G414 | | PND | SIN | III | | |
| P414 | | | | X | | |
| P414A | | | | X | | |
| P414B | | | | X | | |
| P415 | | | | X | | |
| P415A | | | | X | | |
| P415B | | | | X | | |
| P416 | * | | | X | | 14876-69 |
| P416A | * | | | X | | 14876-69 |
| P416B | * | | | X | | 14876-69 |
| P416V | | | | | | |
| G417 | | TRI | SIN | III | | |
| P417 | * | | | X | | |
| P417A | * | | | X | | |
| G418 | | PND | SIN | III | | |
| P418 | | | | X | | |
| P418A | | | | X | | |
| P418B | | | | X | | |
| P418G | | | | X | | |
| P418M | | | | X | | |
| P418V | | | | X | | |
| P420 | | | | X | | |
| P421 | | | | X | | |
| UV-421 | | TWT | | IX | | |
| G422 | | PND | SIN | III | | |
| P422 | * | | | X | | |
| P422A | | | | X | | |
| UV-422 | | TWT | | IX | | |
| P423 | * | | | X | | |
| P423A | | | | X | | |
| G424 | | PND | SIN | III | | |
| G425 | | PND | SIN | III | | |
| G430 | | TRI | SIN | III | | |
| RB-430 | | | | XXII | | |
| G431 | | TRI | SIN | III | G431A+ | |
| G431A | | TRI | SIN | III | G431 | |
| G-431R | | TRI | SIN | | GS-4D+ | |
| G433 | | TRI | SIN | III | G433A+ | |
| G433A | | TRI | SIN | III | G433 | |
| M435 | | TRI | SIN | III | | |
| UV-438 | | TWT | | IX | | |
| UV-440 | | TWT | | IX | | |
| G441 | | TRI | SIN | III | | |
| G-450 | | TRI | SIN | III | | |
| OS450 | | PND | SIN | | GU80, P800+* | |
| R-450 | | | | XXII | | |
| M-451 | | TRI | SIN | | GM-51A+ | |
| G-452 | | TRI | SIN | III | G-431A+ | |
| G-454 | | TRI | SIN | III | GS-3B+ | |
| M457 | | TRI | SIN | II | MS3*+, UB180=, GM57+ | |
| M-470 | | TRI | SIN | | GM-70+ | |
| G471 | | PND | SIN | | GK71+ | |
| G472 | | TRI | SIN | III | | |
| G480 | | TRI | SIN | | GI-17*+ | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| G-483 | | TET SIN | | GMI-83+ | |
| G484 | | TRI SIN | III | | |
| G-489 | | TET SIN | | GMI-89+ | |
| G-490 | | TET SIN | | GMI-90*+ | |
| IFK500 | | | XX | | |
| IFP500 | | | XX | | |
| ISSH500 | | | XX | | |
| VGV500 | | POW | XII | | |
| D501 | * | | XIV | | |
| P501 | | | X | | |
| P501A | | | X | | |
| P502 | | | X | | |
| P502A | | | X | | |
| P502B | | | X | | |
| P502V | | | X | | |
| KD503A | * | REC | X1 | | |
| KD503B | * | REC | X1 | | |
| P503 | | | X | | |
| P503A | | | X | | |
| KD504A | * | REC | XI | | |
| P504 | | | X | | |
| P504A | | | X | | |
| P505 | | | X | | |
| P505A | | | X | | |
| GD507A | * | REC | X1 | | |
| KD512A | * | SI | XI | | |
| KD513A | * | SI | XI | | |
| M-532 | | MAG | IX | | |
| M571 | | MAG | IX | | |
| MI-588 | | MAG | IX | | |
| MI-589A | | MAG | IX | | |
| MI-589B | | MAG | IX | | |
| MI-589V | | MAG | IX | | |
| M600 | | TRI SIN | | GM60+ | |
| KT601 | | | X | | |
| KT601A | * | | X | | |
| LI-601 | * | IM | V111 | | |
| P601 | | | X | | |
| P601A | | | X | | |
| P601AI | * | | X | | |
| P6018 | | | X | | |
| P601BI | * | | X | | |
| P601I | * | | X | | |
| D602A | | VID | XIV | | |
| D602B | | VID | XIV | | |
| D602V | | DET | XIV | | |
| KT602A | * | | X | | |
| KT6028 | * | | X | | |
| KT602G | * | | X | | |
| KT602V | * | | X | | |
| P602 | | | X | | |
| P602A | | | X | | |
| P602AI | * | | X | | |
| P602I | * | | X | | |
| D603 | * | VID | XIV | | |
| D604 | * | VID SI | XIV | | |
| KT604A | | | X | | |
| KT6048 | | | X | | |
| P604 | | GAP | X | | |
| P604A | | GAP | X | | |
| P6048 | | GAP | X | | |
| D605 | | MIX SI | XIV | | |
| KT605A | | | X | | |
| KT605B | | | X | | |
| P605 | * | GDP | X | | |
| P605A | * | GDP | X | | |
| P606 | * | GDP | X | | |
| P606A | * | GDP | X | | |
| D607 | * | | XIV | | |
| D607A | * | | XIV | | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| P607 | * | | X | | 14883-69 |
| P607A | * | | X | | 14883-69 |
| D608 | * | | XIV | | |
| P608 | * | | X | | 14883-69 |
| P608A | * | | X | | 14883-69 |
| P6088 | | | X | | |
| D609 | | | XIV | | |
| P609 | * | | X | | 14883-69 |
| P609A | * | | X | | 14883-69 |
| P609B | | | X | | |
| 0V-612 | | BWT | IX | | |
| 0V-613 | | BWT | IX | | |
| 0V-614 | | 8WT | IX | | |
| KS620A | * | REG SI | X111 | | |
| 0V-621 | | BWT | IX | | |
| 0V-622 | | 8WT | IX | | |
| KS630A | * | REG SI | X111 | | |
| KS650A | * | REG SI | X111 | | |
| KS680A | * | REG SI | X111 | | |
| 700AD | | MAG | IX | | |
| GT701A | * | | X | | |
| P701 | * | | X | | |
| P701A | * | | X | | |
| P7018 | * | | X | | |
| P702 | * | | X | | |
| P702A | * | | X | | |
| 706AU | | MAG | IX | | |
| 707A/B | | KLO | IX | | |
| LO-709A | | OS | VIII | | |
| 714AU | | MAG | IX | | |
| LK-715 | | TV | | 18LK15+ | |
| 720AYE | | MAG | IX | | |
| 723A/8 | | KLO | IX | | |
| 725A | | MAG | IX | | |
| LK-726 | | TV | | 18LK38+ | |
| 726 | | KLO | IX | | |
| LO-729 | | OS | | 8L029+, 38P1A$ | |
| LO-730 | | OS | | 8L030+ | |
| LO-731 | | OS | | 13LM31+ | |
| LO-732 | | OS | | 31LM32+ | |
| LO-733 | | OS | | 31L033+ | |
| LO-734 | | OS | | 23LM34+ | |
| LO-735 | | OS | | 18LM35+ | |
| LO-736 | | OS | | 13L036+ | |
| LO-737 | | OS | | 13L037+ | |
| LO-738 | | OS | | 5L038+, 2AP1$ | |
| LO-739 | | OS | | 8L039+ | |
| LK-740 | | TV | | 18L0408+, 7JP4$ | |
| K-743 | | KLO | IX | | |
| LO-743 | | OD | | 10L043+ | |
| K-744 | | KLO | IX | | |
| K-745 | | KLO | IX | | |
| K-746 | | KLO | IX | | |
| K-747 | | KLO | IX | | |
| LO-747 | | OD | | 18L047+ | |
| LO-748 | | OD | | 13L048+ | |
| LO-749 | | OS | | 13L049+ | |
| GK750 | | TRI SIN | III | | |
| L0751 | | OS | | 23L051+ | |
| LO-754 | | OS | | 13L054+ | |
| K-765 | | KLO | IX | | |
| K-766 | | KLO | IX | | |
| K-767 | | KLO | IX | | |
| K-768 | | KLO | IX | | |
| K-769 | | KLO | IX | | |
| K-770 | | KLO | IX | | |
| K-771 | | KLO | IX | | |
| M800 | | TRI SIN | III | | |
| P800 | | PND SIN | | GU80*+, 0S450= | |
| K-801 | | KLO | IX | | |

| Type No. | | Kind | Type | Group No. | Similar types | COST spec. No. |
|---|---|---|---|---|---|---|
| KT801A | * | | | X | | |
| KT801B | * | | | X | | |
| K-802 | | KLO | | IX | | |
| KT802A | * | | | X | | |
| K-803 | | KLO | | IX | | |
| KT803A | * | | | X | | |
| GT804A | * | | | X | | |
| GT8048 | | | | X | | |
| GT804V | | | | X | | |
| K-804 | | KLO | | IX | | |
| K-805 | | KLO | | IX | | |
| KT805A | * | | | X | | |
| KT805B | * | | | X | | |
| K-806 | | KLO | | IX | | |
| G807 | | 8EA | SIN | III | 807$ | 8380-65 |
| K-807 | | KLO | | IX | | |
| D808 | * | REG | | XIII | | |
| D809 | * | REG | | XIII | | |
| D810 | * | REG | | XIII | | 15953-70 |
| D811 | * | REG | | XIII | 811-A$ | |
| G811 | | TRI | SIN | III | | |
| D813 | * | REG | | XIII | | |
| G-813 | | BEA | SIN | | GU-13+, 813$ | |
| D814-A | * | REG | SI | XIII | | 14913-69 |
| D814-B | * | REG | SI | XIII | | 14913-69 |
| D814-D | * | REG | SI | XIII | | 14913-69 |
| D814-G | * | REG | SI | XIII | | 14913-69 |
| D814-V | * | REG | SI | XIII | | 14913-69 |
| D815A(P) | * | REG | SI | XIII | | |
| D8158(P) | * | REG | SI | XIII | | |
| D815D(P) | * | REG | SI | XIII | | |
| D815G(P) | * | REG | SI | XIII | | |
| D815I | * | REG | SI | XIII | | |
| D815V(P) | * | REG | SI | XIII | | |
| D815YE(P) | * | REG | SI | XIII | | |
| D815ZH(P) | * | REG | SI | XIII | | |
| D816A(P) | * | REG | SI | XIII | | |
| D8168(P) | * | REG | SI | XIII | | |
| D816D(P) | * | REG | SI | XIII | | |
| D816G(P) | * | REG | SI | XIII | | |
| D816V(P) | * | REG | SI | XIII | | |
| D817A(P) | * | REG | SI | XIII | | |
| D817B(P) | * | REG | SI | XIII | | |
| D817G(P) | * | REG | SI | XIII | | |
| D817V(P) | * | REG | SI | XIII | | |
| D818A | * | REG | SI | XIII | | |
| D8188 | * | REG | SI | XIII | | |
| D818D | * | REG | SI | XIII | | |
| D818G | * | REG | SI | XIII | | |
| D818V | * | REG | SI | XIII | | |
| D818YE | * | REG | SI | XIII | | |
| G-827 | | TET | SIN | | GU-27B+, 827R$ | |
| G-829 | | TET | TWN | | GU-29+, 829-B$ | |
| G-832 | | BEA | TWN | | GU-32+, 832A$ | |
| G837 | | PND | SIN | III | 0S12/500=,837$ | |
| G-880 | | TRI | TWN | | GU-12A+, 880$ | |
| TG-884 | | TRI | THY | | TG1-0.1/0.3+, 884* | |
| G889 | | TRI | SIN | III | 889-A$ | |
| G891 | | TRI | SIN | III | 891$ | |
| D901A | * | VAR | SI | XI-D | | 16359-70 |
| D9018 | * | VAR | SI | XI-D | | 16359-70 |
| D901D | * | VAR | SI | XI-D | | 16359-70 |
| D901G | * | VAR | SI | XI-D | | 16359-70 |
| D901V | * | VAR | SI | XI-D | | 16359-70 |
| D901YE | * | VAR | SI | XI-D | | 16359-70 |
| KD901A | * | 1DA | SI | XI-E | | |
| KD901B | * | 2DA | SI | XI-E | | |
| KD901G | * | 4DA | SI | XI-E | | |
| KD901V | * | 3DA | SI | XI-E | | |
| D902 | * | VAR | SI | XI-D | | |

| Type No. | | Kind | Type | Group No. | Similar types | COST spec. No. |
|---|---|---|---|---|---|---|
| KD902D | * | | | XI-E | | |
| KD902I | * | | | XI-E | | |
| KD902YE | * | | | XI-E | | |
| KD902ZH | * | | | XI-E | | |
| KT902A | | | | X | | |
| KD903A | * | | | XI-E | | |
| KD903B | * | | | XI-E | | |
| KT903A | | | | X | | |
| KT903B | * | | | X | | |
| KD904A | * | | | XI-E | | |
| KD904B | * | | | XI-E | | |
| KD904D | * | | | XI-E | | |
| KD904G | * | | | XI-E | | |
| KD904V | * | | | XI-E | | |
| KD904YE | * | | | XI-E | | |
| KD906 | * | | | XI-E | | |
| KD907 | * | | | XI-E | | |
| KD909 | * | | | XI-E | | |
| GD1000 | | TRI | SIN | | G-29+ | |
| GKE1000 | | TET | SIN | III | | |
| M-1000 | | TRI | SIN | | GM-100+ | |
| VGV1000 | | POW | | XII | | |
| VKV1000 | | POW | | XII | | |
| D1001 | | REC | | XI | | |
| D1001A | | REC | | XI | | |
| UV1001 | * | TWT | | IX | | |
| D1002 | | REC | | XI | | |
| D1002A | | REC | | XI | | |
| UV1002 | * | TWT | | IX | | |
| D1003A | | REC | | XI | | |
| UV1003 | * | TWT | | IX | | |
| D1004 | * | SIA | | XI | | 14912-69 |
| UV1004 | * | TWT | | IX | | |
| D1005A | * | SIA | | XI | | 14912-69 |
| D10058 | * | SIA | | XI | | 14912-69 |
| UV1005 | * | TWT | | IX | | |
| D1006 | * | SIA | | XI | | 14912-69 |
| UV1006 | * | TWT | | IX | | |
| D1007 | * | SIA | | XI | | 14912-69 |
| D1008 | * | SIA | | XI | | 14912-69 |
| D1009 | * | SIA | | XI | | |
| D1009A | * | SIA | | XI | | |
| D1010 | * | SIA | | XI | | |
| D1010A | * | SIA | | XI | | |
| D1011A | * | SIA | | XI | | |
| TG1050 | | TRI | THY | | TG2-0.1/0.1+ | |
| IFP1500 | | | | XX | | |
| 1502 | | DIO | SIN | IV | 5TS9S | |
| 1504 | | TRI | SIN | II | | |
| 1506 | | BEA | TWN | II | | |
| 1509 | | BEA | TWN | II | | |
| 1511 | | PND | SIN | II | | |
| 1512 | | PND | SIN | II | 6AG7$ | |
| 1514 | | PND | SIN | II | | |
| 1515 | | 8EA | SIN | II | 6K | |
| 1536 | | DIO | TWN | II | | |
| 1538 | | BEA | SIN | II | | |
| 1539 | | TRI | SIN | II | | |
| 1540 | | 8EA | SIN | II | | |
| 1550 | | DWD | SIN | II | | |
| D1602A | | REC | | XI | | |
| D1602B | | REC | | XI | | |
| D1602V | | REC | | XI | | |
| G1625 | | BEA | SIN | III | 1625$ | |
| GK2000 | | TRI | SIN | III | | |
| IFK2000 | | | | XX | | |
| TG2050 | | TET | THY | | TG1-0.1/1.3+, 2050$ | |
| GK3000 | | TRI | SIN | III | | 7710-55 |
| M-3000 | | TRI | SIN | | GMI-18+ | |
| PI-3000 | | PND | SIN | | GI-8*+ | |

| Type No. | Kind | Type | Group No. | Similar types | GOST spec. No. |
|---|---|---|---|---|---|
| GI-3100 | TRI | SIN | III | | |
| IFP4000 | | | XX | | |
| 4378D | | | XXII | | |
| 4671 | TRI | SIN | | 6S1ZH+ | |
| G-5000 | TRI | TWN | | GS | |
| IFP15000 | | | XX | | |
| IFK20000 | | | XX | | |
| G40011 | TRI | SIN | III | | |
| IFK80000 | | | XX | | |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{g_2}$ V | Typical $E_{g_1}$ V | Typical $I_b$ mA | Typical $I_{g_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06P2B * | PND | SIN | T3F | AF | F | 0.6 | 30 | 35 | 350μ | <0.1 | 30 | 30 | 0 | 90μ | <0.1 | .1 | | 1M | | | | 5CL |
| 06S57A* | TRI | SIN | | | F | 0.6 | 38 | | | | 12 | | <2 | <1 | | <0.2 | 10 | 55k | 0.7 | 1.7 | | T29 |
| 06ZH6B | PND | SIN | T3F | AF | F | 0.6 | 20 | 35 | 350μ | 8M | 30 | 30 | 0 | 150μ | 0.1 | .1 | | 900k | 5.0 | 3.0 | | 5CL |
| 1A1P | PTG | SIN | T6 | | F | 1.2 | 60 | 100 | | 0.3 | 90 | 45 | 0 | <1 | 1.7 | .3 | | 500k | 7.0 | 7.0 | | 7AT |
| 1A2P * | PTG | SIN | T6 | | F | 1.2 | 30 | 90 | 3 | 0.3 | 60 | 45 | 0 | <1 | 1.1 | .2 | | | 5.1 | 6.3 | | 7AT |
| 1B1P | PND | DIO | T6 | | F | 1.2 | 60 | 100 | 4 | 0.2 | 67 | 67 | 0 | 2 | 0.3 | .6 | | 1M | 2.2 | 2.4 | | 6AU |
| 1B2P * | PND | DIO | T6 | | F | 1.2 | 30 | 90 | 2 | 0.1 | 60 | 45 | 0 | 900μ | 0.2 | .5 | | 1M | 1.8 | 2.1 | | 6AU |
| 1E1P * | TET | SIN | T5 | EL | F | 1.0 | 46 | | | | 6 | 4 | 3 | 100μ | 0.4 | <.1 | 1 | | 3.5 | | | TE2 |
| 1E3P | TRI | SIN | | | | 1.3 | 24 | | | | 8 | | 3 | 300μ | | <.1 | 2 | | 3.5 | | | |
| 1F2B | TRI | PND | | | F | 1.2 | 60 | | | | 45 | | 0 | 1 | | 0.4 | | | 2.5 | 1.5 | | |
| 1F2B | PND | TRI | | | F | 1.2 | 60 | | | | 45 | 45 | 0 | <1 | 0.2 | 0.3 | | 600k | 4.0 | 3.5 | | |
| 1I2P | TRI | HEX | | | F | 1.2 | 60 | 90 | 2 | 0.2 | 60 | | 0 | 1 | | 1.0 | 25 | 25k | 0.7 | 3.0 | | PT1 |
| 1I2P | HEX | TRI | | | F | 1.2 | 60 | 90 | 2 | 0.2 | 60 | 45 | 0 | 1 | 0.3 | .2 | | 650k | 3.5 | 4.7 | | PT1 |
| 1K1P | PND | SIN | T6 | | F | 1.2 | 60 | 100 | | 0.6 | 90 | 67 | 0 | 3 | 1.2 | .9 | | 1M | 3.5 | 7.5 | | 6AR |
| 1K2P * | PND | SIN | T6 | | F | 1.2 | 30 | 90 | 3 | 0.3 | 60 | 45 | 0 | 1 | 0.3 | .7 | | 1M | 3.0 | 4.9 | | 6AR |
| 1K12B | PND | SIN | T3B | | F | 1.2 | 60 | 12 | 0 5 | 0.6 | 60 | 40 | 0 | 2 | 0.7 | 1.0 | | 30k | 3.7 | 2.8 | | |
| 1N3S * | TRI | DUO | T10 | | F | 1.2 | 120 | 150 | | 1.0 | 120 | | 5 | <3 | | 1.8 | 11 | 14k | | | | 7AB |
| 1P2B * | PND | SIN | T3F | AF | F | 1.3 | 50 | 50 | | | 45 | 45 | 2 | 1 | 0.5 | .4 | | 50k | 3.0 | 6.0 | | 5CL |
| 1P3B * | PND | SIN | T3F | AF | F | 1.3 | 28 | 50 | | | 45 | 45 | 2 | 1 | 0.3 | .3 | | 50k | 3.0 | 6.0 | | 5CL |
| 1P4B * | PND | SIN | T3F | AF | F | 1.3 | 20 | 50 | <2 | 5.0 | 45 | 45 | 2 | 1 | 0.3 | .3 | | 200k | 3.0 | 6.0 | | 5CL |
| 1P5B * | PND | SIN | T3B | | F | 1.2 | 120 | 150 | 18 | 1.7 | 90 | 90 | <5 | 12 | 1.0 | 1.9 | | 60k | 3.9 | 2.6 | 100 | |
| 1P22B * | PND | SIN | T3B | | F | 1.2 | 115 | 180 | 17 | 2.0 | 90 | 90 | <5 | 13 | 1.0 | 2.8 | | 60k | 6.9 | 4.7 | 100 | |
| 1P24B * | PND | SIN | T3B | | F | 1.2 | 250 | 300 | 25 | 2.5 | 150 | 125 | 14 | 17 | 3.0 | 2.8 | | | 7.1 | 4.0 | 60 | |
| 1P32B * | PND | SIN | T3B | | F | 1.2 | 215 | 200 | 20 | 3.0 | 150 | 150 | 14 | 12 | 1.5 | 2.3 | | | 6.3 | 5.8 | 60 | |
| 1S12P | TRI | SIN | | | F | 1.2 | 30 | 90 | <3 | 0.2 | 60 | | 1 | 1 | | .9 | 16 | 19k | 0.8 | 0.7 | 300 | TS1 |
| 1S38A * | TRI | SIN | | | F | 0.9 | 85 | | | | 70 | | 0 | 2 | | 0.9 | 24 | | 0.9 | 1.2 | | |
| 1TS1S * | DIO | SIN | T10 | | F | 0.7 | 185 | 15k | 5 | 0.5 | | | | <1 | | | | | 2.0 | | | 8HC |
| 1TS7S * | DIO | SIN | T10 | | F | 1.3 | 200 | 30k | 2 | | 100 | | | 4 | | | | | 1.3 | | 3hk | 8HC |
| 1TS11P* | DIO | SIN | T6 | | F | 1.2 | 200 | 20k | 2 | | | | | 300μ | | | | | 1.0 | | | DS3 |
| 1TS20B | DIO | SIN | T3B | | F | 1.0 | 250 | 10k | 300μ | | | | | 135μ | | | | | 0.8 | | | |
| 1TS21P* | DIO | SIN | T7 | | H | 1.4 | 690 | 25k | 40 | | 100 | | | 600μ | | | | | 3.0 | | | DS5 |
| 1YE4A | TRI | SIN | T2B | | F | 1.2 | 25 | 200 | 1 | 0.2 | 150 | | <1 | 900μ | | | | | 1.3 | 1.0 | | T10 |
| 1ZH1ZH | PND | SIN | AC0 | | F | 1.2 | 50 | 145 | | | 135 | 68 | 3 | <2 | 0.4 | .6 | | 800k | 1.8 | 2.5 | | |
| 1ZH2M | PND | SIN | | | F | 1.2 | 30 | | | | 70 | 70 | 0 | 1 | 0.6 | <.5 | | | | | | |
| 1ZH17B* | PND | SIN | T3B | | F | 1.2 | 60 | 90 | 5 | 0.5 | 60 | 40 | 0 | 2 | 0.1 | 1.0 | | 25k | 3.7 | 2.7 | | |
| 1ZH18B* | PND | SIN | T3B | | F | 1.2 | 60 | 90 | 5 | 0.3 | 60 | 40 | 0 | 1 | 0.3 | 1.0 | | 60k | 3.7 | 2.7 | | |
| 1ZH24B* | PND | SIN | T3B | | F | 1.2 | 13 | 120 | <2 | 0.1 | 60 | 45 | 0 | 1 | 0.2 | 0.9 | | 40k | 3.6 | 2.4 | | |
| 1ZH26A | PND | SIN | | | F | 1.4 | 130 | | | | 135 | 70 | <1 | 4 | 0.5 | 1.2 | | | | | | |
| 1ZH29B* | PND | SIN | T3B | | F | 1.2 | 60 | 150 | 8 | 1.2 | 60 | 45 | 0 | 5 | 0.5 | 2.5 | | 35k | 5.0 | 3.0 | | |
| 1ZH30B | PND | SIN | T3B | | F | 1.2 | 15 | 200 | 1 | | 12 | 12 | 0 | 1 | | .8 | | 600 | 8.5 | 3.5 | | |
| 1ZH36B* | PND | SIN | T3B | | F | 1.3 | 75 | 200 | | | 150 | 45 | 1 | 3 | 0.4 | 1.5 | | | 2.2 | 3.0 | | |
| 1ZH37B* | PND | SIN | T3B | | F | 1.2 | 60 | 100 | <5 | | 45 | 45 | 0 | 2 | 0.4 | 1.0 | | 30k | 2.2 | 2.6 | | |
| 1ZH42A* | PND | SIN | T2B | | F | 1.2 | 15 | 20 | 1 | | 6 | 6 | 0 | <1 | 0.2 | 0.5 | | 100k | 10.0 | 3.5 | | |
| GU-2 | BEA | SIN | S18 | | H | 6.3 | 900 | 750 | 120 | 30.0 | 250 | 250 | | | | 10.0 | | | | | 60 | |
| 2A1 | PTG | SIN | | CN | H | 2.0 | 160 | 160 | | 0.7 | 120 | 70 | 4 | 2 | | 0.4 | | 150k | 9.6 | 11.4 | | 8A |
| 2D1L | DWD | SIN | F10 | | H | 2.2 | 130 | | | | 50 | | | 2 | | | | | | | | DW3 |
| 2D1S * | DIO | SIN | LIT | | H | 2.3 | 400 | 100 | 2 | <0.1 | 5 | | | <1 | | | | | | | 3G | D12 |
| 2D2S * | DIO | SIN | F27 | NO | T | 1.5 | 1500 | 200 | 40 | 5.0 | 125 | | | | | | | | | | 3G | |
| 2D3B * | DIO | SIN | T3F | NO | W | 2.2 | 110 | | 110 | | 150 | | | 5 | | | | | 2.4 | | | |
| 2D3S | DIO | SIN | T3F | | H | 2.2 | 110 | | | | 150 | | | | | | | | | | | |
| 2D7S * | DIO | SIN | PEN | NO | W | 1.4 | 212 | 350 | | 6.0 | 300 | | | 3 | | | | | | | | |
| 2D9S * | DIO | SIN | T10 | | W | 3.7 | 550 | 500 | 1 | | | | | | | | | | | | | |
| 2E1 | TET | SIN | | | F | 2.0 | 110 | 160 | | 1.0 | 100 | 40 | 0 | 1 | 0.5 | .9 | | 1M | 9.0 | 9.0 | | TE5 |
| 2E2 | TET | SIN | | | F | 1.8 | 320 | | | 1.5 | 160 | 80 | 2 | 7 | 4.0 | 1.8 | | 300k | 8.3 | 9.0 | | TE6 |
| 2E2P * | TET | DUO | T8 | EL | F | 2.0 | 55 | | | | 6 | 3 | 4 | 45 | | 22 | 1 | | 4.0 | | | TE3 |
| 2K1 | PND | | | | | 2.0 | 120 | 120 | | | 120 | 70 | 1 | <4 | 1.2 | 1.6 | | 750k | | | | |
| 2K1M | PND | SIN | | | F | 2.0 | 120 | | | | 150 | 70 | 1 | 3 | 1.1 | 1.4 | | 1M | | | | 5Y |
| 2K2M | PND | SIN | T9 | | F | 2.0 | 60 | 160 | | 0.5 | 120 | 70 | <1 | 2 | 0.5 | .9 | | 1M | 5.4 | 8.1 | | 5Y |
| 2KH1L * | DWD | SIN | F10 | | H | 2.2 | 130 | | | | 50 | | | 2 | | | | | 2.2 | | | |
| 2N1 | TRI | DUO | | | F | 2.0 | 240 | 160 | | 1.5 | 120 | | 0 | 3 | | 2.1 | 32 | | 2.8 | 5.7 | | 7AB |
| 2P1 | BEA | SIN | | | F | 2.0 | 185 | | | 0.2 | 120 | 120 | 2 | 4 | 0.7 | 1.8 | | 150k | | | | 6X |
| 2P1P * | BEA | SIN | T5 | | F | 1.2 | 120 | 90 | 15 | 0.8 | 90 | 90 | 4 | 10 | 2.2 | 2.0 | | 100k | 5.5 | 4.0 | | 7AV |
| 2P2 | BEA | SIN | | | F | 2.0 | 220 | | | 0.3 | 120 | 100 | 4 | 10 | 1.8 | 2.2 | | 90k | | | | |
| 2P2P * | BEA | SIN | T5 | | F | 1.2 | 60 | 90 | 7 | 0.4 | 60 | 60 | 4 | 3 | 0.8 | 1.1 | | 120k | 3.7 | 3.8 | | 7BA |
| 2P3 | BEA | SIN | | | F | 2.0 | 230 | | | 0.5 | 160 | 120 | 6 | 10 | 1.7 | 2.0 | | 80k | | | | 6X |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{c_2}$ V | Typical $E_{c_1}$ V | Typical $I_b$ mA | Typical $I_{c_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2P5B * | PND | SIN | T3B | | F | 2.4 | 90 | 180 | 25 | 2.3 | 90 | 90 | 4 | 12 | 1.2 | 3.3 | | | 7.1 | 4.7 | 100 | |
| 2P9M | BEA | SIN | T10 | | F | 2.0 | 1000 | 300 | | 8.0 | 250 | 150 | 5 | 35 | 1.5 | 2.5 | | 40k | 8.5 | 8.5 | | 6X |
| 2P19B * | PND | SIN | T3B | | F | 2.2 | 70 | 200 | 15 | 1.0 | 120 | 90 | 5 | 8 | 3.5 | 1.7 | | | 4.5 | 7.0 | | PS6 |
| 2P29L * | PND | SIN | T9 | | F | 2.2 | 120 | 200 | 20 | 2.0 | 160 | 120 | 6 | 10 | 2.0 | 1.9 | | 50k | 4.3 | 5.5 | | PS2 |
| 2P29P * | PND | SIN | T5 | | F | 2.2 | 110 | 200 | 5 | 1.0 | 120 | 45 | 0 | <2 | 0.4 | 1.2 | | 100k | 4.9 | 2.0 | 120 | PS8 |
| 2S1 | TRI | SIN | | | F | 2.0 | 110 | 120 | | 2.0 | 80 | | 0 | <6 | | 1.5 | 14 | 9k | 3.6 | 3.0 | | |
| 2S2 | TRI | SIN | T8 | | F | 2.0 | 120 | 160 | | 0.6 | 120 | | | 1 | | 1.3 | 22 | 17k | 2.8 | 2.7 | | 5S |
| 2S3A * | TRI | SIN | | | F | 2.4 | 120 | | | 1.8 | 65 | | 2 | 10 | | 2.7 | <8 | 28k | 1.6 | 3.1 | | T30 |
| 2S4S * | TRI | SIN | | PA | F | 2.5 | 2500 | 360 | | 15.0 | 300 | | 62 | 40 | | 4.0 | 4 | 800k | 7.5 | 5.5 | | 4D |
| 2S14B * | TRI | SIN | T3F | | F | 2.2 | 60 | 250 | 5 | 0.7 | 90 | | 3 | <4 | | 1.8 | 15 | 8400 | 2.8 | 2.1 | 300 | TS2 |
| 2S49D * | TRI | SIN | LIT | | H | 2.4 | 480 | 300 | 50 | 4.0 | 250 | | 1 | 15 | | 6.0 | 62 | 500M | 3.3 | 0.1 | | |
| 2TS2S * | DIO | SIN | S12 | | H | 2.5 | 1750 | 12k | 65 | | 4k | | | 7 | | | | | | | | 4AC |
| 2VD8 | DIO | SIN | | | | 2.5 | 1750 | 12k | 100 | | | | | | | | | | | | | |
| 2ZH1M | PND | SIN | | | F | 2.0 | 320 | | | 0.5 | 160 | 80 | 2 | 7 | 1.5 | 1.8 | | | | | | PS8 |
| 2ZH2M | PND | SIN | T9 | | F | 2.0 | 60 | 160 | | 0.5 | 120 | 70 | <1 | 2 | 0.5 | .9 | | 1M | 5.4 | 8.1 | | 5Y |
| 2ZH4 | PND | SIN | | | F | 2.0 | 275 | | | 1.2 | 200 | 100 | 7 | 14 | 2.4 | 1.8 | | 110k | | | | PS8 |
| 2ZH14B* | PND | SIN | T3B | | F | 2.2 | 30 | 90 | 5 | 0.5 | 90 | 45 | 0 | 2 | 0.8 | 1.2 | | | 4.5 | 6.0 | | PS6 |
| 2ZH15B* | PND | SIN | T3B | | F | 2.2 | 14 | 200 | 5 | 1.0 | 60 | 45 | 0 | 1 | 0.7 | 0.7 | | | 4.0 | 5.0 | | P4S |
| 2ZH27L* | PND | SIN | F10 | | F | 2.2 | 57 | 200 | 5 | 1.0 | 120 | 45 | 0 | 2 | 0.5 | 1.2 | | 700k | 5.3 | 4.9 | | PS3 |
| 2ZH27P* | PND | SIN | T5 | | F | 2.2 | 57 | 200 | 5 | 1.0 | 120 | 45 | 0 | 1 | 0.5 | 1.0 | | <2M | 4.5 | 2.0 | | PS4 |
| 2ZH28L | PND | SIN | | | F | 2.2 | 28 | | | 1.0 | 120 | 45 | 0 | 2 | 0.5 | 1.2 | | <2M | 5.4 | 4.8 | | PS3 |
| EM-3 | TET | SIN | T16 | | F | 3.0 | 120 | | | | 6 | 4 | 3 | 70μ | 0.4 | 0.1 | 1 | | 5.0 | | | |
| 3A4S | PND | SIN | | | F | 3.2 | 100 | | | | 150 | 90 | 0 | 13 | 2.2 | 1.9 | | | | | | P7S |
| 3B4S | BEA | SIN | T5 | | F | 3.2 | 150 | | | | 180 | 150 | 20 | 30 | 2.5 | 2.4 | | | | | | P8S |
| 3D6A-V* | DIO | SIN | | | H | 3.2 | 32 | 450 | 10 | 0.2 | 165 | | | 35 | | | | | | 3.8 | | D15 |
| 3S1 | TRI | SIN | | | F | 2.5 | 1A | | | | 220 | | 4 | 8 | | 2.2 | 22 | 10k | | | | |
| 3S2 | TRI | SIN | | | F | 2.5 | 1A | | | | 220 | | 10 | 15 | | 2.4 | 11 | 4k | | | | |
| 3S6B-V* | TRI | SIN | | | H | 3.2 | 480 | | | 1.4 | 120 | | | 9 | | 5.3 | 26 | 5k | 3.4 | 3.4 | | T31 |
| 3S7B-V* | TRI | SIN | | | H | 3.2 | 440 | | | 1.4 | 250 | | | <5 | | 4.2 | 70 | 17k | 3.3 | 3.4 | | T31 |
| 3S9 | TRI | SIN | | | F | 2.5 | 1000 | | | 6.0 | 220 | | 10 | 17 | | 2.4 | 11 | | 5.0 | 2.5 | | 4F |
| 3TS16S* | DIO | SIN | T10 | | H | 3.2 | 220 | 35k | 80 | | 120 | | | 1 | | | | | 1.9 | | | 4AC |
| 3TS18P* | DIO | SIN | T6 | | H | 3.2 | 210 | 25k | 15 | | 100 | | | 8 | | | | | 1.5 | | | DS3 |
| 3TS22S* | DIO | SIN | T10 | TV | H | 3.1 | 400 | 36k | 80 | | 30k | | | 2 | | | | | | 2.5 | | D7 |
| 3ZH1BV* | PND | SIN | | | H | 3.2 | 400 | | | 1.2 | 120 | 120 | | <8 | <.4 | 4.8 | | | 4.8 | 4.3 | | |
| 3ZH2BV* | PND | SIN | | | H | 3.2 | 400 | | | 0.9 | 120 | 120 | | <6 | <.6 | 3.8 | | | 4.9 | 4.1 | | PS5 |
| EM4 * | TRI | SIN | T6 | EL | F | 1.3 | 24 | 10 | 500μ | | 8 | | 3 | 300μ | | <.1 | 2 | | 3.5 | | | |
| 4D5S | DIO | SIN | T4 | | H | 4.0 | 240 | | | | 10 | | | 5 | | | | | | | | D12 |
| 4D17P | DIO | SIN | | | F | 4.0 | 1750 | 200 | 16 | 1.0 | 60 | | | 7 | | | | | | | | D10 |
| 4E1 | TET | SIN | | | F | 4.0 | 75 | 200 | | 2.0 | 160 | 80 | 0 | 3 | | .8 | 350 | | 8.0 | 6.3 | | TE5 |
| 4E2 | TET | SIN | | | F | 4.0 | 150 | 200 | | 2.0 | 160 | 80 | 0 | <8 | | 1.8 | 400 | | 10.5 | 8.0 | | TE5 |
| 4E3 | TET | SIN | | | H | 4.0 | 1000 | 250 | | | 160 | 60 | 1 | 8 | 1.5 | 3.0 | | 200k | 6.5 | 4.5 | | |
| 4F6S | BEA | SIN | | PA | H | 4.0 | 1100 | | | 10.0 | 250 | | 16 | 34 | 6.0 | 2.5 | 200 | 80k | | | | |
| 4N1 | TRI | DUO | | | F | 4.0 | 2A | | | 6.0 | 120 | | 0 | 30 | 3.2 | | | | | | | |
| 4P1 | PND | SIN | | | | 4.0 | 1A | | | | 240 | 140 | 11 | 22 | 6.0 | 2.1 | | | | | | |
| 4P1L * | PND | SIN | T10 | | F | 4.2 | 325 | 250 | 50 | 7.5 | 200 | 150 | 20 | 50 | 10.0 | 6.0 | | 30k | 8.5 | 9.4 | 100 | PS2 |
| 4P10S | PND | SIN | | | | 4.0 | 1750 | | | | 315 | 210 | 7 | 63 | 1.4 | 8.5 | | | | | | |
| 4S1 | TRI | SIN | | | F | 4.0 | 70 | | | | 120 | | 0 | 8 | | 1.3 | 11 | 8k | | | | |
| 4S2 | TRI | SIN | | | F | 4.0 | 70 | | | | 160 | | 0 | 4 | | 1.3 | 25 | 18k | | | | |
| 4S3 | TRI | SIN | | | F | 4.0 | 155 | 200 | | 3.0 | 160 | | 6 | 15 | | 2.1 | 9 | | 3.8 | 2.4 | | |
| 4S3S | TRI | SIN | F9 | | H | 4.4 | 330 | 300 | 30 | 5.0 | 100 | | 4 | 27 | | 3.0 | 12 | 4200 | 1.5 | 0.6 | 1k | TS3 |
| 4S4 | TRI | SIN | | | F | 4.0 | 1A | | | 15.0 | 250 | | 37 | 57 | | 3.2 | 4 | 1k | | | | |
| 4S5 | TRI | SIN | | | H | 4.0 | 1A | | | | 240 | | 3 | 6 | | 1.7 | 32 | 20k | | | | |
| 4TS6S * | DIO | SIN | S10 | | W | 4.0 | 1750 | | | 1.0 | 50 | | | 7 | | | | | | | | DS4 |
| 4TS14S* | DIO | SIN | T11 | | W | 4.0 | 1750 | 60 | 20 | 1.2 | 60 | | | 7 | | | | | | | | DS4 |
| 4VD1 | DIO | SIN | | | F | 4.0 | 700 | | | | 350 | | | 50 | | | | | | | | |
| 4VKH1 | DIO | TWN | | | F | 4.0 | 2300 | 1k | 560 | | | | | | | | | | | | | |
| 4VKH2 | DIO | SIN | | | | 4.0 | 2000 | <2k | 1200 | | | | | | | | | | | | | |
| 4ZH1L * | PND | SIN | F10 | | H | 4.2 | 225 | 250 | 11 | 0.5 | 150 | 75 | 0 | 7 | 1.5 | 1.5 | | 1M | 4.0 | 4.2 | 200 | PS1 |
| 4ZH1P | PND | SIN | F10 | | H | 4.2 | 225 | 250 | 11 | 2.0 | 150 | 75 | 0 | 7 | | | | | | | | |
| 4ZH5 | TET | SIN | | | H | 4.0 | 1000 | 250 | | | 120 | 40 | 1 | <3 | 1.7 | 1.3 | | 770k | 14.0 | 4.5 | | |
| 4ZH5S | PND | SIN | | RF | H | 4.0 | 1000 | | | | 160 | 60 | | 5 | 3.5 | 2.0 | | | 11.0 | 4.5 | | |
| EM-5 * | TET | DBA | T7 | EL | H | 3.1 | 115 | 5 | | | 5 | | 3 | 85μ | | <0.1 | 1 | | 1.6 | | | T2E |
| GP-5 * | TRI | SIN | T15 | TV | H | 6.3 | 210 | 30k | 2 | | | | 7 | <2 | | 0.6 | | | 1.5 | 4.0 | | T4S |
| 5TS3S * | DWD | SIN | S16 | | F | 5.0 | 3000 | 17k | 750 | | 500 | | | 125 | | | | | | | | DW1 |
| 5TS4M * | DIO | DUO | T11 | | H | 5.0 | 2000 | 15k | 415 | | 400 | | | 133 | | | | | | | | DW4 |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{c_2}$ V | Typical $E_{c_1}$ V | Typical $I_b$ mA | Typical $I_{c_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5TS4S * | DIO | DUO | S14 | | H | 5.0 | 2000 | 13h | 375 | | 500 | | | 62 | | | | | | | | DW4 |
| 5TS8S * | DWD | SIN | T17 | | H | 5.0 | 5000 | 17h | 1200 | 30.0 | 500 | | | 400 | | | | | | | | DW2 |
| 5TS9S * | DWD | SIN | F13 | | H | 5.0 | 3000 | 17h | 600 | 12.0 | 500 | | | 190 | | | | | | | | DW2 |
| 5TS9SE | DWD | SIN | F13 | | H | 5.0 | 3000 | <2k | 600 | 12.0 | 500 | | | 190 | | | | | | | | DW2 |
| 5TS12P* | DIO | SIN | T7 | | H | 5.0 | 870 | 5k | 350 | 5.0 | 2k | | | 50 | | | | | | | | DS1 |
| 5VKH2 | DWD | SIN | | | | 5.0 | 2000 | 14h | 375 | | | | | | | | | | | | | |
| 5VKH3 | DWD | SIN | | | | 5.0 | 3000 | 15h | 675 | | | | | | | | | | | | | |
| EM-6 * | TET | DBA | T6 | EL | H | 4.5 | 75 | 5 | | | 5 | | 3 | 70μ | | <0.1 | 1 | | 1.8 | | | T2E |
| SG6S | REG | TRI | T12 | | | 6.3 | 825 | 25k | 300μ | | 20k | | 150 | 100μ | | | | | | | | D8 |
| 6A2P * | PTG | SIN | T5 | CN | H | 6.3 | 300 | 330 | 14 | 1.1 | 250 | 100 | <2 | 3 | 1.0 | .3 | | 100k | | | | 7CH |
| 6A3P * | GTA | SIN | T6 | CN | H | 6.3 | 300 | 150 | 20 | 1.2 | 75 | 75 | 4 | <5 | 7.0 | 1.2 | | | 4.7 | 4.0 | | 7DF |
| 6A4P * | PTG | DBA | T7 | CN | H | 6.3 | 440 | 250 | 20 | 2.0 | 200 | 100 | | 34 | 26.0 | 16.0 | | | 10.5 | 2.8 | | P35 |
| 6A7 * | PTG | SIN | M8 | CN | H | 6.3 | 300 | 300 | 15 | 1.1 | 250 | 100 | 0 | 4 | 8.5 | .4 | | 500k | 9.5 | 12.0 | | 8R |
| 6A8 | PTG | SIN | M11 | CN | H | 6.3 | 300 | 330 | 15 | 1.0 | 250 | 100 | 0 | 4 | 2.7 | .5 | | 360k | 12.5 | 12.5 | | 8A |
| 6A10S | PTG | SIN | M11 | CN | H | 6.3 | 300 | 330 | 15 | 1.1 | 250 | 100 | 0 | 4 | 9.0 | .4 | | 1M | 9.0 | 10.0 | | 8R |
| 6B1P * | DIO | PND | T7 | | H | 6.3 | 400 | | | | 150 | | | 15 | | | | | 9.0 | 4.0 | | PS5 |
| 6B1P * | PND | DIO | T7 | | H | 6.3 | 400 | | | 1.1 | 250 | 250 | 2 | 26 | 2.7 | 29.0 | | | 9.0 | 4.0 | | PS5 |
| 6B2P * | PND | DIO | T7 | RF | H | 6.3 | 300 | | | 2.1 | 250 | 100 | 1 | 6 | 1.6 | 2.7 | | 700k | 4.2 | 4.1 | | PS5 |
| 6B8 * | PND | DWD | M10 | | H | 6.3 | 300 | 275 | | | 250 | 125 | 3 | 10 | 2.4 | 1.6 | | 750k | 5.7 | 7.5 | | 8E |
| 6B8S | PND | DWD | S12 | RF | H | 6.3 | 300 | 275 | | 2.5 | 250 | 125 | 3 | 10 | 2.4 | 1.3 | | 600k | 4.0 | 9.0 | | 8E |
| 6D3D * | DIO | SIN | LIT | | H | 6.3 | 770 | 200 | 150 | | 7 | | | 27 | | | | | | | 3G | DS2 |
| 6D4ZH * | DIO | SIN | AC0 | | H | 6.3 | 150 | 365 | 30 | | 165 | | | 5 | | | | | 0.9 | | | 4G |
| 6D6A * | DIO | SIN | T2F | | H | 6.3 | 150 | 450 | 70 | 0.2 | 165 | | | 8 | | | | | 3.0 | | 700 | |
| 6D8D * | DIO | SIN | PEN | | H | 6.3 | 450 | 450 | | <0.1 | 150 | | | <4 | | | | | | | 5G | |
| 6D10D * | DIO | SIN | PEN | | H | 6.3 | 750 | 100 | 30 | 0.5 | 100 | | | 10 | | | | | 3.5 | | | |
| 6D13D * | DIO | SIN | PEN | | H | 6.3 | 210 | 450 | | 1.0 | 150 | | | 150μ | | | | | 0.8 | | 48h | |
| 6D14P * | DIO | SIN | T22 | | H | 6.3 | 1100 | 56h | 600 | 4.5 | 20 | | | 175 | | | | | 10.0 | | | 9CB |
| 6D15D | DIO | SIN | LIT | | H | 6.3 | 330 | 200 | 750 | 0.5 | | | | | | | | | 1.2 | | | |
| 6D16D | DIO | SIN | LIT | | H | 6.3 | 240 | 450 | 2000 | 1.0 | 100 | | | 14 | | | | | 2.0 | | 3G | DS9 |
| 6D20P * | DIO | SIN | T7 | | H | 6.3 | 1800 | 6k | 600 | 5.0 | | | | 220 | | | | | 9.0 | | | 9BD |
| 6D22S | DIO | SIN | TI0 | TV | H | 6.3 | 1900 | 6k | 1000 | 8.0 | | | | 300 | | | | | | 12.0 | | D9 |
| 6E5P * | TET | SIN | T6 | | H | 6.3 | 600 | 150 | 70 | 8.3 | 150 | 150 | 2 | 45 | 14.0 | 30.5 | | 8k | 15.0 | 2.6 | | TE1 |
| 6E6P * | TET | SIN | | CN | H | 6.3 | 600 | | | 8.4 | 150 | 150 | | 44 | 10.0 | 30.5 | | 15k | 15.0 | 5.8 | | 9EQ |
| 6E6P-YE | TET | SIN | T7 | | H | 6.3 | 600 | 150 | 70 | 8.3 | 150 | 150 | 2 | 44 | 10.0 | 29.5 | | 15k | 15.0 | 2.7 | | TIE |
| 6E7P * | TET | SIN | T7 | CN | H | 6.3 | 750 | 5k | 10 | 10.0 | 5k | 25 | 2 | 2 | 0.1 | 1.6 | 2k | | 5.6 | 1.1 | | TE9 |
| 6E12N * | TET | SIN | NUV | CN | H | 6.3 | 130 | 250 | 20 | 2.2 | 125 | 50 | | 10 | 3.6 | 10.0 | | | 7.1 | 1.6 | | TE8 |
| 6E13N * | TET | SIN | | | H | 6.3 | 140 | | | 2.0 | 27 | 27 | | 7 | 3.6 | 8.5 | | | 7.0 | 1.9 | | T3E |
| 6E14N * | TET | SIN | | | H | 6.3 | 140 | | | 2.2 | 27 | 27 | | 7 | 3.6 | 10.0 | | 100k | 7.0 | 1.5 | | T3E |
| 6F1P * | TRI | PND | T7 | | H | 6.3 | 430 | 250 | 14 | 1.5 | 100 | | 2 | 13 | | 5.0 | 20 | 4k | 2.5 | 0.3 | | 9AE |
| 6F1P * | PND | TRI | T7 | | H | 6.3 | 430 | 250 | 14 | 2.5 | 250 | 170 | 2 | 10 | 4.0 | 6.2 | | 400k | 5.5 | 3.4 | | 9AE |
| 6F3P * | TRI | PND | T7 | | H | 6.3 | 850 | 250 | 15 | 1.0 | 170 | | 1 | 2 | | 2.5 | 75 | 28k | 2.2 | 0.4 | | PT5 |
| 6F3P * | PND | TRI | T7 | | H | 6.3 | 850 | 275 | 60 | 8.0 | 170 | 170 | 11 | 41 | 14.0 | 7.0 | | 15k | 9.3 | 8.5 | | PT5 |
| 6F4P * | PND | TRI | T6 | | H | 6.3 | 720 | 250 | 40 | 4.0 | 170 | 170 | 2 | 18 | 7.0 | 11.0 | | 100k | 9.5 | 4.0 | | PT4 |
| 6F4P * | TRI | PND | T6 | | H | 6.3 | 720 | 250 | 12 | 1.0 | 200 | | 2 | 3 | | 4.0 | 65 | 16k | 4.0 | 0.6 | | PT4 |
| 6F5M | TRI | SIN | T10 | | H | 6.3 | 300 | 350 | | 4.0 | 250 | | 2 | 1 | | 2.0 | 100 | | | | | 5M |
| 6F5P * | TRI | PND | T7 | | H | 6.3 | 900 | 250 | 15 | 0.5 | 100 | | | 5 | | 7.0 | 70 | 10k | 3.5 | 0.3 | | PT6 |
| 6F5P * | PND | TRI | T7 | | H | 6.3 | 900 | 300 | | 9.0 | 185 | 185 | | 41 | 2.7 | 7.5 | | 23k | 11.7 | 8.8 | | PT6 |
| 6F5S | TRI | SIN | T5 | | H | 6.3 | 325 | | | 1.3 | 250 | | 2 | <2 | | 2.0 | | | | | | |
| 6F6M1 | PND | SIN | T11 | | H | 6.3 | 700 | | | | 250 | 250 | <17 | 46 | | 2.9 | | | | | | 7S |
| 6F6S | PND | SIN | S14 | PA | H | 6.3 | 700 | 375 | | 11.0 | 250 | 250 | 16 | 34 | 6.5 | 2.5 | | | 7.5 | 11.0 | | 7S |
| 6F7 | TRI | PND | M11 | | H | 6.3 | 300 | 110 | | 0.5 | 100 | | 3 | 3 | | .5 | 70 | | | | | PT2 |
| 6F7 | PND | TRI | M11 | | H | 6.3 | 300 | 275 | | 2.2 | 250 | 100 | 3 | 7 | 1.6 | 1.1 | | | | | | PT2 |
| 6F9P * | TRI | PND | | | H | 6.3 | 410 | | | | 150 | | | 9 | | 14.0 | | | 3.5 | 1.8 | 250 | PT8 |
| 6F9P * | PND | TRI | | | H | 6.3 | 410 | | | | 150 | 120 | | <11 | 2.9 | 13.5 | | | 5.7 | 3.4 | 250 | PT8 |
| 6F12P | TRI | PND | T7 | | H | 6.3 | 360 | 250 | 22 | 3.5 | 150 | | | 13 | | 20 | | | 3.6 | 0.8 | | PT7 |
| 6F12P | PND | TRI | T7 | | H | 6.3 | 360 | 300 | 22 | 5.0 | 150 | 150 | | 13 | 2.2 | 20 | | | 5.7 | 1.7 | | PT7 |
| 6G1 * | TRI | DWD | M10 | | H | 6.3 | 300 | 275 | | 2.7 | 250 | | 9 | 9 | | 1.9 | 16 | 8500 | 3.6 | 2.8 | | 8Q |
| 6G2 * | TRI | DWD | M10 | | H | 6.3 | 300 | 330 | | 0.9 | 250 | | 2 | 1 | | 1.1 | 100 | 91k | 3.2 | 3.0 | | 8Q |
| 6G2P-K | TRI | DWD | T6 | | H | 6.3 | 300 | | | | 250 | | 2 | 1 | | 1.8 | 100 | | | | | |
| 6G3P | TRD | TRI | T6 | | H | 6.3 | 450 | 350 | 75 | | | | | 10 | | | | | | | | TT1 |
| 6G3P | TRI | TRD | T6 | | H | 6.3 | 450 | 300 | | 1.0 | 250 | | 3 | 1 | | 1.3 | 63 | 48k | 2.0 | 1.2 | | TT1 |
| 6G7 * | TRI | DWD | M10 | | H | 6.3 | 300 | 330 | 1 | 1.0 | 250 | | 3 | 1 | | 1.3 | 70 | 54k | 5.0 | 3.8 | | TD3 |
| 6I1P * | PTG | TRI | T60 | | H | 6.3 | 300 | 300 | 12 | 1.7 | 250 | 100 | 2 | 38 | 6.5 | .8 | | 1M | 5.1 | 7.4 | | 9CA |
| 6I1P * | TRI | PTG | T60 | | H | 6.3 | 300 | 250 | 6 | 0.8 | 100 | | 2 | 7 | | 2.2 | 23 | 6k | 2.6 | 2.0 | | 9CA |
| 6I3P | TRI | PTG | T6 | | H | 6.3 | 300 | 250 | 10 | 1.0 | 100 | | 2 | <7 | | 2.7 | 20 | | 2.6 | 2.0 | | 9CA |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ | $I_f$ | Maximum | | | Typical | | | | | | | Capacity | | $f_{max}$ | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | V | mA | $E_b$ V | $I_b$ mA | $P_p$ W | $E_b$ V | $E_{g2}$ V | $E_{g1}$ V | $I_b$ mA | $I_{g2}$ mA | Sm mmho | $\mu$ | $R_p$ Ω | In pF | Out pF | MHz | |
| 6I3P | | PTG | TRI | T6 | | H | 6.3 | 300 | 300 | 12 | 1.9 | 250 | 100 | 2 | 5 | 2.8 | 2.5 | | 700k | 5.1 | 7.4 | | 9CA |
| 6I14P | | TRI | PTG | T6 | | H | 6.3 | 300 | 250 | 12 | 0.8 | 100 | | | 11 | | 4.0 | 23 | 6k | 2.6 | 2.0 | | 9CA |
| 6I14P | | PTG | TRI | T6 | | H | 6.3 | 300 | 300 | 6 | 1.7 | 250 | 100 | 2 | 7 | 3.5 | .8 | | 1M | 5.1 | 7.4 | | 9CA |
| 6K1B | * | PND | SIN | T3 | | H | 6.3 | 200 | 150 | 15 | 1.2 | 120 | 120 | | 8 | 4.0 | 4.8 | | | 5.1 | 3.8 | | |
| 6K1L | | PND | SIN | F11 | | H | 6.3 | 150 | | | 1.0 | 150 | 75 | 2 | 3 | 0.9 | 1.3 | | 700k | 3.8 | 4.2 | | PS1 |
| 6K1P | * | PND | SIN | T5 | | H | 6.3 | 150 | 275 | | 1.8 | 250 | 100 | 3 | 6 | 2.7 | 1.8 | | 400k | 3.4 | 3.0 | | 7CM |
| 6K1ZH | * | PND | SIN | AC0 | | H | 6.3 | 150 | 275 | | 1.8 | 250 | 100 | 3 | 7 | 2.7 | 1.8 | | 400k | 3.0 | 3.0 | | |
| 6K3 | * | PND | SIN | M8 | | H | 6.3 | 300 | 330 | | 4.4 | 250 | 100 | 3 | 9 | 2.5 | 2.0 | | 800k | 6.0 | 7.0 | | 8N |
| 6K4 | * | PND | SIN | M8 | | H | 6.3 | 300 | 330 | | 3.3 | 250 | 125 | 1 | 12 | 4.4 | 4.7 | | 900k | 8.5 | 7.0 | | 8BK |
| 6K4P | * | PND | SIN | T6 | | H | 6.3 | 300 | 300 | 20 | 3.0 | 250 | 100 | 1 | 11 | 3.7 | 4.4 | | 800k | 6.5 | 5.5 | | 7BD |
| 6K6A | * | PND | SIN | T2B | | H | 6.3 | 127 | 150 | 15 | 1.3 | 120 | 100 | | 9 | 4.0 | 4.5 | | | 2.8 | 2.5 | | P28 |
| 6K7 | | PND | SIN | M10 | | H | 6.3 | 300 | 330 | | 3.0 | 250 | 100 | 3 | 7 | 1.7 | 1.6 | | 830k | 7.0 | 12.0 | | 7R |
| 6K8B | | PND | SIN | T6 | | H | 6.3 | 300 | 30 | 15 | 0.5 | 25 | 12 | | <4 | 4.2 | 1.0 | | 12k | 6.7 | 4.1 | | 7BD |
| 6K8P | | PND | SIN | | RF | H | 6.3 | 300 | | | 0.5 | 13 | 3 | | 900μ | 0.2 | 1.1 | | 190k | 6.7 | 4.1 | | 6CC |
| 6K9S | | PND | SIN | M10 | | H | 6.3 | 300 | 330 | | 4.4 | 250 | 100 | 3 | 9 | 2.5 | 2.0 | | 800k | 4.8 | 11.0 | | 7R |
| 6K11B–K | | PND | SIN | T3B | | H | 6.3 | 200 | 150 | 15 | 1.2 | 120 | 120 | | 8 | 4.0 | 4.8 | | | 3.9 | 2.8 | | P29 |
| 6K13P | * | PND | SIN | T7 | | H | 6.3 | 300 | 250 | 20 | 2.5 | 200 | 90 | | 12 | 4.5 | 12.5 | | 500k | 11.7 | 3.9 | | P20 |
| 6K14B | | PND | SIN | T3B | RF | H | 6.3 | 120 | | | | 50 | 50 | 1 | 6 | 1.5 | 5.0 | | | 6.1 | 2.1 | | P26 |
| 6K14B–V | | PND | SIN | T3B | RF | H | 6.3 | 125 | 150 | 10 | 0.5 | 50 | 50 | 1 | <6 | 1.5 | 5.0 | | | 6.1 | 2.1 | | P26 |
| 6KH2P | * | DIO | TWN | T6 | | H | 6.3 | 300 | 450 | 90 | 0.5 | 150 | | | 35 | | | | | 3.8 | | 600 | 6BT |
| 6KH6B | | DIO | TWN | | | H | 6.3 | 300 | 100 | 4 | | | | | | | | | | | | | DW9 |
| 6KH6S | * | DIO | TWN | T9 | | H | 6.3 | 300 | 465 | 50 | | 165 | | | 16 | | | | | 4.0 | | | 8AN |
| 6KH7B | * | DIO | TWN | T3B | | H | 6.3 | 300 | 450 | 70 | 0.2 | 165 | | | 10 | | | | | 5.8 | | | DW5 |
| 6LIP | * | HPT | SIN | T6B | | H | 6.3 | 320 | 300 | | 3.0 | 150 | 150 | 0 | <16 | 5.0 | | | | 3.5 | 2.6 | | P37 |
| 6L7 | | PTG | SIN | M11 | MX | H | 6.3 | 300 | 330 | | 1.5 | 250 | 100 | 3 | 5 | 6.6 | 1.1 | | 1M | 7.5 | 11.0 | | 7T |
| 6N1P | * | TRI | TWN | T6 | | H | 6.3 | 600 | 300 | 25 | 2.2 | 250 | | 4 | 8 | | 4.3 | 35 | 11k | 3.1 | 1.8 | | 9AJ |
| 6N2P | * | TRI | TWN | T6 | | H | 6.3 | 340 | 300 | 10 | 1.0 | 250 | | 1 | 2 | | 2.1 | 98 | 47k | 2.4 | 3.0 | | 9AJ |
| 6N3P | * | TRI | TWN | T6 | | H | 6.3 | 350 | 300 | 18 | 1.5 | 150 | | 2 | 8 | | 5.9 | 37 | 6k | 2.7 | 1.4 | | 8CJ |
| 6N4P | | TRI | TWN | T6 | | H | 6.3 | 300 | 300 | 10 | 1.5 | 250 | | 4 | 3 | | 1.7 | 47 | 23k | 1.5 | 1.6 | | 9AJ |
| 6N5P | * | TRI | TWN | T6 | | H | 6.3 | 600 | 300 | 25 | 2.2 | 200 | | 5 | 8 | | 4.2 | 27 | 6500 | 3.0 | 1.7 | | 9AJ |
| 6N5S | * | TRI | TWN | S16 | PA | H | 6.3 | 2500 | 250 | 125 | 13.0 | 90 | | 30 | 62 | | 5.0 | 3 | 460 | 9.5 | 5.0 | | 8BD |
| 6N6P | * | TRI | TWN | T7 | | H | 6.3 | 750 | 300 | 45 | 4.8 | 120 | | 2 | 30 | | 10.5 | 20 | 1800 | 4.4 | 1.9 | | 9AJ |
| 6N7 | | TRI | TWN | M9 | | H | 6.3 | 800 | 300 | | 1.0 | 250 | | | 7 | | 2.0 | 32 | 16k | | | | |
| 6N7S | * | TRI | DUO | T9 | | H | 6.3 | 810 | 300 | | 4.2 | 250 | | 6 | 7 | | 3.2 | 35 | 11k | 1.6 | 3.2 | | 8B |
| 6N8S | * | TRI | TWN | T10 | | H | 6.3 | 600 | 330 | 20 | 2.7 | 250 | | 8 | 9 | | 2.6 | 20 | 8k | 2.8 | 3.8 | | 8BD |
| 6N9S | * | TRI | TWN | T10 | | H | 6.3 | 300 | 275 | | 1.1 | 250 | | 2 | 2 | | 1.6 | 70 | 44k | 3.0 | 2.8 | | 8BD |
| 6N10S | | TRI | DUO | T11 | | H | 6.3 | 300 | 275 | | 11.0 | 250 | | 2 | 2 | | 1.3 | 70 | 54k | 1.4 | 0.2 | | 8S |
| 6N12S | * | TRI | TWN | T11 | | H | 6.3 | 900 | 300 | 34 | 4.2 | 180 | | 7 | 23 | | 6.4 | 17 | 2700 | | | | 8BD |
| 6N13S | * | TRI | TWN | S16 | | H | 6.3 | 2500 | 250 | 130 | 13.0 | 90 | | 30 | 80 | | 5.0 | 2 | 460 | 7.0 | 9.0 | | 8BD |
| 6N14P | * | TRI | TWN | T6 | | H | 6.3 | 350 | 300 | 22 | 1.5 | 90 | | 1 | 10 | | 6.8 | 25 | 3200 | 4.9 | 2.9 | | 9DD |
| 6N15 | | TRI | TWN | | | H | 6.3 | 450 | | | | 100 | | | 9 | | 5.6 | 38 | | | | | |
| 6N15P | * | TRI | TWN | T5 | | H | 6.3 | 450 | 330 | 40 | 1.6 | 100 | | <1 | 9 | | 5.6 | 38 | 6800 | 2.3 | 0.5 | | 7BF |
| 6N16B | * | TRI | TWN | T3B | | H | 6.3 | 400 | 200 | 14 | 0.9 | 100 | | 2 | 6 | | 5.0 | 25 | 5k | 2.5 | 1.6 | | TD1 |
| 6N17B | * | TRI | TWN | T3B | | H | 6.3 | 400 | 250 | 10 | 0.9 | 200 | | 1 | 3 | | 3.8 | 75 | 20k | 2.8 | 1.5 | | TD1 |
| 6N18B | * | TRI | TWN | T3B | | H | 6.3 | 330 | 200 | 14 | 0.9 | 100 | | | 6 | | 5.0 | 25 | 325k | 2.6 | 1.5 | | TD1 |
| 6N19P | * | TET | TWN | T7 | | H | 6.3 | 650 | 250 | 50 | 2.0 | 150 | | | 14 | | 13.5 | | 25k | 3.8 | 1.2 | | |
| 6N21B | * | TRI | TWN | T3 | | H | 6.3 | 395 | 250 | | 1.0 | 200 | | | <4 | | 3.8 | 82 | | 2.8 | 0.6 | | T21 |
| 6N23P | * | TRI | TWN | T7 | | H | 6.3 | 300 | 300 | 20 | 1.8 | 120 | | | 15 | | 12.7 | 32 | | 3.6 | 2.1 | | 9AJ |
| 6N24P | * | TRI | TWN | T7 | | H | 6.3 | 300 | 300 | 20 | 1.8 | 90 | | 9 | 15 | | 12.5 | 33 | | 6.3 | 3.2 | | 9DD |
| 6N25G | * | TET | TWN | T4B | | H | 6.3 | 350 | 200 | 30 | 1.2 | 75 | | | <10 | | 1.5 | 18 | | 1.1 | 0.7 | | T20 |
| 6N26P | * | TRI | TWN | T6 | | H | 6.3 | 600 | 250 | 30 | 2.6 | 150 | | | 14 | | 9.5 | 48 | 5k | 4.0 | 2.2 | | 8CJ |
| 6N27P | * | TRI | TWN | T6B | | H | 6.3 | 330 | 30 | 20 | 0.6 | 25 | | 0 | 8 | | 8.0 | 16 | | 3.0 | 2.0 | | 9AJ |
| 6N28B | | TRI | TWN | | RF | H | 6.3 | 200 | | | 0.9 | 50 | | 1 | 7 | | 6.8 | 25 | | 3.0 | 2.3 | | T19 |
| 6N28B–V | | TRI | TWN | T3B | | H | 6.3 | 245 | 150 | 10 | 0.9 | 50 | | 1 | 7 | | 6.7 | 24 | | 2.6 | 1.8 | | T19 |
| 6P1P | * | BEA | SIN | T7 | | H | 6.3 | 500 | 250 | 70 | 12.0 | 250 | 250 | 12 | 44 | 7.0 | 4.9 | | 50k | 7.8 | 5.7 | | PS9 |
| 6P2P | | PND | SIN | | | | 6.3 | 450 | | | | 120 | 120 | 5 | 35 | 12.0 | 8.0 | | | | | | 6CC |
| 6P3S | * | BEA | SIN | T14 | | H | 6.3 | 900 | 400 | 90 | 20.0 | 250 | 250 | 14 | 72 | 8.0 | 6.0 | | 22k | 11.0 | 8.2 | | 7S |
| 6P4 | | PND | SIN | | | H | 6.3 | 300 | | | | 180 | 180 | 9 | 15 | | 2.3 | | | 5.5 | 7.0 | | |
| 6P6B | | PND | SIN | | | H | 6.3 | 700 | 375 | | | 250 | 250 | 16 | 34 | 6.5 | 1.5 | | | 6.0 | 12.0 | | 7S |
| 6P6S | * | BEA | SIN | T9 | PA | H | 6.3 | 450 | 350 | 100 | 13.2 | 250 | 250 | 12 | 46 | 7.5 | 4.1 | | 52k | 9.5 | 9.5 | | 7S |
| 6P7S | * | BEA | SIN | T16 | | H | 6.3 | 900 | 6k | 100 | 20.0 | 250 | 250 | 14 | 72 | 8.0 | 5.9 | | 32k | 11.5 | 6.0 | | 5BT |
| 6P8S | | PND | SIN | T11 | | H | 6.3 | 300 | | | | 180 | 180 | 9 | 15 | | 2.4 | | | | | | 7S |
| 6P9 | * | BEA | SIN | M10 | PA | H | 6.3 | 650 | 330 | | 9.0 | 300 | 150 | 3 | 30 | 6.5 | 11.7 | | 80k | 13.0 | 7.5 | | 8Y |
| 6P9E | | BEA | SIN | M10 | PA | H | 6.3 | 560 | 330 | | 9.0 | 300 | 150 | 3 | 25 | 5.8 | 11.2 | | 100k | | | | 8Y |
| 6P13S | * | BEA | SIN | T10 | | H | 6.3 | 1300 | 450 | 130 | 14.0 | 200 | 200 | 19 | 60 | 8.0 | 9.5 | | 25k | 14.0 | 18.0 | | 5BT |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ | $I_f$ | Maximum | | | Typical | | | | | | | Capacity | | $f_{max}$ | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | V | mA | $E_b$ V | $I_b$ mA | $P_p$ W | $E_b$ V | $E_{g2}$ V | $E_{g1}$ V | $I_b$ mA | $I_{g2}$ mA | Sm mmho | $\mu$ | $R_p$ Ω | In pF | Out pF | MHz | |
| 6P14P * | BEA | SIN | T6 | | H | 6.3 | 760 | 300 | 66 | 12.0 | 250 | 250 | 6 | 48 | 7.0 | 11.3 | | 20k | 11.0 | 7.0 | | 9CV |
| 6P15P * | BEA | SIN | T6 | | H | 6.3 | 760 | 330 | 90 | 12.0 | 300 | 150 | 2 | 30 | 4.5 | 14.7 | | 100k | 14.0 | 7.0 | | P1S |
| 6P17S | BEA | SIN | | | H | 6.3 | 900 | 500 | | 20.0 | 250 | 250 | 14 | 72 | 8.0 | 5.9 | | 32k | 11.5 | 6.0 | | |
| 6P18P * | BEA | SIN | T6 | | H | 6.3 | 760 | 250 | 75 | 12.0 | 170 | 170 | 6 | 53 | 8.0 | 11.0 | | 23k | 11.5 | 6.0 | | 9CV |
| 6P20S * | BEA | SIN | S16 | | H | 6.3 | 2500 | 450 | 200 | 27.0 | 175 | 175 | 30 | 90 | 6.0 | 8.5 | | 7k | 24.0 | 10.0 | | 5BT |
| 6P21S * | BEA | SIN | T12 | | F | 6.3 | 750 | 600 | 100 | 18.0 | 600 | 200 | 16 | 36 | 5.0 | 4.0 | | 20k | 8.2 | 6.5 | 80 | P14 |
| 6P23S * | BEA | SIN | T6 | | F | 6.3 | 750 | 350 | 100 | 11.0 | 300 | 200 | 16 | 40 | 5.0 | 4.5 | | 44k | 7.5 | 4.5 | 180 | P38 |
| 6P25B * | PND | SIN | T3B | | H | 6.3 | 450 | 170 | 50 | 4.1 | 110 | 110 | 8 | 30 | 5.0 | 4.5 | | | 6.7 | 6.8 | | P30 |
| 6P27S * | BEA | SIN | T12 | | H | 6.3 | 1500 | 800 | 150 | 27.5 | 250 | 265 | 13 | 100 | 15.0 | 10.0 | | 15k | 15.0 | 11.0 | | 7S |
| 6P30B * | PND | SIN | T3B | | H | 6.3 | 465 | 250 | 60 | 5.5 | 120 | 120 | | 35 | 2.0 | 4.5 | | | 12.0 | 4.2 | | P22 |
| 6P31S * | BEA | SIN | T11 | | H | 6.3 | 1300 | 600 | 200 | 10.0 | 100 | 100 | 9 | 80 | 8.5 | 12.5 | | 4k | 18.0 | 8.5 | | PS7 |
| 6P33P * | PND | SIN | T6 | | H | 6.3 | 900 | 250 | 100 | 12.0 | 170 | 170 | 12 | 70 | 6.5 | 10.0 | | 25k | 12.0 | 7.0 | | 9CV |
| 6P34S * | PND | SIN | T11 | | H | 6.3 | 2000 | 250 | 150 | 18.0 | 180 | 180 | 14 | 70 | 8.5 | 13.0 | | | 21.0 | 11.0 | | P23 |
| 6P35GV* | PND | SIN | | | H | 6.3 | 450 | | | 5.2 | 80 | 80 | 5 | 50 | 10.0 | 10.5 | | | 11.5 | 6.0 | | P41 |
| 6P36S * | BEA | SIN | T13 | | H | 6.3 | 2000 | 250 | 250 | 17.0 | 100 | 100 | 7 | 120 | | 20.0 | | 4500 | 36.0 | 21.0 | | P21 |
| 6P37N * | PND | SIN | NUV | | H | 6.3 | 1210 | 200 | 400 | 15.0 | 100 | 100 | 9 | 100 | 22.5 | 18.0 | | | 20.0 | 2.3 | | |
| 6P38P * | PND | SIN | | | H | 6.3 | 450 | | | 10.5 | 150 | 150 | | 50 | 8.0 | 65.0 | | 30k | 21.5 | 3.9 | | P33 |
| 6P39S * | PND | SIN | | | H | 6.3 | 600 | | | 10.0 | 125 | 125 | 0 | 50 | 6.0 | 45.0 | | 18k | 18.0 | 4.0 | | P16 |
| 6P41S * | BEA | SIN | | | H | 6.3 | 1100 | | | 14.0 | 170 | 170 | | 66 | 2.7 | 8.4 | | 12k | 23.0 | 10.5 | | P40 |
| 6P42S * | BEA | SIN | T15 | TV | H | 6.3 | 2100 | 7k | 700 | 24.0 | 150 | 150 | | 20 | | | | | 13.5 | 38.0 | | P21 |
| 6R2P | BEA | DUO | | | H | 6.3 | 600 | | | 6.5 | 200 | 200 | 16 | 20 | 2.0 | 2.5 | | | 4.5 | 2.0 | | PD7 |
| 6R3S | BEA | DUO | | | H | 6.3 | 2000 | | | 20.0 | 350 | 250 | 30 | 45 | | 4.5 | | | 10.0 | 4.0 | | PD8 |
| 6S1P * | TRI | SIN | T6 | RF | H | 6.3 | 150 | 275 | 20 | 1.8 | 250 | | 7 | 6 | | 2.2 | 26 | 11k | 1.4 | 1.1 | | 7BS |
| 6S1ZH * | TRI | SIN | AC0 | | H | 6.3 | 150 | 275 | | 1.8 | 250 | | 7 | 6 | | 2.2 | 26 | 11k | 1.0 | 0.6 | 600 | T3S |
| 6S2B * | TRI | SIN | T3B | | H | 6.3 | 250 | 250 | 40 | 2.5 | 150 | | | 11 | | 11.0 | 50 | | 6.5 | 4.4 | | T12 |
| 6S2P * | TRI | SIN | T5 | | H | 6.3 | 400 | 165 | | 2.5 | 150 | | 1 | 14 | | 11.5 | 48 | 4200 | 5.3 | 4.2 | | 7BQ |
| 6S2S * | TRI | SIN | T9 | | H | 6.3 | 300 | 330 | 20 | 2.7 | 250 | | 8 | 9 | | 2.5 | 20 | 8000 | 3.0 | 4.5 | | 6Q |
| 6S3B * | TRI | SIN | T3F | | H | 6.3 | 150 | 300 | 12 | 2.5 | 270 | | | 8 | | 2.2 | 14 | 6400 | 2.5 | 3.9 | | |
| 6S3P * | TRI | SIN | T6 | | H | 6.3 | 300 | 160 | 35 | 3.0 | 150 | | 1 | 16 | | 20.0 | 50 | 2600 | 6.5 | 1.5 | | TS4 |
| 6S4B | TRI | SIN | M9 | | H | 6.3 | 300 | | | 0.4 | 250 | | | 1 | | 1.5 | 100 | 66k | 2.0 | 12.0 | | 5M |
| 6S4P * | TRI | SIN | T6 | | H | 6.3 | 300 | 160 | 35 | 3.0 | 150 | | 1 | 16 | | 20.0 | 50 | 2600 | 11.5 | 3.7 | | TS4 |
| 6S4S * | TRI | SIN | S16 | PA | F | 6.3 | 1000 | 360 | | 15.0 | 250 | | 45 | 60 | | 5.4 | 4 | 840 | | | | 5S |
| 6S5 | TRI | SIN | M11 | | H | 6.3 | 300 | | | 1.2 | 250 | | 8 | 8 | | 2.2 | 20 | | 3.0 | 11.0 | | 6Q |
| 6S5D * | TRI | SIN | LIT | | H | 6.3 | 770 | 300 | 25 | 6.5 | 250 | | 3 | 15 | | 5.0 | 42 | 9k | 2.3 | 0.5 | 3G | 6BY |
| 6S5S * | TRI | SIN | T10 | | H | 6.3 | 300 | 350 | | 2.7 | 250 | | 6 | 8 | | 2.2 | 20 | 9k | 3.8 | 12.0 | | 6Q |
| 6S6B * | TRI | SIN | T3F | | H | 6.3 | 200 | 250 | 14 | 1.4 | 120 | | 2 | 9 | | 5.0 | 25 | 5k | 3.3 | 3.5 | 500 | |
| 6S7B * | TRI | SIN | T3F | | H | 6.3 | 200 | 300 | 7 | 1.4 | 250 | | 2 | <5 | | 4.0 | 65 | 16k | 3.3 | 3.4 | | |
| 6S8S * | TRI | SIN | T10 | | H | 6.3 | 300 | 500 | | 3.6 | 300 | | 10 | 11 | | 3.0 | 20 | 6700 | 2.2 | 0.6 | | TS5 |
| 6S9D * | TRI | SIN | LIT | | H | 6.3 | 570 | 300 | 25 | 5.5 | 250 | | 1 | 15 | | 10.0 | 100 | 10k | 2.9 | <0.1 | 900 | 6BY |
| 6S10D | TRI | SIN | LIT | | H | 6.3 | 920 | 5k | 8500 | 9.0 | | | | | | | | | | | 3G | 6BY |
| 6S11D | TRI | SIN | PEN | | H | 6.0 | 176 | 120 | 30 | 3.6 | 110 | | 2 | 20 | | 6.5 | 17 | 2500 | 2.5 | 0.1 | 18h | |
| 6S13D * | TRI | SIN | MCR | | H | 6.3 | 770 | 350 | 35 | 9.0 | 300 | | 4 | 21 | | 5.2 | 32 | 6200 | 2.7 | <0.1 | 36h | |
| 6S15P * | TRI | SIN | T6 | | H | 6.3 | 440 | 160 | 52 | 7.5 | 150 | | | 40 | | 45.0 | 52 | | 10.5 | 1.5 | | T2S |
| 6S16D | TRI | SIN | PEN | | H | 6.3 | 192 | 170 | 35 | 3.6 | 135 | | 4 | 12 | | 6.0 | 17 | 2800 | 2.5 | 0.1 | 18h | |
| 6S17K * | TRI | SIN | MCR | | H | 6.3 | 295 | 200 | 11 | 2.0 | 175 | | 1 | 10 | | 12.0 | 125 | 10k | 3.5 | <0.1 | | |
| 6S18S * | TRI | SIN | T20 | | H | 6.3 | 6600 | 450 | 500 | 60.0 | 120 | | 20 | 550 | | 40.0 | 2 | 60 | | | | TS6 |
| 6S19P * | TRI | SIN | T7 | | H | 6.3 | 1000 | 350 | 110 | 11.0 | 100 | | 20 | 95 | | 7.5 | 4 | 500 | 6.5 | 6.0 | | TS7 |
| 6S20S * | TRI | SIN | T13 | | H | 6.3 | 200 | 25k | <2 | 25.0 | 25k | | 8 | 1 | | .2 | 2k | 10M | | | | TS8 |
| 6S21D * | TRI | SIN | PEN | | H | 6.3 | 176 | 200 | | 3.6 | 110 | | 2 | 20 | | 6.5 | 16 | 2500 | 2.5 | 0.7 | 18h | |
| 6S25B | TRI | SIN | T3B | | H | 6.3 | 220 | 250 | 15 | 1.4 | 120 | | | 8 | | 5.0 | 29 | 220k | 3.3 | 3.5 | | |
| 6S26B * | TRI | SIN | T3B | | H | 6.3 | 200 | 250 | 15 | 1.4 | 120 | | 2 | 9 | | 5.0 | 25 | 220k | 3.3 | 3.5 | | |
| 6S27B * | TRI | SIN | T3B | | H | 6.3 | 200 | 300 | 7 | 1.4 | 250 | | | <5 | | 4.0 | 65 | 16k | 3.3 | 3.4 | | |
| 6S28B-V | TRI | SIN | T4B | | H | 6.3 | 310 | 150 | 35 | 2.4 | 120 | | | 16 | | 19.0 | 40 | 2500 | 5.8 | 2.2 | | T25 |
| 6S29B-V | TRI | SIN | T4B | | H | 6.3 | 310 | 150 | 35 | 2.4 | 120 | | | 16 | | 19.0 | 40 | 2500 | 9.5 | 3.9 | | T26 |
| 6S30B | TRI | SIN | T3B | | H | 6.3 | 425 | 200 | 60 | 5.0 | 50 | | | 40 | | 21.0 | 17 | 800k | 7.0 | 1.5 | | |
| 6S31B * | TRI | SIN | T3B | | H | 6.3 | 220 | 100 | 60 | 2.5 | 50 | | 0 | 40 | | 18.0 | 17 | | 4.1 | 1.5 | | T13 |
| 6S32B * | TRI | SIN | T3B | | H | 6.3 | 165 | 250 | 10 | 1.5 | 200 | | | 4 | | 3.5 | 100 | | 2.8 | 0.7 | | T14 |
| 6S33B * | TRI | SIN | T20 | | H | 6.3 | 6600 | 600 | 600 | 60.0 | 120 | | | 550 | | 40.0 | | 80 | 30.0 | 9.0 | | T16 |
| 6S33S * | TET | TWN | | | H | 6.3 | 5600 | | | 60.0 | 120 | | | 550 | | 45.0 | 14 | 80 | 30.0 | 10.5 | | T16 |
| 6S34A-V | TRI | SIN | T2B | | H | 6.3 | 127 | 200 | 15 | 1.1 | 100 | | | 8 | | 4.6 | 25 | | 2.0 | 2.3 | 480 | T28 |
| 6S35A-V | TRI | SIN | T2B | | H | 6.3 | 127 | 300 | 7 | 0.9 | 200 | | | 3 | | 4.0 | 70 | 17k | 2.0 | 2.4 | | T28 |
| 6S36K * | TRI | SIN | C5 | | H | 6.3 | 320 | 300 | 10 | 3.0 | 250 | | <1 | 6 | | 8.0 | 145 | 18k | 3.5 | 0.2 | 9k | |
| 6S37B * | TRI | SIN | T3B | | H | 6.3 | 440 | 120 | 70 | 4.5 | 80 | | | 40 | | 16.5 | 13 | 800k | 6.0 | 4.7 | | T28 |
| 6S39S | TRI | SIN | T20 | VR | H | 6.3 | 200 | 30k | <3 | 75.0 | 30k | | 45 | <3 | | .2 | 500 | | 3.5 | 1.2 | | T11 |
| 6S40P * | TRI | SIN | T7 | | H | 6.3 | 170 | 20k | 500μ | 6.0 | 20k | | 14 | 300μ | | 0.2 | 1k | | 2.5 | 0.5 | | T15 |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{g_2}$ V | Typical $E_{g_1}$ V | Typical $I_b$ mA | Typical $I_{g_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6S41S * | TRI | SIN | T13 | | H | 6.3 | 2700 | 450 | 300 | 25.0 | 90 | | | 250 | | 21.0 | | | 11.0 | 5.0 | | T16 |
| 6S44D * | TRI | SIN | PEN | | H | 6.3 | 330 | 300 | 80 | 8.0 | 250 | | | 26 | | 6.0 | 25 | | 4.0 | 0.1 | 3G | |
| 6S45K | TRI | SIN | | | H | 6.3 | 310 | | | | 18h | | | 500 | | 13.0 | | | 2.8 | 10.1 | | |
| 6S45P-Y | TRI | SIN | T7 | | H | 6.3 | 440 | 150 | 52 | 7.8 | 150 | | | 40 | | 45.0 | 52 | | 11.5 | 1.9 | | T2S |
| 6S46G * | TRI | SIN | T4B | | H | 6.3 | 500 | 250 | 100 | 4.5 | 42 | | 1 | 60 | | 20.0 | 7 | | 6.0 | 1.7 | | T25 |
| 6S47S * | TRI | SIN | T17 | | H | 6.3 | 6200 | 600 | 3000 | 33.0 | 90 | | | 400 | | 45.0 | | | 37.0 | 7.0 | | TS6 |
| 6S48D | TRI | SIN | PEN | | H | 6.3 | 95 | 150 | 10 | 3.0 | 50 | | 0 | 5 | | 3.5 | 40 | | 3.0 | <0.1 | | |
| 6S50D * | TRI | SIN | PEN | | H | 6.3 | 365 | 15h | 3000 | 8.0 | 250 | | 4 | 22 | | 6.0 | 32 | | 4.0 | 0.1 | | |
| 6S51N * | TRI | SIN | NUV | | H | 6.3 | 130 | 110 | 15 | 1.0 | 75 | | | 10 | | 11.2 | 32 | | 4.7 | 2.2 | 800 | |
| 6S52N * | TRI | SIN | NUV | | H | 6.3 | 130 | 125 | 15 | 1.0 | 110 | | | 8 | | 10.0 | 64 | | 4.7 | 2.4 | 800 | |
| 6S53N * | TRI | SIN | NUV | | H | 6.3 | 130 | 130 | 15 | 1.2 | 120 | | | 9 | | 12.0 | 75 | | 4.2 | 1.5 | 800 | |
| 6S56P * | TRI | SIN | | | H | 6.3 | 1000 | | | 11.0 | 110 | | 7 | <1 | | 8.5 | 13 | 350 | 6.0 | 5.0 | | TS7 |
| 6S58P * | TRI | SIN | | | H | 6.3 | 300 | | | 5.7 | 150 | | | 27 | | 36.0 | 64 | 17h | 7.5 | 1.2 | | T26 |
| 6S59P * | TRI | SIN | | | H | 6.3 | 300 | | | 5.7 | 150 | | | 27 | | 36.0 | 62 | 17h | 12.3 | 2.5 | | TS4 |
| 6S62N * | TRI | SIN | | | H | 6.3 | 130 | | | 1.2 | 120 | | | <1 | | 1.7 | 90 | 53k | 2.7 | 2.4 | | T32 |
| 6SK7 | TRI | PND | | | H | 6.3 | 300 | | | | 100 | | 3 | 3 | | .5 | 8 | | 2.5 | 3.0 | | |
| 6SK7 | PND | TRI | | | H | 6.3 | 300 | | | | 250 | 100 | 3 | 6 | | 1.1 | | | 3.2 | 12.5 | | |
| 6TS4P * | DWD | SIN | T6 | | H | 6.3 | 600 | 1k | 300 | 3.0 | 350 | | | 75 | | | | | | | | DW6 |
| 6TS4S | DIO | SIN | | | H | 6.3 | 600 | 1k | 300 | | | | | 75 | | | | | | | | |
| 6TS5S * | DWD | SIN | T10 | | H | 6.3 | 600 | 11h | 300 | | 400 | | | 75 | | | | | | | | DW7 |
| 6TS10P* | DIO | SIN | T7 | | H | 6.3 | 1050 | 45h | 450 | | 1k | | | 120 | | | | | 5.0 | | | 9BD |
| 6TS13P* | DIO | SIN | T7 | | H | 6.3 | 950 | 16h | 900 | 8.0 | 650 | | | 120 | | | | | | | | 6BY |
| 6TS15S | DIO | TWN | T13 | | H | 6.3 | 1430 | 1k | 375 | | 350 | | | 62 | | | | | | | | 8AN |
| 6TS17S* | DIO | SIN | T10 | | H | 6.3 | 1800 | 4k | 1200 | 8.0 | | | | 200 | | | | | 11.0 | | | DS8 |
| 6TS19P* | DIO | SIN | T7 | | H | 6.3 | 1100 | 45h | 450 | | 700 | | | 120 | | | | | 8.0 | | | 9BD |
| 6V1P * | PND | SIN | T6 | SM | H | 6.3 | 400 | 550 | | 4.5 | 250 | 250 | 2 | 26 | 2.7 | 29.0 | | | 9.0 | 4.6 | | PS5 |
| 6V2P * | PND | SIN | T7 | SM | H | 6.3 | 1800 | 600 | 1500 | 3.0 | 600 | 300 | 25 | | | h2.2 | | | 26.0 | 15.0 | | PD9 |
| 6V3S | PND | SIN | T7 | SM | H | 6.3 | 900 | 700 | 1500 | 5.0 | 700 | 400 | 25 | 1200 | 8h | h2.0 | | | 15.0 | 14.0 | | P34 |
| 6VKH1 | DWD | SIN | | | H | 6.3 | 600 | 1k | 200 | | | | | 70 | | | | | | | | DW7 |
| 6YE1P * | TRI | SIN | T5 | ID | H | 6.3 | 300 | 250 | | 0.2 | 100 | | 2 | 2 | | 0.5 | 24 | | | | | ID1 |
| 6YE2P | TRI | SIN | T7 | ID | H | 6.3 | 580 | 250 | | 0.4 | 150 | | 4 | <2 | | 1.4 | | | 3.0 | 7.0 | | ID3 |
| 6YE3P | TRI | SIN | T6 | ID | H | 6.3 | 230 | 300 | 3 | 0.5 | 230 | | 0 | <1 | | | | | | | | ID2 |
| 6YE5S * | TRI | SIN | T11 | ID | H | 6.3 | 300 | 250 | | | 250 | | 4 | 5 | | 1.2 | 24 | | | | | 8B |
| 6ZH1B * | PND | SIN | T3F | | H | 6.3 | 200 | 150 | 14 | 1.2 | 120 | 120 | | <8 | 3.5 | 4.8 | | 200k | 4.8 | 3.8 | | |
| 6ZH1L | PND | SIN | F10 | | H | 6.3 | 150 | | | 2.0 | 150 | 75 | 2 | 2 | 0.2 | 1.5 | | 1m | 4.0 | 4.2 | 200 | PS1 |
| 6ZH1P * | PND | SIN | T6 | UF | H | 6.3 | 170 | 200 | 20 | 1.8 | 120 | 120 | 2 | 7 | 3.0 | 5.2 | | 300k | 4.3 | 2.4 | 120 | 7BD |
| 6ZH1ZH* | PND | SIN | AC0 | | H | 6.3 | 150 | 250 | | 0.5 | 250 | 100 | 3 | 2 | 0.7 | 1.6 | | 1m | 3.5 | 3.0 | | |
| 6ZH2B * | PND | SIN | T3F | RF | H | 6.3 | 200 | 150 | 14 | 0.9 | 120 | 120 | 2 | <6 | 6.0 | 3.2 | | 500k | 4.9 | 4.1 | | |
| 6ZH2M | PND | SIN | T6 | RF | H | 2.0 | 60 | | | 0.5 | 120 | 70 | <1 | 2 | 0.5 | .9 | | | 5.4 | 8.1 | | |
| 6ZH2P * | PND | SIN | T6 | RF | H | 6.3 | 170 | 200 | 20 | 1.8 | 120 | 120 | 0 | 6 | 5.0 | 3.9 | | 100k | 4.5 | 2.4 | | 7CM |
| 6ZH3 * | PND | SIN | M8 | RF | H | 6.3 | 300 | 330 | | 3.3 | 250 | 150 | 1 | 11 | 4.0 | 4.9 | | 900k | 8.5 | 7.0 | | 8BK |
| 6ZH3M | PND | SIN | | | H | 6.3 | 450 | 300 | | 3.0 | 300 | 200 | | 10 | 2.5 | 5.0 | | 700k | 11.0 | 5.0 | | 8N |
| 6ZH3P * | PND | SIN | T6 | UF | H | 6.3 | 325 | 330 | 20 | 2.5 | 250 | 150 | <2 | 7 | 2.0 | 5.0 | | 800k | 6.5 | 1.5 | | 7BD |
| 6ZH4 * | PND | SIN | M10 | | H | 6.3 | 450 | 330 | | 3.3 | 300 | 150 | 0 | 10 | 2.2 | 9.0 | | 900k | 11.0 | 5.0 | | 8N |
| 6ZH4E | PND | SIN | M10 | | H | 6.3 | 450 | 330 | | 2.5 | 300 | 150 | 0 | 9 | 2.2 | 8.5 | | | | | | 8N |
| 6ZH4P * | PND | SIN | T5 | | H | 6.3 | 300 | 300 | 20 | 3.5 | 250 | 150 | 1 | 11 | 4.3 | 5.7 | | 900k | 6.3 | 6.3 | | 7BK |
| 6ZH5A | PND | SIN | | | H | 6.3 | 450 | | | | 250 | 100 | | 10 | 2.5 | 9.0 | | | | | | 7BK |
| 6ZH5B * | PND | SIN | T3F | | H | 6.3 | 250 | 150 | 28 | 2.6 | 120 | 120 | 2 | 15 | 6.0 | 10.0 | | 100k | 6.0 | 4.0 | | |
| 6ZH5P * | BEA | SIN | T6 | | H | 6.3 | 450 | 300 | 20 | 3.6 | 300 | 150 | 2 | 10 | 2.0 | 9.0 | | 350k | 8.5 | 2.2 | | 7BK |
| 6ZH6S * | PND | SIN | M10 | | H | 6.3 | 500 | | | 2.5 | 250 | 100 | 2 | 10 | 2.5 | 7.5 | | 2M | 9.5 | 6.2 | | 7R |
| 6ZH7 * | PND | SIN | M10 | RF | H | 6.3 | 300 | 330 | | 0.8 | 250 | 100 | 3 | 2 | 0.6 | 1.2 | | 1M | 7.0 | 12.0 | | 7R |
| 6ZH8 * | PND | SIN | S11 | RF | H | 6.3 | 300 | 330 | | 2.8 | 250 | 100 | 3 | 3 | 0.8 | 1.6 | | 2M | 6.0 | 7.0 | | 8N |
| 6ZH8S | PND | SIN | | | H | 6.3 | 300 | | | | 100 | 100 | 3 | 3 | 0.9 | 1.6 | | | | | | 8Y |
| 6ZH9B | PND | SIN | T4F | | H | 6.3 | 310 | 150 | 26 | 2.4 | 120 | 120 | | 15 | 5.5 | 17.0 | | | 7.5 | 3.3 | | |
| 6ZH9G * | PND | SIN | T4B | | H | 6.3 | 310 | 150 | 35 | 2.4 | 120 | 120 | | 15 | 5.5 | 17.0 | | | 7.5 | 3.4 | | |
| 6ZH9P * | PND | SIN | T6 | | H | 6.3 | 300 | 250 | 35 | 3.0 | 150 | 150 | 1 | 15 | 5.0 | 17.5 | | 100k | 8.5 | 3.3 | | 9EQ |
| 6ZH10B* | PND | SIN | T3F | | H | 6.3 | 250 | 150 | 28 | 2.2 | 120 | 120 | 1 | <11 | 6.0 | 5.0 | | 100k | 6.5 | 4.5 | | |
| 6ZH10P* | PND | SIN | T6 | | H | 6.3 | 300 | 250 | 35 | 3.0 | 200 | 100 | 1 | 6 | 5.5 | 9.5 | | 100k | 8.9 | 3.9 | | 9EQ |
| 6ZH11P* | PND | SIN | T6 | | H | 6.3 | 440 | 150 | 40 | 4.9 | 150 | 150 | <2 | 25 | 5.0 | 28.0 | | 30k | 14.0 | 3.5 | | 9EQ |
| 6ZH13L | PND | SIN | M12 | | H | 6.3 | 400 | | | | 250 | 250 | 2 | 10 | 1.4 | 7.5 | | | | | | P18 |
| 6ZH20P* | PND | SCG | T7 | | H | 6.3 | 450 | 250 | | 3.0 | 150 | 150 | 1 | 16 | 6.0 | 16.5 | | 100k | 8.5 | 2.5 | 245 | P31 |
| 6ZH21P* | PND | SCG | T7 | | H | 6.3 | 350 | 200 | | 2.5 | 150 | 150 | 1 | 15 | 5.0 | 15.0 | | 60k | 5.9 | 1.9 | 400 | P32 |
| 6ZH22P* | PND | SCG | T7 | | H | 6.3 | 500 | 200 | | 5.5 | 150 | 150 | 1 | 30 | 7.5 | 23.0 | | 60k | 9.3 | 2.4 | 440 | P32 |
| 6ZH23P* | PND | DBA | T7 | | H | 6.3 | 440 | 150 | 40 | 2.4 | 150 | 150 | 2 | 14 | 7.5 | 14.0 | | 36k | 14.0 | 3.5 | | PD3 |
| 6ZH31BK | PND | SIN | T3F | | H | 6.3 | 200 | 150 | 14 | 1.3 | 120 | 120 | | <8 | 3.5 | 5.0 | | | 4.8 | 3.8 | | |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{g2}$ V | Typical $E_{g1}$ V | Typical $I_b$ mA | Typical $I_{g2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6ZH32B* | PND | SIN | T3B | | H | 6.3 | 165 | 250 | 10 | 1.2 | 120 | 120 | | 6 | 1.4 | 6.0 | | | 5.4 | 2.3 | | P24 |
| 6ZH32P* | PND | SIN | T6 | | H | 6.3 | 200 | 300 | 6 | 1.0 | 250 | 140 | 2 | 3 | 1.0 | 1.8 | | 3M | 4.0 | 5.5 | | P17 |
| 6ZH33AV | PND | SIN | T2B | | H | 6.3 | 127 | 150 | 15 | 1.3 | 120 | 100 | | 8 | 4.0 | 4.5 | | 120k | 3.6 | 3.3 | | P28 |
| 6ZH35BV | PND | SIN | T3 | | H | 6.3 | 127 | 150 | 15 | 0.9 | 120 | 110 | 2 | 6 | 6.5 | 3.1 | | | 4.6 | 3.5 | | PS5 |
| 6ZH38P* | PND | SIN | T6 | | H | 6.3 | 180 | 250 | 25 | 2.5 | 120 | 120 | | 9 | 2.3 | 9.0 | | 200k | 5.8 | 2.4 | | 7BK |
| 6ZH39GV | PND | SIN | T4B | | H | 6.3 | 440 | 200 | 60 | 3.3 | 100 | 100 | | 25 | 10.0 | 28.0 | | | 13.5 | 3.5 | | |
| 6ZH40P | PND | SIN | T6 | | H | 6.3 | 300 | 30 | 15 | 0.5 | 25 | 25 | 3 | 8 | 3.3 | 3.8 | | | 6.7 | 4.1 | | 7CM |
| 6ZH43P* | PND | DBA | T6 | | H | 6.3 | 475 | 150 | 46 | 3.1 | 150 | 150 | 16 | <15 | 6.5 | 14.5 | | 36k | 13.5 | 3.0 | | PD3 |
| 6ZH44P* | PND | SCG | T6 | | H | 6.3 | 550 | 165 | 120 | 4.5 | 150 | 150 | | 25 | 11.0 | 25.0 | | | 8.6 | 3.6 | | P25 |
| 6ZH45BV | PND | SIN | T3B | | H | 6.3 | 125 | 150 | 10 | 0.5 | 50 | 50 | 1 | <6 | 1.5 | 5.4 | | | 6.1 | 2.1 | | P26 |
| 6ZH46BV | PND | SIN | T3B | | H | 6.3 | 125 | 150 | 10 | 0.5 | 50 | 50 | 1 | <6 | 1.8 | 4.5 | | | 6.1 | 2.1 | | P36 |
| 6ZH49P* | PND | SIN | T6 | | H | 6.3 | 300 | 150 | 22 | 2.8 | 150 | 150 | | 14 | 2.4 | 16.7 | | 100k | 8.2 | 2.7 | | P33 |
| 6ZH50P* | PND | SIN | | | H | 6.3 | 300 | | | 5.3 | 150 | 150 | | 25 | 4.0 | 35.0 | | 13M | 12.0 | 2.8 | | P33 |
| 6ZH51P* | PND | SIN | | | H | 6.3 | 300 | | | | 200 | 200 | | <9 | 3.5 | 15.5 | | | 11.5 | 3.3 | | P20 |
| 6ZH52P* | PND | SIN | T7 | | H | 6.3 | 330 | 350 | 60 | 10.0 | 150 | 150 | | 40 | 8.0 | 55 | | | 13.5 | 1.8 | | 9EQ |
| 6ZH53P* | PND | SIN | T6 | | H | 6.3 | 175 | 300 | 22 | 3.5 | 150 | 150 | | 13 | 2.2 | 20 | | | 5.7 | 1.7 | | 7BD |
| EM7 * | TRI | SIN | T3B | EL | F | 1.0 | 18 | 8 | | | 7 | | 2 | 200μ | | <0.1 | <2 | | 1.6 | 1.9 | | |
| 7P12S * | PND | SIN | S12 | | H | 7.3 | 850 | 200 | 60 | 8.0 | 135 | 135 | 15 | 31 | 7.0 | 2.8 | | | 7.7 | 9.5 | | 5F |
| 7ZH12S* | PND | SIN | S12 | | H | 7.3 | 425 | 250 | | 1.9 | 250 | 135 | 3 | 5 | 1.1 | 1.8 | | 500k | 6.1 | 15.0 | | 6F |
| EM-8 | PND | SIN | T3B | EL | H | 6.3 | 100 | 20 | | | 15 | 15 | <3 | 2 | 1.3 | 0.8 | 30 | | 4.5 | 3.5 | | P39 |
| 10P12S * | PND | SIN | S12 | | H | 10.0 | 640 | 200 | 60 | 8.0 | 180 | 135 | 15 | 31 | 7.0 | 2.1 | | 20M | 7.7 | 9.7 | | 5F |
| 10ZH1L * | PND | SIN | F10 | | H | 10.0 | 93 | 250 | 11 | 2.0 | 150 | 75 | 2 | 7 | 0.5 | 1.6 | | 1M | 4.0 | 4.2 | 200 | PS1 |
| 10ZH3L * | PND | SIN | F10 | | H | 10.0 | 93 | 250 | 11 | 2.0 | 150 | 75 | 2 | 7 | 0.5 | 1.6 | | 1300 | 4.0 | 4.2 | 200 | PS1 |
| 10ZH12S* | PND | SIN | S12 | | H | 10.0 | 320 | 250 | | 1.9 | 250 | 135 | 3 | 6 | 1.0 | 1.8 | | 500M | 6.1 | 15.0 | | 6F |
| 12B1M | PND | DWD | | | H | 12.5 | 220 | | | | 25 | 25 | 1 | 1 | 0.4 | 1.9 | | 7500 | | | | PD5 |
| 12B2M | PND | DWD | | | H | 12.5 | 150 | | | | 25 | 25 | 1 | 1 | 0.3 | .8 | | 150k | | | | PD6 |
| 12G1 | TRI | DWD | | | H | 12.6 | 150 | 275 | | 2.7 | 250 | | 9 | 9 | | 1.9 | 16 | 8500 | 3.6 | 2.8 | | 8Q |
| 12G2 | TRI | DWD | | | H | 12.6 | 150 | 330 | | 0.9 | 250 | | 2 | 1 | | 1.1 | 100 | 90k | 3.2 | 3.0 | | 8Q |
| 12K1M | PND | SIN | | | H | 12.5 | 225 | | | | 25 | 25 | <2 | 2 | 0.5 | 1.4 | | 200k | | | | 7R |
| 12K3 | PND | SIN | | | H | 12.6 | 150 | 330 | | 4.4 | 250 | 100 | 1 | 9 | 2.5 | 2.0 | | 800k | 6.0 | 7.0 | | 8N |
| 12KH3S * | DWD | SIN | F10 | | H | 12.6 | 73 | 250 | 20 | 0.1 | 10 | | | 10 | | | | | 0.5 | | 1G | DW8 |
| 12M1M | PND | TRI | | | H | 12.5 | 225 | | | | 25 | 25 | 1 | 1 | 0.3 | 1.9 | | 7500 | | | | PT3 |
| 12N4P | TRI | TWN | | | H | 12.6 | 150 | | | 1.5 | 250 | | 4 | 3 | | 1.8 | 40 | 22k | 1.6 | 1.6 | | 9AJ |
| 12N10S | TRI | DUO | T11 | | H | 12.6 | 150 | 275 | | 1.1 | 250 | | 2 | 2 | | 1.3 | 70 | 54k | 1.5 | 0.2 | | 8S |
| 12N11S | TRI | TWN | | | H | 12.6 | 150 | | | 1.8 | 180 | | 6 | 7 | | 1.9 | 16 | 8500 | 3.2 | 2.6 | | 8BE |
| 12P4S | PND | SIN | T11 | | H | 12.6 | 160 | | | | 250 | 250 | 12 | 38 | | 3.8 | | | | | | 7S |
| 12P14S | BEA | SIN | | | H | 12.6 | 150 | | | 7.5 | 250 | 250 | 12 | 30 | | 3.0 | | | 9.0 | 9.0 | | 7S |
| 12P17L * | PND | SIN | F11 | | H | 12.6 | 325 | 250 | 60 | 7.5 | 150 | 150 | 20 | 35 | 5.0 | 7.0 | | | 10.0 | 8.5 | 120 | P3S |
| 12S2 | TRI | SIN | | | H | 12.6 | 150 | | | | 250 | | 8 | 9 | | 2.0 | 20 | | 3.4 | 3.6 | | 8T3 |
| 12S3S * | TRI | SIN | | | H | 12.6 | 100 | 300 | | 5.0 | 100 | | 4 | 27 | | 3.0 | 12 | 4100 | 1.5 | 0.6 | 11M | TS3 |
| 12S42S * | TRI | SIN | | | H | 12.6 | 4900 | | | H1.2 | 120 | | | 1000 | | 60.0 | <4 | 65 | 40.0 | 15.0 | | T17 |
| 12ZH1L * | PND | SIN | F10 | | H | 12.6 | 75 | 250 | 11 | 2.0 | 150 | 75 | 2 | 7 | 0.5 | 1.6 | | 1M | 4.0 | 4.2 | 200 | PS1 |
| 12ZH1M | PND | SIN | | | H | 12.5 | 225 | | | | 25 | 25 | <2 | 2 | 0.5 | 1.4 | | 200k | | | | 7R |
| 12ZH3L * | PND | SIN | F10 | | H | 12.6 | 75 | 250 | 11 | 2.0 | 150 | 75 | 2 | 7 | 0.5 | 1.6 | | 1300 | 4.0 | 4.2 | | PS1 |
| 12ZH8 * | PND | SIN | F10 | | H | 12.6 | 150 | 330 | | 2.8 | 250 | 100 | 3 | 3 | 0.8 | 1.6 | | 2M | 6.0 | 7.0 | | 8N |
| 13P1S * | BEA | SIN | | PA | H | 13.0 | 765 | | | 6.0 | 110 | 80 | 2 | 52 | | 7.5 | | | 15.5 | 10.5 | | |
| 13ZH41S* | PND | SIN | | | H | 13.3 | 290 | | | | 80 | 80 | | 2 | 0.5 | 4.1 | | | 11.0 | 3.0 | | P27 |
| 15A6S | PND | SIN | | | H | 15.0 | 300 | | | | 180 | 135 | | 48 | | 2.5 | | 30k | | | | |
| 25P1 | BEA | SIN | | | H | 25.0 | 300 | | | 10.0 | 110 | 110 | | 80 | | 8.5 | | | | | | |
| 25P1S | BEA | SIN | | | H | 25.0 | 300 | | | 10.0 | 110 | 110 | | 80 | | 8.5 | | | | | | |
| 30P1S * | BEA | SIN | T11 | PA | H | 30.0 | 300 | 110 | | 7.0 | 110 | 110 | 7 | 70 | 12.0 | 10.0 | | 9k | 19.0 | 11.0 | | 7S |
| 30TS1M | DIO | SIN | | | H | 30.0 | 300 | 300 | 500 | | | | 250 | 90 | | | | 2500 | | | | 5AA |
| 30TS6S * | DIO | TWN | S13 | | H | 30.0 | 300 | 500 | 500 | | 150 | | | 60 | | | | | 16.0 | | | 8AN |
| 30VD1 | DIO | SIN | | | | 25.0 | 300 | 500 | 500 | | | | | | | | | | | | | 4BQ |
| 30VKH1 | DIO | TWN | | | H | 30.0 | 300 | 500 | 500 | | 150 | | | 60 | | | | | | | | 8AN |
| SB-47 | PND | SIN | | | H | 4.0 | 150 | | | | 160 | 120 | 1 | 5 | 0.7 | 1.6 | | 250k | | | | |
| SB-51 | PND | SIN | | | H | 4.0 | 80 | | | | 240 | 80 | 1 | 3 | 0.6 | 1.0 | | 600k | | | | |
| SO-57 | PND | SIN | | | H | 4.0 | 1A | | | | 240 | 100 | 1 | 3 | 0.8 | 3.0 | | 500k | | | | |
| SB-112 | PND | SIN | | | H | 4.0 | 80 | | | | 160 | 80 | 1 | 2 | 0.6 | .6 | | 500k | | | | |
| SO-124 | PND | SIN | | | H | 4.0 | 1A | | | | 160 | 60 | 2 | 5 | 3.5 | 2.0 | | | | | | |
| UB-132 | TRI | SIN | | | F | 4.0 | 150 | | | 3.0 | 160 | | 6 | 15 | | 2.1 | 9 | 4k | | | | |
| TO-141 | TRI | SIN | S17 | | F | 2.6 | 1000 | | | | 220 | | 3 | 14 | | 2.6 | | | | | | 4F |
| TO-142 | TRI | SIN | S17 | | F | 2.6 | 1000 | | | | 220 | | 7 | 23 | | 2.5 | | | | | | 4F |
| SO-148 | PND | SIN | | | H | 4.0 | 1A | | | | 240 | 80 | 2 | 7 | 1.0 | 1.6 | | 200k | | | | |
| SB-152 | TRI | SIN | | | F | 2.0 | 120 | | | | 100 | | <2 | <5 | | 1.5 | 14 | 10k | | | | |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{g_2}$ V | Typical $E_{g_1}$ V | Typical $I_b$ mA | Typical $I_{g_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UB-152 | TRI | SIN | | | F | 2.0 | 120 | | | | 120 | | 4 | 6 | | 3.0 | 14 | 5k | | | | |
| UB-153 | TRI | SIN | | | F | 2.0 | 200 | | | | 100 | | 6 | 8 | | 2.5 | 10 | 4k | | | | |
| SB-154 | PND | SIN | | | F | 2.0 | 90 | | | | 160 | 60 | 1 | 3 | 0.4 | 1.2 | | 290k | | | | |
| UB-155 | BEA | SIN | | | F | 2.0 | 230 | | | 0.2 | 100 | 60 | 2 | 6 | 1.5 | 2.1 | | 100k | | | | |
| UB-178 | TRI | SIN | | | F | 2.0 | 120 | | | | 100 | | <1 | 2 | | 1.1 | 33 | 30k | | | | |
| SO-182 | PND | SIN | | | H | 4.0 | 1100 | | | | 240 | 100 | 1 | 7 | 2.0 | 2.5 | | 800k | | | | |
| UB-182 | TRI | SIN | | | F | 4.0 | 150 | | | 3.0 | 240 | | 6 | 12 | | 2.4 | 9 | 4k | | | | |
| U0186 | TRI | SIN | S16 | | F | 4.0 | 1000 | | | 15.0 | 250 | | 37 | 57 | | 3.2 | 4 | 1k | | | | 4F |
| SB-190 | PND | SIN | | | F | 2.0 | 100 | | | | 160 | 120 | 1 | 1 | 0.4 | 1.2 | | 420k | | | | 5Y |
| 191P | TET | SIN | T6 | EL | H | 1.0 | 46 | | | | 6 | 3 | 4 | 100 | | 50.0 | | | | | | TE2 |
| UB-240 | TRI | SIN | | | F | 2.0 | 120 | | | 0.6 | 120 | | | 3 | | 1.5 | 22 | 14k | 2.8 | 2.8 | | 5S |
| SO-242 | PTG | SIN | S9 | CN | H | 2.0 | 160 | 300 | 14 | 1.0 | 120 | 70 | 0 | 3 | .2 | .1 | | | 7.0 | 8.6 | | 7Z |
| SO-243 | TRI | TWN | | | F | 2.0 | 240 | | | 1.5 | 120 | | | 3 | | 2.1 | 32 | 16k | 2.8 | 3.4 | | 7AB |
| SO-244 | PND | SIN | | | F | 2.0 | 185 | | | 1.5 | 120 | | | 4 | | 1.8 | 270 | 150k | 55.0 | 7.0 | | 6X |
| SO-257 | PND | SIN | S10 | | F | 2.0 | 300 | | | | 200 | 100 | 7 | 18 | | 1.3 | | | | | | P19 |
| SO-258 | PND | SIN | | | F | 1.8 | 320 | | | 1.3 | 160 | 120 | 6 | 2 | | 2.0 | 160 | 80k | 5.4 | 7.5 | | 6X |
| M-457 | TRI | SIN | | | F | 4.0 | 2100 | | | 50.0 | 1k | | 72 | 70 | | 7.0 | 8 | 1k | | | | |
| 1504 | TRI | SIN | LIT | | H | 6.3 | 770 | 300 | 25 | 6.5 | 250 | | | 25 | | 4.7 | 42 | 9k | 2.3 | 0.5 | 36 | |
| 1506 | BEA | TWN | T19 | | H | 12.6 | 1120 | 500 | | 15.0 | 400 | | | 110 | | | | | | | | 7BP |
| 1509 | BEA | TWN | T19 | | H | 12.6 | 800 | 500 | | 15.0 | 500 | | | 72 | | | | | | | | 7BP |
| 1511 | PND | SIN | M10 | | H | 6.3 | 450 | 330 | | 3.3 | 300 | 150 | 0 | 10 | 2.2 | 9.0 | | 900k | | | | 8N |
| 1512 | PND | SIN | M10 | | H | 6.3 | 650 | 330 | | 9.0 | 300 | 150 | 3 | 30 | 5.7 | 11.7 | | 80k | | | | 8Y |
| 1514 | PND | SIN | M10 | | H | 6.3 | 300 | 330 | | 2.8 | 250 | 100 | 3 | 3 | 0.8 | 1.7 | | 2M | | | | 8Y |
| 1515 | BEA | SIN | M10 | | H | 6.3 | 450 | 350 | | 13.2 | 250 | 250 | 12 | 45 | 7.5 | 4.3 | | 52k | 9.5 | 9.5 | | |
| 1536 | DIO | TWN | T9 | | H | 6.3 | 300 | 450 | 90 | 0.5 | 150 | | | 10 | | | | | | | | 6BT |
| 1538 | BEA | SIN | T6 | | H | 6.3 | 350 | 330 | | 2.5 | 250 | 150 | | 7 | 2.0 | 5.0 | | 500k | 6.5 | 2.4 | | 6CC |
| 1539 | TRI | | T9 | | H | 6.3 | 600 | 300 | | 2.5 | 250 | | | 7 | | 4.2 | 33 | 7900 | 3.3 | 1.7 | | 9AJ |
| 1540 | BEA | SIN | T13 | | H | 6.3 | 900 | 400 | | 27.5 | 250 | 250 | 14 | 72 | 8.0 | 6.0 | | | 11.0 | 6.7 | | |
| 1550 | DWD | SIN | | | H | 6.3 | 600 | 1k | 300 | | 350 | | | 37 | | | | | | | | DW6 |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ | $I_f$ | Maximum | | | Typical | | | | | | | | Capacity | | $f_{max}$ | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | V | mA | $E_b$ V | $I_b$ mA | $P_p$ W | $E_b$ V | $E_{g_2}$ V | $E_{g_1}$ V | $I_b$ mA | $I_{g_2}$ mA | Sm mmho | $\mu$ | $R_p$ Ω | In pF | Out pF | MHz | |
| GE-1 | TET | SIN | | F | | 11.0 | 2A | | | 80.0 | 15h | 250 | | 100 | | 2.5 | | | 15.5 | 10.0 | 20 | |
| GK1A | TRI | SIN | W46 | W | | 31.5 | 580A | 10k | 30A | 2h.k | 8k | | | 8A | | 80.0 | 45 | | 2h | 1h | 22 | |
| GM1A | TRI | SIN | W22 | T | | 10.5 | 195A | 6k | 100A | 30.k | 3k | | | 8A | | 20.0 | 5 | | | | | |
| GM1P | TRI | SIN | V | | | | | | | | | | | | | | | | | | | |
| GMI-1B | TRI | SIN | | | | 9.0 | 26A | | | h3.2 | 22k | | | | | 5.0 | | | | | | |
| GS-1B | TRI | SIN | A | H | | 12.6 | 3200 | 2k | | 1.k | 2k | | 1 | 250 | | 30.0 | | | | | 1G | |
| GE-2 | TET | SIN | | F | | 11.0 | 6300 | | | 1.h | 3k | 500 | | 130 | | 2.0 | | | 17.0 | 11.0 | 20 | |
| GMI-2B | TET | SIN | A70 | H | | 25.0 | 7500 | 32k | 90A | h9.0 | | | | 140 | | | | | | | | TE7 |
| GS-2B | TRI | SIN | W22 | H | | 12.6 | 3200 | 2k | | 1.k | 2k | | 1 | 250 | | 30.0 | | | | | 1G | |
| 2TM-20 | TRI | TWN | | | | 20.0 | 450 | 750 | | 20.0 | | | | | | 4.0 | 30 | | | | | |
| 2TM-100 | TRI | TWN | | | | 20.0 | 2200 | 1k | | 70.0 | | | | | | 2.5 | 28 | | | | | |
| GI-3 | TRI | SIN | T11 | H | | 6.3 | 1100 | 25h | 15A | 10.0 | 400 | | 15 | 16 | | 2.2 | 16 | | 2.6 | 1.1 | 300 | 4BB |
| GK3A | TRI | SIN | W43 | W | | 17.0 | 430A | 12k | 50A | 1h.k | 5k | | | 6A | | 35.0 | 40 | | 1h | 65.0 | 25 | |
| GM3P | TRI | SIN | V | | | | | | | | | | | | | | | | | | | |
| GMI-3 | TET | SIN | T32 | H | | 26.0 | 4750 | 28k | 4500 | 80.0 | | | | | | | | | | | | |
| GS-3B | TET | SIN | A30 | H | | 1H | 865 | 2k | | 2.k | 2k | 500 | | | | 40.0 | | | | | 1G | |
| GU-3 | BEA | SIN | S18 | H | | 12.6 | 450 | 750 | 120 | 30.0 | 250 | 250 | | | | 10.0 | | | | | 60 | |
| GI-4A | TRI | SIN | W | T | | 10.0 | 215A | 35k | 220A | 20.k | 3k | | | 4A | | 38.0 | | | | | 150 | |
| GMI-4B | TET | SIN | A | H | | 6.3 | 14A | 18k | 15A | 1.h | | | | | | | | | | | | |
| GS-4 | TRI | SIN | C8 | H | | 6.3 | 610 | 250 | | 15.0 | 200 | | 1 | 30 | | 18.0 | 60 | | | | 600 | |
| GS4D | TRI | SIN | | | | 22.0 | 105A | | | 10.k | 15k | | | | | 12.0 | 50 | | | | | |
| GU4 | TRI | SIN | | | | 7.0 | 1800 | | 107 | 35.0 | 700 | | | 55 | | 1.4 | 12 | | | | 85 | |
| GU4A | TRI | SIN | W25 | T | | 8.3 | 145A | 6k | 30A | 20.k | 3k | | | 4A | | 30.0 | 50 | | 40.0 | 35.0 | 100 | |
| GI-5B | TRI | SIN | | PA | T | 6.3 | 425 | 27k | 250A | 5.k | 1k | | | 1A | | 25.0 | | | | | 200 | |
| GK5A | TRI | SIN | W44 | | T | 17.0 | 580A | 10k | 300A | k2.5 | | | | | | 14.0 | 40 | | 2h | 40.0 | 25 | |
| GMI-5 | TET | SIN | | | H | 26.0 | 1750 | 20k | 12A | | | | | | | | | | | | | |
| GU5A | TRI | SIN | W14 | | T | 12.6 | 23A | 5k | 7A | 3.k | 3k | | | 600 | | 15.0 | 80 | | 19.0 | 16.0 | 110 | |
| GU5B | TRI | SIN | A14 | | T | 12.6 | 23A | 5k | 7A | 2.k | 3k | | | 600 | | 15.0 | 80 | | 19.0 | 16.0 | 110 | |
| GI-6B | TRI | SIN | C11 | | H | 12.6 | 2100 | 9k | 20A | h3.5 | 1k | | | 150 | | 22.0 | | | 11.4 | 4.8 | <2G | |
| GMI-6 | BEA | TWN | T16 | | H | 6.3 | 2200 | 4k | 8A | 15.0 | | | | | | | | | | | | |
| GS6 | TRI | SIN | | | | 17.0 | 8500 | | | 5.h | 3k | | | | | 3.5 | 95 | | | | | |
| GI-7B | TRI | SIN | C11 | | H | 12.6 | 2100 | 9k | 20A | h3.5 | 1k | | | 150 | | 22.0 | | | 11.4 | 4.8 | 2G | |
| GMI-7 | TET | SIN | T40 | | H | 26.0 | 6300 | 22k | 52A | h1.2 | | | | | | | | | | | | |
| GS-7A | TRI | SIN | W22 | | H | 12.6 | 3100 | <3k | | 2.k | 2k | | 1 | 400 | | 30.5 | | | | | 1G | |
| GS-7B | TRI | SIN | A22 | | H | 12.6 | 3100 | <3k | | h1.5 | 2k | | 1 | 400 | | 30.0 | | | | | 1G | |
| GI-8 | PND | SIN | T35 | | T | 12.6 | 10A | 8k | 4A | h2.0 | 1k | 600 | | 200 | | 5.5 | | | 30.0 | 25.0 | | P11 |
| GS-8B | TET | SIN | C12 | | H | 6.3 | 2000 | | | 60.0 | 1k | 250 | | 210 | | 16.0 | | | 8.0 | 5.0 | 2k | |
| GU8 | TRI | SIN | | | | 5.0 | 6500 | | | | 3k | | | | | 5.5 | | | 3.0 | 2.0 | | |
| GK9P | TRI | SIN | V | | | | | | | 30.k | | | | | | | | | | | | |
| GS9B | TRI | SIN | C11 | | H | 12.6 | 1100 | 1k | 4A | 3.h | 1k | | | 120 | | 19.5 | | | 8.4 | 31.5 | 2G | |
| G10 | TRI | SIN | | | | 4.1 | 900 | | | 20.0 | 400 | | | 25 | | .6 | 19 | 35k | | | | |
| GK10P | TRI | SIN | V | | | | | | | 2h.k | | | | | | | | | | | 2 | |
| GU10A | TRI | SIN | W21 | | T | 7.0 | 75A | 8k | 15A | 10.k | 2k | | | 3A | | 20.0 | 50 | | 40.0 | 34.0 | 25 | |
| GU10B | TRI | SIN | A21 | | T | 7.0 | 75A | 6k | 15A | 7.k | 2k | | | 2500 | | 20.0 | 50 | | 40.0 | 34.0 | 25 | |
| MO-10 | TRI | SIN | | | | 16.5 | 52A | | 10A | 10.k | 10k | | | | | 7.0 | 18 | | | | | |
| GI-11B | TRI | SIN | C8 | | H | 12.6 | 815 | 2k | 1A | 8.0 | 400 | | | 15 | | 10.0 | | | 11.0 | 2.6 | 3G | |
| GU11A | TRI | SIN | W27 | | W | 12.7 | 240A | 10k | 20A | 20.k | 5k | | | 3A | | 20.0 | 55 | | 55.0 | 45.0 | 25 | |
| GU11B | TRI | SIN | C8 | | H | 12.6 | 815 | 2k | 1A | 80.0 | 400 | | | 15 | | 10.0 | | | 11.0 | 2.6 | <3G | |
| GI-12B | TRI | SIN | C8 | | H | 12.6 | 815 | 2k | 1A | 80.0 | 400 | | | 15 | | 10.0 | | | 11.0 | 2.6 | 3G | |
| GU12A | TRI | SIN | W25 | | W | 12.6 | 315A | 10k | 30A | 20.k | 4k | | | 3A | | 23.0 | 20 | | 35.0 | 24.0 | 50 | |
| G-13 | TRI | SIN | T11 | | H | 6.3 | 1100 | 2k | | 1.0 | | | | 16 | | 2.2 | 16 | | 2.6 | 1.1 | | 4BB |
| GI-13 | TRI | SIN | C9 | | H | 12.6 | 650 | 800 | <4A | 80.0 | | | | | | | | | | | 3G | |
| GI-13B | TRI | SIN | C8 | | H | 12.6 | 650 | 800 | | 80.0 | | | | | | | | | | | 3G | |
| GM13 | TET | SIN | T34 | | H | 26.0 | 4750 | 28k | 45A | 80.0 | 28k | | | | | | | | | | | |
| GU13 | BEA | SIN | T20 | | T | 10.0 | 5A | 2k | | 1.h | 2k | 400 | 35 | 70 | | 4.0 | | | 16.2 | 14.0 | 30 | P13 |
| GI-14B | TRI | SIN | | | | 12.6 | 3400 | 21k | | 5.h | 2k | | | 250 | | 35.0 | | | | | 1G | |
| GS-15B | TET | SIN | C12 | | H | 6.3 | 2300 | | | h1.6 | 13h | 300 | | 240 | | 16.0 | | | 7.0 | 2.0 | 3G | |
| GU15 | BEA | SIN | F12 | | F | 4.4 | 680 | 400 | 85 | 15.0 | 220 | 200 | 14 | 50 | 7.5 | 4.7 | | | 10.5 | 12.5 | 60 | P5S |
| GI-16B | TET | SIN | A60 | | W | 8.3 | 115A | 8k | | h8.0 | | | | | | | | | | | | |
| GU16B | TRI | SIN | A23 | | W | 13.5 | 200A | 8k | 15A | 10.k | 5k | | | 1500 | | 25.0 | 47 | | 55.0 | 42.0 | 25 | |
| G-17B | TRI | SIN | C11 | | H | 12.6 | 2A | 9k | | 3.0 | 1k | | | 150 | | 22.0 | | | 11.3 | 4.8 | | |
| GI-17 | TRI | SIN | A16 | | H | 6.3 | 750 | 8k | | 1.h | 2k | | | 10A | | 45.0 | 15 | | 11.0 | 8.0 | 500 | |
| GU-17 | BEA | TWN | T7 | | H | 6.3 | 800 | 400 | 100 | 6.0 | 300 | 200 | 16 | 20 | 6.0 | 2.8 | | | 6.5 | 2.7 | 250 | PD7 |
| GI-18B | TRI | SIN | A50 | | T | 12.5 | 190A | 16k | 150A | 6.k | 10k | | | 1A | | 25.0 | 45 | | 75.0 | 50.0 | <1 | |
| GU-18 | TET | TWN | T13 | | H | 6.3 | 1200 | 600 | 130 | 20.0 | 250 | 200 | | 35 | 6.0 | 1.5 | | | 7.0 | 2.6 | 600 | PD8 |

| Type No. | | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{g_2}$ V | Typical $E_{g_1}$ V | Typical $I_b$ mA | Typical $I_{g_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GI-19B | | TRI | SIN | W33 | | H | 7.3 | 20A | 14k | 100A | 1.k | 1k | | | 500 | | 20.0 | | | 50.0 | 12.0 | 150 | |
| GU-19 | | BEA | TWN | T16 | | H | 6.3 | 2000 | 750 | 280 | 40.0 | 350 | 250 | 17 | 40 | 8.0 | 4.5 | | | 10.0 | 3.5 | 500 | PD8 |
| GK20 | | TRI | SIN | | | | 5.6 | 850 | | 200 | 20.0 | 750 | | | | | 1.7 | 53 | | | | | |
| M020 | | TRI | SIN | | | | 22.0 | 61A | | 10A | 20.k | 10k | | | | | 7.0 | 13 | | | | | |
| GI-21B | | TRI | SIN | C8 | | H | 12.6 | 900 | 800 | <4A | h1.1 | 600 | | | 75 | | 26.0 | | | | | 3G | |
| GU21B | | TRI | SIN | A30 | | T | 8.3 | 150A | 9k | 30A | 10.k | 9k | | | 3700 | | 30.0 | 48 | | 55.0 | 45.0 | 26 | |
| GI-22 | | TRI | SIN | C8 | | H | 6.3 | 640 | | <2A | 10.0 | 200 | | | 30 | | 18.0 | | | | | 6G | |
| GU22A | | TRI | SIN | W25 | | T | 8.3 | 150A | 10k | 30A | 20.k | 10k | | | 2730 | | 27.0 | 48 | | 55.0 | 45.0 | 26 | |
| GU23A | | TRI | SIN | W44 | | T | 12.0 | 210A | 11k | 60A | 60.k | 5k | | | 7900 | | 49.5 | 49 | | h1.0 | 65.0 | 26 | |
| GU-23B | | TRI | SIN | A | | W | 12.0 | 210A | 11k | | 50.k | | | | | | 42.0 | 55 | | | | 26 | |
| GI-24A | | TRI | SIN | W30 | | W | 6.3 | 425A | 27k | 250A | 25.k | 4k | | | 150A | | 40.0 | | | | | 200 | |
| GU24A | | | | | | | 3.3 | <2kA | 6k | | 25.k | | | | | | | | | | | 273 | |
| GI-25 | | TRI | SIN | C8 | | H | 6.3 | 1145 | <2k | | 12.0 | 250 | | | | | 24.0 | | | | | 5G | |
| GU25B | | TRI | SIN | W30 | | T | 8.3 | 150A | 12k | | 12.k | | | | | | 30.0 | 48 | | | | 26 | |
| GU26A | | TRI | SIN | W | | H | 30.0 | 17A | 6k | | 10.k | | | | | | 20.0 | | | | | 330 | |
| GU26B | | TRI | SIN | | | T | 12.0 | 210A | 12k | 60A | 50.k | | | | | | | | | | | | |
| GU27A | | TET | SIN | W13 | | T | 7.5 | 25A | 4k | 5A | 2.k | 2k | 1k | | 300 | | 6.0 | 16 | | 25.0 | 17.0 | 110 | |
| GU27B | | TET | SIN | A24 | | T | 7.5 | 25A | 3k | 5A | 8.h | 3k | 1k | | 300 | | 6.0 | 16 | | 21.0 | 13.0 | 110 | |
| GU-28A | | TET | SIN | W20 | | T | 6.3 | 98A | 10k | 98A | 8.k | 3k | 850 | | | | 16.0 | 9 | | | | 24 | |
| GU28B | | TET | SIN | A | | T | 6.3 | 98A | 10k | | 10.k | 3k | 2k | | | | 16.0 | | | | | 30 | |
| M28 | | TRI | SIN | | | | 11.0 | 6400 | | | h1.5 | 1k | | | 375 | | 2.4 | 11 | <5k | | | | |
| G29 | | TRI | SIN | | | | 16.0 | 10A | | 1200 | 4.h | 10k | | | 1200 | | 3.2 | 250 | | | | | |
| GU29 | * | BEA | TWN | T16 | | H | 6.3 | 2250 | 750 | 250 | 40.0 | 600 | 200 | 70 | 150 | 30.0 | 8.0 | | | 15.0 | 7.0 | 200 | 7BP |
| GI-30 | | BEA | TWN | T16 | | H | 6.3 | 2250 | 5k | 9A | 15.0 | 250 | | | 58 | | 8.0 | | | 15.0 | 7.0 | | 7BP |
| GMI-30 | | TRI | SIN | G44 | | T | 8.2 | 17A | 27k | 15A | 3.h | 2k | | | 100 | | 5.8 | | | 9.5 | 2.0 | | |
| GU30A | | TRI | SIN | W | | T | 10.5 | 220A | 7k | 50A | 60.k | | | | | | 38.0 | 28 | | | | 100 | |
| GU31 | | TET | SIN | | | | 6.3 | | | | | 450 | 200 | | | | | | | | | | |
| G32 | | TRI | SIN | | | | 3.2 | 3500 | | | 15.0 | 800 | | | 60 | | .8 | 18 | 22k | | 2.4 | | |
| GU32 | | BEA | TWN | T14 | | H | 6.3 | 1600 | 750 | | 15.0 | 250 | 130 | 10 | 30 | 5.5 | 3.5 | | | 7.8 | 3.8 | 200 | BT7 |
| GU33B | | TET | SIN | | | H | 6.3 | 5A | 1k | | h1.5 | 15h | 400 | | | | 20.0 | | | | | 500 | |
| GU34B | | TET | SIN | T20 | | H | 12.6 | 4A | 4k | | 5.h | 2k | 600 | | | | 28.0 | | | | | 250 | |
| GU-35B | | TET | SIN | A | | W | 6.3 | 65A | 5k | | k3.5 | 5k | 800 | | | | 24.0 | 20 | | | | 250 | |
| G36 | | TRI | SIN | | | | 5.6 | 860 | | | 20.0 | 600 | | | 200 | | 1.8 | 60 | 35k | | | | |
| GU-36B | | TET | SIN | A | | W | 8.3 | 100A | 6k | | 14.k | 6k | 1k | | | | 80.0 | | | | | 250 | |
| GU-37B | | TRI | SIN | A | | W | 3.4 | 110A | 3k | | k3.5 | | | | | | 25.0 | 35 | | | | 330 | |
| GU-39A | | TET | SIN | W | | W | 6.3 | 98A | 10k | | 8.k | | 2k | | | | 22.0 | | | | | 100 | |
| GU-39B | | TET | SIN | A | | W | 6.3 | 98A | 10k | | 6.k | | 2k | | | | 22.0 | | | | | 100 | |
| GU39P | | TET | SIN | V | | | | | | | 15.k | | | | | | | | | | | 30 | |
| M39 | | TRI | SIN | | | | 11.0 | 3500 | | | 30.0 | 1k | | | 200 | | 1.4 | 10 | 7k | | | | |
| GU-40B | | TET | SIN | A | | T | 6.3 | 33A | 45h | | 2.k | 2k | 900 | | | | 18.0 | | | | | 250 | |
| GU43B | | TET | SIN | | | H | 12.6 | 6600 | 33h | 3200 | 1.k | 1k | 350 | 25 | 1000 | | 45 | | | 85 | 14 | 100 | |
| G46 | | TRI | SIN | | | | 11.0 | 4100 | | 250 | 80.0 | 1k | | | | | 2.0 | 55 | | | | 250 | |
| G47 | | TRI | SIN | | | | 11.5 | 3800 | | 215 | h1.5 | 3k | | | | | 1.4 | 70 | | | | | |
| GU50 | * | PND | SIN | F12 | | H | 12.6 | 655 | 1k | 230 | 40.0 | 1k | 300 | 80 | 120 | 10.0 | 5.0 | | | 14.0 | 9.2 | 120 | P9S |
| M50 | | TRI | SIN | | | | 11.0 | 6300 | | 270 | 50.0 | 1k | | | | | 1.4 | 10 | | | | | |
| GM51A | | TRI | SIN | W19 | | W | 22.0 | 102A | 12k | 10A | 15.k | 5k | | | 2A | 10.0 | .7 | | | | | 12 | |
| M53 | | TRI | SIN | | | | 11.0 | 6300 | | | h1.5 | 3k | | | 375 | | 1.4 | 11 | 7k | | | | |
| GM57 | | TRI | SIN | | | | 4.0 | 2100 | | | | 750 | | | | | 5.0 | 9 | | 8.5 | 3.5 | | |
| M57 | | TRI | SIN | | | | 16.0 | 10A | | | 4.h | 10k | | | 1200 | | 2.9 | 52 | 18k | | | | |
| GM60 | | TRI | SIN | T32 | | W | 17.0 | 8A | 10k | 550 | 6.h | 1k | | | 100 | 2.2 | 1.6 | | | | | | |
| G61 | | TRI | SIN | | | | 16.5 | 52A | | 11A | 10.k | | | | | | | 47 | | | | | | |
| GU61P | | TET | SIN | V | | | | | | | 30.k | | | | | | | | | | | 70 | |
| G62 | | TRI | SIN | | | | 16.5 | 51A | | | 10.k | | | | 10A | | 7.0 | 47 | 7k | | | | |
| GU62P | | TRI | SIN | V | | | | | | | 60.k | | | | | | | | | | | 85 | |
| G65 | | TRI | SIN | | | | 5.2 | 1300 | | | 12.0 | | | | 60 | | 1.0 | 60 | 60k | | | | |
| GU66P | | TRI | SIN | V | | | | | | | 1h.k | | | | | | | | | | | 30 | |
| G68 | | TRI | SIN | | | | 17.0 | 18A | | | 1.k | 10k | | | 2A | | 5.0 | 180 | 36k | | | | |
| GI-70B | | TRI | SIN | C11 | | H | 12.6 | 2100 | 9k | 20A | | 1k | | | 150 | | 22.0 | | | 11.4 | 4.9 | 3G | |
| GM-70 | | TRI | SIN | T21 | | T | 20.0 | 3A | 1k | 800 | 1.h | 600 | | | 200 | | 6.0 | 7 | | 8.0 | 12.0 | | |
| GM-70B | | TRI | SIN | T21 | | T | 20.0 | 3A | 1k | 800 | 1.h | 600 | | | 200 | | 6.0 | 7 | | 8.0 | 12.0 | IF | |
| GK71 | | PND | SIN | T21 | | T | 20.0 | 3A | 1k | | h1.2 | 600 | 400 | | 200 | 62.0 | 4.2 | | | 18.0 | 17.0 | 20 | P12 |
| GU72 | | PND | SIN | T25 | | T | 20.0 | 3A | 1k | 900 | h1.5 | 750 | 400 | | 150 | | 4.2 | | | 18.0 | 17.0 | 40 | P14 |
| M74 | | TRI | SIN | | | | | | | | | 450 | | | | | .1 | 63 | | | | | |
| GI-76B | | TRI | SIN | C | | | 12.6 | 2100 | 9k | | | 1k | | | 150 | | 22.0 | | | 11.3 | | 3G | |
| GU80 | | PND | SIN | T30 | | T | 12.6 | 10A | 3k | | 4.h | 2k | 600 | 140 | 200 | | 5.5 | | | 28.5 | 22.5 | 50 | P6S |

| Type No. | Kind | Type | Bulb | Use | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_p$ W | Typical $E_b$ V | Typical $E_{g_2}$ V | Typical $E_{g_1}$ V | Typical $I_b$ mA | Typical $I_{g_2}$ mA | Typical Sm mmho | Typical $\mu$ | Typical $R_p$ Ω | Capacity In pF | Capacity Out pF | $f_{max}$ MHz | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M80 | TRI | SIN | | | | 11.0 | 3500 | | 260 | 80.0 | 1k | | | | | 1.4 | 10 | | | | | |
| GU81 | PND | SIN | T38 | | F | 12.6 | 10A | 3k | | h4.5 | 2k | 600 | | | | 5.5 | | | | | 50 | |
| GMI-83 | TET | SIN | T20 | | H | 25.0 | 2000 | 20k | 15A | 65.0 | 15k | 1k | | | | | | | 50.0 | 5.0 | | |
| G88 | TRI | SIN | | | | 6.0 | 4A | | | | 600 | | | 120 | | .9 | 15 | 17k | | | | TS5 |
| GMI-89 | TET | SIN | T32 | | H | 25.0 | 4000 | 25k | 20A | 1.h | 25k | 1k | | | | 22.0 | | | 60.0 | 12.0 | | |
| GU89A | TRI | SIN | W24 | | W | 11.0 | 124A | 8k | 9A | 5.k | 1k | | | 3A | | 10.0 | 20 | | 23.3 | 17.5 | 100 | |
| GU89B | TRI | SIN | A24 | | W | 11.0 | 124A | 8k | 9A | 5.k | 1k | | | 3A | | 10.0 | 20 | | 23.3 | 17.5 | 100 | |
| M89 | TRI | SIN | | | | 11.0 | 6300 | | | h4.5 | 1k | | | | | 5.0 | 9 | 1800 | | | | |
| GMI-90 | TET | SIN | T46 | | H | 25.0 | 7800 | 33k | 40A | 1.h | 33k | | | | | 4.0 | | | 1h | 16.0 | | |
| GS90B | TRI | SIN | C12 | | H | 12.6 | 1100 | 2k | 4500 | 15.0 | 1k | | | 175 | | 19.5 | | | | | 3G | |
| G91 | TRI | SIN | | | | 11.0 | 6200 | | | | 600 | | | 400 | | .9 | 10 | 5k | | | | P10 |
| GKE100 | TET | SIN | T20 | | H | 11.0 | 2A | <2k | 500 | 1.h | 15k | 250 | 2 | 500 | 6.5 | 2.8 | 225 | | 15.5 | | 20 | TE4 |
| GM100 | TRI | SIN | T60 | | W | 17.0 | 18A | 5k | 1600 | 1.k | 1k | | | 600 | | 6.5 | 18 | | | | IF | |
| G120 | TRI | SIN | | | | 16.5 | 52A | | 11A | 5.k | 4k | | | 700 | | | 14 | | | | | |
| GI-150 | TRI | SIN | C8 | | H | 12.6 | 815 | 800 | <5A | 20.0 | 400 | | | 15 | | 10.0 | | | | | 4G | |
| GKE150 | TET | SIN | | | H | 11.0 | 6300 | | 420 | 1.h | 3k | 500 | | | | 2.0 | 350 | | | | | TE4 |
| GU150 | TRI | SIN | | | | 11.0 | 10A | | 710 | h1.5 | 2k | | | | | 2.2 | 17 | | | | 85 | |
| M150 | TRI | SIN | | | | 11.0 | 6300 | | 420 | h1.5 | 3k | | | | | 1.4 | 11 | | | | | |
| G256 | TRI | SIN | | | | | | | | 30.0 | 450 | | | | | | | | | | 500 | |
| GKE300 | TET | SIN | | | H | 17.0 | 10A | | 750 | 4.h | 3k | 500 | | | | 3.9 | 400 | | | | | |
| M400 | TRI | SIN | | | | 17.0 | 18A | | 2300 | 4.h | 1k | | | | | 6.0 | 10 | | | | | |
| M401 | TRI | SIN | | | | 16.0 | 10A | | 1200 | 4.h | 10k | | | | | 2.9 | 52 | | | | | |
| G410 | TRI | SIN | | | | 10.0 | 450 | | | 10.0 | 400 | | | | | 4.0 | 23 | | 2.9 | 2.7 | | |
| G411 | PND | SIN | | | | 10.0 | 600 | 400 | | 20.0 | 400 | 200 | 55 | 112 | 5.0 | 5.5 | | | 11.0 | 7.0 | | |
| G412 | PND | SIN | | | | 20.0 | 220 | 750 | | 20.0 | 750 | 250 | 40 | 57 | 11.0 | 3.0 | | | 6.5 | 6.0 | | P10 |
| G413 | PND | SIN | | | | 20.0 | 500 | 750 | | 40.0 | 750 | 250 | 55 | 90 | 15.0 | 4.5 | | | 11.0 | 10.5 | | P10 |
| G414 | PND | SIN | | | | 20.0 | 1400 | 1k | | 1.h | 1k | 250 | 50 | 65 | 10.0 | 6.0 | | | 21.0 | 19.0 | | P15 |
| G417 | TRI | SIN | | | | 5.0 | 1150 | | | 20.0 | 400 | | | | | 1.0 | 19 | | 1.9 | 1.0 | | TS9 |
| G418 | PND | SIN | | | F | 5.0 | 900 | 400 | | 20.0 | 400 | 225 | 50 | 85 | 20.0 | 4.0 | | | 12.5 | 10.0 | | |
| G422 | PND | SIN | | | | 20.0 | 3250 | 1k | | 1.h | 750 | 300 | 60 | 180 | 40.0 | 3.0 | | | 15.5 | 15.5 | | |
| G424 | PND | SIN | | | | 20.0 | 4600 | 1k | | 2.h | 1k | 400 | 140 | 300 | 80.0 | 5.0 | | | 27.0 | 33.0 | | |
| G425 | PND | SIN | | | | 20.0 | 22A | 4k | | h7.5 | 4k | 1k | 100 | 350 | 70.0 | 4.0 | | | 21.0 | 18.0 | | |
| G430 | TRI | SIN | | | | 22.0 | 51A | 12k | | 10.k | | | | | | | 45 | | | | | |
| G431 | TRI | SIN | W16 | | W | 22.0 | 102A | 15k | | 20.k | 5k | | | 3A | | 12.0 | 50 | | 25.0 | 1.5 | 25 | |
| G431A | TRI | SIN | W | | | 22.0 | 102A | 15k | 12A | 20.k | 5k | | | 3A | | 12.0 | 50 | | 25.0 | 1.5 | 25 | |
| G433 | TRI | SIN | T46 | | W | 33.0 | 210A | 15k | | 60.k | 6k | | | 5A | | 32.0 | 45 | | 80.0 | 67.0 | 20 | |
| G433A | TRI | SIN | | | | 33.0 | 210A | 15k | 50A | 60.k | 6k | | | 5A | | 32.0 | 45 | | 80.0 | 6.0 | 20 | |
| M435 | TRI | SIN | | | | 20.0 | 24A | | | 1.k | 5k | | | | | 6.0 | 9 | | | | | |
| G441 | TRI | SIN | | | | 11.0 | 51A | | | k2.5 | 7k | | | | | | 40 | | | | | |
| G-450 | TRI | SIN | W38 | | W | 16.0 | 51A | 10k | | 10.k | 5k | | | 4A | | 7.0 | 44 | | | | 20 | |
| G-452 | TRI | SIN | W40 | | W | 22.0 | 102A | 15k | | 20.k | 5k | | | 4A | | 12.5 | 40 | | | | 25 | |
| G-454 | TRI | SIN | W38 | | W | 22.5 | 71A | 10k | | 20.k | 5k | | | 4A | | 10.0 | 45 | | | | 20 | |
| G472 | TRI | SIN | | | | 2.5 | 14A | | | 1.h | k | 18k | | | | 2.5 | 140 | | | | | |
| G484 | TRI | SIN | A30 | | W | 22.0 | 60A | 9k | | 5.k | 3k | | | A | | | 9 | | | 23.0 | 320 | |
| GK750 | TRI | SIN | | | | 5.0 | 10A | | | h2.5 | 3k | | | | | 6.6 | 37 | | 5.8 | 2.9 | 40 | |
| M800 | TRI | SIN | | | | 17.0 | 8A | | 800 | 8.h | 10k | | | | | 2.2 | 16 | | | | | |
| G807 | BEA | SIN | S16 | | H | 6.3 | 900 | 750 | 120 | 30.0 | 600 | 275 | 90 | 100 | 6.5 | 6.0 | | | 12.0 | 7.0 | 60 | 5AW |
| G811 | TRI | SIN | | | | 6.3 | 400 | | | 50.0 | 1k | | | | | | 160 | | 5.6 | 5.5 | 100 | T1S |
| G837 | PND | SIN | | | | 12.6 | 700 | | 200 | | 500 | 200 | 85 | | 30.0 | 3.4 | | | 16.0 | 10.0 | | |
| G889 | TRI | SIN | | | | 11.0 | 125A | | | 5.k | 7k | | | | | | 21 | | 23.3 | 3.0 | 100 | |
| G891 | TRI | SIN | | | | 11.0 | 60A | | | k3.5 | 8k | | | | | | 8 | | | | | |
| GKE1000 | TET | SIN | | | | 17.0 | 18A | | | h7.5 | 4k | 500 | | | | 3.0 | 150 | | 22.0 | 0.2 | | |
| G1625 | BEA | SIN | | | | 12.6 | 450 | | | 25.0 | 600 | | | | | 6.0 | | | 11.0 | 7.0 | | |
| GK2000 | TRI | SIN | | | | 16.0 | 51A | | 1A | 10.k | 8k | | | | | 7.0 | | | | | | |
| GK3000 | TRI | SIN | | | | 17.0 | 18A | | 1600 | 1.k | 10k | | | | | 5.2 | 200 | | | | | |
| GI-3100 | TRI | SIN | | | | 6.3 | 1100 | | | 10.0 | 2k | | | | | 2.2 | 16 | | 2.6 | 1.1 | 300 | |
| G40011 | TRI | SIN | | | | 15.0 | 70A | | | 3.h | 4k | | | | | 4.0 | 150 | | 5.3 | 1.2 | | |

| Type No. | Kind | Type | Bulb | Gas | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Typical $E_b$ V | Typical $I_b$ mA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EVU-25/1.0 | IGN | | T1H | HG | C | | | 12h | 400A | | |
| EVU-50/1.0 | TRI | IGN | T33 | HG | C | | | 12h | 900A | | 50A |
| EVU-100/1.0 | IGN | | T2H | HG | C | | | 12h | 2kA | | |
| GG-1-0.3/8 | DIO | SIN | T14 | AR | H | 6.3 | 4A | 8k | 1A | 30 | <1 |
| GG1-0.5/5 | DIO | SIN | S21 | KX | F | 2.5 | 8500 | 5k | 1500 | | 500 |
| GG-1-0.5/20 | DIO | SIN | T21 | AR | H | 6.3 | 5A | 20k | 3500 | 30 | <1 |
| GG-1-1/22 | DIO | SIN | T30 | GS | H | 6.3 | 14A | 22k | 1A | 30 | 1 |
| GG-1-2/5 | DIO | SIN | T22 | XE | H | 6.3 | 6500 | 9k | 6500 | 16 | 2 |
| GG-1-2/16 | DIO | SIN | T30 | AR | H | 6.3 | 16A | 16k | 7A | 30 | 2 |
| GR1-02/15 | DIO | SIN | S16 | HG | F | 5.0 | 3300 | <2k | 800 | | 235 |
| GR-1-0.3/8.5 | DIO | SIN | S21 | AR | F | 6.3 | 4A | 8k | 1A | 30 | <1 |
| GR-1-25/15 | DWD | SIN | | GS | F | 5.0 | 3A | <2k | 800 | 500 | 125 |
| GR1-0.25/1.5 | DWD | SIN | S17 | | F | 5.0 | 3300 | 16h | 800 | | 235 |
| I/1/25/0.8 | TRI | IGN | T19 | HG | C | | | 800 | 25A | | 10A |
| I-1-50/20 | TRI | IGN | T47 | HG | C | | | 20k | | | 50A |
| I-1-70/0.8 | TRI | IGN | W48 | HG | C | | | 800 | | | 70A |
| I-1-100/1.5 | TRI | IGN | W52 | HG | C | | | 15h | 3hA | | 1hA |
| I-1-140/0.8 | TRI | IGN | W56 | HG | C | | | 800 | | | 1hA |
| I-1-350/0.8 | TRI | IGN | W70 | HG | C | | | 800 | | | 3hA |
| I-2-50/1.5 | TRI | IGN | W52 | HG | C | | | 15h | 1hA | | 50A |
| I2-70/0.8 * | TRI | IGN | W78 | HG | C | | | 800 | 10hA | 220 | 70A |
| I2-140/0.8 * | TRI | IGN | W1h | HG | C | | | 800 | 16hA | 220 | 140A |
| I2-200/1.5 * | TET | IGN | W1h | HG | C | | | 15h | 10kA | | 200A |
| I2-350/0.8 * | TRI | IGN | W1h | HG | C | | | 800 | 32hA | 220 | 350A |
| I-20/1.5 | TRI | IGN | W25 | HG | C | | | 15h | 60A | | 20A |
| I-20/1500 | DIO | IGN | W19 | HG | C | | | 15h | 1kA | | 20A |
| I-50/1.5 | TRI | IGN | W35 | HG | C | | | 15h | 1hA | | 50A |
| I-50/1500 | DIO | IGN | W26 | HG | C | | | 15h | 2kA | | 50A |
| I-100/1.0 | TRI | IGN | W70 | HG | C | | | 1k | 6hA | | 1hA |
| I-100/5.0 | TRI | IGN | 123 | HG | C | | | 5k | 3hA | | 1hA |
| I-100/1000 | DIO | IGN | W33 | HG | C | | | 1k | 2kA | | 100A |
| I-100/5000 | DIO | IGN | W33 | HG | C | | | 5k | 300A | | 100A |
| I-150/1.0 | TRI | IGN | W52 | HG | C | | | 1k | 1hA | | 1hA |
| I-200/1.5 | TRI | IGN | W65 | HG | C | | | 15h | 6hA | | 2hA |
| IVS200/2 | | IGN | W | HG | C | | | <3k | 450A | 16 | 150 |
| T-409 | DIO | IGN | G14 | HG | C | | | 3k | 200A | | |
| T-410 | DIO | IGN | G17 | HG | C | | | 14k | 20A | | |
| T-411 | DIO | IGN | G17 | HG | C | | | 19k | 100A | | |
| V1-00313 | DIO | SIN | T10 | | F | 2.5 | 4600 | 13k | 3000 | | 30 |
| V1-02/20 | DIO | SIN | T13 | VC | F | 2.5 | 3200 | 20k | 100 | | 20 |
| V1-03/13 | DIO | SIN | T9 | VC | F | 2.5 | 4650 | 13k | 3A | | 30 |
| V1-05/70 | DIO | SIN | T32 | VC | F | 5.0 | 32A | 70k | 8A | | 50 |
| V1-06/30 | DIO | SIN | | | | | | 30k | | | 60 |
| V1-1/2.5 | DIO | SIN | W12 | VC | F | 15.0 | 12A | 25h | 1000 | | |
| V1-1/30 | DIO | SIN | T18 | VC | F | 5.0 | 5A | 30k | 600 | | 100 |
| V1-1/40 | DIO | SIN | T17 | VC | F | 5.0 | 6A | 40k | 750 | | 100 |
| V1-2/40 | DIO | SIN | | | | | | 40k | | | 200 |
| V1-3/16 | DIO | SIN | A27 | VC | H | 6.3 | 10A | 16k | 1500 | | 300 |
| V1-3/70 | DIO | SIN | | | | | | 70k | | | 300 |
| V1-4/40 | DIO | SIN | G70 | VC | | 7.5 | 48A | 44k | 2A | | 450 |
| V1-15/55 | DIO | SIN | T31 | VC | F | 6.3 | 7500 | 55k | 700 | | 180 |
| VG1/8500 | DIO | SIN | | GS | F | 2.5 | 5500 | 8k | 1A | 6k | 300 |
| VG-129 | DIO | SIN | S20 | HG | F | 2.5 | 9A | 7k | 1500 | | 500 |
| VG-161 | DIO | SIN | | HG | F | 2.5 | 6A | <3k | 1A | <2k | 300 |
| VG-163 | DIO | SIN | G70 | HG | F | 5.0 | 32A | 15k | 50A | | 16A |

| Type No. | Kind | Type | Bulb | Gas | Cathode | $E_f$ V | $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Typical $E_b$ V | Typical $I_b$ mA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VG-176 | DIO | SIN | G16 | | M | 2.5 | 11A | 150 | 9A | 20 | |
| VG-236 | DIO | SIN | G38 | HG | F | 2.5 | 20A | 7k | 4A | | 1300 |
| VG-237 | DIO | SIN | G32 | | F | 5.0 | 22A | 10k | 10A | | 3500 |
| VG-252 | DIO | SIN | | | | 2.5 | | 300 | 30A | 15 | |
| VI-1-5/20 | DIO | SIN | T16 | VC | H | 6.3 | 29A | 20k | 5000 | | |
| VI-1-5/30 | DIO | SIN | A16 | VC | W | 6.3 | 95A | 30k | 2000 | | |
| VI-1-18/32 | DIO | SIN | A23 | VC | H | 17.0 | 3700 | 40k | 20A | | 500 |
| VI-1-27/35 | DIO | SIN | A40 | VC | H | 9.0 | 145A | 35k | 70A | | |
| VI-1-30/25 | DIO | SIN | | | | 10.0 | 6A | 25k | 30A | | 30 |
| VI-1-70/32 | DIO | SIN | | | | | | 32k | 70A | | |
| VI-1-10050 | DIO | SIN | | | | | | 50k | 100A | | |
| VI-2-27/35 | DIO | SIN | W20 | VC | H | 9.0 | 145A | 35k | 70A | | |
| VI-2-70/32 | DIO | SIN | A21 | VC | H | 12.6 | 5300 | 32k | 70A | | 70 |
| VI-2-100/50 | DIO | SIN | A30 | VC | H | 12.6 | 36A | 50k | 100A | | |
| VO-1 | DIO | SIN | | | H | 4.0 | 3200 | | | 850 | 40 |
| VO-125 | DIO | SIN | | | F | 4.0 | 700 | | | 250 | 60 |
| VO-188 | DWD | SIN | | | F | 4.0 | 2A | | | 500 | 155 |
| VO-196 | DIO | SIN | | | H | 4.0 | 3A | | | 750 | 250 |
| VO-197 | DWD | SIN | | | F | 4.0 | 5A | | | 250 | 300 |
| VO-202 | DWD | SIN | | | F | 4.0 | 700 | | | 250 | 60 |
| VO-230 | DIO | SIN | | | F | 4.0 | 700 | | | 350 | 50 |
| VO-239 | DIO | SIN | | | F | 4.0 | 2A | | | 850 | 180 |
| VO-360 | DIO | SIN | | | F | 4.0 | 1A | | | 500 | 100 |
| VU-111D | DIO | SIN | S | | F | 4.0 | 1500 | 12k | 400 | 160 | 80 |
| 2V6 | DIO | ARC | | HG | C | | | 400 | 6A | | |
| 2V12 | DIO | ARC | | HG | C | | | 1k | 1A | | |
| 2V20 | DIO | ARC | | HG | C | | | 750 | 20A | | |
| 2VN12 | DIO | ARC | | HG | C | | | 450 | 12A | | |

## Group V – VOLTAGE REGULATOR TUBES

| Type No. | | Kind | Gas | | Cath Mat'l | Volt. range | | Cur. range | | Dimen | | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Kind | Pres mm | | Max V | Min V | Max mA | Min mA | Dia mm | Lth mm | |
| SG1P | * | REG | AHE | | | 190 | 145 | 30 | 5 | 22 | 65 | |
| SG2P | | REG | AKN | | | 150 | 104 | 30 | 5 | 22 | 65 | |
| SG2S | | REG | NA | 30 | | 110 | 70 | 40 | 5 | 32 | 75 | |
| SG3P | | REG | AHE | | | 170 | 144 | 40 | 5 | 22 | 65 | |
| SG3S | | REG | AHN | 30 | | 133 | 105 | 40 | 5 | 32 | 75 | |
| SG4S | | REG | AHE | 30 | NI | 180 | 145 | 30 | 5 | 32 | 75 | |
| SG5B | | REG | AHE | | | 190 | 142 | 10 | 5 | 10 | 36 | |
| SG7S | | REG | | | | 480 | 390 | 0.1 | 0.003 | | | |
| SG8S | | REG | | | | 970 | 880 | 0.1 | 0.003 | 10 | | |
| SG9S | | REG | | | | 13h | 12h | 0.1 | 0.01 | 10 | | |
| SG10S | | REG | NK | | | 150 | 86 | 15 | 4 | 32 | 40 | |
| SG13P | | REG | AHN | 55 | NI | 180 | 143 | 30 | 5 | 19 | 55 | |
| SG14P | | REG | AHN | | | 125 | 115 | 40 | 20 | 22 | 75 | |
| SG15P | | REG | AHN | 54 | MO | 150 | 104 | 30 | 5 | 19 | 55 | |
| SG15P1 | | REG | | | | 160 | 103 | 30 | 5 | 19 | 60 | |
| SG15P2 | * | REG | | | | 160 | 102 | 30 | 5 | 19 | 65 | |
| SG16P | | REG | AHE | 40 | MO | 130 | 80 | 30 | 5 | 19 | 55 | |
| SG17S | | REG | NEH | | | 1350 | 850 | 60 | 10 | 38 | 189 | |
| SG18S | | REG | NEH | | | 1500 | 950 | 60 | 10 | 38 | 189 | |
| SG19S | | REG | NEH | | | 1650 | 1050 | 60 | 10 | 38 | 189 | |
| SG20G | | REG | | | | 135 | 85 | 15 | 4 | 10 | 45 | |
| SG201S | | REG | NK | 50 | MO | 150 | 86 | 15 | 4 | 32 | 40 | |
| SG202B | | REG | NA | 35 | MO | 140 | 81 | 5 | 1.5 | 10 | 40 | |
| SG203K | | REG | | | | 150 | 79 | 10 | 1 | 12 | 20 | |
| SG226 | | REG | NE | | | 95 | 70 | 40 | 8 | 50 | 130 | |
| SG227 | | REG | NE | | | 95 | 70 | 60 | 10 | 65 | 135 | |
| SG301S | | REG | HY | 16 | NI | 439 | 380 | 0.1 | 0.003 | 12 | 55 | |
| SG302S | | REG | HY | 82 | NI | 970 | 880 | 0.1 | 0.003 | 12 | 55 | |
| SG303S | | REG | HY | 143 | NI | 1350 | 1220 | 0.1 | 0.01 | 12 | 55 | |
| SG304S | | REG | HY | | | 4200 | 3800 | 1 | 0.05 | 25 | 129 | |
| SG305K | | REG | | | | 10k | 9k | 1.5 | 0.05 | 33 | 180 | |
| SG306K | | REG | | | | 26k | 24k | 1.5 | 0.05 | 48 | 245 | |
| SG307K | | REG | HY | | | 157h | 142h | 1.5 | 0.05 | 33 | 181 | |
| SG308K | | REG | HY | | | 21k | 19k | 1.0 | 0.05 | 33 | 181 | |
| SG309K | | REG | HY | | | 315h | 285h | 1.5 | 0.05 | 49 | 251 | |
| SG311S | | REG | | | | 430 | 400 | 1 | 0.05 | | 86 | |

## Group VI – CURRENT REGULATOR TUBES

| Type No. | Kind | Type | Bulb | Volt range | | Cur. range | | Base No. |
|---|---|---|---|---|---|---|---|---|
| | | | | Max V | Min V | Max mA | Min mA | |
| 024B12-18 | BAL | SIN | T10 | 18 | 12 | 264 | 248 | |
| 03B17-35 | BAL | SIN | T14 | 35 | 17 | 325 | 275 | 8ES |
| 03B65-135 | BAL | SIN | T14 | 135 | 65 | 325 | 275 | 8ES |
| 0425B55-12 | BAL | SIN | | 12 | <6 | 460 | 390 | 8ES |
| 085B55-12 | BAL | SIN | T9 | 12 | <6 | 920 | 780 | 8ES |
| 1B5-9 | BAL | SIN | T14 | 9 | 5 | 1080 | 960 | DS7 |
| 1B10-17 | BAL | SIN | T14 | 17 | 10 | 1040 | 960 | DS7 |
| ST2S | BAL | TWN | | 17 | 6 | 2100 | 2000 | DS6 |
| ST3P | BAL | SIN | T6 | 6 | 4 | 880 | 720 | 8ES |

| Type No. | Kind | Bulb | | | Gas | Cathode | | | | Maximum anode | | | | | Avg | Maximum grid | | | | | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Shape | Lth | Diam | | Kind | $E_f$ | $I_f$ | Warm-up min | PIV | $E_F$ | Firing | Tube drop | Pulse | | Bias | Input res | Pulse | | | |
| | | | | | | | | | | | | | | $I_b$ | $I_b$ | | | Ign | Time | $t_r$ | pps |
| | | | mm | mm | | | V | mA | s | V | V | V | V | mA | mA | V | kΩ | V | μs | ns | $10^3$ | |
| TG1B | TRI | T | 36 | 10 | KX | H | 6.3 | 225 | 10 | 240 | 240 | 30 | 20 | 120 | 20 | 100 | 1M | 100 | 30 | 10 | | |
| TG1P | TRI | T | 67 | 19 | HE | H | 6.3 | 1200 | | 4k | | 80 | 34 | | 35 | | | | | | | |
| TG1-0.2/0.5 | TET | T | 38 | 19 | XE | H | 6.3 | 165 | 10 | 500 | 500 | 30 | 16 | 120 | 20 | 15 | 10M | 15 | | | | 8T1 |
| TG1-0.1/0.3 | TRI | T | 97 | 35 | AR | H | 6.3 | 660 | 30 | 300 | 300 | | 20 | 300 | 75 | 80 | 500 | 80 | | | 20 | 8T3 |
| TG1-0.1/1.3 | TET | T | 105 | 33 | KX | H | 6.3 | 600 | 10 | 1300 | 650 | 25 | 11 | 500 | 100 | 100 | 10M | 100 | 5 | 60 | 10 | 8T2 |
| TG1-0.5/12 | TRI | T | 225 | 62 | AR | H | 6.3 | 5A | 120 | 12k | | 500 | 27 | 3A | 500 | 70 | 100 | | | | | |
| TG1-1.0/0.8 | TET | T | 130 | 61 | KX | H | 6.3 | 300 | 60 | 800 | 420 | 50 | 15 | 6A | 1A | 15 | 1M | 15 | | | | 10T |
| TG1-1.5/2 | TRI | T | 160 | 68 | XE | H | 6.3 | 7500 | | 2k | | | 16 | 5A | 15h | 15 | | | | | | |
| TG1-1.6/1.3 | TRI | | 201 | 66 | XE | H | 5.0 | 6A | 90 | 1300 | 1k | | 20 | 10A | <2A | 100 | 100 | 100 | | | | |
| TG1-2/8 | TRI | T | 180 | 70 | XE | H | 5.0 | 12A | | | | 140 | 20 | 8A | | | | | | | | |
| TG1-2.5/4 | TRI | S | 255 | 85 | KX | F | 5.0 | 12A | 60 | 4000 | 3k | 140 | 20 | 8A | <3A | 100 | 100 | 100 | | | | 4T2 |
| TG1-2.5/10 | TET | T | 285 | 90 | XE | H | 5.0 | 15A | | 10k | | | 16 | 8A | 25h | 50 | | | | | | |
| TG1-3.2/1.3 | TRI | | 222 | 66 | XE | H | 5.0 | 8A | 90 | 1300 | 1k | | 20 | 20A | 3A | 100 | 100 | 100 | | | | |
| TG1-5-3 | TRI | T | 350 | 110 | KX | F | 5.0 | 21A | | 3k | | | 22 | 15A | 5A | 20 | | | | | | |
| TG1-6.4/1.3 | TRI | | 242 | 66 | XE | H | 5.0 | 13A | 120 | 1300 | 1k | | 20 | 40A | 6A | 100 | 100 | 100 | | | | |
| TG1-12.5/1.3 | TRI | T | 292 | 90 | XE | H | 5.0 | 16A | | 13h | | | 20 | 80A | 12A | 20 | | | | | | |
| TGI-1B | TRI | T | 40 | 10 | XE | H | 3.1 | 1500 | | 500 | | 30 | | 20A | | 6 | 1M | | | | | |
| TGI-1-3/1 | TET | T | 67 | 19 | AR | H | 6.3 | 1100 | 90 | 1000 | 1k | | 35 | 3A | 6 | | 40 | | 12 | 300 | 5 | T22 |
| TGI-1-5/1.1 | TRI | T | 67 | 19 | HY | H | 6.3 | 2000 | | 1100 | | 70 | | 5A | 10 | 100 | | | | | 15 | T23 |
| TGI-1-10/1 | TRI | T | 80 | 32 | HY | H | 6.3 | 2600 | 60 | 1000 | 2k | | | 20A | 50 | 100 | 15 | | 6 | 150 | 40 | |
| TGI-1-35/3 | TRI | T | 135 | 38 | HY | H | 6.3 | 2500 | 180 | 1500 | 3k | | 140 | 35A | 45 | | 100 | | 6 | 500 | | |
| TGI-1-50/5 | TRI | T | 160 | 45 | HY | H | 6.3 | 3600 | 180 | 5k | 5k | | 160 | 50A | 50 | | | | | <1 | 4 | |
| TGI-1-90/8 | TRI | T | | 60 | HY | H | 6.3 | 7000 | | 8k | | | | 90A | 100 | | | | | <1 | 2 | |
| TGI-1-130/8 | TRI | T | 180 | 64 | HY | H | 6.3 | 500 | | 3k | | | | 1hA | 150 | | | | <1 | | 2 | |
| TGI-1-130/10 | TRI | T | 205 | 62 | HY | H | 6.3 | 5A | 240 | 10k | 10k | | 150 | 1hA | 250 | | | | | | 4 | |
| TGI-1/260/12 | TRI | T | 285 | 90 | HY | H | 6.3 | 12A | 180 | 12k | | | | 3hA | 400 | | | 200 | | | <5 | |
| TGI-1-325/16 | TRI | T | 230 | 66 | HY | H | 6.3 | 8500 | | 16k | | | 150 | 3hA | 200 | | | 200 | <1 | | 1 | |
| TGI-1-400/3.5 | TRI | S | 280 | 85 | HY | H | 5.0 | 18A | 180 | 3500 | 1k | | | 4hA | 300 | | 2 | | 20 | | | |
| TGI-1-400/16 | TRI | T | 268 | 78 | HY | H | 6.3 | 10A | | 16k | | | 170 | 4hA | 500 | | | 200 | | | <1 | |
| TGI-1/500/16 | TRI | T | 138 | 70 | HY | H | 6.3 | 15A | 300 | 16k | | | | 5hA | 500 | | | 400 | 10 | | 1 | |
| TGI-1/500/20 | TRI | T | 300 | 110 | | H | 6.3 | 19A | 300 | 20k | | | | 5hA | 51A | | | 400 | 10 | | 5 | |
| TGI-1-700/25 | TRI | T | 450 | 135 | HY | H | 6.3 | 20A | | 20k | | | 200 | 7hA | 1A | | | 700 | <1 | | <1 | |
| TGI1-1000/25 | TRI | T | 154 | 110 | | H | 6.3 | 20A | 300 | 25k | | | 150 | 1hA | 51A | | | 500 | 50 | | <1 | |
| TGI1-2000/35 | TRI | T | 420 | 172 | | H | 6.3 | 55A | 300 | 35k | | | | 2kA | 3A | | | 1k | 10 | | <1 | |
| TGI1-2500/35 | TRI | T | 600 | 215 | | H | 6.3 | 55A | 720 | 35k | | | | 2kA | 25h | | | 1k | 10 | | <1 | |
| TKH-1 | TRI | | 85 | 34 | NE | C | | | | | 150 | | 60 | 100 | 30 | | | | | | | |
| TKH1B | TRI | | | | | C | | | | | 160 | | 85 | 30 | 10 | | 10M | 85 | | | | |
| TKHI-1G | PND | T | 45 | 13 | AR | C | | | | 275 | 205 | | | 60A | 25A | | 100 | | | | | |
| TR1-2.5/3 | TRI | T | 120 | 66 | HG | H | 5.0 | 7A | 300 | 3k | | | 15 | 15A | 25h | | | | | | | |
| TR1-5/2 | TRI | T | 275 | 90 | HG | H | 5.0 | 15A | | 2k | | | 15 | 15A | 500 | 24 | | | | | | |
| TR1-6/3 | TRI | T | 160 | 66 | HG | H | 5.0 | 13A | 300 | 3k | | | 15 | 40A | 6A | | | | | | | |
| TR1-6/15 | TRI | T | 350 | 90 | HG | H | 5.0 | 23A | 900 | 15k | | | 18 | 20A | 6A | 100 | 5 | | | | | |
| TR1-15/3 | TRI | T | 250 | 90 | HG | H | 5.0 | 22A | 480 | 3k | | | 15 | 90A | 15A | 100 | 100 | | | | | |
| TR1-15/15 | TRI | T | 490 | 95 | HG | H | 5.0 | 40A | | 15k | | | 20 | 47A | 15A | 100 | | | | | | |
| TR1-15/20 | TRI | T | 440 | 108 | HG | H | 5.0 | 20A | 900 | 20k | | | 18 | 45A | 15A | 150 | 5 | | | | | |
| TR1-40/15 | TRI | G | 700 | 245 | HG | H | 5.0 | 68A | 3k | 15k | | | 20 | 1hA | 40A | 100 | 5 | | | | | |
| TR1-85/15 | TRI | T | 760 | 270 | HG | H | 5.0 | 130A | | 15k | | | 20 | 3hA | 85A | 100 | | | | | | |
| TR1-130/15 | TRI | T | | 220 | HG | H | 5.0 | 130A | | 15k | | | | 3hA | 85A | | | | | | | |
| TG2-0.1/0.1 | TRI | T | 105 | 40 | XE | H | 6.3 | 600 | 10 | 100 | 100 | | 11 | 300 | 100 | 2 | 5M | | | | | |
| TG2-0.5/12 | TRI | T | 225 | 62 | HY | H | 6.3 | 7A | | 12k | | | 70 | <4A | 500 | 100 | | | | | | |
| TG2.5/5 | TRI | | | | | F | 5.0 | 13A | | 3k | | | | 8A | 2A | 18 | | | | | | |
| TGI-2-260/12 | TRI | T | 285 | 90 | HY | H | 6.3 | 12A | | 12k | | | | | 400 | | | 200 | | | <5 | |
| TGI-2-325/16 | TRI | | | | HY | F | 6.3 | 8500 | | 16k | | | | 3hA | 200 | | | | | | | |
| TGI-2-400/35 | TRI | | | | HY | F | 5.0 | 18A | | 3500 | | | | 4hA | 300 | | | | | | | |
| TKH-2 | TRI | | 57 | 19 | HE | C | | | | 2800 | 350 | | 80 | 100 | 12 | | 8M | | | | 1 | T24 |
| TG3-0.1/1.3 | TET | T | 57 | 19 | KX | H | 6.3 | 600 | | 1300 | 650 | 30 | 11 | 500 | 100 | 100 | 10M | 100 | 10 | 60 | 10 | 7EM |
| TG3-2.5/10 | TRI | T | 290 | 90 | KX | H | 5.0 | 20A | | 10k | | | 25 | 8A | <3A | 30 | | | | | | |
| TKH3B | TET | T | 40 | 10 | NA | C | | | | | 190 | 110 | | 10 | 2 | 85 | 20M | 67 | 15 | 1hμ | 1 | |
| LP-4 * | COM | | 29 | 40 | | H | 4.0 | 270 | | 150 | | | | 1 | | 70 | | | | | | |
| TKH4B | TET | | 40 | 10 | NA | C | | | | 225 | 180 | 115 | | 7 | 3 | | 99M | 92 | 10 | | | |

| Type No. | | Kind | Bulb | | | Gas | Cathode | | | | Maximum anode | | | | | Avg | Maximum grid | | | | | | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Shape | Lth mm | Diam mm | | Kind | $E_f$ V | $I_f$ mA | Warm-up min s | PIV V | $E_F$ V | Firing V | Tube drop V | Pulse $I_b$ mA | $I_b$ mA | Bias V | Input res kΩ | Pulse Ign V | Pulse Time μs | Pulse $t_r$ ns | Pulse pps $10^3$ | |
| LP-5 | * | COM | | 29 | 40 | | H | 4.0 | 270 | | 100 | | | | 1 | 4 | 40 | | | | | | |
| TKH-5A | | TRI | | 25 | 7 | NA | C | | | | | 270 | | 110 | <1 | <1 | | | | | | | |
| TKH-5B | | TRI | T | 25 | 7 | NE | C | | | | 270 | 225 | | | <2 | <1 | 150 | | | | | | |
| LP-6 | * | COM | | 108 | 58 | | H | 6.3 | 1600 | | 275 | | | | 1 | 8 | 350 | | | | | | |
| TKH-6G | | HEX | T | 50 | 13 | | C | | | | | 285 | 130 | | | 1 | | | 100 | 20 | | | |
| LP-7 | * | COM | | 62 | 35 | | H | 4.0 | 270 | | 25 | | | | | <1 | 13 | | | | | | |
| TKH-7G | | PND | T | 50 | 13 | | C | | | | 285 | | | | 2 | 1 | | | 80 | | 200 | | |
| TKH-8G | | HEX | T | 40 | 13 | | C | | | | | 285 | 130 | | | 1 | | | 80 | 10 | | | |
| TKH-9G | | HPT | T | 50 | 13 | | C | | | | 285 | | | | 2 | 1 | | | 40 | | 200 | | |
| TKH-11G | | TET | T | 60 | 13 | | C | | | | | 215 | | | | 10 | | | 35 | 7 | | | |
| TKH-12G | | HPT | T | 50 | 13 | | C | | | | 275 | | | | 1K | 10 | | | 50 | | | | |
| TKH-13 | | PND | T | 50 | 13 | | C | | | | 220 | | | | 5 | 1 | | | 100 | | 5 | | |
| MTKH90 | | TRI | | 30 | 12 | NE | C | | | | | 160 | | 50 | 20 | | | 20M | 85 | | | | |
| TGI-200 | | TRI | S | 280 | 85 | KX | F | 5.0 | 15A | 60 | 3500 | | | 20 | 2hA | | 18 | 200 | | | | | |
| TG212M | | TRI | T | 105 | 35 | AR | H | 4.0 | 950 | 30 | 300 | 300 | | 27 | 500 | 125 | 7 | 100 | | | | | |
| TG-213 | | TRI | | | | | F | 2.5 | 9A | | | | | | 1A | 500 | 15 | | | | | | |
| TG-235 | | TRI | | | | | F | 5.0 | 12A | | | | | | 6A | 1A | 16 | | | | | | |

| Type No. | | Meth of Focus | Meth of Defl | Dimensions Diam cm | Dimensions l.th cm | Use | Cathode | Typical Heater E V | Typical Heater I mA | Typical $E_{Foc}$ V | Typical $E_{A_1}$ kV | Typical $E_{A_2}$ kV | Typical $E_{A_3}$ kV | Typical $E_{A_4}$ kV | Typical $E_{C_1}$ V | Maximum $I_K$ μA | Maximum Defl sens mm/V | Screen Col | Screen Pers | Defl angle deg | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LI-1 | | | | 4 | 17 | IC | H | 6.3 | 510 | 400 | 1.2 | | | | 50 | | | | | | F8 |
| LI-3 | | ELM | ELM | 1 | | IC | H | 12.6 | 300 | 650 | 1.0 | | | | 50 | 250 | | | | | A4 |
| LN-4 | * | ELS | ELS | 17 | 49 | ST | H | 6.3 | 550 | | 1.5 | 0.2 | | | 100 | 6 | | | | | |
| LI-6 | | ELM | ELM | 2 | 32 | IC | H | 12.6 | 300 | 850 | 1.3 | | | | 50 | 250 | | | | | A4 |
| LI-7 | * | ELM | ELM | 13 | 32 | IC | H | 12.6 | 300 | 850 | 1.3 | | | | 50 | 250 | | | | | A4 |
| LN-7 | * | ELM | ELM | 9 | 26 | ST | H | 12.6 | 300 | | 0.6 | | | | 65 | | | | | | |
| LN-8 | * | ELS | ELS | 9 | 36 | ST | H | 6.3 | 550 | | 0.2 | 1.5 | | | 70 | | | | | | |
| LI-13 | * | ELM | ELM | 8 | 39 | IM | H | 6.3 | 600 | 285 | 0.4 | 1.5 | | | 70 | 150 | | | | | |
| LI-14 | | ELM | ELM | 3 | 39 | IM | H | | | 270 | 0.6 | 0.9 | | | 35 | 150 | | | | | C14 |
| LI-15 | | ELM | ELM | 3 | 39 | IM | H | 6.3 | 600 | 285 | 0.6 | 0.9 | | | 35 | 150 | | | | | C14 |
| LI-17 | * | ELM | ELM | 8 | 39 | IM | H | 6.3 | 600 | 285 | 0.4 | 1.5 | | | 95 | 150 | | | | | |
| LI-18 | | ELM | ELM | <2 | 16 | VI | H | 6.3 | 450 | 600 | | | | | 80 | 1 | | | | | B9 |
| LI-22 | * | ELM | ELM | 9 | 30 | IM | H | 6.3 | 550 | | 1.1 | | | | 120 | 250 | | | | | |
| LI-23 | * | ELM | ELM | 3 | 16 | VI | H | 6.3 | 600 | | 0.3 | 0.3 | | | 125 | | | | | | |
| LI-101 | * | ELM | ELM | 15 | 31 | IC | H | 6.3 | 300 | 800 | 1.2 | | | | 5 | 350 | | | | | |
| LI-201 | * | ELM | ELM | 8 | 39 | IM | H | 6.3 | 600 | | 0.4 | 1.5 | | | | 150 | | | | | |
| LI-202 | * | ELM | ELM | 8 | 39 | IM | H | 6.3 | 600 | 450 | 0.4 | 1.5 | | | 150 | 25 | | | | | |
| LI-203 | * | ELM | ELM | 8 | 39 | IM | H | 6.3 | 600 | | 0.5 | | | | | 150 | | | | | |
| LI-207 | * | ELM | ELM | 8 | 39 | IM | H | 6.3 | 600 | | 0.4 | 1.5 | | | | 10 | | | | | |
| LI-212 | * | ELM | ELM | 4 | 23 | IM | H | 6.3 | 260 | | 0.3 | 1.8 | | | | 200 | | | | | |
| LO-247 | * | ELS | ELS | 11 | | OS | | 4.0 | 700 | 112 | 0.8 | | | | 16 | 160 | 0.2 | GR | MD | | |
| LO-248 | | ELS | ELS | 11 | | OS | | 4.0 | 700 | 600 | 3.0 | | | | 50 | | | GR | MD | | |
| LO-249 | | ELS | ELS | 11 | | OS | | 4.0 | 700 | 600 | 3.0 | | | | 50 | | | GR | MD | | |
| LI-401 | | ELM | ELM | 34 | 16 | | | 6.3 | 450 | | | | | | 150 | | | | | | |
| LI-407 | * | ELM | ELM | 2 | 11 | VI | H | 6.3 | 80 | | | | | | 150 | 50n | | | | | |
| LI-408 | * | ELM | ELM | 3 | 13 | VI | H | 6.3 | 90 | | | | | | 130 | | | | | | |
| LI-409 | * | ELM | ELM | 3 | 13 | VI | H | 6.3 | 80 | | | 0.3 | | | 125 | 50n | | | | | |
| LI-410 | * | ELM | ELM | 4 | 22 | VI | H | 6.3 | 630 | | 0.7 | 0.4 | | | 300 | 160n | | | | | |
| LI-412 | * | ELM | ELM | 3 | 13 | VI | H | 6.3 | 90 | | 0.3 | 0.3 | | | 60 | 100n | | | | | |
| LI-601 | * | ELM | ELM | 5 | 20 | IM | | | | | | 1.6 | | | 370 | 5m | | | | | |
| LO-709A | | ELS | ELS | 11 | | OS | | 2.5 | 21h | 450 | 2.0 | | | | 50 | | | GR | MD | | |
| PIM-3 | | | | 6 | | IC | | | | | 18.0 | | | | | | | VB | | | |
| PIM-4 | | | | 13 | | IC | | | | | 18.0 | | | | | | | VB | | | |
| 3LK1B | * | ELM | ELM | 3 | 19 | TV | H | 6.3 | 500 | | 2.0 | | | | 40 | | | WH | MD | | |
| 3LO1-I | * | ELS | ELS | 3 | 12 | OS | H | 6.3 | 600 | 100 | 0.5 | | | | 60 | 300 | 0.18 | GR | MD | | |
| 5LO38I | * | ELS | ELS | 5 | 19 | OS | H | 6.3 | 600 | 300 | 1.0 | | | | 60 | 1m | 0.11 | GR | MD | | 11L |
| 6LK1A | * | ELM | ELM | 6 | 27 | PR | H | 6.3 | 600 | | 25.0 | | | | 65 | 100 | | BL | MD | | |
| 6LK1B | * | ELM | ELM | 6 | 27 | PR | H | 6.3 | 600 | | 25.0 | | | | 65 | 100 | | WH | SH | | |
| 6LO1I | * | ELS | ELS | 5 | 14 | OS | H | 6.3 | 600 | 170 | 1.2 | | | | 60 | 300 | 0.15 | GR | MD | | 14A |
| 7LO1M | * | ELS | ELS | 7 | 19 | RA | H | 6.3 | 600 | 167 | 1.4 | 2.8 | | | 76 | | 0.13 | PB | SH | | A12 |
| 7LO55I | * | ELS | ELS | 7 | 19 | OS | H | 6.3 | 600 | 180 | 1.1 | 2.0 | | | 76 | 500 | 0.12 | GR | MD | | A12 |
| 8LK2B | * | ELM | ELM | 8 | 26 | TV | H | 6.3 | 500 | | 3.0 | | | | 45 | 60 | | WH | MD | | |
| 8LM3V | * | ELS | ELM | 8 | 21 | RA | H | 6.3 | 600 | 300 | 0.4 | 4.0 | | | 50 | | | WH | LO | | A7 |
| 8LO3I | * | ELS | ELS | 8 | 30 | OS | H | 6.3 | 600 | 300 | 0.8 | 2.3 | | | 85 | | 1.0 | GR | MD | | |
| 8LO4I | * | ELS | ELS | 8 | 35 | OS | H | 6.3 | 300 | | 0.7 | 3.7 | | | 75 | 300 | 1.5 | GR | MD | | |
| 8LO29I | * | ELS | ELS | 8 | 26 | OS | H | 6.3 | 600 | 350 | 1.5 | | | | 45 | 1000 | 0.17 | GR | MD | | 14G |
| 8LO30I | * | ELS | ELS | 8 | 27 | OS | H | 6.3 | 600 | 400 | 1.5 | | | | 45 | 1000 | 0.17 | GR | MD | | 14J |
| 8LO39V | * | ELS | ELS | 8 | 27 | OS | H | 6.3 | 600 | 400 | 2.0 | 4.0 | | | 60 | | 0.17 | YO | LO | | 14J |
| 9LO1I | * | ELS | ELS | 9 | 35 | OD | H | 6.3 | 600 | | 1.0 | 2.8 | | | 60 | | 0.45 | GR | MD | | |
| 10LK2B | | ELM | ELM | 8 | 32 | PR | H | 1.5 | 25h | | 20.0 | | | | 120 | 200 | | WH | MD | | G8 |
| 10LK3B | * | ELM | ELM | 10 | 30 | PR | H | 6.3 | 500 | | 25.0 | | | | 50 | 200 | | WH | MD | | |
| 10LO2I | * | ELS | ELS | 10 | 36 | OD | H | 6.3 | 350 | | 2.0 | 4.0 | | | 120 | | 0.25 | GR | MD | | |
| 10LO43I | * | ELS | ELS | 10 | 41 | OD | H | 6.3 | 600 | 550 | 2.0 | | | | 60 | | 0.20 | GR | MD | | A25 |
| 11LK1B | | ELS | ELM | 10 | 17 | TV | H | 1.4 | 28h | 450 | 9.0 | | | | 35 | 45 | | | | | |
| 11LM2G | * | ELM | ELM | 11 | 29 | DT | H | 6.3 | 600 | | 20.0 | | | | 80 | | | | | | |
| 11LM3G | * | ELM | ELM | 11 | 36 | DT | H | 6.3 | 600 | | 20.0 | | | | 95 | | | | | | |
| 13LK1B | * | ELM | ELM | 14 | 37 | TV | H | 6.3 | 550 | | 6.0 | | | | 76 | 100 | | WH | MD | | D8 |
| 13LK2B | * | ELM | ELM | S13 | 31 | TV | H | 6.3 | 500 | | 4.0 | | | | 55 | 50 | | WH | MD | | A9 |
| 13LK3B | * | ELM | ELM | 13 | 31 | TV | H | 6.3 | 500 | | 10.0 | | | | 90 | 40 | | WH | MD | | |
| 13LK6B | * | ELM | ELM | 13 | 38 | PR | H | 6.3 | 880 | | 1.2 | 45.0 | | | 150 | 550 | | WH | MD | | |

| Type No. | | Meth of Focus | Meth of Defl | Dimensions Diam cm | Dimensions Lth cm | Use | Cathode | Typical Heater E V | Typical Heater I mA | Typical $E_{FOC}$ V | Typical $E_{A_1}$ kV | Typical $E_{A_2}$ kV | Typical $E_{A_3}$ kV | Typical $E_{A_4}$ kV | Typical $E_{C_1}$ V | Maximum $I_K$ μA | Maximum Defl sens mm/V | Screen Col | Screen Pers | Defl angle deg | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13LK7B | | ELM | ELM | 13 | 39 | TV | H | 6.3 | 880 | | 1.2 | 45.0 | | | 150 | 550 | | WH | MD | | |
| 13LK8A | * | ELS | ELM | 13 | 43 | PT | H | 6.3 | 600 | 500 | 14.0 | | | | 60 | | | BL | SH | | |
| 13LM4V | * | ELM | ELM | 13 | 29 | OS | H | 6.3 | 600 | | 0.4 | 12.0 | | | 50 | 350 | | YO | LO | | A8 |
| 13LM6V | * | ELS | ELM | 13 | 21 | RA | H | 6.3 | 600 | 425 | | 14.0 | | | 50 | | | YO | LO | | |
| 13LM7V | * | ELM | ELM | 13 | 27 | RA | H | 6.3 | 600 | | 0.2 | 12.0 | | | 70 | | | YO | LO | | |
| 13LM31M | | ELM | ELM | 11 | 28 | OS | H | 6.3 | 600 | 250 | 6.0 | | | | 70 | | | YO | LO | | A8 |
| 13LM56I | * | ELM | ELM | 13 | 29 | RA | H | 6.3 | 600 | | 0.2 | 4.0 | | | 50 | 350 | | GR | MD | | A8 |
| 13LM57 | | ELM | ELM | 11 | 28 | OS | H | 6.3 | 600 | 250 | | 6.0 | | | 71 | | | GR | LO | | A8 |
| 13LM58K | | ELS | ELM | 13 | 29 | OS | H | 6.3 | 600 | | 0.7 | 4.0 | | | 50 | | | RD | LO | | A8 |
| 13LN2 | * | ELS | ELS | 13 | 45 | ST | H | 6.3 | 550 | | 0.2 | 3.0 | | | | | | | | | |
| 13L01B | | ELS | ELS | 13 | | | | 2.5 | 2A | 425 | 2.0 | | | | 40 | | | GR | MD | | |
| 13L02B | | ELS | ELS | 13 | | | | 6.3 | 600 | 500 | 1.8 | 3.0 | | | 50 | | | GR | MD | | 14J |
| 13L03I | * | ELS | ELS | 14 | 43 | OS | H | 6.3 | 600 | 410 | 1.5 | 3.0 | | | 50 | 1000 | 0.45 | GR | MD | | A14 |
| 13L04I | | ELS | ELS | 14 | 43 | OS | H | 6.3 | 600 | 425 | 1.5 | 1.5 | 5.0 | 8.0 | 50 | | 0.25 | GR | MD | | A14 |
| 13L05P | | ELS | ELS | 13 | | | | 6.3 | 600 | 500 | 1.8 | 3.0 | | | 50 | | | YO | LO | | 14J |
| 13L06I | * | ELS | ELS | 13 | 34 | OS | H | 6.3 | 600 | 400 | 1.5 | | | | 45 | | 0.38 | GR | MD | | A8 |
| 13L07V | * | ELS | ELS | 14 | 45 | OD | H | 6.3 | 600 | 600 | 2.0 | 4.0 | 8.0 | | 80 | | 0.30 | WH | LO | | |
| 13L09I | * | ELS | ELS | 14 | 45 | OS | H | 6.3 | 600 | 300 | 1.2 | 4.8 | | | 40 | | 1.0 | GR | MD | | |
| 13L036V | * | ELS | ELS | 14 | 43 | OS | H | 6.3 | 600 | 525 | | 2.0 | 4.0 | | 60 | 1000 | 0.29 | WH | LO | | 14J |
| 13L037A | * | ELS | ELS | 14 | 43 | OS | H | 6.3 | 600 | 400 | | 1.5 | 3.0 | | 50 | 1000 | 0.43 | BL | SH | | 14J |
| 13L048V | * | ELS | ELS | 14 | 41 | OD | H | 6.3 | 600 | 550 | 2.0 | | | | 60 | | 0.17 | BL | LO | | A14 |
| 13L054A | * | ELS | ELS | 14 | 43 | OS | H | 6.3 | 600 | 300 | 1.5 | 3.5 | 6.0 | 8.0 | 60 | 750 | 0.20 | BL | LO | | B14 |
| 13L0101M* | | | | 13 | 32 | OS | H | 6.3 | 550 | 11h | 3.0 | 6.0 | | | 140 | | 0.15 | BL | SH | | |
| 13L0102M* | | ELS | ELS | 13 | 61 | OS | H | 6.3 | 750 | 1k | 4.0 | 15.0 | 40.0 | | 300 | | 0.15 | BL | MD | | |
| 13L0104A* | | ELS | ELS | 13 | 54 | OS | H | 6.3 | 600 | 700 | .4 | 4.0 | 8.0 | 12.0 | 100 | | 0.13 | BL | SH | | D14 |
| 16LK1B | | ELS | ELM | 16 | 19 | TV | H | 1.4 | 28h | 450 | 9.0 | | | | 40 | 60 | | | | | |
| 16LM1G | * | ELM | ELM | 13 | 31 | RA | H | 6.3 | 600 | | 20.0 | | | | 90 | | | | | 50 | |
| 16L02I | * | ELS | ELS | 13 | 45 | OD | H | 6.3 | 600 | 500 | | 2.0 | 3.5 | | 70 | | 0.28 | GR | MD | | |
| 16L03I | * | ELS | ELS | 16 | 35 | OS | H | 6.3 | 600 | 450 | | 1.5 | | | 45 | | 0.48 | GR | MD | | |
| 18LK1B | | ELM | ELM | 17 | 35 | TV | H | 2.5 | 21h | | 3.5 | | | | 35 | | | WH | | | D8 |
| 18LK2B | | ELM | ELM | 14 | 42 | TV | H | 6.3 | 550 | | | 15.0 | | | 60 | 100 | | WH | SH | | D8 |
| 18LK3V | | ELM | ELM | 18 | | | | 2.5 | 2A | | 3.5 | | | | 60 | | | GR | MD | | |
| 18LK4B | | ELS | ELM | 17 | 34 | TV | H | 6.3 | 600 | | | 6.0 | | | 60 | 150 | | WH | SH | | B8 |
| 18LK5B | * | ELM | ELM | 17 | 35 | TV | H | 6.3 | 520 | | 4.0 | | | | 30 | 100 | | WH | MD | | B8 |
| 18LK7B | | ELM | ELM | 17 | 35 | TV | H | 6.3 | 560 | | | 4.0 | | | 35 | 100 | | WH | SH | | B8 |
| 18LK9A | * | ELM | ELM | 19 | 48 | PT | H | 6.3 | 550 | | 25.0 | | | | 125 | 250 | | BL | SH | | |
| 18LK11B | * | ELM | ELM | 17 | 35 | TV | H | 6.3 | 550 | | 8.0 | | | | 75 | 100 | | WH | MD | | |
| 18LK12B | * | ELM | ELM | 17 | 42 | TV | H | 6.3 | 550 | | 15.0 | | | | 100 | 100 | | WH | MD | | |
| 18LK13L | * | ELM | ELM | 17 | 42 | TV | H | 6.3 | 550 | | 25.0 | | | | 140 | 200 | | BL | SH | | |
| 18LK14T | * | ELM | ELM | 17 | 42 | TV | H | 6.3 | 550 | | 25.0 | | | | 140 | 500 | | GR | SH | 40 | |
| 18LK15 | | ELM | ELM | 17 | 34 | TV | H | 6.3 | 550 | | 5.0 | | | | 38 | 100 | | WH | MD | | B8 |
| 18LK17L* | | ELM | ELM | 17 | 42 | | H | 6.3 | 550 | | 25.0 | | | | 60 | | | BL | SH | | |
| 18LM3S | * | ELS | ELM | 18 | 29 | RA | H | 6.3 | 600 | 425 | 0.4 | 14.0 | | | 50 | | | YO | LO | | |
| 18LM35V | * | ELM | ELM | 18 | 35 | RA | H | 6.3 | 600 | | 0.2 | 4.0 | | | 50 | 350 | | WH | LO | | A8 |
| 18L01A | * | ELS | ELS | 18 | 47 | OD | H | 6.3 | 600 | 1k | 4.0 | 8.0 | | | 130 | | 0.23 | BL | SH | | A8 |
| 18L040B | | ELS | ELS | 18 | 36 | TV | H | 6.3 | 600 | | 2.0 | | | | 120 | | | WH | MD | | 14G |
| 18L047A | * | ELS | ELS | 18 | 45 | OD | H | 6.3 | 600 | 1k | 2.0 | 6.0 | | | 100 | | 0.15 | BL | SH | | A25 |
| 19LK4B | | ELM | ELM | 17 | | TV | H | 6.3 | 600 | | 6.0 | | | | 60 | | | | | | |
| 20LM1YE | * | ELS | ELM | 20 | 46 | OD | H | 6.3 | 12h | | 0.3 | 4.0 | 8.0 | | 60 | 60 | | GR | LO | | |
| 22L01A | * | ELS | ELS | 15 | 48 | 50 | H | 6.3 | 600 | 500 | | 2.0 | 4.0 | | 70 | | 0.23 | BL | SH | | |
| 23LK1B | | ELM | ELM | 19 | 38 | TV | H | 6.3 | 550 | | 8.0 | | | | 50 | | | WH | MD | | D8 |
| 23LK2B | | ELM | ELM | 22 | 47 | TV | H | 6.3 | 550 | | | 10.0 | | | 18 | 100 | | WH | SH | | D8 |
| 23LK5B | * | ELM | ELM | 24 | 42 | TV | H | 6.3 | 550 | | 12.0 | | | | 80 | 100 | | WH | MD | | |
| 23LK6I | * | ELM | ELM | 24 | 49 | PT | H | 6.3 | 550 | | 25.0 | | | | 100 | 150 | | GR | MD | | |
| 23LK7B | * | ELM | ELM | R23 | 42 | TV | H | 6.3 | 550 | | 8.0 | | | | 55 | 100 | | WH | MD | | D8 |
| 23LK8B | * | ELM | ELM | S23 | 49 | TV | H | 6.3 | 550 | | 15.0 | | | | 60 | 100 | | WH | MD | | D8 |
| 23LK9B | * | ELS | ELM | R21 | 18 | TV | H | 12.0 | 65 | 250 | 9.0 | | | | 25 | 150 | | WH | MD | 90 | |
| 23LK41I | * | ELM | ELM | 24 | 42 | TV | H | 6.3 | 550 | | 8.0 | | | | 65 | 200 | | YG | MD | | |
| 23LM3S | * | ELS | ELM | 23 | 34 | RA | H | 6.3 | 600 | 425 | 0.4 | 14.0 | | | 50 | | | YO | LO | | |
| 23LM34V | * | ELM | ELM | 23 | 43 | RA | H | 6.3 | 600 | | 0.2 | 4.0 | | | 50 | 350 | | YO | LO | | A8 |

| Type No. | | Meth of | | Dimensions | | Use | Cathode | Typical | | | | | | | Maximum | | Screen | | Defl angle | Base No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Focus | Defl | Diam | Lth | | | Heater | | $E_{FOC}$ | $E_{A_1}$ | $E_{A_2}$ | $E_{A_3}$ | $E_{A_4}$ | $E_{C_1}$ | $I_K$ | Defl sens | Col | Pers | | |
| | | | | | | | | E | I | | | | | | | | | | | | |
| | | | | cm | cm | | | V | mA | V | kV | kV | kV | kV | V | μA | mm/V | | | deg | |
| 23L051A | * | ELS | ELS | 23 | 57 | OS | H | 6.3 | 600 | 55h | 6.0 | 20.0 | | | 200 | | 0.03 | BL | SH | | A20 |
| 25LM1V | * | ELM | ELM | 23 | 35 | RA | H | 6.3 | 550 | | 10.0 | | | | 60 | | | YO | LO | | |
| 30LK1B | | | | 30 | 45 | TV | H | 6.3 | 600 | | 10.0 | | | | 75 | | | | | | D8 |
| 31LK1B | | ELM | ELM | 31 | | TV | H | 6.3 | 550 | | 10.0 | | | | 52 | 150 | | WH | MD | | D8 |
| 31LK2B | * | ELM | ELM | 30 | 48 | TV | H | 6.3 | 600 | | 10.0 | | | | 55 | 150 | | WH | MD | | B8 |
| 31LM32V | * | ELM | ELM | 31 | 54 | RA | H | 6.3 | 600 | | 0.2 | 4.0 | | | 50 | 350 | | YO | LO | | A8 |
| 31L01P | | ELM | ELM | 31 | | | | | | 250 | 1.8 | | | | 50 | | | GR | MD | | A8 |
| 31L033V | * | ELS | ELS | 31 | 57 | OS | H | 6.3 | 600 | | 1.1 | 4.3 | 5.5 | | 140 | | | YO | LO | | 14J |
| 35LK1B | | ELS | ELM | 32 | 38 | TV | H | 6.3 | 600 | 425 | 12.0 | | | | 90 | 150 | | | | | |
| 35LK2B | * | ELS | ELM | R32 | 46 | TV | H | 6.3 | 600 | 425 | 0.3 | 12.0 | | | 60 | 150 | | WH | SH | 70 | C8 |
| 35LK4B | * | ELS | ELM | R33 | 44 | TV | H | 6.3 | 520 | 250 | 14.0 | | | | 60 | 100 | | WH | MD | 70 | |
| 40LK1B | * | ELM | ELM | 40 | 49 | TV | H | 6.3 | 500 | | 12.0 | | | | 70 | 150 | | WH | MD | 70 | B8 |
| 42LM2YE | * | ELS | ELM | 42 | 59 | RA | H | 6.3 | 12h | 4k | 4.5 | 11.5 | 20.0 | | 60 | 50 | | OG | LO | | |
| 43LK2B | * | ELS | ELM | R37 | 50 | TV | H | 6.3 | 600 | 300 | 0.3 | 14.0 | | | 60 | 100 | | WH | MD | 70 | B12 |
| 43LK3B | * | ELS | ELM | R43 | 51 | TV | H | 6.3 | 600 | 300 | 0.5 | 14.0 | | | 60 | 150 | | WH | MD | 70 | B12 |
| 43LK6B | | ELS | ELM | S45 | 30 | TV | H | 6.3 | 600 | | 0.3 | 0.5 | 14.0 | | 25 | | | WH | SH | 110 | A7 |
| 43LK7B | | ELS | ELM | S45 | 50 | TV | H | 6.3 | 600 | | 0.3 | 0.3 | 14.0 | | 60 | 35 | | WH | SH | 68 | B12 |
| 43LK8B | * | ELS | ELM | S45 | 50 | TV | H | 6.3 | 600 | | 0.3 | 0.5 | 14.0 | | 50 | 100 | | WH | SH | | B7 |
| 43LK9B | * | ELS | ELM | R37 | 33 | TV | H | 6.3 | 600 | 425 | 0.3 | 14.0 | | | 60 | 30 | | WH | MD | 110 | A7 |
| 45LM1B | * | ELM | ELM | 45 | 56 | RA | H | 6.3 | 600 | | 0.5 | 12.0 | | | 60 | 350 | | YO | LO | | A8 |
| 45LM2U | * | ELM | ELM | 44 | 51 | RA | H | 6.3 | 600 | | 0.5 | 14.0 | | | 60 | | | GR | SH | | |
| 45LM3N | * | ELM | ELM | 44 | 54 | RA | H | 6.3 | 550 | | 14.0 | | | | 60 | | | YG | LO | | |
| 47LK1B | | ELS | ELM | S47 | 31 | TV | H | 6.3 | 300 | 400 | 0.4 | 16.0 | | | 55 | 120 | | WH | SH | 110 | C8 |
| 47LK2B | * | ELS | ELS | R44 | 30 | TV | H | 6.3 | 300 | 400 | 0.4 | 16.0 | | | 80 | 300 | | WH | MD | 110 | |
| 51LS1 | * | ELS | ELS | 51 | 104 | CH | H | 6.3 | 600 | 500 | 3.5 | 7.0 | | | 90 | | | YG | MD | | |
| 53LK2B | * | ELS | ELM | R48 | 61 | TV | H | 6.3 | 600 | 300 | 0.3 | 16.0 | | | 60 | 150 | | WH | MD | 70 | B12 |
| 53LK3B | | | | S50 | 58 | TV | H | 6.3 | 600 | 300 | 0.4 | 16.0 | | | 140 | | | | | | B7 |
| 53LK4TS | * | ELS | ELM | R47 | 65 | TV | H | 6.3 | 18h | 3k | 20.0 | | | | 70 | 500 | | 3C | MD | | |
| 53LK5B | | ELS | ELM | S45 | 38 | TV | H | 6.3 | 600 | 300 | 0.5 | 16.0 | | | 25 | 100 | | WH | SH | 110 | B7 |
| 53LK6B | | ELS | ELM | S48 | 385 | TV | H | 6.3 | 600 | 425 | 0.3 | 0.5 | 16.0 | | 90 | 30 | | WH | SH | 110 | A7 |
| 59LK1B | | ELS | ELM | S59 | 37 | TV | H | 6.3 | 300 | 425 | 0.4 | 16.0 | | | 55 | | | WH | SH | 110 | C8 |
| 59LK2B | | ELS | ELM | S59 | | TV | | 6.3 | | 400 | 0.4 | 16.0 | | | 80 | 300 | | WH | MD | 110 | |
| 61LK1B | * | ELM | ELM | R60 | 36 | | H | 6.3 | 300 | 400 | 20.0 | | | | 44 | 350 | | | | 110 | |
| 65LK1B | | ELS | ELM | 38 | 62 | TV | H | 6.3 | 300 | 400 | 20.0 | | | | 80 | 300 | | | | | |

| Type No. | Kind | Freq Min $GH_z$ | Freq Max $GH_z$ | Duty cyl % | Operation | Cathode $E_f$ V | Cathode $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_o$ mW | Maximum Col V | Maximum $E_g$ V | Maximum Helix V | Maximum Gain dB | Maximum NF dB | VSWR | Band width MHz | Mag field gauss | Coupling | Dimen Lth mm | Dimen Diam mm | Wt g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2J55 | MAG | | 13.3 | 1 | P | | | 12k | 12A | 53W | | | | | | | | 33h | | | | |
| 3J21 | MAG | | 24.5 | | P | | | 15k | 15 | 60W | | | | | | | | | | | | |
| 4J26–30 | MAG | | 1.2 | 1 | P | | | 27k | 46A | 700W | | | | | | | | 14h | | | | |
| 4J45 | MAG | | 2.8 | 1 | P | | | 23k | 45 | 650W | | | | | | | | | | | | |
| 4J50 | MAG | | 12.1 | 1 | P | | | 22k | 27A | 28W | | | | | | | | 69h | | | | |
| GSH–5 | NOI | 10.0 | 26.0 | | | 6.3 | | | 70 | | | | | 18 | | | | | | | | |
| UV–5 | TWT | 3.4 | 4.4 | | | 3.0 | 900 | 180 | 1 | <1 | 600 | 12 | 500 | 18 | 8 | 1.6 | | | WG | 388 | 17 | 83 |
| GSH–6 | NOI | 25.4 | 52.0 | | | 6.3 | | | 60 | | | | | 18 | | | | | | | | |
| UV–6 | TWT | 3.4 | 4.4 | | | 4.0 | 950 | 500 | 4 | 30 | 1300 | 30 | 11h | 30 | | 1.6 | | | WG | 388 | 17 | 95 |
| UV–7 | TWT | 3.4 | 4.4 | | | 6.3 | 850 | 1400 | 35 | 3W | 1500 | 80 | | 26 | | 1.6 | | | WG | 397 | 17 | 100 |
| GSH–10 | NOI | 2.6 | 8.4 | | | 6.3 | | | 150 | | | | | | 18 | | | | | | | |
| GSH–11 | NOI | 8.4 | 11.6 | | | 6.3 | | | 150 | | | | | | 18 | | | | | | | |
| K–12 | KLO | 2.5 | 3.6 | | C | 6.3 | | 250 | 40 | 100 | | | | | | | | | | 77 | 30 | |
| KIU12 | KLA | 2.8 | | | P | 9.5 | | 280k | | 20MW | | | | 40 | | | 14 | 800 | WG | 13h | 300 | 50k |
| MI–12 | MAG | 3.0 | 3.1 | | P | | | 15k | 18A | 1hkW | | | | | | | | 18h | | | | |
| UV–13 | TWT | 3.4 | 4.4 | | | 2.4 | | 600 | 350μ | 5 | | | | 20 | 9 | | | 600 | | | | |
| MI–14 | MAG | 2.9 | 3.0 | | P | | | 15k | 18A | 1hkW | | | | | | | | 18h | | | | |
| UV–14 | TWT | 3.4 | 4.4 | | | 4.5 | | 1300 | 5 | 100 | | | | 30 | 25 | | | PM | | | | |
| K–15 | KLO | 3.1 | 5.6 | | C | 6.3 | | 250 | 50 | 50 | | | | | | | | | | 68 | 25 | |
| KIU15 | KLA | 1.8 | | | P | 12.0 | | 280k | | 30MW | | | | 35 | | | 18 | 700 | WG | 15h | 400 | 75k |
| MI–15 | MAG | 2.9 | 2.9 | | P | | | 15k | 18A | 1hkW | | | | | | | | 18 | | | | |
| MI–16 | MAG | 2.8 | 2.8 | | P | | | 15k | 18A | 1hkW | | | | | | | | 18h | | | | |
| K–26 | KLO | 0.5 | 0.7 | | C | 6.3 | | 250 | 60 | 100 | | | | | | | | | | 140 | 33 | |
| GSH–28 | NOI | 64.0 | 76.0 | | | 6.3 | | | 100 | | | | | | 17 | | | | | | | |
| GSH–29 | NOI | 52.0 | 65.0 | | | 6.3 | | | 100 | | | | | | 17 | | | | | | | |
| K–29 | KLO | 8.8 | 10.3 | | C | 6.3 | | 320 | 45 | 15 | | | | | | | | | | 150 | 58 | |
| K–30 | KLO | 7.7 | 9.1 | | C | 6.3 | | 320 | 50 | 15 | | | | | | | | | | 150 | 58 | |
| K–31 | KLO | 7.0 | 8.1 | | C | 6.3 | | 320 | 50 | 20 | | | | | | | | | | 141 | 46 | |
| K–32 | KLO | 5.6 | 7.1 | | C | 6.3 | | 320 | 50 | 20 | | | | | | | | | | 141 | 56 | |
| K–33 | KLO | 14.3 | 16.7 | | C | 6.3 | | 400 | 45 | 10 | | | | | | | | | | 150 | 58 | |
| K–34 | KLO | 12.0 | 14.4 | | C | 6.3 | | 400 | 45 | 10 | | | | | | | | | | 150 | 58 | |
| K–35 | KLO | 10.0 | 12.1 | | C | 6.3 | | 350 | 45 | 10 | | | | | | | | | | 150 | 58 | |
| K–41 | KLO | 1.4 | 2.5 | | C | 6.3 | | 250 | 60 | 80 | | | | | | | | | | 85 | 30 | |
| K–42 | KLO | 0.9 | 1.5 | | C | 6.3 | | 250 | 60 | 80 | | | | | | | | | | 85 | 30 | |
| K–48 | KLO | 3.4 | 4.4 | | C | 6.3 | | 180 | 70 | 100 | | | | | | | | | | 70 | 25 | |
| MI–51 | MAG | 9.5 | 9.5 | | P | | | 13k | 16A | 65kW | | | | | | | | 48h | | | | |
| MI–52 | MAG | 9.4 | 9.5 | | P | | | 13k | 16A | 65kW | | | | | | | | 48h | | | | |
| MI–53 | MAG | 9.3 | 9.4 | | P | | | 13k | 16A | 65kW | | | | | | | | 48h | | | | |
| MI–54 | MAG | 9.3 | 9.3 | | P | | | 13k | 16A | 65kW | | | | | | | | 48h | | | | |
| M62 | MAG | 2.4 | 2.4 | | C | | | 2300 | 150 | 150W | | | | | | | | 18h | | 200 | 140 | 700 |
| K–92A | KLO | 3.4 | 3.6 | | C | 6.3 | | 850 | 90 | 1W | 600 | | | | | | | | | 160 | 140 | 2k |
| K–92B | KLO | 3.5 | 3.7 | | C | 6.3 | | 850 | 90 | 1W | 600 | | | | | | | | | 160 | 140 | 2k |
| K–92G | KLO | 4.0 | 4.3 | | C | 6.3 | | 850 | 90 | 1W | 600 | | | | | | | | | 160 | 140 | 2k |
| K–92V | KLO | 3.7 | 4.0 | | C | 6.3 | | 850 | 90 | 1W | 600 | | | | | | | | | 160 | 140 | 2k |
| MI–95 | MAG | 9.2 | 9.3 | | P | | | 13k | 16A | 65W | | | | | | | | 48h | | | | |
| MI–120 | MAG | 2.8 | 2.8 | | P | | | 5k | 7A | 10kW | | | | | | | | 13h | | | | |
| MI–137 | MAG | 1.8 | 1.8 | | P | | | 23k | 25A | 25kW | | | | | | | | 16h | | | | |
| UV–204 | TWT | 3.4 | 3.9 | | | 13.2 | | 2800 | 75 | 20W | | | | 20 | | | | 500 | | | | |
| UV–205 | TWT | 3.4 | 4.4 | | | 6.3 | | 1400 | 55 | 4W | | | | 30 | 30 | | | 750 | | | | |
| KU304 | KLA | 0.8 | 0.9 | | C | 6.5 | | 16k | | 10kW | | | | 40 | | | 6 | 250 | CO | 12h | 400 | 60k |
| KU304A | KLA | 0.8 | 0.8 | | C | 6.5 | | 15k | | 10kW | | | | 37 | | | 10 | 350 | CO | 10h | 400 | 65k |
| K–308 | KLO | 3.4 | 4.0 | | C | 6.3 | | 220 | 130 | 500 | | | | | | | | | | 73 | 25 | |
| KU308 | KLA | 0.8 | 1.0 | | C | 10.0 | | 10k | | 4kW | | | | 45 | | | 8 | 400 | CO | 10h | 206 | 35k |
| KU309 | KLA | 0.5 | 0.6 | | C | 4.0 | | 9k | | 3kW | | | | 40 | | | | 300 | CO | 10h | 250 | 50k |
| KU310A | KLA | 0.5 | 0.6 | | C | 5.0 | | 15k | | 15kW | | | | 35 | | | 8 | 500 | CO | 12h | 250 | 85k |
| KU310B | KLA | 0.6 | 0.6 | | C | 5.0 | | 15k | | 15kW | | | | 35 | | | 8 | 500 | CO | 14h | 250 | 85k |
| K–351 | KLO | 2.7 | 3.3 | | C | 6.3 | | 250 | 40 | 80 | | | | | | | | | | 80 | 29 | |
| K–352 | KLO | 3.2 | 7.5 | | C | 6.3 | | 250 | 40 | 10 | | | | | | | | | | 68 | 25 | |
| UV–421 | TWT | 0.9 | 1.2 | | | 2.8 | | 200 | 300μ | 5 | | | | 18 | <9 | | | 360 | | | | |
| UV–422 | TWT | 0.6 | 1.0 | | | 2.8 | | 450 | 700μ | 5 | | | | 15 | 8 | | | 420 | | | | |

| Type No. | Kind | Freq Min GHz | Freq Max GHz | Duty cyl % | Operation | Cathode $E_f$ V | Cathode $I_f$ mA | Maximum $E_b$ V | Maximum $I_b$ mA | Maximum $P_o$ mW | Maximum Col V | Maximum $E_g$ V | Maximum Helix V | Maximum Gain dB | Maximum NF dB | VSWR | Band width MHz | Mag field gauss | Coupling | Dimen Lth mm | Dimen Diam mm | Wt g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UV-438 | TWT | 3.5 | 5.3 | | | 3.0 | | 560 | 400μ | 5 | | | | 25 | 11 | | | 600 | | | | |
| UV-440 | TWT | 1.5 | 2.4 | | | 2.5 | | 400 | 700μ | 10 | | | | 25 | 10 | | | 500 | | | | |
| M-532 | MAG | 2.3 | 3.6 | | C | | | 5000 | 200 | 100W | | | | | | | | 22h | | 273 | 70 | 25h |
| M571 | MAG | 2.4 | 2.4 | | C | | | 3600 | 1150 | 25hW | | | | | | | | 12h | | 210 | 160 | 15h |
| MI-588 | MAG | 36.4 | 37.1 | | P | | | 15k | 12A | 28kW | | | | | | | | PM | | | | |
| MI-589A | MAG | 9.4 | 9.5 | | P | | | 135h | 20A | 95kW | | | | | | | | PM | | | | |
| MI-589B | MAG | 9.3 | 9.4 | | P | | | 135h | 20A | 95kW | | | | | | | | PM | | | | |
| MI-589V | MAG | 9.3 | 9.3 | | P | | | 135h | 20A | 95kW | | | | | | | | PM | | | | |
| 0V-612 | BWT | 37.5 | 53.6 | | C | 5.0 | | 1500 | 50 | 200 | 400 | | | 10 | | | | | | 200 | 130 | 5k |
| 0V-613 | BWT | 52.6 | 81.0 | | C | 5.0 | | 1500 | 50 | 80 | 400 | | | 10 | | | | | | 200 | 130 | 5k |
| 0V-614 | BWT | 79.0 | h1.2 | | C | 6.3 | | 2500 | 50 | 50 | 400 | | | 10 | | | | | | 200 | 130 | 5k |
| 0V-621 | BWT | h1.8 | h2.0 | | C | 6.3 | | 3000 | 50 | 15 | 500 | | | 13 | | | | | | 240 | 140 | 95h |
| 0V-622 | BWT | h1.2 | h1.8 | | C | 6.3 | | 4000 | 50 | 50 | 500 | | | 13 | | | | | | 240 | 140 | 95h |
| 700AD | MAG | | 0.6 | 20 | P | | | 12k | 10A | 40W | | | | | | | | 650 | | | | |
| 706AU | MAG | | 3.1 | | P | | | 22k | 20 | 200W | | | | | | | | | | | | |
| 707A/B | KLO | 2.4 | 3.5 | | C | 6.3 | 250 | | 100 | 275 | | | | | | | 20 | | | | | |
| 714AU | MAG | | 3.3 | 1 | P | | | 19k | 20A | 165W | | | | | | | | 22h | | | | |
| 720AYE | MAG | | 2.8 | <1 | P | | | 27k | 65A | 1kW | | | | | | | | 29h | | | | |
| 723A/B | KLO | 8.5 | 9.6 | | C | 6.3 | 300 | 20 | 30 | 300 | | | | | | | 70 | | | | | |
| 725A | MAG | | 9.3 | | P | | | 12k | 10 | 44W | | | | | | | | | | | | |
| 726 | KLO | 2.9 | 3.2 | | C | 6.3 | 300 | 20 | 170 | 300 | | | | | | | 30 | | | | | |
| K-743 | KLO | 33.3 | 36.6 | | C | | | 1800 | 15 | 10 | | | | | | | | | | | | |
| K-744 | KLO | 27.3 | 33.3 | | C | | | 1800 | 15 | 10 | | | | | | | | | | | | |
| K-745 | KLO | 23.0 | 27.3 | | C | | | 1500 | 15 | 15 | | | | | | | | | | | | |
| K-746 | KLO | 20.0 | 23.0 | | C | | | 1200 | 15 | 15 | | | | | | | | | | | | |
| K-747 | KLO | 16.7 | 20.0 | | C | | | 1200 | 15 | 15 | | | | | | | | | | | | |
| K-765 | KLO | 75.0 | 79.0 | | C | | | 2400 | 15 | 15 | | | | | | | | | | | | |
| K-766 | KLO | 70.0 | 75.0 | | C | | | 2400 | 15 | 15 | | | | | | | | | | | | |
| K-767 | KLO | 64.0 | 70.0 | | C | | | 2400 | 15 | 20 | | | | | | | | | | | | |
| K-768 | KLO | 57.6 | 66.4 | | C | | | 2400 | 15 | 20 | | | | | | | | | | | | |
| K-769 | KLO | 52.7 | 57.6 | | C | | | 2400 | 15 | 20 | | | | | | | | | | | | |
| K-770 | KLO | 43.0 | 52.7 | | C | | | 2000 | 15 | 20 | | | | | | | | | | | | |
| K-771 | KLO | 36.2 | 43.0 | | C | | | 2000 | 15 | 20 | | | | | | | | | | | | |
| K-801 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| K-802 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| K-803 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| K-804 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| K-805 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| K-806 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| K-807 | KLO | 2.4 | 6.1 | | C | 6.3 | | 250 | 150 | 100 | | | | | | | | | | 82 | 29 | |
| UV1001 | * TWT | 5.0 | 10.3 | | | 3.0 | | 800 | 400μ | 5 | | | | 25 | 10 | | | 900 | WG | | | |
| UV1002 | * TWT | 5.0 | 10.3 | | | 3.0 | | 800 | 400μ | 5 | | | | 25 | 10 | | | 900 | WG | | | |
| UV1003 | * TWT | 0.9 | 5.0 | | | 2.8 | | 560 | 700μ | 5 | | | | 25 | 10 | | | 600 | WG | | | |
| UV1004 | * TWT | 0.9 | 5.0 | | | 2.8 | | 560 | 700μ | 5 | | | | 25 | 10 | | | 600 | WG | | | |
| UV1005 | * TWT | 0.9 | 5.0 | | | 2.8 | | 560 | 700μ | 5 | | | | 25 | 10 | | | 600 | WG | | | |
| UV1006 | * TWT | 0.9 | 5.0 | | | 2.8 | | 560 | 700μ | 5 | | | | 25 | 10 | | | 600 | WG | | | |

| Type No. | | Kind | Maximum | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{CBO}$ V | $V_{EBO}$ V | $V_{CEO}$ V | $I_C$ mA | $I_E$ mA | $I_{CBO}$ μA | $P_C$ mW | $K_\theta$ mW/°C | $T_A$ °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | $f\alpha$ *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r'_bC_c$ | |
| P1A | | GAP | 20 | | | 5 | 5 | 30 | 50 | 10 | 70 | E | 10 | 1 | | | 3.3 | 0.90 | 0.1 | | 30 | | | 1 |
| P1B | | GAP | 20 | | | 5 | 5 | 30 | 50 | 10 | 70 | E | 10 | 1 | | | 2.0 | 0.93 | 0.1 | 35 | 33 | | 400 | 1 |
| P1D | | GAP | 20 | | | 5 | 5 | 15 | 50 | 10 | 70 | E | 10 | 1 | | | 2.0 | 0.94 | 0.1 | 18 | 33 | | 600 | 1 |
| P1G | | GAP | 20 | | | 5 | 5 | 30 | 50 | 10 | 70 | E | 10 | 1 | | | 2.0 | 0.96 | 0.1 | | 37 | | 600 | 1 |
| P1I | | GAP | 20 | | | 5 | 5 | 20 | 50 | 10 | 70 | E | 10 | 1 | | | 2.0 | 0.96 | 1.6 | 35 | | 40 | | 1 |
| P1V | | GAP | 20 | | | 5 | 5 | 15 | 50 | 10 | 70 | E | 10 | 1 | | | 1.0 | 0.93 | 0.1 | 35 | 37 | | 400 | 1 |
| P1YE | | GAP | 20 | | | 5 | 5 | 30 | 50 | 10 | 70 | E | 10 | 1 | | | 2.0 | 0.95 | 0.5 | 35 | 30 | 60 | 1k | 1 |
| P1ZH | | GAP | 20 | | | 5 | 5 | 20 | 50 | 10 | 70 | E | 10 | 1 | | | 3.3 | 0.95 | 0.1 | 35 | 35 | 45 | 1k | 1 |
| 1T303A | | GDN | 12 | 2 | 10 | 15 | | 8 | 100 | 3 | 70 | E | 5 | 5 | | | | 15 | | | | 10 | *1k | 13 |
| 1T303B | | GDN | 12 | 2 | 10 | 15 | | 8 | 100 | 3 | 70 | E | 5 | 5 | | | | 30 | | | | 10 | *1k | 13 |
| 1T303D | | GDN | 12 | 2 | 10 | 15 | | 8 | 100 | 3 | 70 | E | 5 | 5 | | | | 30 | | | | 10 | *1k | 13 |
| 1T303G | | GDN | 12 | 2 | 10 | 15 | | 8 | 100 | 3 | 70 | E | 5 | 5 | | | | 15 | | | | 10 | *1k | 13 |
| 1T303V | | GDN | 12 | 2 | 10 | 15 | | 8 | 100 | 3 | 70 | E | 5 | 5 | | | | 60 | | | | 10 | *1k | 13 |
| 1T303YE | | GDN | 12 | 2 | 10 | 15 | | 8 | 100 | 3 | 70 | E | 5 | 5 | | | | 60 | | | | 10 | *1k | 13 |
| P2A | | GAP | 100 | | | 10 | 10 | 200 | 250 | 10 | 60 | C | 50 | 5 | | | | 0.90 | | | 17 | | | 1 |
| P2B | | GAP | 50 | | | 25 | 25 | 200 | 250 | 10 | 60 | C | 25 | 10 | | | | 0.90 | | | 17 | | | 1 |
| P3A | | GAP | 50 | | 50 | 150 | | 500 | 3W | 100 | 50 | C | 10 | 150 | | | | 2.0 | 0.1 | | 17 | | | 2 |
| P3B | | GAP | 50 | | 50 | 250 | | 250 | 3W | 100 | 50 | C | 10 | 150 | | | | 2.0 | 0.1 | | 20 | | | 2 |
| P3V | | GAP | 50 | | 50 | 450 | | 250 | 3W | 100 | 50 | C | 10 | 150 | | | | 2.0 | 0.1 | | 25 | | | 2 |
| P4AE | * | GAP | 60 | | 50 | 5A | | 500 | 2W | 500 | 90 | C | 10 | 2A | | | 5.0 | 5.0 | 0.1 | | 20 | | 150 | 22 |
| P4BE | * | GAP | 70 | | 60 | 5A | | 400 | 3W | 500 | 90 | C | 10 | 2A | | 15 | | 15 | 0.1 | | 23 | | 150 | 22 |
| P4DE | * | GAP | 60 | | 50 | 5A | | 400 | 3W | 500 | 90 | C | 10 | 2A | | 50 | | 30 | 0.1 | | 30 | | 150 | 22 |
| P4GE | * | GAP | 60 | | 50 | 5A | | 400 | 3W | 500 | 90 | C | 10 | 2A | | 15 | | 15 | 0.1 | | 27 | | 150 | 22 |
| P4L | | GAP | 50 | | | 2A | | 500 | 3W | 500 | 50 | C | 10 | 2 | | | | 20 | 0.1 | | 30 | | 150 | 22 |
| P4VE | * | GAP | 40 | | 35 | 5A | | 400 | 3W | 500 | 90 | C | 10 | 2A | | 10 | | 10 | 0.1 | | 23 | | 150 | 22 |
| P5A | | GAP | 10 | 20 | 10 | 10 | 10 | 30 | 25 | 1 | 75 | E | 2 | 1 | 36 | 500 | 3.3 | 15 | 0.3 | 12 | | 80 | | 4 |
| P5B | | GAP | 10 | 20 | 10 | 10 | 10 | 15 | 25 | 1 | 75 | E | 2 | 1 | 36 | 500 | 2.6 | 20 | 0.3 | 12 | | 80 | | 4 |
| P5D | | GAP | 10 | 20 | 10 | 10 | 10 | 15 | 25 | 1 | 75 | E | 2 | 1 | 36 | 500 | 2.6 | 20 | 0.3 | 7 | | 80 | | 4 |
| P5G | | GAP | 10 | 20 | 10 | 10 | 10 | 15 | 25 | 1 | 75 | E | 2 | 1 | 36 | 500 | 2.6 | 30 | 0.3 | 10 | | 80 | | 4 |
| P5V | | GAP | 10 | 20 | 10 | 10 | 10 | 15 | 25 | 1 | 75 | E | 2 | 1 | 36 | 500 | 2.6 | 30 | 0.3 | 15 | | 80 | | 4 |
| P5YE | | GAP | 10 | 20 | 10 | 10 | 10 | 15 | 25 | 1 | 75 | E | 2 | 1 | 36 | 500 | 2.6 | 20 | 0.3 | 18 | | 80 | | 4 |
| P6A | | GAP | 30 | 30 | 10 | 10 | 10 | 10 | 150 | 2 | 100 | E | 5 | 1 | 32 | 500 | 3.3 | 10 | 0.1 | 30 | 30 | 50 | | 10 |
| P6B | | GAP | 30 | 30 | 10 | 10 | 10 | 5 | 150 | 2 | 100 | E | 5 | 1 | 32 | 60 | 2.0 | 10 | 0.5 | 30 | 34 | 50 | | 10 |
| P6D | | GAP | 30 | 30 | 10 | 10 | 10 | 5 | 150 | 2 | 100 | E | 5 | 1 | 32 | 60 | 2.0 | 10 | 0.5 | 12 | 34 | 50 | | 10 |
| P6G | | GAP | 30 | 30 | 10 | 10 | 10 | 5 | 150 | 2 | 100 | E | 5 | 1 | 32 | 60 | 3.3 | 30 | 1.0 | 30 | 37 | 50 | | 10 |
| P6V | | GAP | 30 | 30 | 10 | 10 | 10 | 5 | 150 | 2 | 100 | E | 5 | 1 | 32 | 60 | 2.0 | 10 | 0.5 | 30 | 34 | 50 | | 10 |
| P7 | | GAP | 13 | | 6 | 45 | | 5 | 45 | | 50 | E | 2 | 1 | | | | 30 | | | | | | 4 |
| P8 | | GAN | 15 | 15 | 25 | 20 | 10 | 30 | 150 | 5 | 85 | E | 5 | 1 | 34 | 500 | 2.5 | 10 | 1.0 | 15 | 32 | 65 | 150 | 10 |
| P9 | | GAN | 20 | 20 | 15 | 20 | 10 | 15 | 150 | 2 | 100 | E | 5 | 1 | 32 | 60 | 2.0 | 10 | 0.5 | 12 | 32 | 60 | | 10 |
| P9A | | GAN | 15 | 15 | 15 | 20 | | 15 | 150 | 5 | 85 | E | 5 | 1 | 32 | 60 | 2.5 | 15 | 1.0 | 5 | 32 | 60 | 150 | 10 |
| P10 | | GAN | 15 | 15 | 15 | 20 | 10 | 15 | 150 | 5 | 85 | E | 5 | 1 | 32 | 60 | 2.5 | 15 | 1.0 | 5 | 32 | 60 | 150 | 10 |
| P10A | | GAN | 30 | 30 | 30 | 20 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 2.5 | 15 | 1.0 | | | 60 | 150 | 10 |
| P10B | | GAN | 30 | 30 | 30 | 20 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 2.5 | 25 | 1.0 | | | 60 | 150 | 10 |
| P11 | | GAN | 15 | 15 | 15 | 20 | 10 | 15 | 150 | 5 | 85 | E | 5 | 1 | 32 | 60 | 2.5 | 25 | 2.0 | 5 | 32 | 60 | | 10 |
| P11A | | GAN | 15 | 15 | 15 | 20 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 2.5 | 45 | 2.0 | | | 60 | 150 | 10 |
| P12 | | GAP | | | 6 | 5 | 5 | 6 | 30 | 2 | 85 | E | 6 | 1 | | | 2.0 | 20 | 5.0 | | | 20 | 150 | 17 |
| P12A | | GAP | 6 | | 6 | 5 | 5 | 6 | 30 | 1 | 70 | E | 6 | 1 | | | .2 | 20 | 5.0 | | | 20 | 150 | 17 |
| P13 | | GAP | 15 | 15 | 15 | 20 | 10 | 15 | 150 | 3 | 100 | E | 5 | 1 | | 500 | 3.3 | 12 | 0.5 | 33 | | 50 | | 10 |
| P13A | | GAP | 30 | | | 20 | 10 | 15 | 150 | 2 | 100 | E | 5 | 1 | | 60 | 2.0 | 20 | 0.5 | 33 | | 50 | | 10 |
| P13B | | GAP | 15 | 15 | 15 | 20 | 10 | 15 | 150 | 3 | 100 | E | 5 | 1 | | 60 | 3.3 | 20 | 0.5 | 12 | | 50 | | 10 |
| MP14B | * | GAP | 30 | 30 | 30 | 20 | 20 | 15 | 150 | 3 | 85 | E | 5 | 1 | 32 | 500 | 3.3 | 30 | 1.0 | | | 50 | 150 | 10 |
| P14 | | GAP | 15 | 15 | 15 | 20 | 10 | 15 | 150 | 3 | 100 | E | 5 | 1 | | 500 | 3.3 | 20 | 1.0 | 33 | | 50 | 150 | 10 |
| P14A | | GAP | 30 | 30 | 30 | 20 | 20 | 15 | 150 | 3 | 85 | E | 5 | 1 | 32 | 700 | 3.3 | 20 | 1.0 | | | 50 | 150 | 10 |
| P15 | | GAP | 15 | 15 | 15 | 20 | 10 | 15 | 150 | 3 | 100 | E | 5 | 1 | | 500 | 3.3 | 30 | 2.0 | 33 | | 50 | 150 | 10 |
| P15A | * | GAP | 15 | 15 | 15 | | 20 | 15 | 150 | 3 | 85 | E | 5 | 1 | 32 | 500 | 3.3 | 50 | 2.0 | | | 50 | 150 | 10 |
| P16 | * | GAP | 30 | 15 | 15 | 50 | 50 | 25 | 200 | 5 | 100 | | | | | | | 20 | 1.0 | | | 50 | | 10 |
| P16A | | GAP | 30 | 15 | 15 | 50 | 50 | 25 | 200 | 5 | 100 | | | | | | | 30 | 1.0 | | | 50 | | 10 |
| P16B | | GAP | 30 | 15 | 15 | 50 | 50 | 25 | 200 | 5 | 100 | | | | | | | 45 | 1.0 | | | 50 | | 10 |
| P17 | | GAP | 40 | | | 400 | | 200 | 150 | | | | | | | | | 9 | 0.2 | | 20 | | | 8 |
| P17A | | GAP | 40 | | | 400 | | 200 | 150 | | | | | | | | | 16 | 0.2 | | 20 | | | 8 |
| P17B | | GAP | 40 | | | 400 | | 200 | 150 | | | | | | | | | 32 | 0.2 | | 20 | | | 8 |
| P18 | | GAP | 70 | | | 400 | | 200 | 150 | | | | | | | | | 9 | 0.2 | | 20 | | | 8 |
| P18A | | GAP | 70 | | | 400 | | 200 | 150 | | | | | | | | | 16 | 0.2 | | 20 | | | 8 |
| P18B | | GAP | 70 | | | 400 | | 200 | 150 | | | | | | | | | 32 | 0.2 | | 20 | | | 8 |
| P19 | | GAP | 20 | 20 | 6 | 30 | 5 | 6 | 30 | 1 | 90 | E | 5 | 1 | 33 | | 2.0 | 20 | 5.0 | 5 | | 20 | 150 | 3 |

| Type No. | Kind | Maximum | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $V_{CBO}$ V | $V_{EBO}$ V | $V_{CEO}$ V | $I_C$ mA | $I_E$ mA | $I_{CBO}$ μA | $P_C$ mW | $K_\theta$ mW/°C | $T_A$ °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | $f\alpha$ *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r'_bC_c$ | |
| MP20 | * GAP | 50 | | 20 | 300 | 1 | 50 | 150 | | | C | | 25 | | | | 50 | 1.0 | | | 20 | | 10 |
| MP20A | * GAP | 30 | | 20 | 300 | | 50 | 150 | | 85 | E | 5 | 25 | | | | 50 | 2.0 | | | | | 17 |
| MP20B | * GAP | 30 | | 20 | 300 | | 50 | 150 | | 85 | E | 5 | 25 | | | | 60 | 1.5 | | | | | 17 |
| P21 | GAP | 50 | | | 30 | 1 | 50 | 150 | 3 | 85 | C | 5 | | | | | 20 | 1.0 | | | | | 10 |
| P21A | GAP | 30 | | 20 | 500 | 1 | 50 | 150 | 3 | 85 | C | 5 | 25 | | | | 20 | 1.0 | | | 20 | | 10 |
| P21B | GAP | 30 | | 20 | 500 | | 50 | 150 | 3 | 85 | C | 5 | 25 | | | | 20 | 1.0 | | | 20 | | 10 |
| P21D | * GAP | 50 | | 30 | 300 | | 50 | 150 | | 85 | E | 5 | 25 | | | | 60 | 1.0 | | | | | 17 |
| P21G | * GAP | 40 | | 30 | 300 | | 50 | 150 | | 85 | E | 5 | 25 | | | | 20 | 1.0 | | | | | 17 |
| P21V | * GAP | 60 | | 35 | 300 | | 50 | 150 | | 85 | E | 5 | 25 | | | | 20 | 1.5 | | | | | 17 |
| P21YE | * GAP | 70 | | 35 | 300 | | 50 | 150 | | 85 | E | 5 | 25 | | | | 30 | 0.7 | | | | | 17 |
| P22 | GAP | 40 | | 20 | 10 | | 25 | 100 | | 85 | | | | | | 3.3 | 5 | 1.0 | | | 20 | | 10 |
| P23 | GAP | 35 | | 30 | 10 | | 25 | 100 | | 85 | | | | | | 3.3 | 5 | 2.0 | | | 18 | | 10 |
| MP25 | * GAP | 40 | 40 | 40 | 300 | 6 | 75 | 200 | 5 | 60 | E | 20 | <3 | | | 3.5 | 13 | 0.2 | | 20 | 50 | 500 | 17 |
| MP25A | * GAP | 40 | 40 | 40 | 400 | 6 | 75 | 200 | 5 | 60 | E | 20 | <3 | | | 3.5 | 20 | 0.2 | | 20 | 50 | 500 | 17 |
| MP25B | * GAP | 40 | 40 | 40 | 400 | 6 | 75 | 200 | 5 | 60 | E | 20 | <3 | | | 3.5 | 30 | 0.5 | | 20 | 50 | 500 | 17 |
| MP26 | * GAP | 70 | 70 | 70 | 300 | 6 | 75 | 200 | 5 | 60 | E | 35 | <3 | | | 3.5 | 13 | 0.2 | | 20 | 50 | 500 | 17 |
| MP26A | * GAP | 70 | 70 | 70 | 400 | 6 | 75 | 200 | 5 | 60 | E | 35 | <3 | | | 3.5 | 20 | 0.2 | | 20 | 50 | 500 | 17 |
| MP26B | * GAP | 70 | 70 | 70 | 400 | 6 | 75 | 200 | 5 | 60 | E | 35 | <3 | | | 3.5 | 30 | 0.5 | | 20 | 50 | 500 | 17 |
| P27 | * GAP | 5 | | 5 | 6 | | 3 | 30 | 1 | 60 | | 5 | <1 | | | 2.0 | 20 | 1.0 | 10 | | 50 | *6k | 17 |
| P27A | * GAP | 5 | | 5 | 6 | | 3 | 30 | 1 | 60 | E | 5 | <3 | | | 1.0 | 20 | 1.0 | 5 | | 50 | *6k | 17 |
| P28 | * GAP | 5 | | 5 | 6 | | 3 | 30 | 1 | 60 | E | 5 | <3 | | | 1.0 | 20 | 5.0 | 5 | | 50 | *6k | 17 |
| P29 | * GAP | 12 | 12 | 10 | 100 | | 4 | 30 | 1 | 70 | | <1 | 20 | | | | 20 | 5.0 | | | 20 | | 17 |
| P29A | * GAP | 12 | 12 | 10 | 100 | | 4 | 30 | 1 | 70 | | <1 | 20 | | | | 40 | 5.0 | | | 20 | | 17 |
| P30 | * GAP | 12 | 12 | 10 | 100 | | 4 | 30 | 1 | 70 | E | <1 | 20 | | | | 80 | 10.0 | | | 20 | | 17 |
| P31 | GAP | | | 12 | 100 | | 5 | 30 | | | | | | | | | 25 | 4.5 | | | 50 | | 17 |
| P31A | GAP | | | 12 | 100 | | 5 | 30 | | | | | | | | | 45 | 4.5 | | | 60 | | 17 |
| P32 | GAP | | | 12 | 100 | | 5 | 30 | | | | | | | | | 45 | 9.0 | | | 20 | | 17 |
| MP35 | * GAN | 15 | | 15 | 20 | | 30 | 150 | | 75 | E | 5 | 1 | | | 3.3 | 10 | 0.5 | | | 60 | | 17 |
| MP36A | * GAN | 15 | | 15 | 20 | | 30 | 150 | | 60 | E | 5 | 1 | | | 3.3 | 15 | 1.0 | | | 60 | | 17 |
| MP37 | * GAN | 15 | | 15 | 20 | | 30 | 150 | | 60 | E | 5 | 1 | | | 3.3 | 15 | 1.0 | | | 60 | | 17 |
| MP37A | * GAN | 30 | | 30 | 20 | | 30 | 150 | 5 | 60 | E | 5 | 1 | | | 3.3 | 15 | 1.0 | | | 60 | | 17 |
| MP37B | * GAN | 30 | | 30 | 20 | | 30 | 150 | 5 | 60 | E | 5 | 1 | | | 3.3 | 25 | 1.0 | | | 60 | | 17 |
| MP38 | * GAN | 15 | | 15 | 20 | | 30 | 150 | | 60 | E | 5 | 1 | | | 3.3 | 25 | 2.0 | | | 60 | | 17 |
| MP38A | * GAN | 15 | | 15 | 20 | | 30 | 150 | 5 | 60 | E | 5 | 1 | | | 3.3 | 45 | 2.0 | | | 60 | | 17 |
| MP39 | * GAP | 10 | 5 | 10 | 150 | | 15 | 150 | | 60 | E | 5 | 1 | | | 3.3 | 12 | 0.5 | | | 60 | | 17 |
| MP39B | * GAP | 10 | 5 | 10 | 150 | | 15 | 150 | 5 | 60 | E | 5 | 1 | | | 3.3 | 20 | 0.5 | 12 | | 60 | 220 | 17 |
| MP40 | * GAP | 10 | 5 | 10 | 150 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 3.3 | 20 | 1.0 | | | 60 | 220 | 17 |
| MP40A | * GAP | 30 | 5 | 30 | 150 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 3.3 | 20 | 1.0 | | | 60 | 220 | 17 |
| P40B | GAP | | | 30 | 20 | | 15 | 150 | | 85 | | | | | | | 30 | 1.0 | | | 60 | | 10 |
| MP41 | * GAP | 10 | 5 | 10 | 150 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 3.3 | 30 | 1.0 | | | 60 | 220 | 17 |
| MP41A | * GAP | 10 | 5 | 10 | 150 | | 15 | 150 | 5 | 85 | E | 5 | 1 | | | 3.3 | 50 | 1.0 | | | 60 | 220 | 17 |
| MP42 | * GAP | 15 | | 15 | 150 | | 25 | 200 | | 70 | E | 1 | 10 | | | | 20 | 1.0 | | | | | 17 |
| MP42A | * GAP | 15 | | 15 | 150 | | 25 | 200 | 5 | 70 | E | 1 | 10 | | | | 30 | 1.0 | | | | | 17 |
| MP42B | * GAP | 15 | | 15 | 150 | | 25 | 200 | 5 | 70 | E | 1 | 10 | | | | 45 | 1.0 | | | | | 17 |
| P101 | SAN | 20 | | 10 | 20 | 20 | 1 | 150 | 2 | 120 | E | 5 | 1 | 100 | 300 | 3.3 | 10 | 0.2 | 15 | 25 | 150 | | 10 |
| P101A | SAN | 10 | 10 | 10 | 20 | 20 | 1 | 150 | 2 | 120 | E | 5 | 1 | 100 | 300 | 3.3 | 10 | 0.2 | 18 | | 150 | | 10 |
| P101B | SAN | 20 | 20 | 20 | 20 | 20 | 1 | 150 | 2 | 150 | E | 5 | 1 | 100 | 300 | 3.3 | 15 | 0.2 | 15 | | 150 | | 10 |
| P102 | SAN | 10 | 10 | 10 | 20 | 20 | 1 | 150 | 2 | 120 | E | 5 | 1 | 100 | 300 | 2.0 | 18 | 0.5 | 15 | | 150 | | 10 |
| P103 | SAN | 10 | 10 | 10 | 20 | 20 | 1 | 150 | 2 | 120 | E | 5 | 1 | 100 | 300 | 3.3 | 30 | 1.0 | 15 | | 150 | | 10 |
| P103A | GAN | | | 10 | 20 | | 3 | 150 | | | | | | | | | 30 | 1.0 | | | 100 | | 10 |
| P104 | SAP | 60 | 45 | 60 | 10 | 10 | 1 | 150 | 2 | 150 | E | 5 | 1 | 140 | | 3.3 | 9.0 | 0.1 | | | 80 | 1k | 10 |
| P105 | SAP | 30 | 45 | 30 | 10 | 10 | 1 | 150 | 2 | 150 | E | 5 | 1 | 140 | | 3.3 | 9.0 | 0.1 | | | 80 | 1k | 10 |
| P106 | SAP | 15 | 45 | 15 | 10 | 10 | 1 | 50 | 2 | 150 | E | 5 | 1 | 80 | | 2.0 | 13.5 | 0.5 | | | 80 | <2k | 10 |
| GT108A | * GAP | 10 | | | 50 | | 10 | 75 | 1 | | E | 5 | 1 | | | 3.3 | 20 | 0.5 | | | 30 | | 9A |
| GT108B | * GAP | 10 | | | 50 | | 10 | 75 | 1 | | E | 5 | 1 | | | 3.3 | 35 | 1.0 | | | 30 | | 9A |
| GT10BG | * GAP | 10 | | | 50 | | 10 | 75 | 1 | | E | 5 | 1 | | | 3.3 | hl.1 | 1.0 | | | 30 | | 9A |
| GT108V | * GAP | 10 | | | 50 | | 10 | 75 | 1 | | E | 5 | 1 | | | 3.3 | 60 | 1.0 | | | 30 | | 9A |
| P108 | GAN | | | 10 | 20 | | <1 | 150 | | | | | | | | | 20 | *1.0 | | | 50 | | 10 |
| P108A | GAN | | | 10 | 20 | | <1 | 150 | | | | | | | | | 13 | 1.0 | | | 50 | | 10 |
| GT109A | * GAP | 10 | | 6 | 20 | | 5 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | 20 | 1.0 | | | 30 | *3k | 29 |
| GT109B | * GAP | 10 | | 6 | 20 | | 5 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | 35 | 1.0 | | | 30 | *3k | 29 |
| GT109D | * GAP | 10 | | 6 | 20 | | 2 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | 20 | 3.0 | | | 40 | *3k | 29 |
| GT109G | * GAP | 10 | | 6 | 20 | | 5 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | hl.1 | 1.0 | | | 30 | *3k | 29 |
| GT109I | * GAP | 10 | | 6 | 20 | | 5 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | 20 | 1.0 | | | 30 | *3k | 29 |
| GT109V | * GAP | 10 | | 6 | 20 | | 5 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | 60 | 1.0 | | | 30 | *3k | 29 |

| Type No. | | Kind | Maximum | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{CBO}$ V | $V_{EBO}$ V | $V_{CEO}$ V | $I_C$ mA | $I_E$ mA | $I_{CBO}$ μA | $P_C$ mW | $K_\theta$ mW/°C | $T_A$ °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | fα *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r'C_c$ | |
| GT109YE | * | GAP | 10 | | 6 | 20 | | 2 | 30 | <1 | 80 | E | 5 | 1 | | | 3.3 | 50 | 5.0 | | | 40 | *3k | 29 |
| GT109ZH | * | GAP | 10 | | 6 | 20 | | 1 | 30 | <1 | 80 | E | 1 | 5 | | | 3.3 | 1H | | | | 30 | *3k | 29 |
| P109 | | GAN | | | 10 | 20 | | <1 | 150 | | | | | | | | | 13 | *2.0 | | | 50 | | 10 |
| P110 | | GAN | | | 10 | 20 | | <1 | 150 | | | | | | | | | 15 | *3.0 | | | 30 | | 10 |
| MP111 | * | SAN | 20 | 5 | 20 | 20 | | 3 | 150 | | 100 | E | 1 | 5 | | 300 | 2.0 | 10 | 0.5 | | | 170 | | 17 |
| MP111A | * | SAN | 10 | 5 | 10 | 20 | | 3 | 150 | | 100 | E | 5 | 1 | | 300 | 2.0 | 10 | 0.5 | 18 | | 170 | | 17 |
| MP111B | * | SAN | 10 | 5 | 10 | 20 | | 3 | 150 | | 100 | E | 5 | 1 | | 300 | 2.0 | 15 | | | | 170 | | 17 |
| MP112 | * | SAN | 10 | 5 | 10 | 20 | | 3 | 150 | | 100 | E | 5 | 1 | | 300 | 2.0 | 15 | 0.5 | | | 170 | | 17 |
| MP113 | * | SAN | 10 | 5 | 10 | 20 | | 3 | 150 | | 100 | E | 5 | 1 | 1 300 | | 2 | 15 | 1.0 | | | 170 | | 17 |
| MP113A | * | SAN | 10 | 5 | 10 | 20 | | 3 | 150 | | 100 | E | 5 | 1 | 1 300 | | 2 | 35 | 1.2 | | | 170 | | 17 |
| MP114 | * | SAP | 60 | 10 | 60 | 10 | | 10 | 150 | | 100 | E | 5 | 1 | 300 | 60 | | 9 | 0.1 | | | | | 17 |
| MP115 | * | SAP | 30 | 10 | 30 | 10 | | 10 | 150 | | 100 | E | 5 | 1 | 300 | 64 | | 9 | 0.1 | | | | | 17 |
| MP116 | * | SAP | 15 | 10 | 15 | 10 | | 10 | 150 | | 100 | E | 5 | 1 | 300 | 114 | | 15 | 0.5 | | | | | 17 |
| P135 | | GAP | 30 | | | | 10 | 10 | 150 | | 100 | | 5 | 1 | | 60 | 2.0 | 0.92 | 0.5 | 12 | | 50 | | 10 |
| P201E | * | GAP | 45 | 45 | 30 | 15h | | 400 | 1W | 300 | 85 | E | 10 | 200 | | | | 20 | 0.1 | 25 | | | | 25 |
| P201AE | * | GAP | 45 | 45 | 30 | 15h | | 400 | 1W | 300 | 85 | E | 10 | 200 | | | | 40 | 0.2 | 25 | | | | 25 |
| P202E | * | GAP | 70 | 35 | 55 | 2k | | 400 | 1W | 300 | 85 | E | 10 | 200 | | | | 20 | 0.1 | 30 | | | | 25 |
| P203E | * | GAP | 70 | 45 | 55 | 2k | | 400 | 1W | 300 | 85 | E | 10 | 200 | | | | 20 | 0.2 | 20 | | | | 25 |
| P207 | | GAP | 45 | 20 | 40 | 25A | | 16m | 4W | 70 | 85 | | | | | | | 15 | 0.2 | | | | | 24 |
| P207A | | GAP | 45 | 20 | 40 | 25A | | 16m | 4W | 70 | 85 | | | | | | | 15 | | | | | | 24 |
| P208 | | GAP | 65 | 30 | 60 | 25A | | 25m | 4W | 70 | 85 | | | | | | | 15 | | | | | | 24 |
| P208A | | GAP | 65 | 30 | 60 | 25A | | 25m | 4W | | 85 | | | | | | | 15 | | | | | | 24 |
| P209 | | GAP | 65 | | 45 | 12A | | 8m | 1500 | 43 | 85 | | | | | | | 15 | 0.1 | | | | | 4 |
| P209A | | GAP | 65 | | 45 | 12A | | 8m | 1500 | 43 | 85 | | | | | | | 15 | 0.1 | | | | | 4 |
| P210 | | GAP | 45 | | 65 | 12A | | 12m | 1500 | 43 | 85 | | | | | | | 15 | 0.1 | | | | | 4 |
| P210A | * | GAP | 45 | | 65 | 12A | | 12m | 1500 | 43 | 85 | | | | | | | 15 | 0.1 | | | | | 4 |
| P210B | * | GAP | 65 | 25 | 40 | 12A | | 15m | P45W | 1k | 70 | E | 2 | 5A | | | | 10 | 0.1 | | | | | 23 |
| P210V | * | GAP | 45 | 25 | 40 | 12A | | 15m | P45W | 1k | 70 | E | 2 | 5A | | | | 10 | 0.1 | | | | | 23 |
| P211 | | GAP | 50 | | | 500 | | 50 | 750 | | 85 | | | | | | | 50 | 1.0 | | | | | 26 |
| P212 | | GAP | 70 | | | 500 | | 50 | 750 | | 85 | | | | | | | 20 | 1.0 | | | | | 26 |
| P212A | | GAP | 70 | | | 500 | | 50 | 750 | | 85 | | | | | | | 50 | 1.0 | | | | | 26 |
| P213 | * | P | 45 | <1 | 40 | 5A | 1h | 150 | 3500 | 314 | 85 | E | 10 | 100 | | | | 20 | <0.2 | | | | | 25 |
| P213A | * | GAP | 45 | 10 | 30 | 5A | | 1000 | 4W | 250 | 85 | E | 5 | 200 | | | | 20 | <0.2 | | | | | 25 |
| P213B | * | GAP | 45 | 10 | 30 | 5A | | 1000 | 4W | 250 | 85 | E | 5 | 200 | | | | 40 | <0.2 | | | | | 25 |
| P214 | * | P | 60 | 15 | 55 | 5A | 1h | 300 | 4W | 250 | 85 | E | 5 | 200 | | | | 20 | <0.2 | | | | | 25 |
| P214A | * | P | 60 | 10 | 55 | 5A | 1h | 300 | 4W | 250 | 85 | E | 5 | 200 | | | | 50 | <0.2 | | | | | 25 |
| P214B | * | P | 60 | 15 | 55 | 5A | 1h | 150 | 3500 | 314 | 85 | E | 5 | 200 | | | | 20 | <0.2 | | | | | 25 |
| P214G | * | GAP | 60 | 10 | 55 | 5A | | 15H | 4W | 250 | 85 | E | 5 | 200 | | | | 20 | <0.2 | | | | | 25 |
| P214V | * | GAP | 60 | 10 | 55 | 5A | | 15H | 4W | 250 | 85 | E | 5 | 200 | | | | 20 | <0.2 | | | | | 25 |
| P215 | * | P | 80 | 15 | 70 | 5A | 1h | 300 | 4W | 250 | 85 | E | 5 | 200 | | | | 20 | <0.2 | | | | | 25 |
| P216 | * | GAN | 40 | 15 | 30 | 75h | 1h | 500 | 30W | 500 | 85 | E | 10 | 100 | | | | 18 | 0.1 | | | | | 25 |
| P216A | * | GAN | 40 | 15 | 40 | 75h | 1h | 500 | P24W | 500 | 85 | E | 10 | 100 | | | | 20 | 0.1 | | | | | 25 |
| P216B | * | GAN | 35 | 15 | 35 | 75h | | 1500 | P24W | 400 | 85 | E | 5 | 1A | | | | 10 | 0.1 | | | | | 25 |
| P216D | * | GAN | 50 | 15 | 50 | 75h | | 2000 | P24W | 500 | 85 | E | 3 | 2A | | | | 15 | 0.1 | | | | | 25 |
| P216G | * | GAN | 50 | 15 | 50 | 75h | | 2500 | P24W | 400 | 85 | E | 3 | 2A | | | | 5 | 0.1 | | | | | 25 |
| P216V | * | GAN | 35 | 15 | 35 | 75h | | 2000 | P24W | 400 | 85 | E | 3 | 2A | | | | 30 | 0.1 | | | | | 25 |
| P217 | * | GAN | 60 | 15 | 45 | 75h | 1h | 500 | P30W | 500 | 85 | E | 1 | 4A | | | | 15 | 0.1 | | | | | 25 |
| P217A | * | GAN | 60 | 15 | 45 | 75h | 1h | 500 | P30W | 500 | 85 | E | 5 | 1A | | | | 20 | 0.1 | | | | | 25 |
| P217B | * | GAN | 60 | 15 | 45 | 75h | 1h | 500 | P30W | 500 | 85 | E | 5 | 1A | | | | 20 | 0.1 | | | | | 25 |
| P217G | * | GAN | 60 | 15 | 60 | 75h | | 3000 | P24W | 500 | 85 | E | 3 | 2A | | | | 20 | 0.1 | | | | | 25 |
| P217V | * | GAN | 60 | 15 | 60 | 75h | | 3000 | P24W | 500 | 85 | E | 3 | 2A | | | | 15 | 0.1 | | | | | 25 |
| KT301 | * | SDN | 20 | 3 | 20 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 20 | 30 | | | 10 | | 9 |
| KT301A | * | SDN | 20 | 3 | 20 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 40 | 30 | | | 10 | | 9 |
| KT301B | * | SDN | 30 | 3 | 30 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 10 | 30 | | | 10 | | 9 |
| KT301D | * | SDN | 20 | 3 | 20 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 20 | 60 | | | 10 | | 9 |
| KT301G | * | SDN | 20 | 3 | 20 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 10 | 60 | | | 10 | | 9 |
| KT301V | * | SDN | 30 | 3 | 30 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 20 | 30 | | | 10 | | 9 |
| KT301YE | * | SDN | 20 | 3 | 20 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 40 | 60 | | | 10 | | 9 |
| KT301ZH | * | SDN | 20 | 3 | 20 | 10 | 10 | 40 | 150 | 1 | 120 | E | 10 | 3 | | | 3 | 80 | 60 | | | 10 | | 9 |
| P302 | * | SAP | 35 | 6 | 35 | 500 | 5h | 100 | 1000 | 100 | 120 | E | 10 | 120 | | | | 10 | 0.2 | | | | | 20 |
| P303 | * | SAP | 60 | 10 | 60 | 500 | 5h | 100 | 1000 | 100 | 120 | E | 10 | 120 | | | | 6 | 0.1 | | | | *20 | 20 |
| P303A | * | SAP | 60 | 6 | 60 | 500 | 5h | 100 | 1000 | 100 | 120 | E | 10 | 120 | | | | 6 | 0.1 | | | | *20 | 20 |
| P304 | * | SAP | 80 | 10 | 80 | 500 | 5h | 100 | 1000 | 100 | 120 | E | 10 | 60 | | | | 5 | <0.1 | | | | | 20 |
| KT306A | * | SPN | 15 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | E | 1 | 10 | 30 | | | 20 | 100 | | | 5 | *5h | 34 |
| KT306B | * | SPN | 15 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | E | 1 | 10 | 30 | | | 40 | 100 | | | 5 | *5h | 34 |

| Type No. | | Kind | Maximum | | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{CBO}$ V | $V_{EBO}$ V | $V_{CEO}$ V | $I_C$ mA | $I_E$ mA | $I_{CBO}$ μA | $P_C$ mW | $K_\theta$ mW/°C | $T_A$ °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | fα *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r'_bC_c$ | No. |
| KT306D | | SPN | 15 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | E | 1 | 10 | 30 | | | 30 | 100 | | | | *5h | 34 |
| KT306G | * | SPN | 15 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | E | 1 | 10 | 30 | | | 40 | 100 | | | 5 | *5h | 34 |
| KT306V | * | SPN | 15 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | E | 1 | 10 | 30 | | | 20 | 100 | | | 5 | *5h | 34 |
| P306 | * | SAN | 60 | 6 | 60 | 400 | 1h | 100 | 1000 | 100 | 130 | E | 10 | 100 | | | | 7 | <0.1 | | | | | 20 |
| P306A | * | SAN | 80 | 4 | 80 | 400 | 50 | 100 | 1000 | 100 | 130 | E | 10 | 100 | | | | 5 | <0.1 | | | | | 20 |
| KT307A | * | SPN | 10 | 4 | 10 | 20 | | 500μ | 15 | <1 | | | | | | | | 20 | 100 | | | 6 | | 35 |
| KT307B | * | SPN | 10 | 4 | 10 | 20 | | 500μ | 15 | <1 | | | | | | | | 40 | 100 | | | 6 | | 35 |
| KT307G | * | SPN | 10 | 4 | 10 | 20 | | 500μ | 15 | <1 | | | | | | | | 80 | 100 | | | 6 | | 35 |
| KT307V | * | SPN | 10 | 4 | 10 | 20 | | 500μ | 15 | <1 | | | | | | | | 40 | 100 | | | 6 | | 35 |
| P307 | | SDN | 80 | 3 | 80 | 30 | | 20 | 250 | | | | | | | | | 16 | 20 | | | | | 38 |
| P307A | | SDN | 80 | 3 | 80 | 30 | | 20 | 250 | | | | | | | | | 30 | 20 | | | | | 38 |
| P307B | | SDN | 80 | 3 | 80 | 15 | | 20 | 250 | | | | | | | | | 50 | 20 | | | | | 38 |
| P307G | | SDN | 80 | 3 | 80 | 15 | | 20 | 250 | | | | | | | | | 16 | 20 | | | | | 38 |
| P307V | | SDN | 60 | 3 | 60 | 30 | | 20 | 250 | | | | | | | | | 50 | 20 | | | | | 38 |
| GT308A | * | GAP | 20 | 3 | 12 | 50 | | 2 | 150 | 4 | 85 | E | 1 | 10 | | | | 20 | 90 | 8 | | 8 | *4h | 12 |
| GT308B | * | GAP | 20 | 3 | 12 | 50 | | 2 | 150 | 4 | 85 | E | 1 | 10 | | | | 50 | 120 | 8 | | 8 | *5h | 12 |
| GT308V | * | GAP | 20 | 3 | 12 | 50 | | 2 | 150 | 4 | 85 | E | 1 | 10 | | | | 80 | 120 | 8 | | 8 | *5h | 12 |
| P308 | | SDN | 120 | 3 | 120 | 15 | | 20 | 250 | | | | | | | | | 30 | 20 | | | | | 38 |
| GT309A | * | GDP | 15 | 6 | 10 | 10 | | 5 | 50 | 1 | 70 | E | 5 | 1 | 38 | | 5.0 | 20 | 120 | | | 10 | *5h | 9 |
| GT309B | * | GDP | 15 | 6 | 10 | 10 | | 5 | 50 | 1 | 70 | E | 5 | 1 | 38 | | 5.0 | 60 | 120 | | | 10 | *5h | 9 |
| GT309D | * | GDP | 15 | 6 | 10 | 10 | | 5 | 50 | 1 | 70 | E | 5 | 1 | 38 | | 5.0 | 20 | 40 | | | 10 | *1k | 9 |
| GT309G | * | GDP | 15 | 6 | 10 | 10 | | 5 | 50 | 1 | 70 | E | 5 | 1 | 38 | | 5.0 | 60 | 80 | | | 10 | *1k | 9 |
| GT309V | * | GDP | 15 | 6 | 10 | 10 | | 5 | 50 | 1 | 70 | E | 5 | 1 | 38 | | 5.0 | 20 | 80 | | | 10 | *1k | 9 |
| GT309YE | * | GDP | 15 | 6 | 10 | 10 | | 5 | 50 | 1 | 70 | E | 5 | 1 | 38 | | 5.0 | 60 | 40 | | | 10 | *1k | 9 |
| P309 | | SDN | 120 | 3 | 120 | 30 | | 20 | 250 | | | | | | | | | 16 | | | | | | 38 |
| GT310A | * | GAP | 12 | | 10 | 10 | | 5 | 20 | <1 | 75 | E | 5 | 1 | 38 | | 3.0 | 20 | 160 | 3 | | 4 | *3h | 29 |
| GT310B | * | GAP | 12 | | 10 | 10 | | 5 | 20 | <1 | 75 | E | 5 | 1 | 38 | | 3.0 | 60 | 160 | 3 | | 4 | *3h | 29 |
| GT310D | * | GAP | 12 | | 10 | 10 | | 5 | 20 | <1 | 75 | E | 5 | 1 | 38 | | 3.0 | 20 | 80 | 4 | | 5 | *3h | 29 |
| GT310G | * | GAP | 12 | | 10 | 10 | | 5 | 20 | <1 | 75 | E | 5 | 1 | 38 | | 3.0 | 60 | 120 | 4 | | 5 | *3h | 29 |
| GT310V | * | GAP | 12 | | 10 | 10 | | 5 | 20 | <1 | 75 | E | 5 | 1 | 38 | | 3.0 | 20 | 120 | 4 | | 5 | *5h | 29 |
| GT310YE | * | GAP | 12 | | 10 | 10 | | 5 | 20 | <1 | 75 | E | 5 | 1 | 38 | | 3.0 | 60 | 80 | 4 | | 5 | *5h | 29 |
| GT311A | * | GEM | 15 | 2 | 12 | 10 | | 3 | 100 | | 55 | E | 5 | 5 | 30 | | | 20 | *3h | | | 2 | 50 | 12 |
| GT311B | * | GEM | 15 | 2 | 12 | 10 | | 3 | 100 | | 55 | E | 5 | 5 | 30 | | | 20 | *45.h | 7 | | 2 | 100 | 12 |
| GT311D | | | 12 | 2 | 12 | | | 5 | 150 | | | E | 3 | 15 | | | | 60 | | | | 2 | 75 | 12 |
| GT311G | | | 12 | 2 | 12 | | | 5 | 150 | | | E | 3 | 15 | | | | 30 | | | | 2 | 75 | 12 |
| GT311I | | GDP | 10 | 2 | 10 | 50 | | 10 | 150 | 3 | 70 | | | | | | | 1H | 45.0 | | | <3 | *1h | 12 |
| GT311V | | | 12 | 2 | 12 | | | 5 | 150 | | | E | 3 | 15 | | | | 15 | | | | 2 | 75 | 12 |
| GT311YE | | GDP | 12 | 2 | 12 | 50 | | 10 | 150 | 3 | 70 | | | | | | | 50 | 25.0 | | | <3 | *75 | 12 |
| GT311ZH | | G P | 12 | 2 | 12 | 50 | | 10 | 150 | 3 | 70 | | | | | | | 15 | 30.0 | | | <3 | *1h | 12 |
| KT-312A | * | SPN | 15 | 4 | 15 | 30 | | 10 | 225 | <3 | 85 | E | 2 | 20 | | | | 10 | h8.0 | | | 5 | *5h | 34 |
| KT-312B | * | SPN | 30 | 4 | 30 | 30 | | 10 | 225 | <3 | 85 | E | 2 | 20 | | | | 25 | h12 | | | 5 | *5h | 34 |
| KT312G | | SPN | 15 | | 15 | 30 | | | 225 | | 150 | | | | | | | | *h1.4 | | | | | 34 |
| KT-312V | * | SPN | 15 | 4 | 15 | 30 | | 10 | 225 | <3 | 85 | E | 2 | 20 | | | | 50 | h12 | | | 5 | *5h | 34 |
| GT313A | * | GAP | 15 | | 12 | 10 | | 3 | 100 | | 85 | E | 5 | 5 | 30 | | | 20 | 300 | | | <3 | *75 | 12 |
| GT313B | * | GAP | 15 | | 12 | 10 | | 3 | 100 | | 85 | E | 5 | 5 | 30 | | | 20 | 450 | 7 | | 2 | *40 | 12 |
| P314A | | GAP | 10 | | 1 | | | 10 | 100 | | 85 | | | | | | | 0.94 | 30 | | | 15 | | |
| P314B | | GAP | 10 | | 1 | | | 5 | 100 | | 85 | | | | | | | 0.94 | 60 | | | 10 | | |
| P314S | | GAP | 10 | | 1 | | | 5 | 100 | | 85 | | | | | | | 0.94 | 120 | | | 6 | | |
| KT315A | * | SEN | | | 25 | 100 | | 1 | 150 | 1 | 120 | | | | | | | 20 | 250 | | | 7 | *3h | 30 |
| KT315B | * | SEN | | | 20 | 100 | | 1 | 150 | 1 | 120 | | | | | | | 70 | 250 | | | 7 | *5h | 30 |
| KT315G | * | SEN | | | 35 | 100 | | 1 | 150 | 1 | 120 | | | | | | | 70 | 250 | | | 7 | *5h | 30 |
| KT315V | * | SEN | | | 40 | 100 | | 1 | 150 | 1 | 120 | | | | | | | 20 | 250 | | | 7 | *5h | 30 |
| KT316A | * | SEN | 10 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | | | | | | | 20 | 100 | | | 3 | *2h | 34 |
| KT316B | * | SEN | 10 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | | | | | | | 40 | 100 | | | 3 | *2h | 34 |
| KT316D | * | SEN | 10 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | | | | | | | 60 | 100 | | | 3 | *2h | 34 |
| KT316G | * | SEN | 10 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | | | | | | | 20 | 100 | | | 3 | *2h | 34 |
| KT316V | * | SEN | 10 | 4 | 10 | 30 | 30 | 500μ | 150 | | 100 | | | | | | | 40 | 100 | | | 3 | *2h | 34 |
| KT319A | | SPN | 5 | <4 | 5 | 15 | | 1 | 100 | | 80 | | | | | | | 15 | 100 | | | 11 | | 35 |
| KT319B | | SPN | 5 | <4 | 5 | 15 | | 1 | 100 | | 80 | | | | | | | 25 | 100 | | | 11 | | 35 |
| KT319V | | SPN | 5 | <4 | 5 | 15 | | 1 | 100 | | 80 | | | | | | | 40 | | | | 11 | | 35 |
| GT320A | * | GAP | 20 | 3 | 12 | 150 | | 10 | 200 | 4 | 70 | E | 1 | 10 | | | | 20 | 80 | | | 8 | *5h | 16 |
| GT320B | * | GAP | 20 | 3 | 12 | 150 | | 10 | 200 | 4 | 70 | E | 1 | 10 | | | | 50 | 120 | | | 8 | *5h | 16 |
| GT320V | * | GAP | 20 | 3 | 9 | 150 | | 10 | 200 | 4 | 70 | E | 1 | 10 | | | | 80 | 160 | | | 8 | *6h | 16 |
| GT321A | * | G P | 60 | 4 | 40 | 2A | | 500 | 160 | | 60 | E | 3 | 500 | | | | 20 | 60 | | | 80 | *6h | 13 |
| GT321B | * | G P | 60 | 4 | 40 | 2A | | 500 | 160 | | 60 | E | 3 | 500 | | | | 40 | 60 | | | 80 | *6h | 13 |

| Type No. | | Kind | Maximum | | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{CBO}$ V | $V_{EBO}$ V | $V_{CEO}$ V | $I_C$ mA | $I_E$ mA | $I_{CBO}$ μA | $P_C$ mW | $K_\theta$ mW/°C | $T_A$ °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | $f\alpha$ *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r'_bC_c$ | |
| GT321D | * | G P | 45 | 2 | 30 | 2A | | 500 | 160 | | 60 | E | 3 | 500 | | | | 40 | 60 | | | 80 | *6h | 13 |
| GT321G | * | G P | 45 | 2 | 30 | 2A | | 500 | 160 | | 60 | E | 3 | 500 | | | | 20 | 60 | | | 80 | *6h | 13 |
| GT321V | * | G P | 60 | 4 | 40 | 2A | | 500 | 160 | | 60 | E | 3 | 500 | | | | 80 | 60 | | | 80 | *6h | 13 |
| GT321YE | * | G P | 45 | 2 | 30 | 2A | | 500 | 160 | | 60 | E | 3 | 500 | | | | 80 | 60 | | | 80 | *6h | 13 |
| GT322A | * | GAP | 15 | | 15 | 5 | | 4 | 50 | | 62 | E | 5 | 1 | 34 | | 1 | 20 | 80 | 7 | | <2 | *2h | 31 |
| GT322B | * | GAP | 15 | | 15 | 5 | | 4 | 50 | | 59 | E | 5 | 1 | 34 | | 1 | 50 | 80 | 4 | | <2 | *2h | 31 |
| GT322D | * | GAP | 15 | | 15 | 5 | | 4 | 50 | | 62 | E | 5 | 1 | 34 | | 1 | 20 | 50 | 4 | | <2 | *2h | 31 |
| GT322G | * | GAP | 15 | | 15 | 5 | | 4 | 50 | | 59 | E | 5 | 1 | 34 | | 1 | 50 | 50 | 4 | | <3 | *2h | 31 |
| GT322V | * | GAP | 15 | | 15 | 5 | | 4 | 50 | | 62 | E | 5 | 1 | 34 | | 1 | 20 | 50 | 4 | | <3 | *2h | 31 |
| GT322YE | * | GAP | 15 | | 15 | 5 | | 4 | 50 | | 59 | E | 5 | 1 | 34 | | 1 | 50 | 50 | 4 | | <2 | *2h | 31 |
| P322 | | GDP | 8 | | | 15 | | 2 | 50 | | 85 | | | | | | 5.0 | 0.97 | 400 | | | 4 | | |
| KT325A | | SEN | 15 | 4 | 10 | 30 | 30 | <1 | 225 | | 120 | | | | | | | 20 | 100 | | | <3 | *1h | 36 |
| KT325B | | SEN | 15 | 4 | 10 | 30 | 30 | <1 | 225 | | 120 | | | | | | | 20 | 100 | | | <3 | | 36 |
| KT325D | | SEN | 15 | 4 | 10 | 30 | 30 | <1 | 225 | | 120 | | | | | | | 60 | 100 | | | <3 | | 36 |
| KT325G | | SEN | 15 | 4 | 10 | 30 | 30 | <1 | 225 | | 120 | | | | | | | 50 | 100 | | | <3 | | 36 |
| KT325V | | SEN | 15 | 4 | 10 | 30 | 30 | <1 | 225 | | 120 | | | | | | | 50 | 100 | | | <3 | | 36 |
| KT326A | | SPN | 20 | 4 | 15 | 50 | | <1 | 250 | | | | | | | | | 20 | 400 | | | 5 | *5h | 31 |
| KT326B | | SPN | 20 | 4 | 15 | 50 | | <1 | 250 | | | | | | | | | 45 | 400 | | | 5 | *5h | 31 |
| GT328 | | GEP | 15 | | | 10 | | 10 | 45 | | | | | | | | | 10 | *2k | | | <2 | *10 | 13 |
| GT329A | | GPN | 10 | <1 | | 15 | | 5 | 20 | | | | | | | | | 15 | | 4 | | 2 | *15 | 37 |
| GT329B | | GPN | 10 | <1 | | 15 | | 5 | 20 | | | | | | | | | 15 | | 5 | | 3 | *20 | 37 |
| GT329V | | GPN | 10 | <1 | | 15 | | 5 | 20 | | | | | | | | | 15 | | 5 | | <4 | *30 | 37 |
| GT330A | | GPN | 10 | <1 | | 20 | | 5 | 50 | | | | | | | | | 15 | | 5 | | 2 | *30 | 37 |
| GT330B | | GPN | 10 | <1 | | 20 | | 5 | 50 | | | | | | | | | 15 | | 5 | | 2 | *50 | 37 |
| P401 | * | GDP | 20 | <1 | 10 | 20 | 10 | 10 | 100 | 2 | 85 | E | 5 | 5 | | | 5.0 | 16 | 30 | | | 15 | *4k | 13 |
| GT402A | * | GAP | | <1 | 25 | 500 | | 25 | 600 | 10 | 85 | E | 1 | 3 | | | | 30 | <0.1 | | | | | 32 |
| GT402B | * | GAP | | <1 | 25 | 500 | | 25 | 600 | 10 | 85 | E | 1 | 3 | | | | 60 | <0.1 | | | | | 32 |
| P402 | * | GDP | 20 | 1 | 10 | 20 | 10 | 5 | 100 | 2 | 85 | E | 5 | 5 | | | 5.0 | 16 | 60 | | | 10 | *1k | 13 |
| GT403A | * | GAP | 45 | 20 | 30 | 12h | | 50 | 500 | 6 | 85 | E | 5 | <1 | | | | 20 | <0.1 | | | | | 28 |
| GT403B | * | GAP | 45 | 20 | 30 | 12h | | 50 | 500 | 6 | 85 | E | 5 | <1 | | | | 50 | <0.1 | | | | | 28 |
| GT403D | * | GAP | 60 | 30 | 45 | 12h | | 50 | 500 | 6 | 85 | E | 5 | <1 | | | | 50 | <0.1 | | | | | 28 |
| GT403G | * | GAP | 60 | 20 | 45 | 12h | | 50 | 500 | 6 | 85 | E | 5 | <1 | | | | 50 | <0.1 | | | | | 28 |
| GT403I | * | GAP | 80 | 20 | 60 | 12h | | 70 | 500 | 6 | 85 | E | 5 | <1 | | | | 50 | <0.1 | | | | | 28 |
| GT403V | * | GAP | 60 | 20 | 45 | 12h | | 50 | 500 | 6 | 85 | E | 5 | <1 | | | | 20 | <0.1 | | | | | 28 |
| GT403YE | * | GAP | 60 | 20 | 45 | 12h | | 50 | 500 | 6 | 85 | E | 5 | <1 | | | | 30 | <0.1 | | | | | 28 |
| GT403ZH | * | GAP | 80 | 20 | 60 | 12h | | 70 | 500 | 6 | 85 | E | 5 | <1 | | | | 20 | <0.1 | | | | | 28 |
| P403 | * | GDP | 10 | 1 | 10 | 20 | 10 | 5 | 100 | 2 | 85 | E | 5 | 5 | | | 5.0 | 30 | *h1.2 | | | 10 | *5h | 13 |
| P403A | * | GDP | 10 | 1 | 10 | 20 | 10 | 5 | 100 | 2 | 85 | E | 5 | 5 | | | 5.0 | 16 | *h1.2 | | | 10 | *5h | 13 |
| P404 | | GSP | 5 | 5 | <5 | 5 | | 5 | 10 | <1 | 85 | E | 3 | <1 | | | 7.0 | 15 | 10 | | | 25 | | 5 |
| P404A | | GSP | 5 | 5 | <5 | 5 | | 2 | 10 | <1 | 85 | E | 3 | <1 | | | 7.0 | 15 | 10 | | | 25 | | 5 |
| P405 | | GSP | 5 | 5 | <5 | 5 | | 5 | 10 | <1 | 85 | E | 3 | <1 | | | 7.0 | 20 | 30 | | | 15 | | 5 |
| P405A | | GSP | 5 | 5 | <5 | 5 | | 2 | 10 | <1 | 85 | E | 3 | <1 | | | 7.0 | 20 | 30 | | | 15 | | 5 |
| P406 | | GAP | 6 | 6 | 6 | 5 | 5 | 6 | 30 | 2 | 85 | | 6 | 1 | | | 2.0 | 20 | 10 | | | 20 | 150 | 17 |
| P407 | | GAP | 6 | 6 | 6 | 5 | 5 | 6 | 30 | 2 | 85 | | 6 | 1 | | | 2.0 | 20 | 20 | | | 20 | 150 | 17 |
| P408 | | G P | 20 | 20 | 6 | 5 | 5 | 6 | 30 | 1 | 90 | E | 5 | 1 | 33 | | 2.0 | 20 | 10 | 5 | | 20 | 150 | 3 |
| P409 | | G P | 20 | 20 | 6 | 5 | 5 | 6 | 30 | 1 | 90 | E | 5 | 1 | 33 | | 2.0 | 20 | 20 | 5 | | 20 | 150 | 3 |
| P410 | * | GDP | 6 | 8 | 6 | 20 | 20 | 2 | 100 | 2 | 85 | E | 5 | 5 | 10 | 120 | 10.0 | 30 | *h2.0 | 5 | | 4 | *3h | 6 |
| P410A | * | GDP | 6 | 8 | 6 | 20 | 20 | 2 | 100 | 2 | 85 | E | 5 | 5 | 10 | 120 | 10.0 | 1h | *h2.0 | 5 | | 4 | *3h | 6 |
| P411 | * | GDP | 6 | 8 | 6 | 20 | 20 | 2 | 100 | 2 | 85 | E | 5 | 5 | 10 | 120 | 10.0 | 30 | *h4.0 | | | 4 | *2h | 6 |
| P411A | * | GDP | 6 | 8 | 6 | 20 | 20 | 2 | 100 | 2 | 85 | E | 5 | 5 | 10 | 120 | 10.0 | 1h | *h4.0 | | | 4 | *2h | 6 |
| P414 | | GDP | 10 | 1 | 10 | 10 | | 5 | 100 | 2 | 75 | | | | | | 5.0 | 25 | 60 | | | 10 | *1k | 16 |
| P414A | | GDP | 10 | 1 | 10 | 10 | | 5 | 100 | 2 | 75 | | | | | | 5.0 | 60 | 60 | | | 10 | *1k | 16 |
| P414B | | GDP | 10 | 1 | 10 | 10 | | 5 | 100 | 2 | 75 | | | | | | 5.0 | 1h | 60 | | | 10 | *1k | 16 |
| P415 | | GDP | 10 | 1 | 10 | 10 | | 5 | 100 | 2 | 75 | | | | | | 5.0 | 25 | h1.2 | | | 10 | *5h | 16 |
| P415A | | GDP | 10 | 1 | 10 | 10 | | 5 | 100 | 2 | 75 | | | | | | 5.0 | 60 | h1.2 | | | 10 | *5h | 16 |
| P415B | | GDP | 10 | 1 | 10 | 10 | | 5 | 100 | 2 | 75 | | | | | | 5.0 | 1h | h1.2 | | | 10 | *5h | 16 |
| P416 | * | GDP | | 3 | 20 | 120 | 50 | 3 | 100 | 2 | 70 | E | 5 | 5 | | | 5.0 | 20 | 40 | | | 8 | *5h | 13 |
| P416A | * | GDP | | 3 | 20 | 120 | | 3 | 100 | 2 | 70 | E | 5 | 5 | | | 5.0 | 60 | 60 | | | 8 | *5h | 13 |
| P416B | * | GDP | | 3 | 20 | 120 | | 3 | 100 | 2 | 70 | E | 5 | 5 | | | 5.0 | 1h | 80 | | | 8 | *5h | 13 |
| P417 | * | G P | | <1 | 10 | 10 | 5 | 3 | 50 | 2 | 85 | E | 5 | 5 | | | | 24 | 200 | | | 5 | *4h | 19 |
| P417A | * | G P | | <1 | 10 | 10 | 5 | 3 | 50 | 2 | 85 | E | 5 | 5 | | | | 65 | 200 | | | 5 | *4h | 19 |
| P418 | | P | | | 10 | | 5 | 3 | 50 | 2 | | C | 5 | 5 | | | | 24 | 400 | | | | | |
| P418A | | P | | | 10 | | 5 | 3 | 50 | 2 | | C | 5 | 5 | | | | 65 | 400 | | | | | |
| P418B | | P | | | 10 | | 10 | 3 | 50 | 2 | | C | 6 | 10 | | | | 24 | 700 | | | | | |
| P418G | | GDP | 10 | | 8 | | | 3 | 50 | | 85 | | | | | | | 8 | 400 | | | 200 | | 6 |

| Type No. | | Kind | Maximum | | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{CBO}$ V | $V_{EBO}$ V | $V_{CEO}$ V | $I_C$ mA | $I_E$ mA | $I_{CBO}$ μA | $P_C$ mW | $K_\theta$ mW/°C | $T_A$ °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | $f\alpha$ *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r'_bC_c$ | |
| P418M | | GDP | 10 | | 8 | | | 3 | 50 | | 85 | | | | | | | 8 | 400 | | | 200 | | 6 |
| P418V | | P | | | 10 | | 10 | 3 | 50 | 2 | | C | 6 | 10 | | | | 65 | 700 | | | | | |
| P420 | | GDP | 40 | | 12 | 25 | | 10 | 100 | | | | | | | | 6.0 | 12 | *30 | | | 20 | *5k | 10 |
| P421 | | GDP | 40 | | 12 | 25 | | 10 | 100 | | | | | | | | 5.0 | 15 | *30 | | | 15 | *3k | 10 |
| P422 | * | GDP | 40 | | 10 | 10 | | 5 | 50 | | 70 | E | 5 | 5 | | | 5.0 | 30 | *60 | | | 10 | *1k | 16 |
| P422A | | GDP | 40 | | 12 | 25 | | 5 | 100 | | | | | | | | 5.0 | 15 | *60 | | | 10 | *1k | 16 |
| P423 | * | GDP | 40 | | 10 | 10 | | 5 | 50 | | 70 | E | 5 | 5 | | | 5.0 | 30 | h1.2 | 10 | | 10 | *5h | 16 |
| P423A | | GDP | 40 | | 12 | 25 | | 5 | 100 | | | | | | | | 5.0 | 15 | *h1.2 | | | | *5h | 16 |
| P501 | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 10 | 10 | | | 10 | | 19 |
| P501A | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 15 | 10 | | | 10 | | 19 |
| P502 | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 20 | 30 | | | 10 | | 19 |
| P502A | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 20 | 30 | | | 10 | | 19 |
| P502B | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 20 | 30 | | | 10 | | 19 |
| P502V | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 20 | 30 | | | 10 | | 19 |
| P503 | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 30 | 60 | | | 10 | | 19 |
| P503A | | SDN | 20 | 1 | 20 | 10 | 3 | 50 | 150 | 1 | 150 | E | 10 | 3 | | | 3.0 | 30 | 60 | | | 10 | | 19 |
| P504 | | SDN | 30 | 2 | 30 | 10 | | 2 | 150 | 2 | 120 | E | 10 | 5 | | | 2.0 | 10 | | | | 7 | | 14 |
| P504A | | SDN | 30 | 2 | 30 | 10 | | 2 | 150 | 2 | 120 | E | 10 | 5 | | | 2.0 | 25 | | | | 7 | | 14 |
| P505 | | SDN | 20 | 2 | 20 | 10 | | 2 | 150 | 2 | 120 | E | 10 | 5 | | | 2.0 | 40 | | | | 7 | *1k | 14 |
| P505A | | SDN | 20 | 2 | 20 | 10 | | 2 | 150 | 2 | 120 | E | 10 | 5 | | | 2.0 | 20 | | | | 7 | *1k | 14 |
| KT601 | | SDN | 100 | 2 | 100 | 30 | | | 500 | | 150 | | | | | | | 16 | | | | 15 | *6h | 11 |
| KT601A | * | SPN | 100 | 2 | 100 | 30 | | 50 | 500 | | 150 | E | 20 | <1 | | | | 16 | *40 | | | 15 | *6h | 11 |
| P601 | | GDP | 25 | <1 | 25 | 1A | | 200 | 1W | 500 | | C | 10 | 500 | | | | 20 | 20 | | 10 | 200 | *5h | 20 |
| P601A | | GDP | 30 | <1 | 30 | 1A | | 100 | 1W | 500 | | C | 10 | 500 | | | | 40 | 20 | | 10 | 200 | *5h | 20 |
| P601AI | * | GDP | 30 | <1 | 25 | 15h | | 100 | 500 | 65 | 85 | E | 3 | <1 | | | | 40 | 20 | | | 150 | *7h | 18 |
| P601B | | GDP | 30 | <1 | 25 | 1A | | 130 | 1W | 500 | 85 | C | 10 | 500 | | | | 80 | 20 | | 10 | 200 | *5h | 20 |
| P601BI | * | GDP | 30 | <1 | 30 | 15h | | 130 | 500 | 65 | 85 | E | 3 | <1 | | | | 80 | 20 | | | 250 | *7h | 18 |
| P601I | * | GDP | 25 | <1 | 20 | 15h | | 200 | 500 | 65 | 85 | E | 3 | <1 | | | | 20 | *13 | | | 150 | *7h | 18 |
| KT602A | * | SDN | 120 | 5 | 100 | 75 | 80 | 70 | 850 | 200 | 120 | E | 10 | 10 | | | | 20 | 150 | | | 4 | *3h | 33 |
| KT602B | * | SDN | 120 | 5 | 100 | 75 | 80 | 70 | 850 | 200 | 120 | E | 10 | 10 | | | | 50 | 150 | | | 4 | *3h | 33 |
| KT602G | $ | SDN | 80 | 5 | 100 | 75 | 80 | 70 | 850 | 200 | 120 | E | 10 | 10 | | | | 50 | 150 | | | 4 | *3h | 33 |
| KT602V | * | SDN | 80 | 5 | 100 | 75 | 80 | 70 | 850 | 200 | 120 | E | 10 | 10 | | | | 15 | 150 | | | 4 | *3h | 33 |
| P602 | | GDP | 30 | <1 | 30 | 1A | | 100 | 1W | 500 | 85 | C | 10 | 500 | | | | 40 | 20 | | 10 | 200 | *5h | 20 |
| P602A | | GDP | 25 | <1 | 25 | 1A | | 130 | 1W | 500 | 85 | C | 10 | 500 | | | | 80 | 20 | | 10 | 200 | *5h | 20 |
| P602AI | * | GDP | 25 | <1 | 25 | 15h | | 130 | 500 | 65 | 85 | E | 3 | <1 | | | | 80 | 6 | | | 150 | *7h | 18 |
| P602I | * | GDP | 30 | <1 | 30 | 15h | | 100 | 500 | 65 | 85 | E | 3 | <1 | | | | 40 | 6 | | | 150 | *7h | 18 |
| KT604A | | SPN | 300 | 5 | 250 | 200 | | | 3000 | 25 | 100 | | | | | | | 10 | *80 | | | | | 13 |
| KT604B | | SPN | 300 | 5 | 250 | 200 | | | 3000 | 25 | 100 | | | | | | | 30 | *80 | | | | | 13 |
| P604 | | GAP | 45 | 15 | 45 | 200 | | | 400 | | 70 | | | | | | | 10 | | | | | | 15 |
| P604A | | GAP | 45 | 15 | 45 | 200 | | | 400 | | 70 | | | | | | | 20 | | | | | | 15 |
| P604B | | GAP | 45 | 15 | 45 | 200 | | | 400 | | 70 | | | | | | | 40 | | | | | | 15 |
| KT605A | | SEN | 300 | 8 | 250 | 200 | | 50 | 400 | 3 | 150 | E | 40 | 20 | | | | 10 | | | | 7 | | 13 |
| KT605B | | SEN | 300 | 8 | 250 | 200 | | 50 | 400 | 3 | 150 | E | 40 | 20 | | | | 30 | | | | 7 | | 13 |
| P605 | * | GDP | 45 | 1 | 35 | 500 | | 2m | 500 | 65 | 85 | E | 3 | 500 | | 20 | | 20 | 10 | | | 130 | *5h | 26 |
| P605A | * | GDP | 45 | 1 | 35 | 500 | | 2m | 500 | 65 | 85 | E | 3 | 500 | | 40 | | 40 | 10 | | | 130 | *5h | 26 |
| P606 | * | GDP | 35 | <1 | 20 | 500 | | 2m | 500 | 65 | 85 | E | 3 | 500 | | 20 | | 20 | 10 | | | 130 | *5h | 26 |
| P606A | * | GDP | 35 | <1 | 20 | 500 | | 2m | 500 | 65 | 85 | E | 3 | 500 | | 40 | | 40 | 10 | | | 130 | *5h | 26 |
| P607 | * | GDP | 30 | <2 | 25 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 20 | *60 | | | 50 | *2h | 18 |
| P607A | * | GDP | 30 | <2 | 25 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 60 | *60 | | | 50 | *2h | 18 |
| P608 | * | GDP | 30 | <2 | 25 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 40 | 90 | | | 50 | *2h | 18 |
| P608A | * | GDP | 30 | <2 | 25 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 80 | 90 | | | 50 | *2h | 18 |
| P608B | | GDP | 50 | 15 | | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 80 | 70 | | | 50 | *2h | 26 |
| P609 | * | GDP | 30 | <2 | 25 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 40 | 120 | | | 50 | *2h | 18 |
| P609A | * | GDP | 30 | <2 | 25 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 80 | 120 | | | 50 | *2h | 18 |
| P609B | | GDP | 50 | 15 | 40 | 200 | | 300 | 1500 | | 85 | E | 10 | 100 | | | | 80 | 100 | | | 50 | *2h | 26 |
| GT701A | * | GDP | | 15 | 55 | 12A | | 5000 | P50W | 400 | 85 | C | 20 | 100 | | | | 10 | <0.1 | | | | | 23 |
| P701 | * | SDN | 40 | 2 | 40 | 500 | 7h | 100 | 1000 | 100 | 150 | E | 10 | 500 | | | | 10 | 12.5 | | | | | 20 |
| P701A | $ | SDN | 60 | 2 | 60 | 500 | 7h | 100 | 1000 | 100 | 150 | E | 10 | 200 | | | | 15 | 12.5 | | | | | 20 |
| P701B | * | SDN | 35 | <3 | 35 | 500 | 7h | 100 | 1000 | 100 | 150 | E | 10 | 200 | | | | 30 | 20 | | | | | 20 |
| P702 | * | SDN | 70 | 3 | 60 | 2A | | 5000 | 4000 | 400 | 120 | E | 10 | 1A | | | | 25 | 4.0 | | | | | 21 |
| P702A | * | SDN | 70 | 3 | 60 | 2A | | 2500 | 4000 | 400 | 120 | E | 10 | 1A | | | | 10 | 4.0 | | | | | 21 |
| KT801A | * | SDN | | <3 | 80 | 2A | | | P5W | 50 | 150 | E | 5 | 1A | | | | 13 | *10 | | | | | 33 |
| KT801B | * | SDN | | <3 | 80 | 2A | | | P5W | 50 | 150 | E | 5 | 1A | | | | 20 | *10 | | | | | 33 |
| KT802A | * | SPN | 150 | 3 | 130 | 5A | | 60m | P50W | 400 | 150 | C | 10 | 2A | | | | 15 | *10 | | | | | 21 |
| KT803A | * | SPN | | 4 | 60 | 10A | | 5m | P60W | | 100 | | | | | | | 10 | *20 | | | | | 21 |

| Type No. | | Kind | Maximum | | | | | | | | Typical | | | Maximum | | | Minimum | | Typ | Min | Maximum | | Fig |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{CBO}$ | $V_{EBO}$ | $V_{CEO}$ | $I_C$ | $I_E$ | $I_{CBO}$ | $P_C$ | $K_\theta$ mW/°C | $T_A$ | | | | | | | | | | | | No. |
| | | | V | V | V | mA | mA | μA | mW | | °C | Common | $V_C$ V | I mA | $h_{11}$ Ω | $h_{12}$ $10^{-5}$ | $h_{22}$ μmho | $h_{21}$ | $f\alpha$ *$f_T$ max MHz | NF dB | $K_M$ dB | $C_{ob}$ pF | $r_b$ *$r_b'C_c$ | |
| GT804A | * | GDN | | | 45 | 10A | | 10m | P15W | | 65 | | | | | | | 20 | 10 | | | | | 18 |
| GT804B | | GDN | | | 55 | 10A | | 10m | P15W | | 65 | | | | | | | 20 | 10 | | | | | 18 |
| GT804V | | GDN | | | 75 | 10A | | 10m | P15W | | 65 | | | | | | | 20 | 10 | | | | | 18 |
| KT805A | * | SDN | | 5 | 160 | 5A | | 100m | P30W | 300 | 150 | C | 10 | 2A | | | | 15 | 20 | | | | | 21 |
| KT805B | * | SDN | | 5 | 135 | 5A | | 100m | P30W | 300 | 150 | C | 10 | 2A | | | | 15 | 20 | | | | | 21 |
| KT902A | | SDN | 65 | 5 | 110 | 5A | | 10m | P30W | | 120 | | | | | | | 15 | *35 | | | | | 21 |
| KT903A | | SPN | 60 | 4 | 60 | 3A | | 10m | P30W | 300 | 85 | | | | | | | 15 | | | | 180 | | 21 |
| KT903B | * | SPN | 60 | 4 | 60 | 3A | | 10m | P30W | 300 | 85 | | | | | | | 40 | | | | 180 | | 21 |
| S1A | | GPP | 40 | | | 10 | 10 | | 100 | | | E | 20 | <1 | | | | 1.0 | 0.5 | 19 | | | | 7 |
| S1B | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 0.5 | 22 | | | | 7 |
| S1D | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 5.0 | 22 | | | | 7 |
| S1G | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 1.5 | 22 | | | | 7 |
| S1V | | GPP | 40 | | | 10 | 10 | | 100 | | | E | 20 | <1 | | | | 1.2 | 1.5 | 19 | | | | 7 |
| S1YE | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | | 15 | | | | 7 |
| S2A | | GPP | 30 | | | 10 | 10 | | 100 | | | E | 10 | <1 | | | | 1.2 | 0.5 | | | | | 7 |
| S2B | | GPP | 20 | | | 6 | 10 | | 50 | | | E | 10 | <1 | | | | 1.5 | 1.5 | | | | | 7 |
| S2G | | GPP | 20 | | | 6 | 10 | | 50 | | | E | 10 | <1 | | | | 1.5 | | | | | | 7 |
| S2V | | GPP | 20 | | | 6 | 10 | | 50 | | | E | 10 | <1 | | | | 1.5 | 5.0 | | | | | 7 |
| S3A | | GPP | 40 | | | 10 | 10 | | 100 | | | E | 20 | <1 | | | | 1.0 | 0.5 | 19 | | | | 8 |
| S3B | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 0.5 | 22 | | | | 8 |
| S3D | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 5.0 | 22 | | | | 8 |
| S3G | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 1.5 | 22 | | | | 8 |
| S3V | | GPP | 40 | | | 10 | 10 | | 100 | | | E | 20 | <1 | | | | 1.2 | 1.5 | 19 | | | | 8 |
| S3YE | | GPP | 40 | | | 6 | 10 | | 50 | | | E | 20 | <1 | | | | 1.2 | 10.0 | 15 | | | | 8 |
| S4A | | GPP | 30 | | | 6 | 10 | | 100 | | | E | 10 | <1 | | | | 1.2 | 0.5 | | | | | 8 |
| S4B | | GPP | 20 | | | 6 | 10 | | 50 | | | E | 10 | <1 | | | | 1.5 | 1.5 | | | | | 8 |
| S4G | | GPP | 20 | | | 6 | 10 | | 50 | | | E | 10 | <1 | | | | 1.5 | 10.0 | | | | | 8 |
| S4V | | GPP | 20 | | | 6 | 10 | | 50 | | | E | 10 | <1 | | | | 1.5 | 5.0 | | | | | 8 |

| Type No. | Series | Kind | No. Diodes | No. Xistors | Logic | Voltage Supply V | Voltage In V | Voltage Out V | Current In mA | Current Out mA | Max P mW | Frequency Min $H_z$ | Frequency Max $H_z$ | Input res ohms No. | Input res ohms Exp | Max gain dB | Fan In | Fan Out | Max time ns | Dwg No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 144 | | | | | 5.0 | 0.3 | 2.5 | | | | | | | | | | | 45 | 64 |
| 1DA191 | 119 | | | 2 | | 6.3 | 3.0 | | | 1 | | 5 | 40K | | | | | | | 51 |
| 1GF191 | 119 | | | 3 | | 6.3 | 3.5 | 4.0 | | 3 | | | | 1 | 3 | | | | | 51 |
| 1GF192 | 119 | MVB | 4 | 2 | | 3.0 | | 1.1 | | 8 | | | | 39 | 2 | | | | 30μ | 51 |
| 1GF193 | 119 | MVB | 2 | 2 | | 3.0 | 5.0 | 1.2 | | 4 | | | | 1 | 3 | | | | 2μ | 51 |
| 1IE201 | 120 | | | 30 | | 12.6 | 4.0 | | | | 15 | | | | | | | 10 | | 51 |
| 1IL131A | 113 | | | 8 | | 4.0 | 0.2 | 0.78 | | 1h | 2 | | | | | | | 4 | 400 | 51 |
| 1IL131B | 113 | | | 8 | | 4.0 | 0.2 | 0.78 | | 2h | 2 | | | | | | | 4 | 400 | 51 |
| 1IL131V | 113 | | | 8 | | 4.0 | 0.2 | 0.78 | | 3h | 2 | | | | | | | 4 | 400 | 51 |
| 1IL141A | 114 | | | 10 | | 4.0 | 0.15 | 0.95 | | 32 | 2 | | | | | | | 4 | 500 | 58 |
| 1IL141B | 114 | | | 10 | | 4.0 | 0.15 | 0.95 | | 46 | 2 | | | | | | | 4 | 500 | 58 |
| 1IR141A | 114 | | | 16 | | 4.0 | 0.15 | 0.78 | | 1h | 2 | | | | | | | 4 | 500 | 58 |
| 1IR141B | 114 | | | 16 | | 4.0 | 0.15 | 0.78 | | 2h | 2 | | | | | | | 4 | 500 | 58 |
| 1IR201 | 120 | MOS | | 31 | | 12.6 | 4.0 | | | | 15 | | | | | | | 10 | | 51 |
| 1IR202 | 120 | MOS | | 19 | | 12.6 | 4.0 | | | | 12 | | | | | | | 10 | | 51 |
| 1IR451 | 145 | MOS | | 12 | | 12.6 | | | | | 40 | | | 10 | 9 | | | | | 51 |
| 1JAM351 | 135 | MOS | | 8 | | 27.0 | | | | | 2 | | | | | | | | | 51 |
| 1KP191 | 119 | | | 1 | RTL | 3.0 | | | <4 | 70 | | | | | | | | | | 51 |
| 1KT011A | 101 | | | 2 | RTL | 3.5 | | 6.5 | 10 | | | | | 1 | 2 | | | | | 54 |
| 1KT011B | 101 | | | 2 | RTL | 3.5 | | 6.5 | 10 | | | | | 1 | 2 | | | | | 54 |
| 1KT011G | 101 | | | 2 | RTL | 3.5 | | 3.5 | 10 | | | | | 1 | 2 | | | | | 54 |
| 1KT011V | 101 | | | 2 | RTL | 3.5 | | 3.5 | 10 | | | | | 1 | 2 | | | | | 54 |
| 1KT491 | 149 | | | 4 | RTL | 5.0 | | | 2h | | 100 | | hkK | | | | | | 50 | 51 |
| 1LB041 | 104 | NND | 3 | 1 | DTL | 6.3 | | | | | 18 | | | | | | | 5 | 50 | 51 |
| 1LB042 | 104 | NND | 4 | 1 | DTL | 6.3 | 0.5 | 2.6 | | | 18 | | | | | | 3 | 5 | 50 | 51 |
| 1LB043 | 104 | NND | 5 | 1 | DTL | 6.3 | 0.5 | 2.6 | | | 18 | | | | | | 3 | 5 | 50 | 51 |
| 1LB044 | 104 | NND | 6 | 1 | DTL | 6.3 | 0.5 | 2.6 | | | 18 | | | | | | 3 | 5 | 50 | 51 |
| 1LB061 | 106 | NDR | | 10 | TTL | 5.0 | 0.3 | 2.3 | | | 18 | | | | | | 3 | 10 | 40 | 51 |
| 1LB0610 | 106 | NDR | | 6 | TTL | 5.0 | 0.25 | 2.3 | | | 7 | | | | | | 4 | 10 | 110 | 51 |
| 1LB062 | 106 | NDR | | 10 | TTL | 5.0 | 0.25 | 2.3 | | | 7 | | | | | | 3 | 10 | 100 | 51 |
| 1LB063 | 106 | NDR | | 10 | TTL | 5.0 | 0.3 | 2.3 | | | 18 | | | | | | 2 | 10 | 40 | 51 |
| 1LB064 | 106 | NDR | | 10 | TTL | 5.0 | 0.25 | 2.3 | | | 7 | | | | | | 2 | 10 | 100 | 51 |
| 1LB065 | 106 | NDR | | 6 | TTL | 5.0 | 0.3 | 2.3 | | | 18 | | | | | | 8 | 10 | 45 | 51 |
| 1LB066 | 106 | NDR | | 6 | TTL | 5.0 | 0.25 | 2.3 | | | 7 | | | | | | 8 | 10 | 110 | 51 |
| 1LB067 | 106 | NDR | | 6 | TTL | 5.0 | 0.3 | 2.3 | | | 18 | | | | | | 6 | 10 | 45 | 51 |
| 1LB068 | 106 | NDR | | 6 | TTL | 5.0 | 0.25 | 2.3 | | | 7 | | | | | | 6 | 10 | 110 | 51 |
| 1LB069 | 106 | NDR | | 6 | TTL | 5.0 | 0.3 | 2.3 | | | 18 | | | | | | 4 | 10 | 45 | 51 |
| 1LB091A | 109 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 12 | 35 | 51 |
| 1LB091B | 109 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 10 | 35 | 51 |
| 1LB091G | 109 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 5 | 35 | 51 |
| 1LB091V | 109 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 8 | 35 | 51 |
| 1LB092A | 109 | NDR | 4 | 4 | DTL | 5.0 | 0.4 | 2.5 | | | 19 | | | | | | 6 | 20 | 50 | 51 |
| 1LB092B | 109 | NDR | 4 | 4 | DTL | 5.0 | 0.4 | 2.5 | | | 19 | | | | | | 6 | 16 | 50 | 51 |
| 1LB111 | 111 | NOR | | 2 | RTL | 4.0 | 0.2 | 0.95 | | 1h | <1 | | | | | | | 4 | 400 | 62 |
| 1LB112 | 111 | NOR | | 2 | RTL | 4.0 | 0.2 | 0.95 | | 2h | <1 | | | | | | | 4 | 400 | 62 |
| 1LB113 | 111 | NOR | | 2 | RTL | 4.0 | 0.2 | 0.95 | | 3h | <1 | | | | | | | 4 | 100 | 62 |
| 1LB131A | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 1h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB131B | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 2h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB131V | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 3h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB132A | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 1h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB132B | 113 | NOR | | 8 | RTL | 4.0 | 0!2 | 0!95 | | 2h | 2 | | | | | | | 4 | 400 | 51 |
| 1LBX32V | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 3h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB133A | 113 | NOR | | 8 | TTL | 4.0 | 0.5 | | | 1h | 2 | | | | | | | 50 | 400 | 51 |
| 1LB133B | 113 | NOR | | 8 | TTL | 4.0 | 0.5 | | | 2h | 2 | | | | | | | 50 | 400 | 51 |
| 1LB133V | 113 | NOR | | 8 | TTL | 4.0 | 0.5 | | | 3h | 2 | | | | | | | 50 | 400 | 51 |

| Type No. | Series | Kind | No. Diodes | No. Xistors | Logic | Voltage Supply V | Voltage In V | Voltage Out V | Current In mA | Current Out mA | Max P mW | Frequency Min $H_z$ | Frequency Max $H_z$ | Input res ohms No. | Input res ohms Exp | Max gain dB | Fan In | Fan Out | Max time ns | Dwg No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1LB134A | 113 | NOR | | 6 | TTL | 4.0 | 0.5 | | | 1h | 2 | | | | | | | 50 | 400 | 51 |
| 1LB134B | 113 | NOR | | 6 | TTL | 4.0 | 0.5 | | | 2h | 2 | | | | | | | 50 | 400 | 51 |
| 1LB134V | 113 | NOR | | 6 | TTL | 4.0 | 0.5 | | | 3h | 2 | | | | | | | 50 | 400 | 51 |
| 1LB135A | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 1h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB135B | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 2h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB135V | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.95 | | 3h | 2 | | | | | | | 4 | 400 | 51 |
| 1LB141A | 114 | NOR | | 8 | RTL | | | | | | | | | | | | | | 500 | 58 |
| 1LB141B | 114 | NOR | | 8 | RTL | | | | | | | | | | | | | | 500 | 58 |
| 1LB142A | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |
| 1LB142B | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |
| 1LB143A | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |
| 1LB143B | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |
| 1LB144A | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |
| 1LB144B | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |
| 1LB145A | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 10 | 500 | 58 |
| 1LB145B | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 10 | 500 | 58 |
| 1LB146A | 114 | NOR | | 10 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 50 | 500 | 58 |
| 1LB146B | 114 | NOR | | 10 | RTL | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 50 | 500 | 58 |
| 1LB211A | 121 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 12 | 35 | 53 |
| 1LB211B | 121 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 10 | 35 | 53 |
| 1LB211G | 121 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 5 | 35 | 53 |
| 1LB211V | 121 | NDR | 5 | 2 | DTL | 5.0 | 0.35 | 2.5 | | | 12 | | | | | | 6 | 8 | 35 | 53 |
| 1LB212A | 121 | NDR | 4 | 4 | DTL | 5.0 | 0.4 | 2.5 | | | 19 | | | | | | 6 | 20 | 50 | 53 |
| 1LB212B | 121 | NDR | 4 | 4 | DTL | 5.0 | 0.4 | 2.5 | | | 19 | | | | | | 6 | 16 | 50 | 53 |
| 1LB251 | 125 | MND | 6 | 16 | DTL | 27.0 | | 15 | | | 17 | | | 10 | 7 | | 5 | 10 | 4k | 51 |
| 1LB331A | 133 | NND | 2 | 8 | TTL | 5.0 | 0.4 | 2.4 | | | 20 | | | | | | 4 | 10 | 22 | 51 |
| 1LB331B | 133 | NND | 2 | 8 | TTL | 5.0 | 0.4 | 2.4 | | | 20 | | | | | | 4 | 10 | 35 | 51 |
| 1LB332A | 133 | NND | 1 | 4 | TTL | 5.0 | 0.4 | 2.4 | | | 20 | | | | | | 8 | 10 | 25 | 51 |
| 1LB332B | 133 | NND | 1 | 4 | TTL | 5.0 | 0.4 | 2.4 | | | 20 | | | | | | 8 | 10 | 35 | 51 |
| 1LB341 | 134 | NOR | | | TTL | 5.0 | | | | | 2 | | | | | | | 10 | 100 | 51 |
| 1LB342 | 134 | NOR | | | TTL | 5.0 | | | | | 2 | | | | | | | 10 | 100 | 51 |
| 1LB371 | 137 | | | 6 | TTL | 5.0 | | | | | 110 | | | | | | 10 | 15 | 4 | 51 |
| 1LB372 | 137 | ONR | | 6 | TTL | 5.0 | | | | | 110 | | | | | | 10 | 15 | 4 | 51 |
| 1LB381 | 138 | ONR | | 10 | TTL | 5.0 | | | | | 110 | | | | | | | 15 | 3 | 63 |
| 1LB391 | 139 | ONR | | 6 | TTL | 5.0 | | | | | 40 | | | | | | 9 | 15 | 10 | 51 |
| 1LB392 | 139 | ONR | | 6 | RTL | 5.0 | | | | | 40 | | | | | | 9 | 15 | 10 | 51 |
| 1LB471 | 147 | MNR | 6 | 16 | DTL | 12.6 | 2.0 | 13.9 | | | 25 | | | | | | | 10 | | 51 |
| 1LB472 | 147 | MNR | 8 | 15 | DTL | 12.6 | 2.0 | 14 | | | 45 | | | 10 | 6 | | | 10 | 1μ | 51 |
| 1LI041 | 104 | AND | 3 | | | 6.3 | | | | 6 | | | | | | | | | | 51 |
| 1LI042 | 104 | AND | 4 | | | 6.3 | | | | 6 | | | | | | | | | | 51 |
| 1LI043 | 104 | AND | 5 | | | 6.3 | | | | 6 | | | | | | | | | | 51 |
| 1LI044 | 104 | AND | 8 | | | 6.3 | | | | 6 | | | | | | | | | | 51 |
| 1LI045 | 104 | AND | 10 | | | 6.3 | | | | 6 | | | | | | | | | | 51 |
| 1LL201 | 120 | MOR | | 14 | TTL | 12.6 | 4.0 | 13 | | | 8 | | | | | | | 10 | 800 | 51 |
| 1LP061 | 106 | OR | | 3 | TTL | 5.0 | | | | | | | | | | | 8 | | 6 | 51 |
| 1LP062 | 106 | OR | | 3 | TTL | 5.0 | | | | | | | | | | | 8 | | 10 | 51 |
| 1LP063 | 106 | OR | | 3 | TTL | 5.0 | | | | | | | | | | | 6 | | 6 | 51 |
| 1LP064 | 106 | OR | | 3 | TTL | 5.0 | | | | | | | | | | | 6 | | 10 | 51 |
| 1LP065 | 106 | OR | | 4 | TTL | 5.0 | | | | | | | | | | | 4 | | 6 | 51 |
| 1LP066 | 106 | OR | | 4 | TTL | 5.0 | | | | | | | | | | | 4 | | 10 | 51 |
| 1LP067 | 106 | OR | | 4 | TTL | 5.0 | | | | | | | | | | | 3 | | 6 | 51 |
| 1LP068 | 106 | OR | | 4 | TTL | 5.0 | | | | | | | | | | | 3 | | 10 | 51 |
| 1LP091 | 109 | | 6 | | | 25 | | | | <2 | | | | | | | | | | 51 |
| 1LP141 | 114 | OR | | 8 | | | | | | | | | | | | | | | 500 | 58 |
| 1LP142 | 114 | OR | | 8 | | 4.0 | 0.15 | 0.95 | | | 2 | | | | | | | 4 | 500 | 58 |

| Type No. | Series | Kind | No. Diodes | No. Xistors | Logic | Voltage Supply V | Voltage In V | Voltage Out V | Current In mA | Current Out mA | Max P mW | Frequency Min $H_z$ | Frequency Max $H_z$ | Input res ohms No. | Input res ohms Exp | Max gain dB | Fan In | Fan Out | Max time ns | Dwg No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1LP201 | 120 | MOS | | 8 | | | | | | | 12 | | | | | | | | | 51 |
| 1LP211 | 121 | | 6 | | | 25 | | | | <2 | | | | | | | | | 5 | 53 |
| 1LP251 | 125 | MOS | 8 | 8 | | 27 | | | | | 17 | | | | | | | | 6μ | 51 |
| 1LP331 | 133 | OR | | 4 | TTL | 5.0 | | | | | | | | | | | 4 | | 5 | 51 |
| 1LP371 | 137 | | | 6 | | | | | | | | | | | | | 6 | | | 51 |
| 1LP391 | 139 | | | 6 | | | | | | | | | | | | | 6 | | | 51 |
| 1LP421 | 142 | MOS | | 10 | | | | | | | 2 | | | | | | | 15 | | 51 |
| 1LP471 | 147 | MOS | 8 | 18 | TTL | 12.6 | 2.0 | 14 | | | 25 | | | 10 | 6 | | | 10 | 1μ | 51 |
| 1LR061 | 106 | ADR | | 7 | TTL | 5.0 | 0.3 | 2.3 | | | 24 | | | | | | 8 | 10 | 45 | 51 |
| 1LR062 | 106 | ADR | | 7 | TTL | 5.0 | 0.25 | 2.3 | | | 10 | | | | | | 8 | 10 | 110 | 51 |
| 1LR063 | 106 | ADR | | 7 | TTL | 5.0 | 0.3 | 2.3 | | | 24 | | | | | | 4 | 10 | 45 | 51 |
| 1LR064 | 106 | ADR | | 7 | TTL | 5.0 | 0.25 | 2.3 | | | 10 | | | | | | 4 | 10 | 110 | 51 |
| 1LR271 | 127 | ADR | 7 | 1 | DTL | 3.0 | | | | | 30 | | 12M | | | | 4 | 6 | 30 | 51 |
| 1LR331A | 133 | ADR | 2 | 12 | DTL | 5.0 | 0.4 | 2.4 | | | 20 | | | | | | | 10 | 28 | 51 |
| 1LR331B | 133 | ADR | 2 | 12 | DTL | 5.0 | 0.4 | 2.4 | | | 20 | | | | | | 4 | 10 | 40 | 51 |
| 1LR341 | 134 | ADR | | | DTL | 5.0 | | | | | 2 | | | | | | | 10 | 100 | 51 |
| 1LR342 | 134 | ADR | | | DTL | 5.0 | | | | | 2 | | | | | | | 10 | 100 | 51 |
| 1LR421 | 142 | MOS | | 15 | TTL | 12.6 | 3.0 | 10 | | | 36 | | | | | | 15 | 30 | 500 | 51 |
| 1LS271 | 127 | ADR | 7 | 2 | DTL | 3.0 | | | | | 30 | | 12M | | | | 4 | 6 | 30 | 51 |
| 1MA191 | 119 | | | 4 | TTL | 6.3 | | | | | | | 2hk | 27 | 2 | | | | | 51 |
| 1ND041 | 104 | | 3 | | | 4.5 | 0.85 | | | | | | | | | | | | | 51 |
| 1ND042 | 104 | | 4 | | | 4.5 | 0.85 | | | | | | | | | | | | | 51 |
| 1ND043 | 104 | | 6 | | | 4.5 | 0.85 | | | | | | | | | | | | | 51 |
| 1ND044 | 104 | | 8 | | | 4.5 | 0.85 | | | | | | | | | | | | | 51 |
| 1PP191 | 119 | | | 4 | TTL | 10.0 | | | 10 | 10 | | 20 | 2M | 15 | 2 | | | | | 51 |
| 1SV191 | 119 | AMP | 2 | 2 | | 6.3 | | | 3 | | | | | | | | | | | 51 |
| 1TK191 | 119 | | 3 | 2 | DTL | 6.3 | | | 8 | | | | 1M | | | | | | 500 | 51 |
| 1TK251 | 125 | MOS | 6 | 18 | TTL | 27.0 | 2.0 | 15 | | | 17 | | | 1 | 7 | | 5 | 10 | 4μ | 51 |
| 1TK471 | 147 | MOS | 8 | 22 | TTL | 12.6 | 2.0 | 14 | | | 15 | | | | 7 | | | | | 51 |
| 1TR061 | 106 | ADR | | 10 | TTL | 5.0 | 0.3 | 2.3 | | | 36 | | | | | | 3 | 10 | 40 | 51 |
| 1TR062 | 106 | ADR | | 10 | TTL | 5.0 | 0.3 | 2.3 | | | 14 | | | | | | 3 | 10 | 100 | 51 |
| 1TR063 | 106 | ADR | | 10 | TTL | 5.0 | 0.3 | 2.3 | | | 36 | | | | | | 2 | 10 | 40 | 51 |
| 1TR064 | 106 | ADR | | 10 | TTL | 5.0 | 0.3 | 2.3 | | | 14 | | | | | | 2 | 10 | 100 | 51 |
| 1TR131A | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.78 | | 1h | 2 | | | | | | | 4 | 400 | 51 |
| 1TR131B | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.78 | | 2h | 2 | | | | | | | 4 | 400 | 51 |
| 1TR131V | 113 | NOR | | 8 | RTL | 4.0 | 0.2 | 0.78 | | 3h | 2 | | | | | | | 4 | 400 | 51 |
| 1TR141A | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.78 | | 1h | 2 | | | | | | | 4 | 500 | 58 |
| 1TR141B | 114 | NOR | | 8 | RTL | 4.0 | 0.15 | 0.78 | | 2h | 2 | | | | | | | 4 | 500 | 58 |
| 1TR421 | 142 | MOS | | 22 | TTL | 12.6 | 3.0 | 10 | | | 40 | | | | | | | | 500 | 51 |
| 1TSH191 | 119 | SCH | | 4 | | 3.0 | | | 4 | | | | | 6 | 2 | | | | | 51 |
| 1UB191 | 119 | AMP | | 2 | | 6.3 | | | 7 | | | | | 1 | 3 | | | | | 51 |
| 1UI461 | 146 | AMP | | 10 | | 10.0 | | | | | 100 | | | | | | | | | 57 |
| 1UI462 | 146 | AMP | 2 | 4 | | 20.0 | | | 3h | | | | | | | | | | 200 | 57 |
| 1US191 | 119 | AMP | | 1 | | 6.3 | | | <2 | | | 5 | 40k | 4 | 3 | <3 | | | | 51 |
| 1US192 | 119 | AMP | | 2 | | 6.3 | | | 3 | | | 5 | 2hk | | | 8 | | | | 51 |
| 1US221A | 122 | AMP | | 2 | | 6.0 | | | | | | 0 | 7hk | | | 2h | | | | 52 |
| 1US221B | 122 | AMP | | 2 | | 9.0 | | | | | | 0 | 7hk | | | 4h | | | | 52 |
| 1US221V | 122 | AMP | | 2 | | 12.6 | | | | | | 0 | 7hk | | | 5h | | | | 52 |
| 1US222A | 122 | AMP | | 3 | | 4.0 | | | | | | 0 | 8M | | | 40 | | | | 52 |
| 1US222B | 122 | AMP | | 3 | | 6.3 | | | | | | 0 | 8M | | | 50 | | | | 52 |
| 1US222V | 122 | AMP | | 3 | | 6.3 | | | | | | 0 | 8M | | | 80 | | | | 52 |
| 1US481 | 148 | AMP | | 5 | | 3.0 | | | | | 50 | | 50M | | | | | | | 53 |
| 1UT191 | 119 | AMP | | 2 | | 6.3 | | | 2 | | | 5 | 2hk | 35 | 2 | 3 | | | | 51 |
| 1UT221A | 122 | AMP | | 4 | | 4.0 | | | | | | 0 | 2M | | | 15 | | | | 53 |
| 1UT221B | 122 | AMP | | 4 | | 4.0 | | | | | | 0 | 2M | | | 22 | | | | 53 |

| Type No. | Series | Kind | No. Diodes | No. Xistors | Logic | Voltage Supply V | Voltage In V | Voltage Out V | Current In mA | Current Out mA | Max P mW | Frequency Min $H_z$ | Frequency Max $H_z$ | Input res ohms No. | Input res ohms Exp | Max gain dB | Fan In | Fan Out | Max time ns | Dwg No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1UT221G | 122 | AMP | | 4 | | 6.3 | | | | | | 0 | 2M | | | 22 | | | | 53 |
| 1UT221V | 122 | AMP | | 4 | | 6.3 | | | | | | 0 | 2M | | | | | 15 | | 53 |
| 1UT231 | 132 | AMP | | 24 | | 12.6 | | | | | 120 | 0 | 2M | 15 | | 4 | | | | 53 |
| 1UT401 | 140 | AMP | | 19 | | 12.6 | | | | | 150 | 0 | 5M | 10 | | 3 | | | 1k | 53 |
| 1UYE191 | 120 | AMP | | 4 | | 3.0 | | | < 2 | | | 20 | 5hk | 40 | | 3 | | | | 51 |
| 1UYE201 | 120 | MMP | | 26 | | 12.6 | 4.0 | 13 | | | 70 | | | | | | | 10 | 800 | 51 |
| 2DA181 | 218 | DET | 1 | 1 | | 6.3 | | | | | 14 | | 10k | | | | | | 4μ | 57 |
| 2DS191 | 219 | LIM | | 4 | | 5.0 | | | | | | 500 | 1M | | | | | | | 55 |
| 2FP201 | 220 | FIL | | | | | | | | | | | | | | | | | | 55 |
| 2GF181 | 218 | MVB | 6 | 2 | | 6.3 | | | | | 83 | 50 | 1M | | | | | | | 57 |
| 2GF182 | 218 | MVB | 6 | 2 | | 6.3 | | | | | 76 | | 2hk | | | | | | 300 | 57 |
| 2GF201 | 220 | MVB | | 2 | | 7.5 | | | | 2 | | | | | | | | | | 55 |
| 2GS191 | 219 | OSC | | 1 | | 5.0 | | | | 2 | | | 70M | | | | | | | 55 |
| 2GS192 | 219 | OSC | | 1 | | 5.0 | | | | 2 | | | 15M | | | | | | | 55 |
| 2GS193 | 219 | OSC | | 1 | | 5.0 | | | | 2 | | | 15M | | | | | | | 55 |
| 2ID231 | 223 | | | 25 | | 4.0 | 1.45 | 0.85 | | | 171 | | | | | | 4 | 10 | 15 | 64 |
| 2IE111 | 211 | | | 15 | | 3.0 | 0.35 | 0.8 | | | 30 | | | | | | | 3 | 300 | 56 |
| 2IE112 | 211 | | | 15 | | 3.0 | 0.35 | 0.8 | | | 30 | | | | | | | 5 | 300 | 56 |
| 2IE231 | 223 | | | 29 | | 4 0 | 1.45 | 0.85 | | | 185 | | | | | | | 10 | 50 | 64 |
| 2IL071 | 207 | | | 16 | | 3.0 | 0.35 | 0.65 | | | 18 | | | | | | | 3 | 200 | 60 |
| 2IL072 | 207 | | | 16 | | 3.0 | 0.35 | 0.65 | | | 18 | | | | | | | 4 | 200 | 60 |
| 2IL073 | 207 | | | 16 | | 3.0 | 0.35 | 0.65 | | | 18 | | | | | | | 5 | 200 | 60 |
| 2IL231 | 223 | | | 30 | | 4.0 | 1.45 | 0.85 | | | 250 | | | | | | | 10 | 35 | 64 |
| 2IR111 | 211 | | | 12 | TTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | | 4 | 400 | 56 |
| 2IR112 | 211 | | | 12 | TTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | | 6 | 400 | 56 |
| 2KD281 | 228 | SWI | 14 | | RDL | 6.3 | | 1.25 | < 3 | | | | | | | | | | 20 | 56 |
| 2KD282 | 228 | SWI | 14 | | RDL | 6.3 | | 1.25 | < 3 | | | | | | | | | | 20 | 56 |
| 2KT281 | 228 | SWI | 8 | 2 | DTL | 6.3 | 0.5 | 2.5 | | | | | | | | | | | 20 | 57 |
| 2LB011 | 201 | NND | | 4 | RTL | 4.0 | 1.3 | 0.3 | | | 15 | | | | | | 6 | 2 | 100 | 58 |
| 2LB012 | 201 | NOR | | 4 | RTL | 4.0 | 1.3 | 0.3 | | | 30 | | | | | | 6 | 1 | 100 | 58 |
| 2LB013 | 201 | NOR | | 4 | RTL | 4.0 | 1.3 | 0.3 | | | 30 | | | | | | 6 | 1 | 100 | 58 |
| 2LB014 | 201 | NND | | 6 | RTL | 4.0 | 1.3 | 0.3 | | | 25 | | | | | | 6 | 2 | 100 | 58 |
| 2LB015 | 201 | NND | | 5 | RTL | 4.0 | 1.3 | 0.3 | | | 20 | | | | | | 6 | 2 | 100 | 58 |
| 2LB016 | 201 | NOR | | 5 | RTL | 4.0 | 1.3 | 0.3 | | | 38 | | | | | | 6 | 1 | 100 | 58 |
| 2LB017 | 201 | NOR | | 5 | RTL | 4.0 | 1.3 | 0.3 | | | 38 | | | | | | 6 | 1 | 100 | 58 |
| 2LB041 | 204 | NDR | 2 | 8 | TTL | 4.0 | 2.4 | 0.3 | | | 68 | | | | | | 10 | 6 | 100 | 61 |
| 2LB042 | 204 | NND | 2 | 6 | TTL | 4.0 | 2.4 | 0.3 | | | 50 | | | | | | 5 | 10 | 100 | 61 |
| 2LB052 | 205 | NOR | | 4 | RTL | 4.0 | 0.3 | 1.4 | | | 25 | | | | | | | 2 | 250 | 61 |
| 2LB053 | 205 | NOR | | 4 | RTL | 4.0 | 0.3 | 1.4 | | | 25 | | | | | | | 3 | 250 | 61 |
| 2LB071 | 207 | NOR | | 12 | RTL | 3.0 | 0.35 | 0.65 | | | 18 | | | | | | 6 | 3 | 200 | 60 |
| 2LB072 | 207 | NOR | | 12 | RTL | 3.0 | 0.35 | 0.65 | | | 18 | | | | | | 6 | 4 | 200 | 60 |
| 2LB073 | 207 | NOR | | 12 | RTL | 3.0 | 0.35 | 0.65 | | | 18 | | | | | | 6 | 5 | 200 | 60 |
| 2LB074 | 207 | NOR | | 16 | RTL | 3.0 | 0.35 | 0.65 | | | 19 | | | | | | 6 | 3 | 200 | 60 |
| 2LB075 | 207 | NOR | | 16 | RTL | 3.0 | 0.35 | 0.65 | | | 19 | | | | | | 6 | 4 | 200 | 60 |
| 2LB076 | 207 | NOR | | 16 | RTL | 3.0 | 0.35 | 0.65 | | | 19 | | | | | | 6 | 5 | 200 | 60 |
| 2LB111 | 211 | NND | | 16 | RTL | 3.0 | 0.35 | 0.8 | | | | | | | | | 10 | 3 | 400 | 56 |
| 2LB112 | 211 | NND | | 16 | RTL | 3.0 | 0.35 | 0.8 | | | 19 | | | | | | 10 | 4 | 400 | 56 |
| 2LB113 | 211 | NND | | 16 | RTL | 3.0 | 0.35 | 0.8 | | | 19 | | | | | | 10 | 6 | 400 | 56 |
| 2LB114 | 211 | NND | | 10 | RTL | 3.0 | 0.35 | 0.8 | | | 25 | | | | | | 10 | 3 | 400 | 56 |
| 2LB115 | 211 | NND | | 10 | RTL | 3.0 | 0.35 | 0.8 | | | 25 | | | | | | 10 | 4 | 400 | 56 |
| 2LB116 | 211 | NND | | 10 | RTL | 3.0 | 0.35 | 0.8 | | | 25 | | | | | | 10 | 6 | 400 | 56 |
| 2LB117 | 211 | NND | | 9 | RTL | 3.0 | 0.35 | 0.8 | | | 40 | | | | | | 10 | 3 | 400 | 56 |
| 2LB118 | 211 | NND | | 9 | RTL | 3.0 | 0.35 | 0.8 | | | 40 | | | | | | 10 | 4 | 400 | 56 |
| 2LB119 | 211 | NND | | 9 | RTL | 3.0 | 0.35 | 0.8 | | | 40 | | | | | | 10 | 6 | 400 | 56 |

| Type No. | Series | Kind | No. | | Logic | Voltage | | | Current | | Max P | Frequency | | Input res ohms | | Max gain | Fan | | Max time | Dwg No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Diodes | Xistors | | Supply V | In V | Out V | In mA | Out mA | mW | Min $H_z$ | Max $H_z$ | No. | Exp | dB | In | Out | ns | |
| 2LB171 | 217 | NND | 10 | 1 | DTL | 6.0 | 0.3 | 2.6 | | | 12 | | | | | | 8 | 4 | 25 | 59 |
| 2LB172 | 217 | NND | 10 | 2 | DTL | 6.0 | 0.3 | 2.6 | | | 24 | | | | | | 3 | 4 | 25 | 59 |
| 2LB173 | 217 | NND | 8 | 3 | DTL | 6.0 | 0.3 | 2.6 | | | 18 | | | | | | 8 | 8 | 25 | 59 |
| 2LB181 | 218 | | 3 | 1 | DTL | 6.3 | 6.0 | 3.0 | | | 41 | 600 | 1M | | | | | | | 57 |
| 2LB211 | 221 | | 10 | 1 | | 4.0 | | | | 7 | 15 | | | | | | | | | 57 |
| 2LB231 | 223 | ORD | | 21 | TTL | 4.0 | 1.45 | 0.85 | | | 128 | | | | | | 3 | 10 | 15 | 64 |
| 2LB1110 | 211 | NOR | | 8 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | 10 | 3 | 250 | 56 |
| 2LB1111 | 211 | NOR | | 8 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | 10 | 4 | 250 | 56 |
| 2LB1112 | 211 | NOR | | 8 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | 10 | 6 | 250 | 56 |
| 2LI041 | 204 | | | 4 | RTL | | | 1.4 | | | 18 | | | | | | 4 | 1 | 10 | 61 |
| 2LL231 | 223 | | | 20 | TTL | 4.0 | 1.45 | 0.85 | | | 112 | | | | | | 4 | 10 | 15 | 64 |
| 2LN021 | 202 | NND | 2 | 5 | DTL | 4.0 | 0.3 | 1.4 | | | 35 | | | | | | | 3 | 70 | 58 |
| 2LN022 | 202 | NND | 2 | 5 | DTL | 4.0 | 0.3 | 1.4 | | | 35 | | | | | | | 5 | 70 | 58 |
| 2LN051 | 205 | NND | 4 | 4 | DTL | 4.0 | 0.4 | 1.4 | | | 8 | | | | | | | 4 | 250 | 61 |
| 2LN052 | 205 | NND | | 8 | RTL | 4.0 | 0.3 | 1.4 | | | 25 | | | | | | | 2 | 250 | 61 |
| 2LN111 | 211 | NND | | 5 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | 10 | 3 | 500 | 56 |
| 2LN112 | 211 | NND | | 5 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | 10 | 4 | 500 | 56 |
| 2LN113 | 211 | NND | | 5 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | 10 | 6 | 500 | 56 |
| 2LN114 | 211 | NND | | 5 | RTL | 3.0 | 0.35 | 0.8 | | | 40 | | | | | | 10 | 3 | 250 | 61 |
| 2LN115 | 211 | NND | | 5 | RTL | 3.0 | 0.35 | 0.8 | | | 40 | | | | | | 10 | 4 | 250 | 61 |
| 2LN116 | 211 | NND | | 5 | RTL | 3.0 | 0.35 | 0.8 | | | 40 | | | | | | 10 | 6 | 250 | 61 |
| 2LN151 | 215 | NND | | 5 | RTL | 4.0 | 0.33 | 1.5 | | | 35 | | | | | | | 5 | 30 | 58 |
| 2LN181 | 218 | INV | | 3 | | 6.3 | | 4.0 | | | <1 | | | | | | | 3 | | 57 |
| 2LN182 | 218 | INV | 2 | 3 | | 6.3 | | 3.5 | | | 24 | | | | | | | 3 | | 57 |
| 2LN183 | 218 | INV | 1 | 3 | | 6.3 | | 3.5 | | | 28 | | | | | | | 3 | | 57 |
| 2LN211 | 221 | NOR | | 6 | | 4.0 | 0.3 | 2.5 | | | 50 | | | | | | | 4 | | 57 |
| 2LP171 | 217 | EXP | 10 | 2 | DTL | 6.0 | | | | | 24 | | | | | | | | | 59 |
| 2LP172 | 217 | EXP | 9 | 1 | DTL | 6.0 | | | | | 9 | | | | | | | | 4 | 59 |
| 2LP173 | 217 | EXP | 8 | | | | | | | 1 | | | | | | | | | | 59 |
| 2LR171 | 217 | ANR | 8 | 4 | DTL | 6.0 | 0.3 | 2.6 | | | 30 | | | | | | 8 | 10 | 100 | 59 |
| 2LR221 | 222 | ANR | 8 | 3 | DTL | 4.0 | 0.3 | 2.3 | | | 25 | | | | | | 10 | 10 | 250 | 57 |
| 2LS011 | 201 | ADR | | 6 | RTL | 4.0 | 1.3 | 0.3 | | | 30 | | | | | | 6 | 8 | 100 | 58 |
| 2LS021 | 202 | ADR | 6 | 2 | DTL | 4.0 | 0.35 | 1.35 | | | 22 | | | | | | 8 | 3 | 70 | 58 |
| 2LS022 | 202 | ADR | 6 | 2 | DTL | 4.0 | 0.35 | 1.35 | | | 22 | | | | | | 8 | 5 | 70 | 58 |
| 2LS023 | 202 | ADR | 6 | 4 | DTL | 4.0 | 0.33 | 1.35 | | | 30 | | | | | | 8 | 3 | 70 | 58 |
| 2LS024 | 202 | ADR | 6 | 4 | DTL | 4.0 | 0.33 | 1.35 | | | 30 | | | | | | 8 | 5 | 70 | 58 |
| 2LS025 | 202 | ADR | 9 | | | 4.0 | | | | 3 | 23 | | | | | | | | | 58 |
| 2LS026 | 202 | ADR | 8 | | | 4.0 | | | | 3 | 16 | | | | | | | | | 58 |
| 2LS027 | 202 | ADR | 8 | 2 | DTL | 4.0 | 0.33 | 1.35 | | | 21 | | | | | | 8 | 3 | 50 | 58 |
| 2LS028 | 202 | ADR | 8 | 2 | DTL | 4.0 | 0.33 | 1.35 | | | 21 | | | | | | 8 | 5 | 50 | 58 |
| 2LS151 | 215 | ADR | 6 | 2 | DTL | 4.0 | 0.33 | 1.5 | | | 29 | | | | | | 8 | 5 | 30 | 58 |
| 2LS152 | 215 | ADR | 6 | 1 | DTL | 4.0 | 0.33 | 1.5 | | | 30 | | | | | | 10 | 5 | 25 | 58 |
| 2LS211 | 221 | | 8 | | | 10.0 | | | | 2 | | | | | | | | | | 57 |
| 2MS191 | 219 | | | 2 | | 5.0 | | | <2 | | | 300 | 34h | | | | | | | 55 |
| 2MS192 | 219 | | | 3 | | 5.0 | | | <3 | | | 300 | 34h | | | | | | | 55 |
| 2ND021 | 202 | | 6 | | | 10.0 | | | | 3 | | | | | | | | | | 58 |
| 2ND022 | 202 | | 9 | | | 10.0 | | | | 3 | | | | | | | | | | 58 |
| 2NE281 | 228 | | | | | 15.0 | | | | | | | | | | | | | | 57 |
| 2NK041 | 204 | | 4 | | | | | 1.4 | | | | | | | | | 4 | 1 | 10 | 61 |
| 2NK051 | 205 | | 4 | | | | | 1.2 | 5 | | | | | | | | | | | 61 |
| 2NK281 | 228 | | 4 | | | | | | | | | | | | | | | | | 57 |
| 2NS191A | 219 | | | 4 | | 5.0 | | | <3 | | | | 14M | | | | | | | 55 |
| 2NS191B | 219 | | | 4 | | 5.0 | | | <3 | | | | 14M | | | | | | | 55 |
| 2NT011 | 201 | | | 4 | | 5.0 | | | 15 | | 15 | | | | | 25 | | | | 58 |
| 2NT012 | 201 | | | 4 | | 5.0 | | | | | 15 | | | | | 45 | | | | 58 |

| Type No. | Series | Kind | No. Diodes | No. Xistors | Logic | Voltage Supply V | Voltage In V | Voltage Out V | Current In mA | Current Out mA | Max P mW | Frequency Min $H_z$ | Frequency Max $H_z$ | Input res ohms No. | Input res ohms Exp | Max gain dB | Fan In | Fan Out | Max time ns | Dwg No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2NT013 | 201 | | | 4 | | 5.0 | | | 15 | | 15 | | | | | 35 | | | | 58 |
| 2NT171 | 217 | | | 4 | | 10.0 | | | 15 | | | | | | | 70 | | | | 59 |
| 2NT172 | 217 | | | 4 | | 10.0 | | | 15 | | | | | | | 150 | | | | 59 |
| 2NT173 | 217 | | | 4 | | 10.0 | | | 15 | | | | | | | 280 | | | | 59 |
| 2NT191 | 217 | | | 5 | | 5.0 | | | | | | | | | | | | | | 55 |
| 2TK041 | 204 | | 4 | 5 | | 4.0 | 2.4 | 0.3 | | | 37 | | | | | | | | 100 | 61 |
| 2TK171 | 217 | | 16 | 2 | DTL | 6.0 | 0.3 | 2.6 | | | 60 | | 5M | | | | | 4 | | 59 |
| 2TK181 | 218 | | 3 | 6 | DTL | 6.3 | 0.25 | 4.0 | | | 24 | | 1M | | | | | | 300 | 57 |
| 2TR071 | 207 | | | 16 | | 3.0 | 0.35 | 0.65 | | | 10 | | | | | | | 3 | 200 | 60 |
| 2TR072 | 207 | | | 16 | | 3.0 | 0.35 | 0.65 | | | 10 | | | | | | | 4 | 200 | 60 |
| 2TR073 | 207 | | | 16 | | 3.0 | 0.35 | 0.65 | | | 10 | | | | | | | 5 | 200 | 60 |
| 2TR111 | 211 | NOR | | 12 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | | 3 | 500 | 56 |
| 2TR112 | 211 | NOR | | 12 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | | 4 | 500 | 56 |
| 2TR113 | 211 | NOR | | 12 | RTL | 3.0 | 0.35 | 0.8 | | | 35 | | | | | | | 6 | 500 | 56 |
| 2TR114 | 211 | NOR | | 8 | RTL | 3.0 | 0.35 | 0.8 | | | 20 | | | | | | | 2 | 400 | 56 |
| 2TR115 | 211 | NOR | | 8 | RTL | 3.0 | 0.35 | 0.8 | | | 20 | | | | | | | 3 | 400 | 56 |
| 2TR116 | 211 | NOR | | 8 | RTL | 3.0 | 0.35 | 0.8 | | | 20 | | | | | | | 5 | 400 | 56 |
| 2TR171 | 217 | | 14 | 2 | DTL | 3.0 | 0.3 | 2.6 | | | 40 | | 6M | | | | | 3 | | 59 |
| 2TR172 | 217 | | 14 | 2 | DTL | 3.0 | 0.3 | 2.6 | | | 40 | | 6M | | | | | 5 | | 59 |
| 2TR211 | 221 | FLP | 6 | 3 | | 4.0 | | 2.7 | | | 25 | | | | | | | | 1μ | 57 |
| 2TR231 | 223 | | | 25 | TTL | 4.0 | 1.45 | 0.85 | | | 128 | | | | | | | 10 | 35 | 64 |
| 2UI021 | 202 | AMP | 1 | 5 | DTL | 4.0 | 0.3 | 1.4 | | | 48 | | | | | | | 15 | 70 | 58 |
| 2UI071 | 207 | AMP | | 12 | TTL | 3.0 | 0.35 | 0.65 | | | 14 | | | | | | 1 | 20 | 200 | 60 |
| 2UI111 | 211 | AMP | | 10 | TTL | 3.0 | 0.35 | 0.85 | | | 30 | | | | | | | | 300 | 56 |
| 2UI151 | 215 | AMP | | 5 | RTL | 4.0 | 0.33 | 1.5 | | | 48 | | | | | | | 5 | 25 | 58 |
| 2UI181 | 218 | AMP | | 1 | RTL | 6.3 | | | | | 20 | 60 | 1hk | 6 | 2 | 3 | | | | 57 |
| 2UI182 | 218 | AMP | | 2 | TTL | 6.3 | | | | | 40 | 250 | 4hk | 6 | 2 | | | | | 57 |
| 2UI183 | 218 | AMP | | 2 | | 6.3 | | | | | 48 | | | 5 | 2 | 3 | | | | 57 |
| 2US181 | 218 | AMP | | 2 | | 6.3 | | | | | 69 | 22M | 37M | | | 3 | | | | 57 |
| 2US191A | 219 | AMP | | 2 | | 5.0 | | | <3 | | | 44M | 50M | | | 35 | | | | 55 |
| 2US191B | 219 | AMP | | 2 | | 5.0 | | | <3 | | | 44M | 50M | | | 70 | | | | 55 |
| 2US192 | 219 | AMP | | 3 | | 5.0 | | | <2 | | | 5hk | 1M | | | 6h | | | | 55 |
| 2US193 | 219 | AMP | | 2 | | 5.0 | | | <2 | | | 300 | 34h | | | 2h | | | | 55 |
| 2US194 | 219 | AMP | | 2 | | 5.0 | | | <2 | | | 300 | 34h | | | | | | | 55 |
| 2US201 | 220 | AMP | | 6 | | 7.5 | | | 4 | | | 500 | 3k | 7 | 3 | 1k | | | | 55 |
| 2US202 | 220 | | 1 | 1 | | 7.5 | | | <2 | | | 40k | 1hk | | | | | | | 55 |
| 2US281 | 228 | AMP | | 1 | | 6.3 | | | | | 70 | | | 2 | 2 | | | | | 57 |
| 2US282 | 228 | AMP | | 3 | | 6.3 | | | 3 | | | | | 4 | 2 | | | | | 57 |
| 2US283 | 228 | AMP | | 2 | | 6.3 | | | | | 70 | | | 2 | 2 | | | | | 57 |
| 2US284 | 228 | AMP | | 2 | | 6.3 | | | | | 80 | | | 2 | 3 | | | | | 57 |
| 2US285 | 228 | AMP | 6 | 3 | | 3.3 | | | 4 | | 65 | | | | | | | | | 57 |
| 2UYE181 | 218 | AMP | 1 | | | 6.3 | | | | | 8 | 200 | 3hk | 3 | 3 | | | | | 57 |

## Group X–B – MOS TRANSISTORS

| Type No. | Kind | $I_{DS}$ | | S (gain) | | $V_{GS}$ | | $V_{DG}$ | | $I_{GR}$ | Max noise $\mu$V | $C_{IN}$ | $C_{SD}$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Min | Max | Min | Max | Min | Max | Min | Max | | | | | |
| | | mA | mA | mA/V | mA/V | V | V | V | V | nA | *dB | pF | pF | |
| KP102I | *MJF | 0.7 | 1.8 | 0.35 | 1.0 | | 5.5 | 20 | 30 | 15 | 10 | 5 | 0.2 | 30 |
| KP102K | *MJF | 1.3 | 3.0 | 0.45 | 1.2 | | 7.5 | 20 | 30 | 15 | 10 | 5 | 0.2 | 30 |
| KP102L | *MJF | 2.4 | 6.0 | 0.65 | 1.3 | | 10.0 | 20 | 30 | 15 | 10 | 5 | 0.2 | 30 |
| KP102YE | *MJF | 0.18 | 0.55 | 0.25 | 0.7 | | 2.8 | 20 | 30 | 15 | 10 | 5 | 0.2 | 30 |
| KP102ZH | *MJF | 0.4 | 1.0 | 0.3 | 0.9 | | 4.0 | 20 | 30 | 15 | 10 | 5 | 0.2 | 30 |
| KP103I | *MJF | 1.0 | 2.1 | 0.8 | 2.6 | 0.8 | 3.0 | 15 | 20 | 20 | *3 | 17 | 8.0 | 30 |
| KP103K | *MJF | 1.7 | 3.8 | 1.4 | 3.5 | 1.4 | 4.0 | 15 | 20 | 20 | *3 | 17 | 8.0 | 30 |
| KP103L | *MJF | 3.0 | 6.6 | 1.8 | 3.8 | 2.0 | 6.0 | 15 | 20 | 20 | *3 | 17 | 8.0 | 30 |
| KP103M | *MJF | 5.4 | 12.0 | 2.0 | 4.4 | 2.8 | 7.0 | 15 | 20 | 20 | *3 | 17 | 8.0 | 30 |
| KP103YE | *MJF | 0.3 | 0.7 | 0.4 | 1.8 | 0.4 | 1.5 | 15 | 20 | 20 | *3 | 17 | 8.0 | 30 |
| KP103ZH | *MJF | 0.55 | 1.2 | 0.7 | 2.1 | 0.5 | 2.2 | 15 | 20 | 20 | *3 | 17 | 8.0 | 30 |

| Type No. | | Type | Maximum | | | Maximum @ 25 °C | | | Maximum | | | Recovery | | | $f_{Max}$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $I_F$ @ 25 mA | $T_{Opr}$ °C | $I_S$ @ 25 °C mA | PIV V | $E_F$ @ $I_F$ *Min $E_F$ V | mA | $I_R$ @ $E_r$ @ T µA | V | °C | $\tau$ @ $I_F$ µs | mA | $E_R$ V | MHz | |
| D1A | | GEP | 16 | 70 | | 20 | 1.0 | 2 | 250 | 10 | 20 | | | | 150M | 1 |
| D1B | | GEP | 16 | 70 | | 30 | 1.0 | 1 | 250 | 25 | 20 | | | | 150M | 1 |
| D1D | | GEP | 16 | 70 | | 75 | 1.0 | 2 | 250 | 75 | 20 | | | | 150M | 1 |
| D1G | | GEP | 16 | 70 | | 50 | 1.0 | 5 | 250 | 50 | 20 | | | | 150M | 1 |
| D1V | | GEP | 25 | 70 | | 30 | 1.0 | 8 | 250 | 25 | 20 | | | | 150M | 1 |
| D1YE | | GEP | 12 | 70 | | 100 | 1.0 | 1 | 250 | 100 | 20 | | | | 150M | 1 |
| D1ZH | | GEP | 12 | 70 | | 100 | 1.0 | 5 | 250 | 100 | 20 | | | | 150M | 1 |
| D2A | | GEP | 50 | 70 | | 7 | 1.0 | 50 | 250 | 7 | 20 | | | | 150M | 6 |
| D2B | * | GEP | 16 | 70 | 50 | 30 | 1.0 | 5 | 100 | 30 | 25 | | | | 250M | 6 |
| D2D | * | GEP | 16 | 70 | 50 | 75 | 1.0 | 15 | 250 | 75 | 25 | | | | 150M | 6 |
| D2G | * | GEP | 16 | 70 | 50 | 75 | 1.0 | 2 | 250 | 75 | 25 | | | | 150M | 6 |
| D2I | * | GEP | 16 | 70 | 50 | 100 | *1.0 | 2 | 250 | 100 | 25 | | | | 150M | 4 |
| D2K | | GEP | 16 | 70 | | 100 | 1.0 | 5 | 800 | 100 | 20 | | | | | 4 |
| D2M | | GEP | 16 | 70 | | 100 | 1.0 | 5 | 250 | 100 | 20 | | | | | 4 |
| D2N | | GEP | 16 | 70 | | 150 | 1.0 | 5 | 800 | 150 | 20 | | | | | 4 |
| D2P | | GEP | 16 | 70 | | 150 | 1.0 | 5 | 250 | 150 | 20 | | | | | 4 |
| D2R | | GEP | 16 | 70 | | 200 | 1.0 | 5 | 250 | 200 | 20 | | | | | 4 |
| D2V | * | GEP | 25 | 70 | 78 | 40 | 1.0 | 9 | 250 | 40 | 20 | | | | 150M | 4 |
| D2YE | * | GEP | 16 | 70 | 50 | 100 | 1.0 | <5 | 250 | 100 | 25 | | | | 150M | 4 |
| D2ZH | * | GEP | 8 | 70 | 50 | 150 | 1.0 | 8 | 250 | 150 | 25 | | | | 150M | 4 |
| MD3 | * | GEA | 12 | 70 | 50 | 15 | 1.0 | 5 | 100 | 15 | 25 | 0.1 | 20 | 10 | | 1 |
| D7A | * | GEA | 300 | 70 | 25 | 50 | 0.5 | 300 | 100 | 50 | 20 | | | | | 11 |
| D7B | * | GEA | 300 | 70 | 25 | 100 | 0.5 | 300 | 100 | 100 | 20 | | | | 50k | 11 |
| D7D | * | GEA | 300 | 70 | 25 | 300 | 0.5 | 300 | 100 | 300 | 20 | | | | 50k | 11 |
| D7G | * | GEA | 300 | 70 | 25 | 200 | 0.5 | 300 | 100 | 200 | 20 | | | | 50k | 11 |
| D7V | * | GEA | 300 | 70 | 25 | 150 | 0.5 | 300 | 100 | 150 | 20 | | | | 50k | 11 |
| D7YE | * | GEA | 300 | 70 | 25 | 350 | 0.5 | 300 | 100 | 350 | 20 | | | | 50k | 11 |
| D7ZH | * | GEA | 300 | 70 | 25 | 400 | 0.5 | 300 | 100 | 400 | 20 | | | | 50k | 11 |
| D9A | | GEP | 25 | 70 | | 10 | 1.0 | 10 | 250 | 10 | 20 | | | | 40M | 1 |
| D9B | * | GEP | 40 | 70 | | 10 | 1.0 | 90 | 250 | 10 | 20 | | | | 40M | 1 |
| D9D | * | GEP | 30 | 70 | | 30 | 1.0 | 60 | 250 | 30 | 20 | | | | 40M | 1 |
| D9G | * | GEP | 30 | 70 | | 30 | 1.0 | 30 | 250 | 30 | 20 | | | | 40M | 1 |
| D9I | * | GEP | 30 | 70 | | 30 | 1.0 | 30 | 120 | 30 | 20 | | | | 40M | 1 |
| D9K | * | GEP | 30 | 70 | | 30 | 1.0 | 60 | 60 | 30 | 20 | | | | 40M | 1 |
| D9L | * | GEP | 15 | 70 | | 100 | 1.0 | 30 | 250 | 100 | 25 | | | | 40M | 1 |
| D9M | | GEP | 30 | 70 | | 30 | 1.0 | 60 | 250 | 50 | 20 | | | | | 1 |
| D9V | * | GEP | 20 | 70 | | 30 | 1.0 | 10 | 250 | 30 | 25 | | | | 40M | 1 |
| D9YE | * | GEP | 20 | 70 | | 50 | 1.0 | 30 | 250 | 50 | 25 | | | | 40M | 1 |
| D9ZH | * | GEP | 15 | 70 | | 100 | 1.0 | 10 | 250 | 100 | 20 | | | | 40M | 1 |
| D10 | * | GEP | 50 | 70 | | 10 | 1.5 | 3 | 100 | 10 | 20 | | | | 100M | 4 |
| D10A | * | GEP | 50 | 70 | | 10 | 1.5 | 5 | 200 | 10 | 20 | | | | 100M | 4 |
| D10B | * | GEP | 50 | 70 | | 10 | 1.5 | 8 | 200 | 10 | 20 | | | | 100M | 4 |
| D11 | * | GEP | 20 | 70 | | 30 | 1.0 | 100 | 250 | 30 | 20 | | | | 50M | 4 |
| D12 | * | GEP | 20 | 70 | | 50 | 1.0 | 50 | 250 | 50 | 20 | | | | 50M | 4 |
| D12A | * | GEP | 20 | 70 | | 50 | 1.0 | 100 | 250 | 50 | 20 | | | | 50M | 4 |
| D13 | * | GEP | 20 | 70 | | 75 | 1.0 | 100 | 250 | 75 | 20 | | | | 50M | 4 |
| D14 | * | GEP | 20 | 70 | | 100 | 1.0 | 30 | 250 | 100 | 20 | | | | 50M | 4 |
| D14A | * | GEP | 20 | 70 | | 100 | 1.0 | 100 | 250 | 100 | 20 | | | | 50M | 4 |
| D15 | | GEP | | | | 30 | 1.0 | 15 | 300 | 30 | | | | | 300M | |
| D16 | | GEP | | | | 50 | 1.0 | 5 | 500 | 50 | | | | | 500M | |
| D16A | | GEP | | | | 50 | 1.0 | 10 | 500 | 50 | | | | | 300M | |
| D17 | | GEP | | | | 100 | 1.0 | 4 | 400 | 100 | | | | | 300M | |
| D18 | * | GEP | 16 | 60 | 50 | 20 | 1.0 | 20 | 10 | 20 | 25 | 0.1 | 50 | 10 | 40M | 2 |
| D19 | | GEP | 45 | 70 | | 40 | 1.0 | 45 | 100 | 40 | 50 | | | | | 1 |
| D19A | | GEP | 60 | 70 | | 20 | 1.0 | 60 | 100 | 20 | 50 | | | | | 1 |

| Type No. | | Type | Maximum | | | Maximum @ 25 °C | | | Maximum | | | Recovery | | | $f_{Max}$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $I_F$ @ 25 mA | $T_{Opr}$ °C | $I_S$ @ 25 °C mA | PIV V | $E_F$ @ $I_F$ *Min $E_F$ V | mA | $I_R$ @ $E_r$ @ T µA | V | °C | $\tau$ @ $I_F$ µs | mA | $E_R$ V | MHz | |
| D19B | | GEP | 45 | 70 | | 20 | 1.0 | 45 | 100 | 20 | 50 | | | | | 1 |
| D20 | * | GEP | 16 | 70 | | 10 | 1.0 | 20 | 100 | 10 | 25 | | | | 40M | 2 |
| D21 | | GEP | 16 | 70 | | 150 | 1.0 | 5 | 250 | 100 | 20 | | | | 150M | 4 |
| D101 | * | SIP | 30 | 150 | 100 | 75 | 2.0 | 2 | 10 | 75 | 125 | | | | 600M | 4 |
| D101A | * | SIP | 30 | 150 | 100 | 75 | 1.0 | 1 | 10 | 75 | 125 | | | | 600M | 4 |
| D102 | * | SIP | 30 | 150 | 100 | 50 | 2.0 | 2 | 10 | 50 | 125 | | | | 600M | 4 |
| D102A | * | SIP | 30 | 150 | 100 | 50 | 1.0 | 1 | 10 | 50 | 125 | | | | 600M | 4 |
| KD102A | * | SI | 100 | 120 | 2A | 250 | 1.2 | 50 | 100n | 250 | 25 | | | | | 1A |
| D103 | * | SIP | 30 | 150 | 100 | 30 | 2.0 | 2 | 30 | 30 | 125 | | | | 100M | 4 |
| D103A | * | SIP | 30 | 150 | 100 | 30 | 1.0 | 1 | 30 | 30 | 125 | | | | 100M | 4 |
| KD103A | * | SIA | 100 | 100 | 2A | 50 | 1.0 | 50 | 50 | 50 | 100 | 4.0 | 50 | 20 | | 1A |
| KD103B | * | SIA | 100 | 100 | 2A | 50 | 1.2 | 50 | 50 | 50 | 100 | 4.0 | 50 | 20 | | 1A |
| D104 | * | SIP | 30 | 150 | 100 | 100 | 2.0 | 2 | 150 | 100 | 100 | | | | 100M | 2 |
| D104A | * | SIP | 30 | 150 | 100 | 100 | 1.0 | 1 | 150 | 100 | 100 | | | | 100M | 2 |
| D105 | * | SIP | 30 | 150 | 100 | 75 | 2.0 | 2 | 100 | 75 | 100 | | | | 100M | 2 |
| D105A | * | SIP | 30 | 150 | 100 | 75 | 1.0 | 1 | 100 | 75 | 100 | | | | 100M | 2 |
| KD105A | | SIA | 300 | | | 200 | 1.0 | 300 | 300 | 150 | 85 | | | | | 7A |
| KD105B | | SIA | 300 | | | 400 | 1.0 | 300 | 300 | 300 | 85 | | | | | 7A |
| KD105V | | SIA | 300 | | | 600 | 1.0 | 300 | 300 | 450 | 85 | | | | | 7A |
| D106 | * | SIP | 30 | 150 | 100 | 30 | 2.0 | 2 | 30 | 30 | 25 | | | | 100M | 2 |
| D106A | * | SIP | 30 | 150 | 100 | 30 | 1.0 | 1 | 30 | 30 | 25 | | | | 100M | 2 |
| D107 | | SIP | 10 | 125 | | 10 | 1.0 | 10 | <1 | 10 | 50 | | | | | 2 |
| D107A | | SIP | 10 | 125 | | 10 | 1.0 | 10 | 10 | 10 | 125 | | | | | 2 |
| D108 | | SIP | 10 | 125 | | 30 | 1.0 | 10 | 35 | 30 | 25 | | | | | 2 |
| D109 | | SIP | 10 | 125 | | 50 | 1.0 | 10 | 20 | 30 | 25 | | | | | 2 |
| D201A | | SI | 200 | 125 | | 25 | 1.5 | | 500 | 25 | | | | | 100k | 13 |
| D201B | | SI | 200 | 125 | | 50 | 1.5 | | 500 | 50 | | | | | 100k | 13 |
| D201D | | SI | 400 | 125 | | 100 | 2.0 | | 500 | 100 | | | | | 100k | 13 |
| D201G | | SI | 200 | 125 | | 100 | 1.5 | | 500 | 100 | | | | | 100k | 13 |
| D201TS | | SI | 400 | 125 | | 200 | 2.0 | | 500 | 200 | | | | | 100k | 13 |
| D201V | | SI | 400 | 125 | | 50 | 2.0 | | 500 | 50 | | | | | 100k | 13 |
| D201YE | | SI | 200 | 125 | | 200 | 2.0 | | 500 | 200 | | | | | 100k | 13 |
| D201ZH | | SI | 400 | 125 | | 200 | 2.0 | 400 | 500 | 200 | | | | | 100k | 13 |
| D202 | * | SIA | 400 | 125 | | 100 | 1.0 | 400 | 500 | 100 | 85 | | | | 100k | 13 |
| KD202A | * | SID | 3A | 130 | | 50 | 1.0 | 3A | 1000 | 50 | 120 | | | | | 13 |
| KD202B | * | SID | 1A | 130 | | 50 | 1.0 | 1A | 1000 | 50 | 120 | | | | | 13 |
| KD202D | * | SID | 3A | 120 | | 200 | 1.0 | 3000 | 1000 | 200 | 120 | | | | 100k | 13 |
| KD202G | * | SID | 1A | 120 | | 100 | 1.0 | 1000 | 1000 | 100 | 120 | | | | 100k | 13 |
| KD202I | * | SID | 1A | 120 | | 300 | 1.0 | 1000 | 1000 | 300 | 120 | | | | 100k | 13 |
| KD202K | * | SID | 3A | 120 | | 400 | 1.0 | 3000 | 1000 | 400 | 120 | | | | 100k | 13 |
| KD202L | * | SID | 1A | 120 | | 400 | 1.0 | 1000 | 1000 | 400 | 120 | | | | 100k | 13 |
| KD202M | * | SID | 3A | 120 | | 500 | 1.0 | 3000 | 1000 | 500 | 120 | | | | 100k | 13 |
| KD202N | * | SID | 1A | 120 | | 500 | 1.0 | 1000 | 1000 | 500 | 120 | | | | 100k | 13 |
| KD202R | * | SID | 3A | 120 | | 600 | 1.0 | 3000 | 1000 | 600 | 120 | | | | 100k | 13 |
| KD202S | * | SID | 1A | 120 | | 600 | 1.0 | 1000 | 1000 | 600 | 120 | | | | 100k | 13 |
| KD202V | * | SID | 3A | 120 | | 100 | 1.0 | 3000 | 1000 | 100 | 120 | | | | 100k | 13 |
| KD202YE | * | SID | 1A | 120 | | 200 | 1.0 | 1000 | 1000 | 200 | 120 | | | | 100k | 13 |
| KD202ZH | * | SID | 3A | 120 | | 300 | 1.0 | 3000 | 1000 | 300 | 120 | | | | 100k | 13 |
| D203 | * | SIA | 400 | 125 | | 200 | 1.0 | 400 | 500 | 200 | 85 | | | | 100k | 13 |
| D204 | * | SIA | 400 | 125 | | 300 | 1.0 | 400 | 500 | 300 | 85 | | | | 100k | 13 |
| D205 | * | SIA | 400 | 125 | | 400 | 1.0 | 400 | 500 | 400 | 85 | | | | 100k | 13 |
| D206 | * | SIA | 100 | 100 | | 100 | 1.0 | 100 | 100 | 100 | 100 | | | | 100k | 10 |
| D207 | * | SIA | 100 | 100 | | 200 | 1.0 | 100 | 100 | 200 | 100 | | | | 100k | 10 |
| D208 | * | SIA | 100 | 100 | | 300 | 1.0 | 100 | 100 | 300 | 100 | | | | 100k | 10 |
| D209 | * | SIA | 100 | 100 | | 400 | 1.0 | 100 | 100 | 400 | 100 | | | | 100k | 10 |

| Type No. | | Type | Maximum | | | Maximum @ 25 °C | | | Maximum | | | Recovery | | | $f_{Max}$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $I_F$ @ 25 mA | $T_{Opr}$ °C | $I_S$ @ 25 °C mA | PIV V | $E_F$ @ $I_F$ *Min $E_F$ V | mA | $I_R$ @ $E_r$ @ T $\mu$A | V | °C | $\tau$ @ $I_F$ $\mu$s | mA | $E_R$ V | MHz | |
| D210 | * | SIA | 100 | 100 | | 500 | 1.0 | 100 | 100 | 500 | 100 | | | | 100k | 10 |
| D211 | * | SIA | 100 | 100 | | 600 | 1.0 | 100 | 100 | 600 | 100 | | | | 100k | 10 |
| D214 | | SIA | 5A | 125 | | 100 | 1.0 | 5A | 3000 | 100 | 125 | | | | | 14 |
| D214A | | SIA | 10A | 125 | | 100 | 1.0 | 10A | 3000 | 100 | 125 | | | | | 14 |
| D214B | | SIA | 2A | 125 | | 100 | 1.0 | 2000 | 3000 | 100 | 20 | | | | 1k | 14 |
| D215 | | SIA | 5A | 125 | | 200 | 1.0 | 5A | 3000 | 200 | 125 | | | | | 14 |
| D215A | | SIA | 10A | 125 | | 200 | 1.0 | 10A | 3000 | 200 | 125 | | | | | 14 |
| D215B | | SIA | 2A | 125 | | 200 | 1.0 | 2000 | 3000 | 200 | 20 | | | | 1k | 14 |
| D217 | * | SIA | 100 | 100 | | 800 | 1.0 | 100 | 50 | 800 | 20 | | | | 1k | 9 |
| D218 | * | SIA | 100 | 100 | | 1000 | 1.0 | 100 | 50 | 1000 | 20 | | | | 1k | 9 |
| D219A | * | SIA | 50 | 100 | 500 | 70 | 1.0 | 50 | 30 | 70 | 100 | 0.5 | 30 | 30 | | 2 |
| D219S | * | SI | 50 | 120 | 500 | | 1.0 | 50 | 1 | | | | | | | 2 |
| D220 | * | SIA | 50 | 100 | 500 | 50 | 1.5 | 50 | 20 | 50 | 100 | 0.5 | 30 | 30 | | 2 |
| D220A | * | SIA | 50 | 100 | 500 | 70 | 1.5 | 50 | 30 | 70 | 100 | 0.5 | 30 | 30 | | 2 |
| D220B | * | SIA | 50 | 100 | 500 | 100 | 1.5 | 50 | 40 | 100 | 100 | 0.5 | 30 | 30 | | 2 |
| D221 | | SIA | 400 | 125 | | 400 | 1.0 | 400 | 500 | 400 | 125 | | | | 3k | 13 |
| D222 | | SIA | 400 | 125 | | 600 | 1.0 | 400 | 500 | 600 | 125 | | | | 3k | 13 |
| D223 | * | SIA | 50 | 125 | 500 | 50 | 1.0 | 50 | 50 | 50 | 100 | | | | 30k | 2 |
| D223A | * | SIA | 50 | 125 | 500 | 100 | 1.0 | 50 | 50 | 100 | 100 | | | | 20k | 2 |
| D223B | * | SIA | 50 | 125 | 500 | 150 | 1.0 | 50 | 50 | 150 | 100 | | | | 20k | 2 |
| D224 | | SIA | 5A | 125 | | 50 | 1.0 | 5000 | 3000 | 50 | 20 | | | | | 14 |
| D224A | | SIA | 10A | 125 | | 50 | 1.0 | 10A | 3000 | 50 | 20 | | | | | 14 |
| D224B | | SIA | 2A | 125 | | 50 | 1.0 | 2000 | 3000 | 50 | 20 | | | | | 14 |
| D225 | | SIA | 30 | 125 | | 5 | 1.0 | 30 | | 5 | 20 | | | | | 8 |
| D226 | | SIA | 300 | 125 | | 400 | 1.0 | 300 | 30 | 400 | 20 | | | | | 9 |
| D226A | | SIA | 300 | 125 | | 300 | 1.0 | 300 | 30 | 300 | 20 | | | | | 9 |
| D226B | * | SIA | 300 | 80 | | 400 | 1.0 | 300 | 300 | 400 | 80 | | | | | 9 |
| D226D | * | SIA | 300 | 80 | | 100 | 1.0 | 300 | 300 | 100 | 80 | | | | | 9 |
| D226G | * | SIA | 300 | 80 | | 200 | 1.0 | 300 | 300 | 200 | 80 | | | | | 9 |
| D226V | * | SIA | 300 | 80 | | 300 | 1.0 | 300 | 300 | 300 | 80 | | | | | 9 |
| D226YE | | SIA | 300 | 125 | | 400 | 1.0 | 300 | 300 | 400 | 80 | | | | | 9 |
| D229A | | SIA | 400 | 125 | | 200 | 1.0 | 400 | 50 | 200 | 20 | | | | | 3 |
| D229B | | SIA | 400 | 125 | | 400 | 1.0 | 400 | 50 | 400 | 20 | | | | | 3 |
| D229D | | SIA | 400 | 85 | | 300 | 1.0 | 400 | 500 | 300 | 85 | | | | | 13 |
| D229E | | SIA | 400 | 85 | | 400 | 1.0 | 400 | 500 | 400 | 85 | | | | | 13 |
| D229G | | SIA | 400 | 85 | | 200 | 1.0 | 400 | 500 | 200 | 85 | | | | | 13 |
| D229V | | SIA | 400 | 85 | | 100 | 1.0 | 400 | 500 | 100 | 85 | | | | | 13 |
| D230A | | SIA | 300 | 125 | | 200 | 1.0 | 300 | 50 | 200 | 20 | | | | | 9 |
| D230B | | SIA | 300 | 125 | | 400 | 1.0 | 300 | 50 | 400 | 20 | | | | | 9 |
| D231,P | | SIA | 10A | 130 | | 300 | 1.0 | 10A | 3000 | 300 | 130 | | | | | 14 |
| D231A,P | | SIA | 10A | 130 | | 300 | 1.0 | 10A | 3000 | 300 | 130 | | | | | 14 |
| D232,P | | SIA | 10A | 130 | | 400 | 1.0 | 10A | 3000 | 400 | 130 | | | | | 14 |
| D232A,P | | SIA | 10A | 130 | | 400 | 1.0 | 10A | 3000 | 400 | 130 | | | | | 14 |
| D232B,P | | SIA | 10A | 130 | | 400 | 1.0 | 10A | 3000 | 400 | 130 | | | | | 14 |
| D233,P | | SIA | 10A | 130 | | 500 | 1.0 | 10A | 3000 | 500 | 130 | | | | | 14 |
| D233A | | SIA | 10A | 125 | | 500 | 1.5 | 10A | 3000 | 500 | 20 | | | | | 14 |
| D233B,P | | SIA | 10A | 130 | | 500 | 1.0 | 10A | 3000 | 500 | 130 | | | | | 14 |
| D234B,P | | SIA | 10A | 130 | | 600 | 1.0 | 10A | 3000 | 600 | 130 | | | | | 14 |
| D242,P | * | SI | 10A | 130 | | 100 | 1.25 | 10A | 3m | 100 | 120 | | | | 1k | 14 |
| D242A,P | * | SI | 10A | 130 | | 100 | 1.0 | 10A | 3m | 100 | 120 | | | | 1k | 14 |
| D242B,P | * | SI | 5A | 130 | | 100 | 1.5 | 5A | 3m | 100 | 120 | | | | 1k | 14 |
| D243,P | * | SI | 10A | 130 | | 200 | 1.25 | 10A | 3m | 200 | 120 | | | | 1k | 14 |
| D243A,P | * | SI | 10A | 130 | | 200 | 1.0 | 10A | 3m | 200 | 120 | | | | 1k | 14 |
| D243B,P | * | SI | 5A | 130 | | 200 | 1.5 | 5A | 3m | 200 | 120 | | | | 1k | 14 |
| D244,P | * | SI | 10A | 130 | | 50 | 1.25 | 10A | 3m | 50 | 120 | | | | 1k | 14 |

| Type No. | | Type | Maximum | | | Maximum @ 25 °C | | | Maximum | | | Recovery | | | $f_{Max}$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $I_F$ @ 25 mA | $T_{Opr}$ °C | $I_S$ @ 25 °C mA | PIV V | $E_F$ @ $I_F$ *Min $E_F$ V | mA | $I_R$ @ $E_r$ @ T µA | V | °C | $\tau$ @ $I_F$ µs | mA | $E_R$ V | MHz | |
| D244A,P* | | SI | 10A | 130 | | 50 | 1.0 | 10A | 3m | 50 | 120 | | | | 1k | 14 |
| D244B,P* | | SI | 5A | 130 | | 50 | 1.5 | 5A | 3m | 50 | 120 | | | | 1k | 14 |
| D245 | * | SI | 10A | 130 | | 300 | 1.25 | 10A | 3m | 300 | 120 | | | | 1k | 14 |
| D245A | * | SI | 10A | 130 | | 300 | 1.0 | 10A | 3m | 300 | 120 | | | | 1k | 14 |
| D245B | * | SI | 5A | 130 | | 300 | 1.5 | 5A | 3m | 300 | 120 | | | | 1k | 14 |
| D246 | * | SI | 10A | 130 | | 400 | 1.25 | 10A | 3m | 400 | 120 | | | | 1k | 14 |
| D246A | * | SI | 10A | 130 | | 400 | 1.0 | 10A | 3m | 400 | 120 | | | | 1k | 14 |
| D246B | * | SI | 5A | 130 | | 400 | 1.5 | 5A | 3m | 400 | 120 | | | | 1k | 14 |
| D247 | * | SI | 10A | 130 | | 500 | 1.25 | 10A | 3m | 500 | 120 | | | | 1k | 14 |
| D247B | * | SI | 5A | 130 | | 500 | 1.5 | 5A | 3m | 500 | 120 | | | | 1k | 14 |
| D248B | * | SI | 5A | 130 | | 600 | 1.5 | 5A | 3m | 600 | 120 | | | | 1k | 14 |
| D302 | * | GEA | 1A | 70 | | 200 | 0.3 | 1A | 800 | 200 | 20 | | | | 50k | 16 |
| D302A | * | GEA | 1A | 55 | | 200 | 0.3 | 1A | 1200 | 200 | 20 | | | | 50k | 16 |
| D303 | * | GEA | 3A | 70 | | 150 | 0.35 | 3A | 1000 | 150 | 20 | | | | 50k | 16 |
| D303A | * | GEA | 3A | | | 150 | 0.35 | 3A | 1200 | 150 | 20 | | | | | 16 |
| D304 | * | GEA | 5A | 70 | | 100 | 0.3 | 5A | 2000 | 100 | 20 | | | | 50k | 16 |
| D305 | * | GEA | 10A | 70 | | 50 | 0.35 | 10A | 2500 | 50 | 20 | | | | 50k | 16 |
| D310 | * | GEA | 500 | 70 | 800 | 20 | 0.5 | 500 | 100 | 20 | 70 | 0.3 | 500 | 20 | | 7 |
| D311 | * | GE | 40 | 70 | 500 | 30 | 0.4 | 10 | 100 | 30 | 25 | 0.05 | 50 | 10 | | 2 |
| D311A | * | GE | 80 | 70 | 600 | 30 | 0.4 | 10 | 100 | 30 | 25 | 0.05 | 50 | 10 | | 2 |
| D311B | * | GE | 20 | 60 | 250 | 30 | 0.5 | 10 | 100 | 30 | 25 | 0.05 | 50 | 10 | | 2 |
| D312 | * | GEM | 50 | 70 | 500 | 100 | 0.5 | 10 | 100 | 100 | 20 | 0.5 | 50 | 10 | | 2 |
| D312A | * | GEM | 50 | 70 | 500 | 75 | 0.5 | 10 | 100 | 75 | 20 | 0.5 | 50 | 10 | | 2 |
| D312B | * | GEM | 50 | 70 | 500 | 100 | 0.5 | 10 | 100 | 100 | 25 | 0.7 | 50 | 10 | | 2 |
| KD401A | * | SI | 92 | 100 | | 75 | | | | | | | | | | 2 |
| KD401B | * | SI | 92 | 100 | | 75 | | | | | | | | | | 2 |
| KTS401A | * | SI | 500 | 70 | 5A | 500 | 2.5 | 400 | 100 | 500 | 25 | | | | | 21 |
| KTS401B | * | SI | 500 | 70 | 5A | 500 | 2.5 | 400 | 100 | 500 | 25 | | | | | 22 |
| KTS401V | * | SI | 500 | 60 | | 400 | 2.5 | 500 | 100 | 400 | 25 | | | | | 22A |
| GD402A | * | GE | 25 | 60 | | 15 | 0.5 | 25 | 100 | 15 | 25 | | | | 100M | 2 |
| GD402B | * | GE | 25 | 60 | | 15 | 0.5 | 25 | 100 | 15 | 25 | | | | 100M | 2 |
| GD403A | * | GE | 5 | 55 | | 5 | | | | | | | | | | 2 |
| GD403B | * | GE | 5 | 55 | | 5 | | | | | | | | | | 2 |
| GD403V | * | GE | 5 | 55 | | 5 | | | | | | | | | | 2 |
| KD503A | * | SIM | 20 | 100 | 200 | 30 | 1.0 | 10 | 4 | 30 | 30 | 0.01 | 10 | 10 | | 1 |
| KD503B | * | SIM | 20 | 100 | 200 | 30 | 1.2 | 10 | 4 | 30 | 30 | 0.01 | 10 | 10 | | 1 |
| KD504A | * | SI | 80 | 100 | | 40 | | | | | | | | | | 2 |
| GD507A | * | GE | 16 | 60 | 100 | 20 | 0.5 | 16 | 50 | 20 | 25 | 0.1 | 20 | 10 | | 2 |
| KD512A | * | SI | 20 | 100 | 200 | 15 | 1.0 | 10 | 100 | 15 | 100 | 1.0 | 10 | 10 | | 1 |
| KD513A | * | SI | 100 | 85 | 15H | 50 | 1.1 | 100 | 100 | 50 | 85 | 4.0 | 10 | 10 | | 33A |
| D1001 | | GE | 100 | 80 | | 2000 | 6.5 | 100 | 150 | 2000 | | | | | 100k | 17 |
| D1001A | | GE | 100 | 80 | | 1000 | 3.5 | 100 | 150 | 1000 | | | | | 100k | 17 |
| D1002 | | GE | 300 | 80 | | 2000 | 7.5 | 300 | 300 | 2000 | | | | | 100k | 17 |
| D1002A | | GE | 300 | 80 | | 1000 | 4.0 | 300 | 300 | 1000 | | | | | 100k | 17 |
| D1003A | | GE | 300 | 80 | | 500 | 2.0 | 300 | 300 | 500 | | | | | 100k | 17 |
| D1004 | * | SIA | 100 | 100 | | 2000 | 6.0 | 100 | 100 | 2000 | 20 | | | | | 20A |
| D1005A | * | SIA | 50 | 100 | | 4000 | 6.0 | 100 | 100 | 4000 | 20 | | | | | 20A |
| D1005B | * | SIA | 100 | 100 | | 4000 | 11.0 | 100 | 100 | 4000 | 20 | | | | | 20B |
| D1006 | * | SIA | 100 | 100 | | 6000 | 11.0 | 100 | 100 | 6000 | 20 | | | | | 20B |
| D1007 | * | SIA | 75 | 100 | | 8000 | 11.0 | 100 | 100 | 8000 | 20 | | | | | 20B |
| D1008 | * | SIA | 50 | 100 | | 10k | 11.0 | 100 | 100 | 10k | 20 | | | | | 20B |
| D1009 | * | SIA | 100 | 125 | | 2000 | 4.2 | 100 | 100 | 2000 | 20 | | | | | 18A |
| D1009A | * | SIA | 100 | 125 | | 1000 | 3.0 | 100 | 100 | 1000 | 20 | | | | | 19A |
| D1010 | * | SIA | 300 | 125 | | 2000 | 8.0 | 100 | 100 | 2000 | 20 | | | | | 18B |
| D1010A | * | SIA | 300 | 125 | | 1000 | 5.0 | 100 | 100 | 1000 | 20 | | | | | 19C |

## Group XI – DIODES – RECTIFIERS – Continued

| Type No. | | Type | Maximum | | | Maximum @ 25 °C | | | Maximum | | | Recovery | | | $f_{Max}$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $I_F$ @ 25 mA | $T_{OPR}$ °C | $I_S$ @ 25 °C mA | PIV V | $E_F$ @ $I_F$ *Min $E_F$ V | $I_F$ mA | $I_R$ @ $E_r$ @ T $\mu$A | V | °C | $\tau$ @ $I_F$ $\mu$s | mA | $E_R$ V | MHz | |
| D1011A | * | SIA | 300 | 125 | | 500 | 2.5 | 100 | 100 | 500 | 20 | | | | | 19B |
| D1602A | | GE | 300 | 70 | | 200 | 1.0 | 300 | 1 | 200 | | | | | | |
| D1602B | | GE | 300 | 70 | | 300 | 1.0 | 300 | 1 | 300 | | | | | | |
| D1602V | | GE | 300 | 70 | | 400 | 1.0 | 300 | 1 | 400 | | | | | | |
| DG-TS1 | | GEP | 16 | 70 | 100 | 50 | *1.0 | 2 | 1000 | 50 | 20 | | | | | 6 |
| DG-TS2 | | GEP | 16 | 70 | 100 | 75 | *1.0 | 4 | 500 | 50 | 20 | | | | | 6 |
| DG-TS3 | | GEP | 25 | | | 50 | 1.0 | 2 | 100 | 50 | 20 | | | | | 6 |
| DG-TS4 | | GEP | 16 | 70 | 100 | 100 | *1.0 | 2 | 800 | 75 | 20 | | | | | 6 |
| DG-TS5 | | GEP | 16 | 70 | 100 | 100 | *1.0 | 1 | 250 | 75 | 20 | | | | | 6 |
| DG-TS6 | | GEP | 16 | 70 | 100 | 125 | *1.0 | 1 | 800 | 100 | 20 | | | | | 6 |
| DG-TS7 | | GEP | 16 | 70 | 100 | 125 | *1.0 | 1 | 250 | 100 | 20 | | | | | 6 |
| DG-TS8 | | GEP | 25 | 70 | 100 | 50 | *1.0 | 10 | 500 | 30 | 20 | | | | | 6 |
| DG-TS9 | | GEP | 50 | 70 | 100 | 45 | *1.0 | 10 | 100 | 10 | 20 | | | | | 6 |
| DGTS10 | | GEP | 50 | 70 | 100 | 45 | *1.0 | 5 | 60 | 10 | 20 | 150 | | | | 6 |
| DGTS12 | | GEP | 16 | 70 | | 30 | 1.0 | | | | | 150 | | | | 6 |
| DGTS13 | | GEP | 16 | 70 | | 30 | 1.0 | | | | | | | | | 6 |
| DGTS14 | | GEP | 16 | 70 | | 50 | 1.0 | | | | | | | | | 6 |
| DGTS15 | | GEP | 50 | 70 | | 150 | 1.0 | 1 | 800 | 150 | 20 | | | | | 6 |
| DGTS16 | | GEP | 50 | 70 | | 150 | 1.0 | 1 | 250 | 150 | 20 | | | | | 6 |
| DGTS17 | | GEP | 50 | 70 | | 200 | *1.0 | 1 | 800 | 200 | 20 | | | | | 6 |
| DGTS21 | | GEA | 300 | 70 | | 50 | 0.5 | 300 | 300 | 50 | 20 | | | | 50 k | 3 |
| DGTS22 | | GEA | 300 | 70 | | 100 | 0.5 | 300 | 300 | 100 | 20 | | | | 50 k | 3 |
| DGTS23 | | GEA | 300 | 70 | | 150 | 0.5 | 300 | 300 | 150 | 20 | | | | 50 k | 3 |
| DGTS24 | | GEA | 300 | 70 | | 200 | 0.5 | 300 | 300 | 200 | 20 | | | | 50 k | 3 |
| DGTS25 | | GEA | 100 | 70 | | 300 | 0.3 | 100 | 300 | 300 | 20 | | | | 50 k | 3 |
| DGTS26 | | GEA | 100 | 70 | | 350 | 0.3 | 100 | 300 | 350 | 20 | | | | 50 k | 3 |
| DGTS27 | | GEA | 100 | 70 | | 400 | 0.3 | 100 | 300 | 400 | 20 | | | | 50 k | 3 |

## Group XI-A – DIODES – SWITCHING

| Type No. | Kind | Type | Switch range | | Maximum current | | | | Switch time | | Capacity | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Min | Max | Switch | | $I_F$ | Leakage | Off | On | | |
| | | | | | Off mA | On mA | mA | $\mu$A | $\mu$s | $\mu$s | pF | |
| D227-A | SWI | SI4 | 10 | 20 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227-B | SWI | SI4 | 14 | 28 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227-D | SWI | SI4 | 40 | 80 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227-G | SWI | SI4 | 28 | 56 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227-I | SWI | SI4 | 100 | 200 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227-V | SWI | SI4 | 20 | 40 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227YE | SWI | S14 | 56 | 112 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D227-ZH | SWI | SI4 | 80 | 160 | 15 | 5 | 200 | 100 | 10 | 0.5 | 100 | 13 |
| D228-A | SWI | SI4 | 10 | 20 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228-B | SWI | SI4 | 14 | 28 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228-D | SWI | SI4 | 40 | 80 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228-G | SWI | SI4 | 28 | 56 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228-I | SWI | SI4 | 100 | 200 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228-V | SWI | SI4 | 20 | 40 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228YE | SWI | S14 | 56 | 112 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |
| D228-ZH | SWI | SI4 | 80 | 160 | 15 | 1 | 50 | 60 | 5 | 0.1 | 80 | 9 |

## Group XI-B – DIODES – TUNNEL

| Type No. | | Kind | Type | Maximum | | Min | $V_{FM}$ | | Cap | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $I_p$ mA | $I_p/I_V$ | $V_p$ mV | Min mV | Max mV | pF | |
| AI-101A | * | TUN | GAS | 1 | 5 | 160 | | | 4 | 23B |
| AI-101B | * | TUN | GAS | 1 | 5 | 160 | | | 6 | 23B |
| AI-101D | * | TUN | GAS | 2 | 6 | 160 | | | 6 | 23B |
| AI-101G | * | TUN | GAS | 2 | 6 | 160 | | | 4 | 23B |
| AI-101I | * | TUN | GAS | 5 | 6 | 180 | | | 10 | 23B |
| AI-101V | * | TUN | GAS | 2 | 6 | 160 | | | 5 | 23B |
| AI-101YE | * | TUN | GAS | 5 | 6 | 180 | | | 8 | 23B |
| AI-101ZH | * | TUN | GAS | 5 | 6 | 180 | | | 6 | 23B |
| AI-201A | * | TUN | GAS | 10 | 10 | 200 | | | 4 | 23B |
| AI-201B | * | TUN | GAS | 10 | 10 | 180 | | | 6 | 23B |
| AI-201D | * | TUN | GAS | 20 | 10 | 200 | | | 7 | 23B |
| AI-201G | * | TUN | GAS | 20 | 10 | 210 | | | 10 | 23B |
| AI-201I | * | TUN | GAS | 50 | 10 | 260 | | | 30 | 23B |
| AI-201K | * | TUN | GAS | H1 | 10 | 330 | | | 20 | 23B |
| AI-201L | * | TUN | GAS | H1 | 10 | 330 | | | 50 | 23B |
| AI-201V | * | TUN | GAS | 10 | 10 | 180 | | | 15 | 23B |
| AI-201YE | * | TUN | GAS | 20 | 10 | 200 | | | 20 | 23B |
| AI-201ZH | * | TUN | GAS | 50 | 10 | 260 | | | 15 | 23B |
| 1I-302A | | TUN | GE | 2.3 | 4.5 | 60 | | 400 | 80 | 23A |
| 1I-302B | | TUN | GE | 5.8 | 4.5 | 60 | | 400 | 150 | 23A |
| 1I-302G | | TUN | GE | 17 | 4.5 | 60 | | 400 | 200 | 23A |
| 1I-302V | | TUN | GE | 11.5 | 4.5 | 60 | | 400 | 180 | 23A |
| AI-301A | * | TUN | GAS | 2 | 8 | 180 | 650 | | 12 | 23B |
| AI-301B | * | TUN | GAS | 5 | 8 | 180 | 850 | 1150 | 25 | 23B |
| AI-301G | * | TUN | GAS | 10 | 8 | 180 | 800 | | 50 | 23B |
| AI-301V | * | TUN | GAS | 5 | 8 | 180 | 1000 | 1300 | 25 | 23B |
| GI304A | * | TUN | GE | 4.8 | 5 | 75 | 440 | | 20 | 23A |
| GI304B | * | TUN | GE | 5.2 | 5 | 75 | 440 | | 20 | 23A |
| GI305A | * | TUN | GE | 9.6 | 5 | 85 | 450 | | 30 | 23A |
| GI305B | * | TUN | GE | 10.4 | 5 | 85 | 450 | | 30 | 23A |

## Group XI-C – DIODES – SWITCH CONTROL

| Type No. | Kind | Type | Voltage | | Maximum currents | | | | Power | | Time max | | Temp | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Switch max V | Res min V | Cont max mA | Switch off mA | On A | Leak mA | Max W | $K_\theta$ mW/°C | Off $\mu$s | On $\mu$s | Min (−)°C | Max (+)°C | |
| D235A | CON | SI | 40 | 2 | 20 | 100 | 2 | 1 | 4 | 120 | 5 | 35 | 60 | 125 | 15 |
| D235B | CON | SI | 100 | 2 | 20 | 100 | 2 | 1 | 4 | 120 | 5 | 35 | 60 | 125 | 15 |
| D235G | CON | SI | 100 | 2 | 20 | 100 | 2 | 1 | 4 | 120 | 5 | 35 | 60 | 125 | 15 |
| D235V | CON | SI | 40 | 2 | 20 | 100 | 2 | 1 | 4 | 120 | 5 | 35 | 60 | 125 | 15 |
| D238A | CON | SI | 50 | 2 | | | 10 | | 20 | 330 | 10 | 35 | 50 | 100 | 33 |
| D238B | CON | SI | 100 | 2 | | | 10 | | 20 | 330 | 10 | 35 | 50 | 100 | 33 |
| D238D | CON | SI | 100 | 2 | | | 10 | | 20 | 330 | 10 | 35 | 50 | 100 | 33 |
| D238G | CON | SI | 50 | 2 | | | 10 | | 20 | 330 | 10 | 35 | 50 | 100 | 33 |
| D238V | CON | SI | 150 | 2 | | | 10 | | 20 | 330 | 10 | 35 | 50 | 100 | 33 |
| D238YE | CON | SI | 150 | 2 | | | 10 | | 20 | 330 | 10 | 35 | 50 | 100 | 33 |

## Group XI-D – DIODES – VARACTORS

| Type No. | | Kind | Type | Maximum Volts V | Maximum $I_R$ μA | Capacity @ 4V Min pF | Capacity @ 4V Max pF | TC | Exp (–) | Q | Power max mW | Temp Min (–)°C | Temp Max (+)°C | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KV102A | * | VAR | SI | 45 | 1 | 14 | 23 | 3 | 4 | 40 | 90 | 40 | 85 | 1A |
| KV102B | * | VAR | SI | 45 | 1 | 19 | 30 | 3 | 4 | 40 | 90 | 40 | 85 | 1A |
| KV102D | * | VAR | SI | 80 | 1 | 19 | 30 | 4 | 4 | 40 | 90 | 40 | 85 | 1A |
| KV102G | * | VAR | SI | 45 | 1 | 19 | 30 | 3 | 4 | 100 | 90 | 40 | 85 | 1A |
| KV102V | * | VAR | SI | 45 | 1 | 25 | 40 | 3 | 4 | 40 | 90 | 40 | 85 | 1A |
| KV104A | * | VAR | SI | 45 | 5 | 90 | 120 | 3 | 4 | 100 | 100 | 40 | 85 | 1A |
| KV104B | * | VAR | SI | 45 | 5 | 106 | 144 | 3 | 4 | 100 | 100 | 40 | 85 | 1A |
| KV104D | * | VAR | SI | 80 | 5 | 128 | 192 | 4 | 4 | 100 | 100 | 40 | 85 | 1A |
| KV104G | * | VAR | SI | 80 | 5 | 95 | 143 | 4 | 4 | 100 | 100 | 40 | 85 | 1A |
| KV104V | * | VAR | SI | 45 | 5 | 128 | 192 | 3 | 4 | 100 | 100 | 40 | 85 | 1A |
| KV104YE | * | VAR | SI | 45 | 5 | 95 | 143 | 3 | 4 | 150 | 100 | 40 | 85 | 1A |
| KV105A | * | VAR | SI | 90 | 50 | 400 | 600 | 4 | 4 | 500 | 150 | 55 | 100 | 9 |
| KV105B | * | VAR | SI | 50 | 50 | 400 | 600 | 3 | 4 | 500 | 150 | 55 | 100 | 9 |
| D901A | * | VAR | SI | 80 | 1 | 22 | 32 | 4 | 4 | 25 | 250 | 55 | 85 | 7 |
| D901B | * | VAR | SI | 45 | 1 | 22 | 32 | 3 | 4 | 30 | 250 | 55 | 85 | 7 |
| D901D | * | VAR | SI | 80 | 1 | 34 | 44 | 4 | 4 | 25 | 250 | 55 | 85 | 7 |
| D901G | * | VAR | SI | 45 | 1 | 28 | 38 | 3 | 4 | 30 | 250 | 55 | 85 | 7 |
| D901V | * | VAR | SI | 80 | 1 | 28 | 38 | 4 | 4 | 25 | 250 | 55 | 85 | 7 |
| D901YE | * | VAR | SI | 45 | 1 | 34 | 44 | 3 | 4 | 30 | 250 | 55 | 85 | 7 |
| D902 | * | VAR | SI | 25 | 10 | 6 | 12 | | | 30 | 250 | | 100 | 2 |

## Group XI-E – MISCELLANEOUS DIODES

| Type No. | | Kind | Type | Current $I_F$ mA | Current $I_S$ mA | Current $I_R$ μA | Voltage $V_F$ V | Voltage $V_R$ V | Max cap pF | Switching Ratio | Switching Damp dB | Switching $t_{rr}$ ns | Power mW | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GI401A | * | BWD | GE | 0.3 | | 40h | 0.33 | <0.1 | 2.5 | | | | | 23C |
| GI401B | * | BWD | GE | 0.5 | | 56h | 0.33 | <0.1 | 5.0 | | | | | 23C |
| AI402B | * | BWD | GAS | 0.1 | | 10h | 0.6 | <0.3 | 4 | | | | | 23B |
| AI402G | * | BWD | GAS | 0.1 | | 10h | 0.6 | <0.3 | 8 | | | | | 23B |
| AI402I | * | BWD | GAS | 0.4 | | 40h | 0.6 | <0.3 | 10 | | | | | 23B |
| AI402YE | * | BWD | GAS | 0.2 | | 20h | 0.6 | <0.3 | 8 | | | | | 23B |
| 1A501A | | PIN | | | | 0.5 | | | 0.1 | 150 | 0.8 | | 100 | |
| 1A501G | | PIN | | | | 0.5 | | | 0.16 | 150 | 0.8 | | 100 | |
| 1A501I | | PIN | | | | 0.5 | | | 0.07 | 150 | 0.8 | | 100 | |
| 1A504A | | PIN | | | | 100 | | | 0.9 | 500 | 0.5 | | 25h | |
| 1A504B | | PIN | | | | 100 | | | 0.9 | 200 | 0.8 | | 25h | |
| KD901A | * | 1DA | SI | 10 | | 0.2 | 0.7 | | 4.0 | | | | | 36 |
| KD901B | * | 2DA | SI | 10 | | 0.2 | 0.7 | | 4.0 | | | | | 36 |
| KD901G | * | 4DA | SI | 10 | | 0.2 | 0.7 | | 4.0 | | | | | 36 |
| KD901V | * | 3DA | SI | 10 | | 0.2 | 0.7 | | 4.0 | | | | | 36 |
| KD902D | * | 1DA | SI | 1.0 | | 0.2 | 0.85 | | 2.0 | | | | | 36 |
| KD902I | * | 4DA | SI | 1.0 | | 0.2 | 0.85 | | 2.0 | | | | | 36 |
| KD902YE | * | 2DA | SI | 1.0 | | 0.2 | 0.85 | | 2.0 | | | | | 36 |
| KD902ZH | * | 3DA | SI | 1.0 | | 0.2 | 0.85 | | 2.0 | | | | | 36 |
| KD903A | * | 8DA | SI | 1.0 | 350 | 0.5 | 1.2 | | 10.0 | | | 150 | | 35 |
| KD903B | * | 8DA | SI | 75 | 350 | 0.5 | 1.2 | | 10.0 | | | 150 | | 35 |
| KD904A | * | 1DA | SI | 1.0 | | 0.2 | 0.8 | | 2.5 | | | | | 36 |
| KD904B | * | 2DA | SI | 1.0 | | 0.2 | 0.8 | | 2.5 | | | | | 36 |
| KD904D | * | 3DA | SI | 1.0 | | 0.2 | 0.8 | | 2.5 | | | | | 36 |
| KD904G | * | 4DA | SI | 1.0 | | 0.2 | 0.8 | | 2.5 | | | | | 36 |
| KD904V | * | 3DA | SI | 1.0 | | 0.2 | 0.8 | | 2.5 | | | | | 36 |
| KD904YE | * | 4DA | SI | 1.0 | | 0.2 | 0.8 | | 2.5 | | | | | 36 |
| KD906 | * | 4DA | SI | 50 | | 1.0 | 1.0 | 75 | | | | | | 34 |
| KD907 | * | DA | SI | 50 | | 6.0 | 1.0 | | 6.0 | | | 6 | | 37 |
| KD909 | * | 8DA | SI | 200 | 800 | | | 40 | 5.0 | | | 50 | | 38 |

## Group XII – DIODES – POWER RECTIFIERS

| Type No. | Kind | Type | Maximum | | | | Maximum $E_R$ in volts available for following subclasses | | | | | | | | | | | | | | | Cooling | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Opr temp °C | $I_f$ Amp | $E_f$ V | $I_r$ mA | 15 | 30 | 45 | 50 | 55 | 70 | 80 | 100 | 110 | 150 | 2N | 3N | 4N | 5N | 6N | 7N | 8N | Kind | Rate | Radiator |
| VG–5 | POW | GE | 75 | 5 | 0.5 | | | X | | X | | | X | X | | X | X | X | | | | | AN | | |
| VG–5 | POW | GE | 75 | 10 | 0.5 | | | X | | X | | | X | X | | X | | | | | | | AF | 10M | |
| VG–10 | POW | GE | 75 | 10 | 0.5 | | | X | | | | | | | | | | | | | | | AN | | |
| VG–10–30 | POW | GE | 75 | 20 | 0.5 | 10 | | X | | | | | | | | | | | | | | | AF | 10M | |
| VG–10–45 | POW | GE | 75 | 20 | 0.5 | 8 | | | X | | | | | | | | | | | | | | AF | 10M | |
| VG–10–55 | POW | GE | 75 | 20 | 0.5 | 6 | | | | | X | | | | | | | | | | | | AF | 10M | |
| VG–10–80 | POW | GE | 75 | 20 | 0.5 | 5 | | | | | | | X | | | | | | | | | | AF | 10M | |
| VG–10–110 | POW | GE | 75 | 20 | 0.5 | 4 | | | | | | | | | X | | | | | | | | AF | 10M | |
| VG–10–150 | POW | GE | 75 | 20 | 0.5 | 3 | | | | | | | | | | X | | | | | | | AF | 10M | |
| VG–30 | POW | GE | 75 | 30 | 0.5 | | | X | | X | | | X | X | | X | | | | | | | AF | 10M | |
| VG–50 | POW | GE | 75 | 50 | 0.5 | 40 | X | X | | | | | | | | | | | | | | | AF | 10M | |
| VG–50 | POW | GE | 75 | 50 | 0.5 | 30 | | | X | | X | | | | | | | | | | | | AF | 10M | |
| VG–50 | POW | GE | 75 | 50 | 0.5 | 20 | | | | | | X | | | X | X | | | | | | | AF | 10M | |
| VG–100 | POW | GE | 75 | 100 | 0.5 | | | X | | X | | | X | X | | X | | | | | | | AF | 10M | |
| VGV200 | POW | GE | 75 | 200 | 0.6 | 100 | X | X | X | X | X | | X | X | | | | | | | | | W | 4L | |
| VGV500 | POW | GE | 75 | 500 | 0.6 | | | X | | X | | | X | X | | | | | | | | | W | 4L | |
| VGV1000 | POW | GE | 75 | 1000 | 0.8 | | | X | | X | | | X | X | | | | | | | | | W | 4L | |
| VK–10 | POW | SI | 200 | 10 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | X | AN | | |
| VK–10 | POW | SI | 200 | 20 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 15M | |
| VK–25 | POW | SI | 200 | 25 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 5M | |
| VK–25 | POW | SI | 200 | 50 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 15M | X |
| VK–50 | POW | SI | 200 | 50 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 5M | |
| VK–50 | POW | SI | 200 | 100 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 15M | X |
| VK–100 | POW | SI | 200 | 100 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 10M | |
| VK–100 | POW | SI | 200 | 150 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | X | | AF | 15M | X |
| VK–200 | POW | SI | 200 | 200 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | | | AF | 15M | X |
| VKV200 | POW | SI | 200 | 200 | 0.9 | | | | | X | | | | X | | X | X | X | X | X | | | W | 4L | X |
| VKV200 | POW | SI | 200 | 500 | 0.9 | | | | | X | | | | X | | X | X | X | | | | | W | 4L | X |
| VKV1000 | POW | SI | 200 | 1000 | 0.9 | | | | | X | | | | X | | X | X | | | | | | W | 4L | X |

## Group XII–A – SILICON CONTROLLED DIODES

| Type No. | Kind | Type | Max forward current | | | | | PIV | Maximum | | | | | $I_R$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | None | Air-cool | | Water-cool | | | Power | | Gate pulse | | | | |
| | | | | With rad | Forced air rad | 2L/m | 5L/m | V | W | Gate W | V | A | Width $\mu$s | mA | |
| VKU–10–0.25 | SCR | SI4 | 1 | 5 | 10 | | | 50 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–0.5 | SCR | SI4 | 1 | 5 | 10 | | | 100 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–0.75 | SCR | SI4 | 1 | 5 | 10 | | | 150 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–1.0 | SCR | SI4 | 1 | 5 | 10 | | | 200 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–1.5 | SCR | SI4 | 1 | 5 | 10 | | | 250 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–2.0 | SCR | SI4 | 1 | 5 | 10 | | | 400 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–2.5 | SCR | SI4 | 1 | 5 | 10 | | | 500 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–10–3.0 | SCR | SI4 | 1 | 5 | 10 | | | 600 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 24 |
| VKU–20–0.25 | SCR | SI4 | 3 | 10 | 20 | | | 50 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–0.5 | SCR | SI4 | 3 | 10 | 20 | | | 100 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–0.75 | SCR | SI4 | 3 | 10 | 20 | | | 150 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–1.0 | SCR | SI4 | 3 | 10 | 20 | | | 200 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–1.5 | SCR | SI4 | 3 | 10 | 20 | | | 250 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–2.0 | SCR | SI4 | 3 | 10 | 20 | | | 400 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–2.5 | SCR | SI4 | 3 | 10 | 20 | | | 500 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–20–3.0 | SCR | SI4 | 3 | 10 | 20 | | | 600 | 20 | 1.25 | 20 | 1.0 | 20 | 20 | 25 |
| VKU–50–0.25 | SCR | SI4 | 15 | 32 | 50 | | | 50 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–0.5 | SCR | SI4 | 15 | 32 | 50 | | | 100 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–0.75 | SCR | SI4 | 15 | 32 | 50 | | | 150 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–1.0 | SCR | SI4 | 15 | 32 | 50 | | | 200 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–1.5 | SCR | SI4 | 15 | 32 | 50 | | | 250 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–2.0 | SCR | SI4 | 15 | 32 | 50 | | | 400 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–2.5 | SCR | SI4 | 15 | 32 | 50 | | | 500 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU–50–3.0 | SCR | SI4 | 15 | 32 | 50 | | | 600 | 30 | 1.87 | 20 | 1.5 | 20 | 20 | 25 |
| VKU100–0.25 | SCR | SI4 | | 22 | 100 | | | 50 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–0.5 | SCR | SI4 | | 22 | 100 | | | 100 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–0.75 | SCR | SI4 | | 22 | 100 | | | 150 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–1.0 | SCR | SI4 | | 22 | 100 | | | 200 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–1.5 | SCR | SI4 | | 22 | 100 | | | 250 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–2.0 | SCR | SI4 | | 22 | 100 | | | 400 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–2.5 | SCR | SI4 | | 22 | 100 | | | 500 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKU100–3.0 | SCR | SI4 | | 22 | 100 | | | 600 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 26 |
| VKUV–100–0.25 | SCR | SI4 | 15 | | | 60 | 100 | 50 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–0.5 | SCR | SI4 | 15 | | | 60 | 100 | 100 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–0.75 | SCR | SI4 | 15 | | | 60 | 100 | 150 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–1.0 | SCR | SI4 | 15 | | | 60 | 100 | 200 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–1.5 | SCR | SI4 | 15 | | | 60 | 100 | 250 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–2.0 | SCR | SI4 | 15 | | | 60 | 100 | 400 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–2.5 | SCR | SI4 | 15 | | | 60 | 100 | 500 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |
| VKUV–100–3.0 | SCR | SI4 | 15 | | | 60 | 100 | 600 | 40 | 2.5 | 20 | 2.0 | 20 | 20 | 27 |

## Group XII-B – SILICON CONTROLLED RECTIFIERS

| Type No. | Kind | Type | Forward | | | | | Reverse | | | Gate | | | | | Switching time | | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $E_F$ V | $I_F$ mA | $I_F$ sat. mA | $I_S$ A | $I_P$ A | $E_R$ V | $I_R$ mA | P mW | $I_{GF}$ max mA | $I_{GF}$ typ mA | $V_{GT}$ max V | P mW | $I_{GR}$ mA | On $\mu$s | Off $\mu$s | $t_{rr}$ $\mu$s | |
| KU101A | *SCR | TRI | 50 | 75 | <1 | 1 | | 10 | | 150 | 15 | <8 | 10 | 500 | | 2 | 35 | | 13 |
| KU101B | *SCR | TRI | 50 | 75 | <1 | 1 | | 50 | | 150 | 15 | <8 | 10 | 500 | | 2 | 35 | | 13 |
| KU101G | *SCR | TRI | 80 | 75 | <1 | 1 | | 80 | | 150 | 15 | <8 | 10 | 500 | | 2 | 35 | | 13 |
| KU101YE | *SCR | TRI | 150 | 75 | <1 | 1 | | 150 | | 150 | 15 | <8 | 10 | 500 | | 2 | 35 | | 13 |
| KU201A | *SCR | TRI | 25 | 2A | 5 | 10 | 30 | | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201B | *SCR | TRI | 25 | 2A | 5 | 10 | 30 | 25 | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201D | *SCR | TRI | 100 | 2A | 5 | 10 | 30 | | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201G | *SCR | TRI | 50 | 2A | 5 | 10 | 30 | 50 | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201I | *SCR | TRI | 200 | 2A | 5 | 10 | 30 | 200 | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201K | *SCR | TRI | 300 | 2A | 5 | 10 | 30 | | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201L | *SCR | TRI | 300 | 2A | 5 | 10 | 30 | 300 | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201V | *SCR | TRI | 50 | 2A | 5 | 10 | 30 | | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201YE | *SCR | TRI | 100 | 2A | 5 | 10 | 30 | 100 | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU201ZH | *SCR | TRI | 200 | 2A | 5 | 10 | 30 | | 5 | 4W | 200 | | | 1W | 5 | 10 | 35 | | 15 |
| KU202A | *SCR | TRI | 25 | 10A | 10 | 30 | 50 | | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202B | *SCR | TRI | 25 | 10A | 10 | 30 | 50 | 25 | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202D | *SCR | TRI | 100 | 10A | 10 | 30 | 50 | | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202G | *SCR | TRI | 50 | 10A | 10 | 30 | 50 | 50 | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202I | *SCR | TRI | 200 | 10A | 10 | 30 | 50 | 200 | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202K | *SCR | TRI | 300 | 10A | 10 | 30 | 50 | | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202L | *SCR | TRI | 300 | 10A | 10 | 30 | 50 | 300 | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202M | *SCR | TRI | 400 | 10A | 10 | 30 | 50 | | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202N | *SCR | TRI | 400 | 10A | 10 | 30 | 50 | 400 | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202V | *SCR | TRI | 50 | 10A | 10 | 30 | 50 | | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202YE | *SCR | TRI | 100 | 10A | 10 | 30 | 50 | 100 | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |
| KU202ZH | *SCR | TRI | 200 | 10A | 10 | 30 | 50 | | | 20W | 300 | 100 | 5 | 15h | 5 | | | | 15 |

| Type No. | | Kind | Type | Maximum | | | Typical | | | Max Z | TC | $K_\theta$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $I_Z$ mA | $T_{Opr}$ C | $P_Z$ mW | $E_Z$ V | $\Delta E_Z$ % | $I_Z$ mA | Ω | %/°C | mW/°C | |
| D6 | | REG | SI | 18 | 150 | 125 | 6.5 | | 5.0 | 10 | .03 | | |
| D7 | | REG | SI | 18 | 150 | 125 | 7.5 | | 5.0 | 10 | .06 | | |
| D8 | | REG | SI | 14 | 150 | 125 | 8.5 | | 5.0 | 10 | .07 | | |
| KS133A | * | REG | SI | 81 | 100 | 300 | 3.3 | 10 | 10.0 | 65 | .1 | | 12 |
| KS139A | * | REG | SI | 70 | 100 | 300 | 3.9 | 10 | 10.0 | 60 | .1 | | 12 |
| KS147A | * | REG | SI | 58 | 100 | 300 | 4.7 | 10 | 10.0 | 56 | .08 | | 12 |
| KS156A | * | REG | SI | 55 | 100 | 300 | 5.6 | 10 | 10.0 | 46 | .05 | | 12 |
| KS168A | * | REG | SI | 45 | 100 | 300 | 6.8 | 10 | 10.0 | 28 | .06 | | 12 |
| KS194A | | REG | SI | | 60 | | 9.4 | 5 | | 18 | .005 | | |
| KS194B | | REG | SI | | 60 | | 9.4 | 5 | | 18 | .003 | | |
| KS194G | | REG | SI | | 60 | | 9.4 | 5 | | 18 | .001 | | |
| KS194V | | REG | SI | | 60 | | 9.4 | 5 | | 18 | .001 | | |
| KS211B | | REG | SI | 33 | 120 | 280 | 11.0 | 20 | 10.0 | 15 | .02 | | 33 |
| KS211D | | REG | SI | 33 | 120 | 280 | 11.0 | 15 | 10.0 | 15 | .005 | | 33 |
| KS211G | | REG | SI | 33 | 120 | 280 | 11.0 | 15 | 10.0 | 15 | .01 | | 33 |
| KS211V | | REG | SI | 33 | 120 | 280 | 11.0 | 20 | 10.0 | 15 | .02 | | 33 |
| KS620A | * | REG | SI | 42 | 100 | 5W | 120 | 10 | 50 | 150 | .2 | | 33 |
| KS630A | * | REG | SI | 38 | 100 | 5W | 130 | 10 | 50 | 180 | .2 | | 33 |
| KS650A | * | REG | SI | 33 | 100 | 5W | 150 | 10 | 25 | 255 | .2 | | 33 |
| KS680A | * | REG | SI | 28 | 100 | 5W | 180 | 10 | 25 | 330 | .2 | | 33 |
| D808 | * | REG | SI | 33 | 125 | 280 | 7.7 | 10 | 5.0 | 6 | .07 | 3 | 8 |
| D809 | * | REG | SI | 29 | 125 | 280 | 8.7 | 10 | 5.0 | 10 | .08 | 3 | 8 |
| D810 | * | REG | SI | 26 | 125 | 280 | 9.7 | 10 | 5.0 | 12 | .09 | 3 | 8 |
| D811 | * | REG | SI | 23 | 125 | 280 | 11.0 | 10 | 5.0 | 15 | .095 | 3 | 8 |
| D813 | * | REG | SI | 20 | 125 | 280 | 12.7 | 10 | 5.0 | 18 | .095 | 3 | 8 |
| D814-A | * | REG | SI | 40 | 125 | 340 | 7.8 | 10 | 5.0 | 6 | .07 | | 8 |
| D814-B | * | REG | SI | 36 | 125 | 340 | 8.8 | 10 | 5.0 | 10 | .08 | | 8 |
| D814-D | * | REG | SI | 24 | 125 | 340 | 12.8 | 10 | 5.0 | 18 | .095 | | 8 |
| D814-G | * | REG | SI | 29 | 125 | 340 | 11.0 | 10 | 5.0 | 15 | .095 | | 8 |
| D814-V | * | REG | SI | 32 | 125 | 340 | 9.8 | 10 | 5.0 | 12 | .09 | | 8 |
| D815A,P | * | REG | SI | 14H | 125 | 8W | 5.6 | 10 | 50.0 | <1 | .056 | | 13 |
| D815B,P | * | REG | SI | 11H | 125 | 8W | 6.8 | 10 | 50.0 | <1 | .062 | | 13 |
| D815D,P | * | REG | SI | 650 | 125 | 8W | 12.0 | 10 | 50.0 | 2 | .11 | | 13 |
| D815G,P | * | REG | SI | 800 | 125 | 8W | 10.0 | 10 | 50.0 | 2 | .10 | | 13 |
| D815I | * | REG | SI | 14H | 125 | 8W | 4.7 | 10 | 50 | <1 | .056 | | 13 |
| D815V,P | * | REG | SI | 950 | 125 | 8W | 8.2 | 10 | 50.0 | 1 | .08 | | 13 |
| D815YE,P | * | REG | SI | 550 | 125 | 8W | 15.0 | 10 | 50.0 | 3 | .13 | | 13 |
| D815ZH,P | * | REG | SI | 450 | 125 | 8W | 18.0 | 10 | 50.0 | 3 | .14 | | 13 |
| D816A,P | * | REG | SI | 230 | 125 | 5W | 22 | 10 | 10.0 | 7 | .12 | | 13 |
| D816B,P | * | REG | SI | 180 | 125 | 5W | 27 | 10 | 10.0 | 8 | .12 | | 13 |
| D816D,P | * | REG | SI | 110 | 125 | 5W | 47 | 10 | 10.0 | 15 | .12 | | 13 |
| D816G,P | * | REG | SI | 130 | 125 | 5W | 39 | 10 | 10.0 | 12 | .12 | | 13 |
| D816V,P | * | REG | SI | 150 | 125 | 5W | 33 | 10 | 10.0 | 10 | .12 | | 13 |
| D817A,P | * | REG | SI | 90 | 125 | 5W | 56 | 10 | 5.0 | 35 | .14 | | 13 |
| D817B,P | * | REG | SI | 75 | 125 | 5W | 68 | 10 | 5.0 | 40 | .14 | | 13 |
| D817G,P | * | REG | SI | 50 | 125 | 5W | 100 | 10 | 5.0 | 50 | .14 | | 13 |
| D817V,P | * | REG | SI | 60 | 125 | 5W | 82 | 10 | 5.0 | 45 | .14 | | 13 |
| D818A | * | REG | SI | 33 | 120 | 300 | 10.1 | 10 | 11.0 | 25 | .02 | 70 | 8 |
| D818B | * | REG | SI | 33 | 120 | 300 | 7.9 | 15 | 11.0 | 25 | .02 | 70 | 8 |
| D818D | * | REG | SI | 33 | 120 | 300 | 9.0 | | 11.0 | 25 | .002 | 70 | 8 |
| D818G | * | REG | SI | 33 | 120 | 300 | 9.0 | | 11.0 | 25 | .005 | 70 | 8 |
| D818V | * | REG | SI | 33 | 120 | 300 | 9.0 | | 11.0 | 25 | .01 | 70 | 8 |
| D818YE | * | REG | SI | 33 | 120 | 300 | 9.0 | | 11.0 | 25 | .001 | 70 | 8 |
| SK1-5.6/1000 | | REG | SI | | 65 | 10W | 5.6 | | 1A | <1 | .045 | | 24 |
| SK1-6.8/1000 | | REG | SI | | 65 | 10W | 6.8 | | 1A | 1 | .05 | | 24 |

| Type No. | Kind | Type | Maximum | | | Typical | | | Max Z | TC | $K_\theta$ | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | $I_Z$ mA | $T_{Opr}$ C | $P_Z$ mW | $E_Z$ V | $\Delta E_Z$ % | $I_Z$ mA | Ω | %/°C | mW/°C | |
| SK1-8.2/1000 | REG | SI | | 65 | 10W | 8.2 | | 1A | 2 | .07 | | 24 |
| SK1-10/500 | REG | SI | | 65 | 10W | 10.0 | | 500 | 2 | .08 | | 24 |
| SK1-12/500 | REG | SI | | 65 | 10W | 12.0 | | 500 | 3 | .09 | | 24 |
| SK1-15/500 | REG | SI | | 65 | 10W | 15.0 | | 500 | 4 | .10 | | 24 |
| SK1-18/500 | REG | SI | | 65 | 10W | 18.0 | | 500 | 4 | .11 | | 24 |
| SK1-22/150 | REG | SI | | 65 | 10W | 22.0 | | 150 | 7 | .11 | | 24 |
| SK1-24/150 | REG | SI | | 65 | 10W | 24.0 | | 150 | 8 | .12 | | 24 |
| SK1-28/150 | REG | SI | | 65 | 10W | 28.0 | | 150 | 12 | .12 | | 24 |
| SK1-30/150 | REG | SI | | 65 | 10W | 30.0 | | 150 | 30 | .12 | | 24 |
| SK1-36/150 | REG | SI | | 65 | 10W | 36.0 | | 150 | 45 | .12 | | 24 |
| SK1-43/150 | REG | SI | | 65 | 10W | 43.0 | | 150 | 60 | .12 | | 24 |
| SK1-51/150 | REG | SI | | 65 | 10W | 51.0 | | 150 | 70 | .12 | | 24 |
| SK1-62/50 | REG | SI | | 65 | 10W | 62.0 | | 50 | 80 | .14 | | 24 |
| SK1-75/50 | REG | SI | | 65 | 10W | 75.0 | | 50 | 100 | .14 | | 24 |
| SK1-95/50 | REG | SI | | 65 | 10W | 91.0 | | 50 | 100 | .14 | | 24 |
| SK1-110/50 | REG | SI | | 65 | 10W | 110.0 | | 50 | 110 | .14 | | 24 |
| SK1-120/50 | REG | SI | | 65 | 10W | 120.0 | | 50 | 112 | .14 | | 24 |
| SK1-150/50 | REG | SI | | 65 | 10W | 150.0 | | 50 | 150 | .15 | | 24 |
| SK1-180/50 | REG | SI | | 65 | 10W | 180.0 | | 50 | 150 | .15 | | 24 |
| SK1-220/25 | REG | SI | | 65 | 10W | 220.0 | | 25 | 300 | .15 | | 24 |
| SK1-270/25 | REG | SI | | 65 | 10W | 270.0 | | 25 | 400 | .15 | | 24 |
| SK1-300/25 | REG | SI | | 65 | 10W | 300.0 | | 25 | 500 | .15 | | 24 |
| SK2-5.6/2000 | REG | SI | | 65 | 15W | 5.6 | | 2A | <1 | .04 | | 25 |
| SK2-6.8/2000 | REG | SI | | 65 | 15W | 6.8 | | 2A | 1 | .05 | | 25 |
| SK2-8.2/2000 | REG | SI | | 65 | 15W | 8.2 | | 2A | 2 | .7 | | 25 |
| SK2-10/1000 | REG | SI | | 65 | 15W | 10.0 | | 2A | 2 | .08 | | 25 |
| SK2-12/1000 | REG | SI | | 65 | 15W | 12.0 | | 1A | 2 | .09 | | 25 |
| SK2-15/1000 | REG | SI | | 65 | 15W | 15.0 | | 1A | 3 | .10 | | 25 |
| SK2-18/700 | REG | SI | | 65 | 15W | 18.0 | | 700 | 4 | .11 | | 25 |
| SK2-22/300 | REG | SI | | 65 | 15W | 22.0 | | 300 | 5 | .12 | | 25 |
| SK2-24/300 | REG | SI | | 65 | 15W | 24.0 | | 300 | 6 | .12 | | 25 |
| SK2-28/300 | REG | SI | | 65 | 15W | 28.0 | | 300 | 8 | .12 | | 25 |
| SK2-30/300 | REG | SI | | 65 | 15W | 30.0 | | 300 | 25 | .12 | | 25 |
| SK2-36/300 | REG | SI | | 65 | 15W | 36.0 | | 300 | 30 | .12 | | 25 |
| SK2-43/300 | REG | SI | | 65 | 15W | 43.0 | | 300 | 35 | .12 | | 25 |
| SK2-51/200 | REG | SI | | 65 | 15W | 51.0 | | 200 | 45 | .12 | | 25 |
| SK2-62/200 | REG | SI | | 65 | 15W | 62.0 | | 200 | 60 | .14 | | 25 |
| SK2-75/100 | REG | SI | | 65 | 15W | 75.0 | | 100 | 80 | .14 | | 25 |
| SK2-91/100 | REG | SI | | 65 | 15W | 91.0 | | 100 | 90 | .14 | | 25 |
| SK2-110/100 | REG | SI | | 65 | 15W | 110.0 | | 100 | 100 | .14 | | 25 |
| SK2-120/100 | REG | SI | | 65 | 15W | 120.0 | | 100 | 100 | .14 | | 25 |
| SK2-150/100 | REG | SI | | 65 | 15W | 150.0 | | 100 | 120 | .14 | | 25 |
| SK2-180/100 | REG | SI | | 65 | 15W | 180.0 | | 100 | 200 | .15 | | 25 |
| SK2-220/50 | REG | SI | | 65 | 15W | 220.0 | | 50 | 300 | .15 | | 25 |
| SK2-270/50 | REG | SI | | 65 | 15W | 270.0 | | 50 | 350 | .15 | | 25 |
| SK2-300/50 | REG | SI | | 65 | 15W | 300.0 | | 50 | 450 | .15 | | 25 |
| 2S-156A | REG | SI | 55 | 120 | 300 | 5.6 | 10 | 10 | 46 | .05 | | 12 |
| 2S-168A | REG | SI | 45 | 120 | 300 | 6.8 | 10 | 10 | 28 | .06 | | 12 |
| 2S920A,P | REG | SI | 42 | 130 | 5W | 120 | | 5 | 100 | .16 | | 13 |
| 2S930A,P | REG | SI | 38 | 130 | 5W | 130 | | 5 | 120 | .16 | | 13 |
| 2S950A,P | REG | SI | 33 | 130 | 5W | 150 | | 2.5 | 170 | .16 | | 13 |
| 2S980A,P | REG | SI | 28 | 130 | 5W | 180 | | | 220 | .16 | | 13 |

| Type No. | | Kind | Type | Typical wavelength | Maximum | | | | | | | | Min cur sens | Opr temp | | Fig No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Res | $L_c$ | $NF_o$ | VSWR | Pulse pwr | | Pulse energy | | | Min | Max | |
| | | | | | | | | | Cont | Peak | Cont | Peak | | | | |
| | | | | cm | Ω | dB | dB | | mW | mW | erg | erg | A/W | (−)°C | (+)°C | |
| 2A201A | | | | | 1k | | | | | 20 | | | 5.5 | | | |
| 2A202A | | | | | 1k | | | | | 20 | | | 2.5 | | | |
| D3A | | VID | SI | 3.2 | 950 | | | 2.5 | 50 | 300 | | | | 60 | 70 | 20 |
| D3B | | VID | SI | 9.8 | 950 | | | 2.5 | 50 | 300 | | | | 60 | 70 | 20 |
| D401 | | MIX | GE | 8.5 | 1k | 13.0 | | | 15 | | | | | 5 | 50 | 29 |
| D402 | | MIX | SI | | 650 | 10.0 | 2.5 | 3.0 | 10 | | 0.02 | | | 60 | 85 | |
| D403A | | MIX | GE | 9.8 | 700 | 9.0 | 3.0 | 3.0 | | 150 | 0.15 | | | 60 | 100 | 20 |
| D403B | | MIX | GE | 9.8 | 600 | 8.5 | 3.0 | 3.5 | | 150 | 0.15 | | | 60 | 100 | 20 |
| D403V | | MIX | GE | 9.8 | 600 | 9.0 | | 2.8 | | 150 | 0.15 | | | 60 | 100 | 20 |
| D404 | | MIX | SI | | 520 | 8.5 | 2.5 | 2.5 | 10 | 80 | 0.02 | 1.5 | | 60 | 85 | |
| D405 | | MIX | SI | | 400 | 7.0 | | 2.0 | | 80 | 0.6 | 1.5 | | 60 | 100 | 31 |
| D405A | | MIX | SI | | 350 | 6.0 | | 1.7 | | 80 | 1.0 | 1.5 | | 60 | 100 | 31 |
| D405AP | | MIX | SI | | 350 | 6.0 | | 1.7 | | 80 | 1.0 | 1.5 | | 60 | 100 | 31 |
| D405B | | MIX | SI | | 330 | 8.0 | | 1.4 | | 80 | 1.0 | 1.5 | | 60 | 100 | 31 |
| D405BP | | MIX | SI | | 330 | 8.0 | | 1.4 | | 80 | 1.0 | 1.5 | | 60 | 100 | 31 |
| D406 | | MIX | SI | | | | | | 40 | 300 | 0.1 | | | 60 | 100 | 30 |
| D408 | | MIX | SI | 9.8 | 390 | 6.0 | | 1.3 | 100 | 500 | | 0.5 | | 60 | 125 | 30 |
| D501 | * | MUL | SI | h.2 | | | | | | 100 | | | | 60 | 100 | 30 |
| D602A | | VID | GE | 3.2 | 600 | | | 3.2 | | 50 | | | 1.5 | 60 | 85 | 28 |
| D602B | | VID | GE | 3.2 | 900 | | | 3.2 | | 50 | | | 1.5 | 60 | 85 | 28 |
| D602V | | VID | GE | 3.2 | 900 | | | 3.2 | | 50 | | | 4.0 | 60 | 85 | 28 |
| D603 | * | VID | SI | 9.8 | 900 | | 10.0 | 2.0 | | 200 | | | 4.0 | 60 | 100 | 30 |
| D604 | * | VID | SI | 3.2 | 900 | | 8.0 | 2.0 | 10 | 300 | | | 2.5 | 60 | 100 | 30 |
| D605 | | MIX | SI | 3.2 | | | | | 600 | 2k | | | | 60 | 85 | 30 |
| D607 | | | | | 12h | | | | | 5 | | | 4.0 | | | |
| D607A | | | | | 12h | | | | | 5 | | | 3.5 | | | |
| D608 | | | | | 12h | | | | | | | | 4.0 | | | |
| D609 | | | | | 2k | | | | | 2 | | | 4.0 | | | |
| DG-S1 | | MIX | GE | 9.8 | 400 | 8.5 | 3.0 | 3.0 | 80 | 250 | 0.1 | 3.0 | | 60 | 70 | 28 |
| DG-S2 | | MIX | GE | 9.8 | 400 | 6.5 | 3.0 | 3.0 | 80 | 250 | 0.1 | 3.0 | | 60 | 70 | 28 |
| DG-S3 | | MIX | GE | 3.2 | 400 | 8.5 | 3.0 | 3.5 | 80 | 250 | 0.1 | 3.0 | | 60 | 70 | 28 |
| DG-S4 | | MIX | GE | 3.2 | 400 | 6.5 | 3.0 | 3.0 | 50 | 250 | 0.1 | 3.0 | | 60 | 70 | 28 |
| DK-I1M | * | DET | SI | 9.8 | | | | | | 200 | | | 0.5 | 60 | 100 | 30 |
| DK-I2M | * | DET | SI | 3.2 | | | | | | 200 | | | 0.2 | 60 | 100 | 30 |
| DK-S1M | * | DET | SI | 9.8 | 400 | 8.5 | 2.7 | 3.5 | 80 | 300 | 0.3 | 2.0 | | 60 | 100 | 30 |
| DK-S2M | * | DET | SI | 9.8 | 400 | 6.5 | 2.0 | 3.0 | 50 | 300 | 0.36 | 2.0 | | 60 | 100 | 30 |
| DK-S3 | | MIX | SI | 3.2 | 400 | 8.5 | 2.7 | 3.0 | 50 | 200 | 0.06 | 0.6 | | 60 | 70 | 30 |
| DK-S4 | | MIX | SI | 3.2 | 400 | 6.5 | 2.7 | 2.5 | 30 | 100 | 0.06 | 0.3 | | 60 | 70 | 30 |
| DK-S5 | | MIX | SI | 2.0 | 400 | 8.0 | 2.5 | 3.0 | 30 | 200 | 0.06 | 0.2 | | 60 | 70 | 28 |
| DK-S7 | | MIX | SI | 3.2 | 900 | 7.0 | 2.0 | 2.0 | 50 | | 0.15 | | | 60 | 80 | 28 |
| DK-S7M | * | MIX | SI | 3.0 | 700 | 7.5 | 2.0 | | 100 | | 0.3 | | | 60 | 80 | 29 |
| DK-V1 | * | DET | SI | 9.8 | 15k | | | | 50 | 200 | | | 0.8 | 50 | 70 | 29 |
| DK-V2 | * | DET | SI | 9.8 | 10k | | | | 50 | 100 | | | 1.2 | 50 | 70 | 29 |
| DK-V3 | * | DET | SI | 3.2 | 15k | | | | 50 | 200 | | | 0.4 | 50 | 70 | 29 |
| DK-V4 | * | DET | SI | 3.2 | 10k | | | | 50 | 100 | | | 0.8 | 50 | 70 | 29 |
| DK-V5M | * | VID | SI | 9.8 | 10k | | | | 50 | 200 | | | 0.8 | 60 | 100 | 30 |
| DK-V6 | | VID | SI | 9.8 | 25k | | | | 50 | 200 | | | 0.8 | 50 | 70 | 30 |
| DK-V7M | * | VID | SI | 3.2 | 10k | | | | 50 | 200 | | | 0.4 | 60 | 100 | 30 |
| DK-V8 | | VID | SI | 3.2 | 15h | | | 3.0 | 50 | | | 0.3 | | 60 | 70 | 28 |
| DK-V11 | | VID | SI | | 10k | | | 2.5 | 50 | | | | 1.5 | 50 | 70 | 28 |

| Type No. | | Kind | Maximum | | | Dark | | Sensitivity | | | T.C. | Time constant | Temp | | Weight | K area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Volts V | Cur μA | Power mW | Resistance MΩ | Current μA | μA/lmV | Max μ | Cut off μ | %/°C | μs | Min (−)°C | Max (+)°C | gm | mm² |
| FS-AG | | PBS | 15 | | | 0.04 | | 500 | 2.1 | 2.7 | 1.5 | | 60 | 60 | | 24 |
| FS-A0 | | PBS | 15 | | | 0.04 | | 500 | 2.1 | 2.7 | 1.5 | | 60 | 60 | | 24 |
| FS-AV | | PBS | 100 | | | 0.01 | | 500 | 2.1 | 2.7 | 1.5 | | 60 | 60 | | 96 |
| FS-D0 | | CDSE | 200 | | | 20.0 | | 20m | 0.75 | 1.2 | 2.0 | | 60 | 40 | | 25 |
| FS-KG | | CDS | | | | 3.3 | | 6000 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 25 |
| FS-K0 | | CDS | 300 | | | 3.3 | | 1200 | 0.52 | 0.9 | 0.12 | | 60 | 80 | | 25 |
| FS-KV | | CDS | 200 | | | 1.6 | | 6000 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 50 |
| FD-1 | | GE | 15 | 800 | 15 | | 30 | 20 | 1.4 | 1.7 | | 10 | 0 | 40 | 1.0 | 20 |
| FDK-1 | | SI | 20 | | | | 3 | 3 | 0.9 | 1.3 | | 10 | 0 | 40 | 0.02 | |
| FS-A1 | | PBS | 15 | | | 0.04 | | 500 | 2.1 | 2.7 | 1.5 | | 60 | 60 | | 24 |
| FS-D1 | | CDSE | 20 | 15h | 50 | 2.0 | | 20m | 0.75 | 1.2 | 2.0 | | 60 | 40 | | 25 |
| FS-K1 | | CDS | 400 | | | 3.3 | | 6000 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 25 |
| FSA-G1 | | PBS | 75 | | | 0.05 | | 500 | 2.1 | 2.7 | 1.5 | 40 | 60 | 60 | 19.5 | 30 |
| FSD-G1 | | CDSE | 20 | 2k | 50 | 20.0 | 1 | | 0.75 | 1.2 | | | | | | |
| FSK-G1 | | CDS | 50 | 15h | 120 | 0.5 | 10 | 1200 | 0.64 | 0.9 | | | | | | |
| FSK-P1 | | CDS | 100 | 2k | 100 | 10k | <1 | | 0.64 | 0.9 | | | | | | 25 |
| FT-1 | | GE | 3 | | 50 | | 30 | 500 | 1.4 | 1.7 | | 200 | 60 | 50 | 0.9 | |
| FTG-1 | | GE | 15 | | 50 | | 1000 | 20 | 1.4 | 1.7 | | | 40 | 40 | 1.2 | 1 |
| FD-2 | | GE | 30 | | 15 | | 25 | 20 | 1.4 | 1.7 | | 10 | 0 | 40 | 0.85 | 14 |
| FS-2A | | PBS | 17 | | | 0.3 | | | 0.7 | 3.5 | | | 60 | 40 | | 9 |
| FS-B2 | | BIS | 50 | | | 0.2 | | 250 | 0.7 | 0.9 | | | 60 | 60 | | 121 |
| FS-K2 | | CDS | 300 | | | 3.3 | | 1200 | 0.52 | 0.9 | 0.12 | | 60 | 80 | | 25 |
| FSA-G2 | | PBS | 75 | | | 0.05 | | 500 | 2.1 | 2.7 | 1.5 | 40 | 60 | 60 | 19.5 | 96 |
| FSK-G2 | | CDS | 50 | 4k | 200 | 0.5 | 10 | 2400 | 0.64 | 0.9 | | | | | | 64 |
| SF2-1 | | CDS | 15 | 500 | 10 | 15 | | | 0.64 | 0.9 | | | | | | <1 |
| SF-2-2 | | CDS | 10 | 15h | 50 | 4.0 | <1 | | 0.64 | 0.9 | | | | | | 60 |
| SF-2-4 | * | CDS | 15 | 750 | 10 | 15.0 | 1 | | 0.64 | 0.9 | 0.3 | 100 | | | | <1 |
| SF-2-5 | * | CDS | 6 | 1k | 25 | 1.0 | | | 0.54 | 0.9 | 0.2 | 20 | 60 | 70 | | 8 |
| SF-2-8 | * | CDS | 150 | 1k | 125 | 1h | | | 0.54 | 0.9 | 0.3 | 25 | 60 | 70 | | 12 |
| SF-2-9 | * | CDS | 100 | 900 | 125 | 3.3 | | | 0.64 | 0.9 | 0.4 | 50 | | | | 20 |
| SF-2-12 | * | CDS | 15 | 12h | 10 | 15.0 | | | 0.64 | 0.9 | 0.2 | 25 | 60 | 70 | | <1 |
| SF-2-16 | * | CDS | 15 | | 10 | 3.3 | | | 0.54 | 0.9 | 0.9 | 100 | 60 | 70 | | <1 |
| FD-3 | | GE | 10 | 250 | | | 10 | 20 | 1.4 | 1.7 | | 10 | 0 | 40 | 0.02 | 9 |
| FS-3A | | PBS | 10 | | | 2.0 | | | 0.7 | 3.5 | | | 60 | 40 | | 52 |
| FS-K3 | | CDS | 300 | | | 3.3 | | 1200 | 0.52 | 0.9 | 0.12 | | 60 | 80 | | 25 |
| SF3-1 | | CDSE | 15 | 750 | 10 | 30 | | | 0.72 | 1.2 | | | | | | <1 |
| SF-3-5 | * | CDSE | 6 | | 50 | 2.0 | | | 0.74 | 1.1 | 1.5 | 10 | | | | 8 |
| SF-3-8 | * | CDSE | 50 | 750 | 50 | 20 | <1 | | 0.74 | 1.2 | 1.5 | 10 | | | | <2 |
| FS-A4 | | PBS | 15 | | | 0.04 | | 500 | 2.1 | 2.7 | 1.5 | | 60 | 60 | | 24 |
| FS-K4 | | CDS | 300 | | | 2.0 | | 6000 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 24 |
| SF-4-1 | | | 200 | | 25 | 0.01 | 15 | | | | | | 60 | 40 | | |
| FS-K5 | | CDS | 300 | | | 10.0 | | 3000 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 7 |
| FS-A6 | | PBS | 30 | 20 | 10 | 0.05 | | 500 | 2.1 | 2.7 | 1.5 | | 60 | 60 | | 115 |
| FS-D6 | | BIS | 200 | | | 20.0 | | 20m | 0.75 | 1.2 | 2.0 | | 60 | 40 | | 115 |
| FS-K6 | | CDS | 300 | | | 3.3 | | 3000 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 115 |
| FS-K7 | | CDS | 100 | | | 0.05 | | 3500 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 200 |
| FSK-7A | | CDS | 50 | 350 | 350 | 1.0 | 50 | | 0.64 | 0.9 | | | | | | |
| FSK-7B | | CDS | 50 | 800 | 350 | 1.0 | 50 | 1200 | 0.64 | 0.9 | | | | | | |
| FSK-G7 | | CDS | 50 | 2k | 350 | 0.5 | 10 | 700 | 0.64 | 0.9 | | | | | | 85 |
| FS-K8 | | CDS | 300 | | | 10.0 | | 1600 | 0.64 | 0.9 | 0.2 | | 60 | 80 | | 15 |

| Type No. | Kind | Type | Bulb dimen | | | Cathode | | | Maximum | | | | Output sens | | Dynodes | | | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Shape | Diam mm | Lth mm | Area $cm^2$ | Surf | Sens $\mu A/lm$ | $E_b$ V | $I_k$ $\mu A$ | Dark I Amp | Dark I (−) Exp | Min Amp/L | Opr $E_b$ V | Design | Mat'l | No. | |
| F-1 | *PHO | VC | T | 39 | 93 | <3 | S4 | 100 | 300 | | 1 | 14 | | | | | | |
| F-2 | *PHO | VC | T | 20 | 67 | | S4 | 30 | 300 | | 1 | 8 | 1 | | | | | |
| F-3 | *PHO | VC | G | 92 | 140 | | S10 | 70 | 50 | | 1 | 9 | | | | | | |
| F-4 | *PHO | VC | T | 39 | 93 | | S4 | 70 | 300 | | 5 | 11 | | | | | | |
| F-5 | *PHO | VC | T | 42 | 93 | | S1 | | 300 | | 8 | 11 | | | | | | |
| F-6 | *PHO | VC | G | 33 | 76 | | S10 | 50 | 300 | | 1 | 11 | | | | | | |
| F-7 | *PHO | VC | T | 44 | 97 | | MG | | 300 | | 1 | 11 | | | | | | |
| F-8 | *PHO | VC | G | 27 | 62 | | S4 | 80 | 300 | | 1 | 8 | | | | | | |
| F-9 | *PHO | VC | G | 40 | 88 | | S20 | 100 | 300 | | 1 | 13 | | | | | | |
| F-10 | *PHO | VC | T | 60 | 100 | | S20 | 80 | 300 | | 1 | 12 | | | | | | |
| FEU-1 | *PHO | | G | 40 | 124 | | S4 | 400 | 650 | | 1 | 7 | 1 | 220 | | | | |
| FEU-1B | PHM | | B | 80 | 285 | 44 | S13 | 90 | 2000 | 300 | 1 | 7 | 3 | | L | AMK | 11 | 6 |
| FEU-1B1V | PHM | | T | 80 | 225 | 44 | S13 | 90 | 2500 | 1m | 1 | 7 | 30 | | C | AMK | 10 | 7 |
| FEU-1B2V | PHM | | T | 80 | 225 | 44 | S13 | 30 | 2500 | | 1 | 7 | 300 | | C | AMK | 12 | 7 |
| FEU-1S | PHM | | T | 48 | 205 | 12 | S13 | 90 | 1950 | 300 | 1 | 7 | 3 | | L | AMK | 11 | 6 |
| FEU-1V | PHM | | T | 48 | 166 | 12 | S13 | 90 | 2500 | 1m | 1 | 7 | 30 | | C | AMK | 10 | 7 |
| FEU-2 | *PHM | | G | 31 | 71 | | S4 | 600 | 250 | | 1 | 7 | 1 | 220 | | | 1 | |
| FEU-2B | PHM | | | 150 | 295 | 155 | S13 | 90 | 2000 | 300 | 1 | 7 | 3 | | L | AMK | 11 | 6 |
| FEU-2B1V | PHM | | B | 80 | 225 | 44 | S13 | 90 | 2500 | | 1 | 7 | | | C | | 12 | 7 |
| FEU-2M | PHM | | T | 34 | 130 | 5 | S13 | 90 | 1600 | 300 | 1 | 7 | 3 | | L | AMK | 13 | 5 |
| FEU-2V | PHM | | T | 50 | 170 | 12 | S10 | 90 | 2500 | 1m | 1 | 7 | 300 | | C | AMK | 12 | 7 |
| FEU-3B | PHM | | B | 200 | 295 | 227 | S13 | 90 | 2000 | 300 | 1 | 7 | 3 | | L | AMK | 11 | 6 |
| FEU-3M | PHM | | T | 19 | 75 | <2 | S13 | 90 | 1500 | 100 | 5 | 8 | 1 | | L | AMK | 8 | 5 |
| FEU-4 | *PHM | | G | 38 | 110 | 2 | S20 | 600 | 240 | | 1 | 14 | | | | | 1 | |
| FEU-5 | *PHM | | T | 34 | 100 | 2 | S5 | 400 | 240 | | 1 | 14 | | | | | 1 | |
| FEU-11 | *PHM | | T | 52 | 179 | 16 | S4 | 80 | 2500 | 25m | 8 | 7 | 5 | 1700 | V | CAM | 12 | 7 |
| FEU-12 | PHM | | T | 52 | 179 | 16 | S10 | 80 | 2500 | | 8 | 7 | 5 | | V | CAM | 12 | 7 |
| FEU-12A | PHM | | T | 52 | 179 | 20 | S10 | 50 | 1700 | 25 | 8 | 7 | 5 | 1700 | V | | 12 | |
| FEU-13 | *PHM | | T | 52 | 129 | 17 | S5 | 50 | 2200 | 5m | 4 | 7 | 6 | 2200 | V | CAM | 12 | |
| FEU-14 | PHM | | T | 52 | 129 | 17 | S10 | 60 | 2200 | 5m | 4 | 7 | 6 | 2200 | V | CAM | 12 | |
| FEU-14A | PHM | | T | 52 | 129 | 20 | S10 | 60 | 1700 | 5 | 4 | 7 | 6 | 1700 | V | | 12 | |
| FEU-15 | *SCC | | T | 31 | 115 | 3 | S10 | 25 | 2200 | 5m | 4 | 7 | 6 | 1700 | V | CAM | 12 | |
| FEU-16 | *SCC | | T | 31 | 115 | 2 | S4 | 25 | 2200 | 5m | 4 | 7 | 6 | 1700 | V | CAM | 12 | |
| FEU-17 | PHM | | T | 48 | 181 | <1 | S2 | 20 | 1400 | 100 | 3 | 7 | 10 | 900 | L | | 13 | |
| FEU-17A | *PHM | | T | 48 | 181 | <1 | S4 | 20 | 1400 | 100 | 3 | 7 | 10 | 900 | L | | 13 | |
| FEU-18 | PHM | | T | 48 | 181 | <1 | S5 | 20 | 1400 | 100 | 3 | 7 | 10 | 900 | L | | 13 | |
| FEU-18A | *PHM | | T | 48 | 181 | <1 | S5 | 20 | 1400 | 100 | 3 | 7 | 10 | 900 | L | | 13 | |
| FEU-19A | *PHM | | T | 48 | 195 | 9 | S4 | 15 | 2600 | 200 | 1 | 6 | 1000 | 1700 | L | | 13 | 7 |
| FEU-20 | *PHM | | T | 34 | 95 | <2 | S4 | 20 | 900 | 100 | 8 | 9 | 1 | 900 | L | | 8 | |
| FEU-22 | PHM | | T | 48 | 181 | <1 | S1 | 25 | 2000 | 300 | 2 | 8 | 1 | 1400 | L | | 13 | |
| FEU-23 | PHM | | | 305 | 450 | 700 | S10 | 20 | 2400 | 10 | | | 10 | | L | AMK | 11 | 5 |
| FEU-24 | *PHM | | T | 80 | 230 | 12 | S4 | 35 | 2000 | 200 | 3 | 7 | 10 | 1600 | L | | 13 | 6 |
| FEU-25 | *PHM | | T | 34 | 109 | 8 | S4 | 20 | 1700 | 100 | 5 | 8 | 1 | 1250 | L | | 9 | 6 |
| FEU-26 | *PHM | | T | 22 | 70 | <1 | S4 | 20 | 900 | 75 | 5 | 8 | 11 | 900 | | | 7 | |
| FEU-27 | *PHM | | T | 30 | 108 | 8 | S10 | 30 | 2000 | | 5 | 9 | 100 | 2000 | | | 11 | |
| FEU-28 | *PHM | | T | 34 | 122 | 5 | S1 | 20 | 1800 | 100 | 2 | 6 | 10 | 1800 | | | 11 | |
| FEU-29 | *PHM | | T | 48 | 195 | 5 | S4 | 45 | 2300 | 200 | 3 | 8 | 10 | 1000 | L | CAM | 13 | 7 |
| FEU-30 | *PHM | | T | 67 | 210 | 20 | S4 | 40 | 3500 | | 1 | 4 | 10k | 3500 | | | 14 | |
| FEU-31 | *PHM | | T | 22 | 79 | 10 | S4 | 20 | 1400 | 75 | 5 | 7 | 10 | 1300 | L | | 8 | |
| FEU-32 | *PHM | | T | 34 | 123 | 5 | S10 | 25 | 1800 | 200 | 1 | 8 | 1 | 1250 | L | AMK | 11 | 6 |
| FEU-33 | *SCC | | T | 48 | 195 | 9 | S4 | 30 | 2900 | | 1 | 6 | 100 | 2100 | L | | 13 | 7 |
| FEU-34 | PHM | | | | | 9 | S13 | 30 | 2700 | | 1 | 5 | 1000 | | L | | 13 | |
| FEU-35 | *SCC | | T | 31 | 113 | 5 | S4 | 40 | 1750 | 50 | 4 | 9 | 10 | 1100 | L | | 8 | |
| FEU-36 | *PHM | | T | 48 | 195 | 9 | S4 | 30 | 2900 | 200 | 2 | 5 | 1000 | 2900 | L | | 13 | |
| FEU-37 | *PHM | | T | 48 | 193 | 11 | S4 | 30 | 2000 | 200 | 5 | 6 | 1000 | 2000 | L | | 11 | |

| Type No. | Kind | Type | Bulb dimen | | | Cathode | | | Maximum | | | | Output sens | | Dynodes | | | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Shape | Diam mm | Lth mm | Area $cm^2$ | Surf | Sens $\mu A/lm$ | $E_b$ V | $I_k$ $\mu A$ | Dark I Amp | Dark I (–) Exp | Min Amp/L | Opr $E_b$ V | Design | Mat'l | No. | |
| FEU-38 | *PHM | | T | 48 | 200 | 9 | S20 | 90 | 2050 | 200 | 1 | 7 | 100 | 2050 | L | | 13 | |
| FEU-39A | *PHM | | T | 48 | 178 | 9 | S4 | 25 | 1800 | 10 | 1 | 6 | 1000 | 1800 | L | | 11 | |
| FEU-40 | NSP | | T | 20 | 91 | | S13 | 30 | 1900 | | 5 | 7 | 1 | | | | 8 | |
| FEU-42 | NSP | | T | 48 | 205 | | S13 | 30 | 2200 | | 1 | 7 | 1 | 1800 | | | 11 | |
| FEU-43 | NSP | | T | 80 | 290 | | S13 | 30 | 2200 | | 1 | 7 | | 1800 | | | 11 | |
| FEU-44 | NSP | | B | 150 | 310 | | S13 | 30 | 2200 | | 1 | 7 | 1 | 1800 | | | 11 | |
| FEU-45 | NSP | | B | 200 | 340 | | S13 | 30 | 2200 | | 1 | 7 | 1 | 1800 | | | 11 | |
| FEU-46 | NSP | | T | 48 | 130 | | S13 | 30 | 1800 | | 1 | 10 | 1 | 1800 | | | 10 | |
| FEU-47 | NSP | | T | 48 | 169 | | S13 | 30 | 2500 | | 1 | 7 | 1 | 2300 | | | 10 | |
| FEU-48 | NSP | | T | 80 | 230 | | S13 | 30 | 2500 | | 1 | 7 | 1 | 2300 | | | 10 | |
| FEU-49 | *PHM | | B | 170 | 220 | 700 | S20 | 50 | 3500 | 10m | 1 | 8 | 5 | 1800 | V | | 12 | |
| FEU-50 | *PHM | | T | 89 | 360 | 23 | S4 | 20 | | | | | 1000 | | | | 13 | |
| FEU-51 | *PHM | | T | 34 | 110 | 5 | S20 | 60 | | 100 | 3 | 7 | 100 | 2300 | | | 11 | |
| FEU-52 | *PHM | | B | 80 | 125 | 38 | S20 | 50 | 3000 | 10m | 5 | 8 | 10 | 1700 | V | CAM | 12 | 7 |
| FEU-53 | *PHM | | T | 51 | 110 | 16 | S4 | 25 | 2500 | 10m | 1 | 7 | 2000 | 2500 | V | CAM | 14 | 7 |
| FEU-54 | *PHM | | T | 22 | 90 | 2 | S4 | 20 | | 500 | 8 | 7 | 25 | | V | | 14 | |
| FEU-55 | *PHM | | T | 22 | 90 | 2 | S10 | 20 | | 500 | 8 | 7 | 25 | | V | | 14 | |
| FEU-56 | *PHM | | B | 80 | 120 | 38 | S4 | 30 | | 10m | 1 | 7 | 15 | | V | | 12 | |
| FEU-58 | *PHM | | T | 22 | 90 | 2 | S4 | 15 | | 500 | 4 | 7 | 25 | | V | | 14 | |
| FEU-59 | *PHM | | T | 51 | 107 | 15 | S4 | 20 | | 10m | 2 | 5 | 20 | | V | | 14 | |
| FEU-60 | * PHM | | T | 15 | 59 | <1 | S4 | 20 | 1600 | 50 | 3 | 8 | 30 | 1600 | | | 10 | |
| FEU-62 | *PHM | | T | 34 | 86 | <1 | S1 | 15 | 1800 | 100 | 6 | 7 | 10 | 1500 | | | 11 | |
| FEU-63 | * PHM | | | | | 78 | S20 | 60 | | | | | 1000 | | | | | |
| FEU-64 | *PHM | | T | 48 | 170 | <1 | S4 | 25 | 1250 | 100 | 5 | 8 | 1000 | 1500 | | | 11 | |
| FEU-65 | * PHM | | | | | 176 | S5 | 40 | | | | | 1000 | | | | | |
| FEU-67 | *PHM | | T | 22 | 76 | <1 | S2 | 20 | 1250 | | 5 | 9 | 3 | 1250 | | | 8 | |
| FEU-68 | * PHM | | | 15 | 70 | | | 100 | | | 4 | 10 | 1 | 1200 | | | | |
| FEU-70 | *PHM | | T | 34 | 125 | | SI0 | 50 | 1800 | | 6 | 9 | 100 | 1800 | | | | |
| FEU-74 | * PHM | | | | | | | | | | | | | | | | | |
| FEU-75 | * PHM | | | 15 | 70 | | | 60 | | | 4 | 10 | 1 | 1200 | | | | |
| FEU-77 | * PHM | | | | | | S20 | | | | | | | | | | | |
| FEU-80 | * PHM | | | | | | | | | | | | | | | | | |
| FEU-81 | *PHM | | T | 52 | 122 | | SI0 | 50 | 1800 | | 8 | 8 | 100 | 1800 | | | | |
| FEU-82 | *PHM | | T | 80 | 152 | | SI0 | 50 | 1800 | | 2 | 7 | 100 | 1800 | | | | |
| FEU-R3 | PHM | | T | 47 | 109 | 2 | S13 | 90 | 1400 | | 1 | 10 | | | C | | 10 | |
| FEU-R5 | PHM | | T | 47 | 109 | 2 | S13 | 90 | 1400 | | 1 | 7 | 1 | | C | | 10 | |
| STSV-3 | *PHO | VC | G | 27 | 62 | | S4 | 80 | 240 | | 1 | 8 | 1 | | | | | |
| STSV-4 | *PHO | VC | G | 39 | 129 | | S4 | 100 | 240 | | 1 | 7 | 1 | | | | | |
| STSV-6 | PHO | VC | T | 27 | 104 | | S1 | | 30 | | 5 | 11 | | | | | | |
| STSV51 | *PHO | VC | G | 30 | 63 | | S4 | 100 | 240 | | 1 | 8 | | | | | | |
| TSG-1 | PHO | GS | G | 56 | 131 | | S1 | 75 | 240 | | 1 | 7 | 1 | | | | | |
| TSG-3 | *PHO | GS | G | 27 | 62 | | S1 | 100 | 300 | | 1 | 7 | 1 | | | | | |
| TSG-4 | *PHO | GS | G | 39 | 129 | | S1 | 100 | 300 | | 1 | 7 | 1 | | | | | |
| TSV-1 | PHM | VC | G | 56 | 131 | | S1 | 20 | 240 | | 1 | 7 | 1 | | | | | |
| TSV-3 | PHO | VC | G | 27 | 62 | | S1 | 20 | 240 | | 1 | 7 | 1 | | | | | |
| TSV-4 | PHO | VC | G | 39 | 129 | | S1 | 20 | 240 | | 1 | 7 | 1 | | | | | |
| TSV-6 | PHO | VC | T | 27 | 104 | | S1 | | 30 | | 5 | 11 | | | | | | |

## Group XVIII – THERMOCOUPLE

| Type No. | Kind | Dimensions | | Typical | | Response | $f_{max}$ |
|---|---|---|---|---|---|---|---|
| | | Diam | Lth | $I_H$ | Thermo elec | | |
| | | mm | mm | mA | mV | s | MHz |
| TV–2 | THM | 13 | 23 | 100 | 30 | 35 | 5 |
| TV–4 | THM | 13 | 23 | 50 | 30 | 35 | 5 |
| TV–5 | THM | 13 | 23 | 75 | 30 | 35 | 5 |
| TV–14 | THM | 13 | 23 | 250 | 30 | 15 | 5 |
| TV–15 | THM | 15 | 20 | 500 | 30 | 35 | 5 |
| TV–16 | THM | 15 | 20 | 1000 | 30 | 35 | 5 |
| TVB–1 | THM | 20 | 30 | 1 | <3 | 40 | 200 |
| TVB–2 | THM | 20 | 30 | 3 | 5 | 40 | 200 |
| TVB–3 | THM | 20 | 30 | 5 | 10 | 40 | 200 |
| TVB–4 | THM | 20 | 30 | 10 | 12 | 40 | 200 |
| TVB–5 | THM | 20 | 30 | 30 | 12 | 40 | 200 |
| TVB–6 | THM | 20 | 30 | 30 | 12 | 40 | 200 |
| TVB–7 | THM | 20 | 30 | 100 | 12 | 40 | 200 |
| TVB–8 | THM | 20 | 30 | 300 | 12 | 40 | 200 |
| TVB–9 | THM | 20 | 30 | 500 | 12 | 40 | 200 |

| Type No. | Kind | Use | Dimen | | Shape | Resistance | | | Temp | | Power | | Sens |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Lth mm | Diam mm | | Min Ω | Max Ω | T.C. % | Min (−)°C | Max (+)°C | Min mW | Max mW | Ω/ mW |
| TOS-M | TMS | CON | 6 | 3 | DSC | | 6k | 3.0 | | 180 | | 50 | |
| KMT-1 | TMS | MEA | 13 | 4 | CYL | 20K | 1M | 5.1 | 20 | 180 | | 8h | |
| MMT-1 | TMS | MEA | 13 | 4 | CYL | 1 | 200 | 2.9 | 70 | 120 | | 4h | |
| ST1-17 | TMS | MEA | | | | 300 | 22k | 7.0 | 60 | 100 | | 5h | |
| ST1-18 | | | 1 | | | <2 | 2200 | 5.0 | 60 | 300 | | 45 | |
| ST1-19 | TMS | MEA | | | | 3 | 2200 | 4.0 | 60 | 300 | | 60 | |
| ST-1-21 | TMS | | 48 | 12 | CYL | 33 | 100 | | 60 | 85 | | 60 | |
| ST-1-30 | TMS | | 60 | 6 | CYL | 200 | 33k | | 60 | 85 | | | |
| TKI-1 | TMS | MEA | 5 | 5 | CYL | 5 | 40 | 0.4 | 40 | 70 | | | |
| TSH-1 | TMS | MEA | | | | | 125 | 3.4 | | | 7.0 | 11 | |
| TST-1A | TMS | REG | 6 | 18 | | 4 | 20 | 1.4 | | | | 40 | |
| ST-2-26 | TMS | | | | | 1k | 100k | 3.0 | 60 | 125 | | | |
| TKI-2 | TMS | MEA | 5 | 5 | CYL | 10 | 1000 | 2.6 | 40 | 70 | | | |
| TP-2/0.5 | REG | TMS | | | 1 | 3 | 0.2 | 2.0 | | <1 | 1 | | |
| TP-2/2 | REG | TMS | | | 1 | 3 | 0.4 | 6.0 | | <1 | 1 | | |
| TSH-2 | TMS | MEA | | | | | 150 | 3.4 | | | 13.5 | 18 | |
| ST3-17 | TMS | MEA | | | | 33 | 340 | 4.5 | 60 | 100 | | 5h | |
| ST3-18 | | | <1 | | | <1 | 3 | 4.1 | 90 | 125 | | 15 | |
| ST3-19 | TMS | MEA | | | | 2 | 15 | 4.5 | 90 | 125 | | 45 | |
| ST-3-21 | TMS | | | | | 680 | 15k | | 60 | 85 | | 60 | |
| ST-3-22 | TMS | | | 40 | CYL | | 1k | 3.5 | 60 | 85 | 6.0 | 12 | |
| ST3-23 | TMS | COM | | | | 2 | 5 | 3.7 | 0 | 125 | | 5h | |
| ST-3-24 | TMS | | <1 | | DSC | 680 | 33h | 3.0 | 60 | 85 | | | |
| ST-3-25 | TMS | | <1 | | DSC | 15h | 33h | 3.3 | 100 | 125 | 0.1 | 8 | |
| ST-3-26 | TMS | | | | | 100 | 680 | 3.0 | 60 | 125 | | | |
| TKI-3 | TMS | MEA | 5 | 5 | CYL | 10 | 20k | 2.8 | 40 | 70 | | | |
| KMT-4 | TMS | MEA | 24 | 7 | CYL | 20k | 1M | 5.1 | 20 | 180 | | 8h | |
| MMT-4 | TMS | MEA | 24 | 7 | CYL | 1 | 200 | 2.9 | 70 | 120 | | | |
| ST-4-15 | TMS | MEA | <2 | 10 | | 1500 | 1800 | 3.6 | 60 | 180 | | 10 | |
| MMT-5 | TMS | MEA | 5 | 14 | CYL | 1k | 200k | 2.9 | 70 | 120 | | 4h | |
| MMT-6 | TMS | | | | | 10 | 1000 | 2.9 | 70 | 120 | | 50 | |
| TP-6/2 | REG | TMS | | | 4 | 8 | 0.4 | 6.0 | | <1 | 1 | | |
| KMT-8 | TMS | | | | | 100 | 10k | 4.6 | 40 | 60 | | | |
| MMT-8 | TMS | COM | 22 | 23 | DSC | 1 | 1000 | 2.9 | 40 | 60 | | 10 | |
| T8D | TMS | | 8 | 3 | CYL | 150 | | | | | 10 | 15 | 20 |
| T8E | TMS | | 8 | 3 | CYL | 150 | | | | | 7 | 10 | 30 |
| T8M | TMS | | 8 | 3 | CYL | 200 | | | | | 9 | 11 | 66 |
| T8R | TMS | | 8 | 3 | CYL | 125 | | | | | 7 | 12 | 10 |
| T8S1 | TMS | | 8 | 3 | CYL | 120 | | | | | 9.5 | 24 | 10 |
| T8S1M | TMS | | 8 | 3 | CYL | 120 | | | | | 9.5 | 24 | 10 |
| T8S2 | TMS | | 8 | 3 | CYL | 150 | | | | | 8 | 19 | 12 |
| T8S2M | TMS | | 8 | 3 | CYL | 150 | | | | | 8 | 19 | 12 |
| T8S3 | TMS | | 8 | 3 | CYL | 150 | | | | | 7 | 23 | 10 |
| T8S3M | TMS | | 8 | 3 | CYL | 150 | | | | | 7 | 23 | 10 |
| MMT-9 | TMS | COM | <3 | 19 | DSC | 10 | 5000 | 2.9 | 60 | 120 | | 10 | |
| T9 | TMS | | 8 | 3 | CYL | 125 | | | | | 7 | 19 | 10 |
| KMT10 | TMS | CON | 30 | 6 | CYL | 100k | 3M | 5.1 | 0 | 120 | | 2h | |
| KMT-11 | TMS | CON | <4 | <1 | CYL | 100k | 3M | 5.1 | 0 | 120 | | 2h | |
| KMT-12 | TMS | | | | | 100 | 10k | 4.6 | 40 | 120 | | | |
| MMT-12 | TMS | | | | | 5 | 5k | 2.9 | 40 | 120 | | 3 | |

## Group XIX – THERMISTORS – Continued

| Type No. | Kind | Use | Dimen | | Shape | Resistance | | | Temp | | Power | | Sens |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Lth mm | Diam mm | | Min Ω | Max Ω | T.C. % | Min (−)°C | Max (+)°C | Min mW | Max mW | Ω/ mW |
| MMT-13 | TMS | | 9 | | DSC | 10 | 2200 | 2.9 | 60 | 125 | 0.3 | | |
| KMT-14 | TMS | MEA | 4 | 80 | CYL | 510 | 7500 | 4.5 | | 300 | | 1h | |
| KMT-17 | TMS | | 5 | | DSC | 300 | 20k | 4.2 | 60 | 155 | 0.1 | 5h | |
| TKP-20 | TMS | POW | 33 | 68 | | | 500 | 2.0 | | | | 2h | |
| STI-21 | TMS | | | | | 10k | 100k | | 60 | 85 | | 60 | |
| TKP-50A | TMS | POW | 33 | 68 | | | 2000 | 2.3 | | | | 2h | |
| TKP-50B | TMS | POW | 33 | 68 | | | 750 | 2.3 | | | | 2h | |
| TKP-300 | TMS | POW | 33 | 68 | | | 10k | 3.5 | | | | 20 | |

| Type No. | Dimensions | | | Voltage | | | Power | | Inter res | Flash conditions | | | | Light output | | | Life | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Shape | Diam mm | Lth mm | Min drop V | Oper V | Firing V | Avg W | Peak kW | Ω | Dischg cap pF | Time μs | Flash freq pps | Energy j | Flash cd/s | Avg cd | Peak cd | No. of flsh | Hrs |
| IFB300 | R | 8 | 85 | 240 | 300 | 1500 | 40 | 36 | 2.5 | 65h | 8k | 0.13 | 300 | 500 | | 60k | 10k | |
| IFK15-1 | T | 29 | 60 | | 300 | | 3 | 90 | 1.5 | 800 | 400 | 0.1 | 36 | 36 | | 9k | 2k | |
| IFK20 | T | 4 | 10 | 100 | 130 | 700 | 2 | 100 | 1.6 | 25h | 200 | 0.1 | 20 | 20 | | 100k | 10k | |
| IFK50 | T | 4 | 20 | 140 | 200 | 1k | 5 | 125 | 0.3 | 25h | 400 | 0.1 | 50 | 70 | | 180k | 10k | |
| IFK120 | U | 5 | 30 | 180 | 300 | 1k | 12 | 120 | 0.8 | 25h | 1k | 0.1 | 120 | 250 | | 250k | 10k | |
| IFK500 | P | 30 | 45 | 400 | 500 | 3500 | 30 | 65 | 4.0 | 4k | 8k | 0.05 | 500 | 1000 | | 130k | 10k | |
| IFK2000 | U | 9 | 70 | 250 | 320 | 2k | 300 | 200 | 4.5 | 8k | 2k | 0.7 | 400 | 1200 | | 600k | 40k | |
| IFK20000 | G | 85 | | 2k | 6k | 20k | 55h | 10M | 3.5 | 550 | 11h | 0.55 | 10k | 34k | | 30M | 7k | |
| IFK80000 | G | 1h | | 3k | 6k | 20k | 18k | 13M | 2.5 | 39h | 5k | 0.25 | 70k | 240k | | 36M | 5k | |
| IFP200 | T | 5 | 200 | 450 | 500 | 2k | 27 | 140 | 2.0 | 16h | 16h | 0.13 | 200 | 400 | | 250k | 10k | |
| IFP500 | T | 5 | 350 | 450 | 500 | 3k | 65 | 70 | 3.5 | 4k | 7k | 0.13 | 500 | 1000 | | 140k | 10k | |
| IFP1500 | T | 5 | 600 | 900 | 1k | 4k | 100 | 160 | 6.0 | 3k | 9k | 0.06 | 15h | 4000 | | 450k | 10k | |
| IFP4000 | T | 6 | 800 | 1300 | 1400 | 5k | 270 | 250 | 8.0 | 4k | 16k | 0.06 | 4k | 12k | | 750k | 10k | |
| IFP15000 | T | 9 | 600 | 1600 | 2400 | 5k | 1250 | 3300 | 1.8 | 5k | 45h | 0.08 | 15k | 50k | | 11M | 10k | |
| ISK10 | U | 5 | 30 | 180 | 300 | 1000 | 10 | 3 | 0.8 | 1.0 | 15 | 200 | <0.1 | 7μ | 15 | 500 | | 50 |
| ISK25 | U | 5 | 20 | 250 | 300 | 1000 | 20 | 130 | 0.4 | 450 | 150 | 1 | 20 | 40 | | 30k | | 30 |
| ISP10 | T | 1 | 62 | 700 | 1000 | 3000 | 10 | 6 | 30 | 0.2 | 18 | 100 | 0.1 | 50μ | 5 | 3k | | 500 |
| ISP70 | T | 0.5 | 70 | 900 | 1200 | 3000 | 70 | 10 | 1h | 0.2 | 18 | 400 | 0.2 | 100μ | 40 | 6k | | 100 |
| IS-SH15 | T | 1 | 2 | 250 | 1000 | 1200 | 1 | 20 | | 20 | 15 | | 10 | 5 | | 300k | 1 | 5k |
| IS-SH100-1 | T | 0.7 | 2 | 2200 | 3000 | 3500 | | 4000 | | 11 | 15 | | 50 | 50 | | 3M | 1 | 2 |
| IS-SH100-3 | T | 2 | 5 | 2500 | 3500 | 6k | 150 | 1000 | | 0.5 | 2 | 50 | 3 | 2 | 100 | 600k | | 5 |
| IS-SH500 | T | 1.2 | 8 | 5k | 9k | 15k | 500 | 1000 | | 0.12 | 6 | 100 | 5 | 5 | 500 | 1M | 1 | 1 |
| IST10 | U | 5 | 30 | 180 | 300 | 1000 | 10 | 50 | 0.8 | 220 | 200 | 1 | 10 | 8 | | 40k | | 50 |

| Type No. | Kind | Radiation | Quenching | Cathode | Dimensions Lth mm | Dimensions Diam mm | Plateau Min V | Plateau Max V | Maximum Rate $10^3$/min | Maximum Plateau Width V | Maximum Plateau Scope %V | Temp Min (−)°C | Temp Max (+)°C | Cap pF | Min $R_1$ MΩ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AS-1 | COU | BAG | | | 132 | 18 | 830 | 940 | | 80 | 0.2 | 0 | 35 | | |
| SFK-1 | COU | UV | | CU | 177 | 32 | 1100 | 1350 | 3 | 200 | | 10 | 40 | | |
| AS-2 | COU | BAG | | AL | 160 | 25 | 750 | 860 | | 100 | 0.15 | 0 | 35 | | |
| GS-4 | COU | GAM | SQ | GR | 180 | 23 | 1250 | 1450 | | 200 | 0.1 | | | 25 | 8 |
| GS-6 | COU | GAM | SQ | GR | 266 | 23 | 1250 | 1450 | | 200 | 0.1 | | | 25 | 8 |
| GS-7 | COU | GAM | SQ | GR | 145 | 16 | 1200 | 1300 | | 150 | 0.1 | | | 25 | 30 |
| GS-8 | COU | GAM | SQ | GR | 185 | 16 | 1200 | 1300 | | 150 | 0.1 | | | 25 | 30 |
| GS-9 | COU | GAM | SQ | GR | 367 | 33 | 1250 | 1450 | | 250 | 0.1 | | | 25 | 8 |
| GS-10 | COU | GAM | SQ | GR | 225 | 16 | 1250 | 1450 | | 150 | 0.1 | | | 25 | 30 |
| GS-11 | COU | GAM | SQ | GR | 185 | 33 | 1250 | 1450 | | 200 | 0.1 | | | 25 | 8 |
| GS-12 | COU | GAM | SQ | GR | 145 | 16 | 1200 | 1300 | | 150 | 0.1 | | | 25 | 30 |
| GS-30 | COU | GAM | SQ | GR | 662 | 33 | 1250 | 1450 | | 150 | 0.1 | | | 25 | 8 |
| GS-60 | COU | GAM | SQ | GR | 667 | 63 | 1250 | 1450 | | 150 | 0.1 | | | 25 | 8 |
| MS-4 | COU | GAM | SQ | CU | 180 | 23 | 820 | 880 | 65 | 200 | 0.1 | 40 | 50 | 25 | 8 |
| MS-6 | COU | GAM | SQ | CU | 266 | 23 | 820 | 880 | 20 | 200 | 0.1 | 40 | 50 | 25 | 8 |
| MS-7 | COU | GAM | SQ | CU | 145 | 16 | 800 | 860 | 28 | 100 | 0.15 | 25 | 50 | 25 | 30 |
| MS-8 | COU | GAM | SQ | CU | 185 | 16 | 800 | 860 | 55 | 100 | 0.15 | 25 | 50 | 25 | 30 |
| MS-9 | COU | GAM | SQ | CU | 367 | 33 | 870 | 930 | 280 | 250 | 0.10 | 40 | 50 | 25 | 8 |
| MS-11 | COU | GAM | SQ | CU | 185 | 33 | 870 | 930 | 105 | 200 | 0.10 | 40 | 50 | 25 | 8 |
| MS-12 | COU | GAM | SQ | CU | 145 | 16 | 790 | 850 | 15 | 100 | 0.15 | 25 | 50 | 25 | 30 |
| MS-13 | COU | GAM | SQ | CU | 100 | 23 | 870 | 930 | 30 | 200 | 0.15 | 40 | 50 | 25 | 8 |
| MS-14 | COU | GAM | SQ | CU | 160 | 23 | 870 | 930 | 70 | 200 | 0.15 | 40 | 50 | 25 | 8 |
| MS-16 | COU | GAM | SQ | CU | 250 | 23 | 870 | 930 | 120 | 200 | 0.10 | 40 | 50 | 25 | 8 |
| MST-17 | COU | BET | SQ | CU | 100 | 40 | 1600 | | 10 | 150 | 0.05 | 30 | 50 | 10 | 7 |
| MST-18 | COU | BET | SQ | CU | 90 | 40 | 1650 | | 10 | 150 | 0.03 | 20 | 40 | 10 | 7 |
| MSTR-4 | COU | BET | SQ | CU | 180 | 40 | 1350 | | 25 | 200 | 0.05 | 5 | 35 | 25 | 8 |
| SAT-7 | COU | ALP | | NI | 70 | 44 | 330 | 400 | | 60 | 0.12 | 40 | 50 | | |
| SAT-8 | COU | AAB | | | 48 | 15 | 500 | 1000 | | 300 | 0.03 | 40 | 50 | | |
| SBM-7 | COU | BET | SQ | SS | 335 | 26 | 800 | 2400 | | 200 | 0.05 | | 50 | | |
| SBM-8 | COU | BET | SQ | SS | 335 | 26 | 800 | 2400 | | 200 | 0.05 | | 50 | | |
| SBS-1 | COU | BAG | SQ | SN | 125 | 14 | 800 | 1200 | 2 | 150 | 0.03 | 50 | 50 | | |
| SBS-4 | COU | BET | SQ | GR | 362 | 23 | 800 | 1200 | 2 | 150 | 0.03 | 50 | 50 | | |
| SBS-5 | COU | BET | SQ | GR | 255 | 23 | 800 | 1200 | 2 | 150 | 0.03 | 50 | 50 | | |
| SBT-3 | COU | AAB | | | 93 | 50 | 1800 | 2100 | | 150 | 0.05 | 30 | 50 | | |
| SBT-7 | COU | BET | | SS | 72 | 20 | 320 | 420 | | 80 | 0.12 | 40 | 50 | | |
| SBT-8 | COU | AAB | | CU | 75 | 20 | 1100 | 1700 | | 150 | 0.03 | 30 | 30 | | |
| SBT-9 | COU | BET | SQ | SS | 72 | 11 | 320 | 420 | | 80 | | 30 | 50 | | |
| SBT-10 | COU | AAB | | LD | 88 | 51 | 340 | 460 | | 80 | | 30 | 50 | | |
| SGS-5 | COU | GAM | SQ | SS | 60 | 8 | 320 | 440 | 2 k | 60 | 0.25 | 50 | 50 | | |
| SGS-6 | COU | GAM | SQ | SS | 90 | 8 | 340 | 440 | | 80 | 0.15 | 40 | 80 | | |
| SI-1BG | COU | BAG | SQ | NI | 60 | 15 | 375 | 410 | | 35 | | 40 | 50 | 5 | <1 |
| SI-2B | COU | BET | SQ | SN | 90 | 70 | 1350 | 1750 | 8 | 150 | 0.05 | 30 | 50 | 10 | 7 |
| SI-2BG | COU | BAG | SQ | NI | 60 | 15 | 375 | 410 | | 35 | | 40 | 50 | 5 | 3 |
| SI-3BG | COU | BAG | SQ | | 60 | 10 | 380 | 460 | | 80 | 0.25 | 40 | 50 | | |
| SI-4BG | COU | BAG | SQ | NI | 60 | 14 | 380 | 460 | | 80 | 0.25 | 40 | 50 | | |
| SI-9BG | COU | BAG | SQ | FE | 25 | 10 | | | | 60 | 0.15 | 40 | 50 | | |
| SI-10BG | COU | BAG | SQ | NI | 76 | 17 | 375 | 400 | | 80 | 0.25 | 40 | 50 | | |
| SI-11BG | COU | BAG | SQ | NI | 75 | 17 | 375 | 400 | | 80 | 0.25 | 40 | 50 | | |
| SI-12BG | COU | BAG | SQ | FE | 73 | 12 | | 900 | | 80 | 0.2 | 50 | 100 | | |
| SI-13G | COU | GAM | SQ | NI | 66 | 10 | 290 | 330 | | 80 | 0.25 | 50 | 60 | | |
| * SI-19BG | COU | BET | | | 18 | 9 | | 390 | | 80 | 0.3 | | | | |
| SI-19G | COU | GAM | SQ | FE | 94 | 11 | 280 | 320 | | 100 | 0.13 | 40 | 50 | | |
| SI-20G | COU | GAM | SQ | FE | 180 | 19 | 285 | 335 | | 100 | 0.13 | 40 | 50 | | |
| SI-21G | COU | GAM | SQ | FE | 265 | 19 | 285 | 335 | | 100 | 0.13 | 40 | 50 | | |
| SI-22G | COU | GAM | SQ | FE | 220 | 19 | 285 | 335 | | 100 | 0.13 | 40 | 50 | | |

## Group XXI – COUNTERS – Continued

| Type No. | Kind | Radiation | Quenching | Cathode | Dimensions Lth mm | Dimensions Diam mm | Plateau Min V | Plateau Max V | Maximum Rate $10^3$/min | Maximum Plateau Width V | Maximum Plateau Scope %V | Temp Min (−)°C | Temp Max (+)°C | Cap pF | Min $R_1$ MΩ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SNM-3 | COU | NEU | SQ | SS | 135 | 18 | 700 | 1000 | | 100 | 0.05 | 0 | 30 | | |
| SNM-5 | COU | NEU | SQ | SS | 300 | 35 | 1200 | 1800 | | 100 | 0.05 | 20 | 30 | | |
| SNM-7 | COU | NEU | SQ | SS | 650 | 35 | 1800 | 2500 | | 100 | 0.05 | 0 | 30 | | |
| SNM-8 | COU | NEU | SQ | SS | 10h | 35 | 1700 | 2000 | | 150 | 0.05 | 0 | 30 | | |
| SNM-9 | COU | NEU | SQ | SS | 133 | 20 | 1000 | 1600 | | 400 | 0.05 | 0 | 50 | | |
| STS-1 | COU | GAM | SQ | FE | 94 | 16 | 280 | 320 | 60 | 80 | 0.12 | 40 | 50 | 10 | 5 |
| STS-2 | COU | GAM | SQ | FE | 180 | 24 | 285 | 335 | 40 | 80 | 0.12 | 40 | 50 | 10 | 5 |
| STS-3 | COU | GAM | SQ | FE | 265 | 23 | 285 | 335 | 30 | 80 | 0.12 | 40 | 50 | 10 | 5 |
| STS-5 | COU | BET | SQ | FE | 113 | 12 | 285 | 335 | 200 | 80 | 0.12 | 40 | 50 | 10 | 5 |
| STS-6 | COU | BET | SQ | FE | 200 | 22 | 285 | 335 | 60 | 80 | 0.12 | 40 | 50 | 10 | 5 |
| STS-8 | COU | GAM | SQ | FE | 220 | 23 | 285 | 335 | 40 | 80 | 0.12 | 40 | 50 | 10 | 5 |
| T20BFL | COU | AAB | | | 7 | 20 | 1200 | 1300 | | 300 | 0.01 | 20 | 40 | | |
| T25BFL | COU | AAB | | | 7 | 25 | 1300 | 1400 | | 300 | 0.01 | 20 | 40 | | |
| T30BFL | COU | AAB | | | 7 | 30 | 1400 | 1500 | | 300 | 0.01 | 20 | 40 | | |
| T40BFL | COU | AAB | | | 7 | 40 | 1500 | 1600 | | 300 | 0.01 | 20 | 40 | | |
| T50BFL | COU | AAB | | | 7 | 50 | 1500 | 1600 | | 300 | 0.01 | 20 | 40 | | |
| T60BFL | COU | AAB | | | 7 | 60 | 1900 | 2000 | | 300 | 0.01 | 20 | 40 | | |
| T80BFL | COU | AAB | | | 80 | 90 | 2000 | 2100 | | 300 | 0.01 | 20 | 40 | | |
| VS-4 | COU | GAM | SQ | W | 180 | 23 | 720 | 800 | 25 | 200 | 0.07 | 40 | 50 | 25 | 8 |
| VS-6 | COU | GAM | SQ | W | 266 | 23 | 720 | 800 | 25 | 200 | 0.07 | 40 | 50 | 25 | 8 |
| VS-8 | COU | GAM | SQ | W | 185 | 16 | 720 | 800 | 25 | 150 | 0.07 | 40 | 50 | 25 | 30 |
| VS-9 | COU | GAM | SQ | W | 367 | 33 | 720 | 800 | 25 | 250 | 0.07 | 40 | 50 | 25 | 8 |
| VS-9T | COU | GAM | SQ | W | 367 | 33 | 720 | 800 | 25 | 200 | 0.1 | 40 | 150 | 25 | 8 |
| VS-11 | COU | GAM | SQ | W | 185 | 33 | 720 | 800 | 25 | 200 | 0.07 | 40 | 50 | 25 | 8 |
| VS-13 | COU | GAM | SQ | W | 100 | 23 | 720 | 800 | 25 | 150 | 0.07 | 40 | 50 | 25 | 8 |
| VS-14 | COU | GAM | SQ | W | 160 | 23 | 720 | 800 | 25 | 200 | 0.07 | 40 | 50 | 25 | 8 |
| VS-16 | COU | GAM | SQ | W | 250 | 23 | 720 | 800 | 25 | 200 | 0.07 | 40 | 50 | 25 | 8 |
| R-1 | 16 | 24 | | C | | | 2k | | | 10 | | | | 60 | 100 |
| R-2 | 17 | 16.5 | | C | | 1300 | 2k | | | 600 | | 20 | | 50 | 80 |
| R2M | 12 | 16 | | C | | | 2k | | | 10 | | | | 60 | 200 |
| R-3 | 70 | 21.5 | | C | BA0 | | 600 | 140 | 12μ | 300 | | 100 | 1 | 60 | 70 |
| R-4 | | | | C | BA0 | | 75 | | | | | | | | |

## Group XXII – DISCHARGE DIODES

| Type No. | Dimen Lth mm | Dimen Diam mm | Gas | Cath Type | Cath Kind | Firing Min V | Firing Max V | Pulse I-amp J-joule | Pulse Time s | Pulse Operating frequency pps | Min inter res MΩ | Max cap pF | Amb temp Min (−)°C | Amb temp Max (+)°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-5 | 41 | 22 | | C | BA0 | 160 | 250 | | | | | 100 | | |
| R-6 | 110 | 55 | | | | 800 | | | | 200M | | 100 | | |
| R-7 | 45 | 18 | HK | C | BA0 | 270 | 330 | | | 2 | | 20 | 10 | 60 100 |
| R-8 | 50 | 20 | HK | C | BA0 | 450 | 550 | | | 2 | | 20 | 10 | 60 100 |
| R-9 | 55 | 20 | HK | C | BA0 | 900 | 1100 | | | 2 | | 20 | 10 | 60 100 |
| R-10 | 55 | 20 | HK | C | BA0 | 1375 | 1725 | | | 2 | | 20 | 40 | 60 100 |
| R-11 | 132 | 35 | | C | NI | 2250 | 2750 | 2 hμ | | | | | | |
| R-12 | 30 | 12 | AR | C | K | 145 | 175 | 20 | 1μ | | 1000 | | | |
| R-18 | 36 | 14 | AR | C | K | | | 3 kJ | | | | | | 60 70 |
| R-21 | 100 | 20 | | | | 1100 | 2000 | 500 | 30μ | | | | | |
| R-24 | 100 | 20 | | | | 2000 | 6000 | 300 | 1 hμ | | | | | |
| R-54 | | | | | | 7200 | 9800 | | | | | | | |
| R-350 | 62 | 20 | AR | C | BA | 310 | 390 | 3 | 2 | 0.002 | | 5 k | 10 | 50 50 |
| R-450 | 62 | 20 | AR | C | BA | 440 | 480 | 3 | 2 | 0.002 | | 5 k | 10 | 50 50 |
| RB-1 | 52 | 19 | | C | BA | 150 | 190 | | | | | 400 | | |
| RB-2 | 25 | 19 | | C | BA | | 220 | 50 | 15μ | 50 | | 100 | <1 | 60 70 |
| RB-3 | 41 | 22 | | C | BA | 220 | 235 | 30 | 1 hμ | 7 | | 100 | | 60 70 |
| RB-5 | 60 | 16 | | C | BA | 340 | 460 | 10 J | | 1 | | 200 | | 60 70 |
| RB-5A | 60 | 16 | | C | BA | 370 | 510 | <1 J | | 8 | | | | 60 50 |
| RB-90 | 62 | 17.5 | NA | C | BA | 80 | 100 | 30m | 2 | 0.005 | | 100 | 100 | 60 70 |
| RB-280 | 210 | 95 | AR | C | BA | 250 | 310 | 30 | 10 | 0.002 | | 40 | 20 | 60 70 |
| RB-350 | 210 | 95 | AR | C | BA | 310 | 390 | 30 | 10 | 0.002 | | 40 | 20 | 60 70 |
| RB-430 | 210 | 95 | AR | C | BA | 390 | 470 | 30 | 10 | 0.002 | | 40 | 20 | 60 70 |
| SK-127 | 37 | 20 | NA | | MG | | 72 | 1 | 20 | 1 | | | | |
| SK-220 | 37 | 20 | HE | | | | 140 | <1 | 20 | 1 | | | | |
| 4378D | 62 | 17 | | C | BA | | 100 | | | | | | 100 | 60 70 |

## Group XXIII – DECATRONS

| Type No. | | Kind | Voltages Maximum $E_b$ V | Firing V | Bias V | Drp V | Typical Oper V | $K_1K_2$ V | Typ $I_b$ mA | Pulse Typ Time μs | Pulse Max Rate KHz | Dimen Lth mm | Dimen Dia mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0G-1 | | DEC | 450 | 300 | 150 | 15 | 150 | 50 | 1.3 | 40 | 8 | 77 | 34 |
| TNI-1.5 | | DEC | 160 | | | | 90 | | 1.5 | | | 35 | 10 |
| 0G-2 | | DEC | 450 | 300 | 150 | 15 | 150 | 50 | 1.3 | 60 | 3 | 77 | 34 |
| 0G-3 | * | DEC | 460 | 420 | 120 | 15 | 190 | 40 | 0.7 | 18 | 20 | 83 | 30 |
| 0G-4 | | DEC | 450 | 375 | 200 | 15 | 125 | 35 | 0.5 | 160 | | 76 | 30 |
| 0G-5 | | DEC | 400 | 350 | 120 | 20 | 175 | 60 | 1.3 | 35 | 10 | 74 | 34 |
| A101 | | DEC | 450 | 375 | 150 | | 125 | 40 | 0.5 | 200 | | 75 | 34 |

## Group XXIII–A – NUMERICAL INDICATORS

| Type No. | | Charac height mm | Viewing | Voltage Supply V | Voltage Arc V | Typ I mA | Switching s | Max temp °C |
|---|---|---|---|---|---|---|---|---|
| IN-1 | * | 18 | END | 200 | 130 | 2.8 | 1.0 | 100 |
| IN-2 | * | 9 | END | 200 | 130 | 1.8 | 1.0 | 100 |
| IN-4 | * | 18 | END | 200 | 160 | 2.8 | 1.0 | 100 |
| IN-8 | * | 18 | SIDE | 200 | 140 | 3.0 | 0.5 | 70 |
| IN-8-2 | * | 18 | SIDE | 200 | 140 | 3.0 | 0.5 | 70 |
| IN-12A | * | 18 | END | 200 | 170 | 2.8 | 1.0 | 70 |
| IN-12B | * | 18 | END | 200 | 170 | 2.8 | 1.0 | 70 |
| IN-14 | * | 18 | SIDE | 200 | 170 | 2.8 | 1.0 | 70 |

## Group XXIV – LIGHT AMPLIFIERS

| Type No. | Kind | K | Scrn color | Max dimen K mm | Max dimen Screen mm | Max dimen Screen mm | Amp $\mu$ | Typ $E_b$ V | Resol $10^{-3}$ | Resol Line per mm |
|---|---|---|---|---|---|---|---|---|---|---|
| LIM-3 | LAM | CSB | VB | 15 | 65 | 20 | 2 | 18 | 8 | 70 |
| LIM-4 | LAM | CSB | VB | 15 | 135 | 40 | 4 | 18 | 9 | 70 |

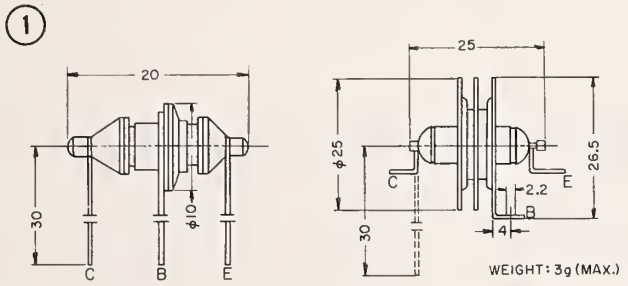
| Base No. | Section 1 | | | | | | | | | | Section 2 | | | | | | | $A_3$ | Sec 4 | | $A_5$ | Deflection 1 | | | | Deflection 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | H | K | $g_1$ | $g_2$ | $g_3$ | $g_4$ | $g_5$ | A | Sh | H | H | K | $g_1$ | $g_2$ | $g_3$ | A | | K | A | | $D_1$ | $D_2$ | $D_3$ | $D_4$ | $D_1$ | $D_2$ | $D_3$ | $D_4$ |
| A4 | 2 | 4 | 3 | 1 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| A7 | 1 | 7 | 6 | 5 | | | | | 2 | | | | | | | | 3 | CP | | | | | | | | | | | |
| A8 | 2 | 8 | 7 | 5 | | | | | 3 | | | | | | | | CP | | | | | | | | | | | | |
| A9 | 2 | 7 | 6 | 4 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| A12 | 1 | 12 | 2 | 3 | | | | | 8 | | | | | | | | 4 | | | | | 6 | 9 | 10 | 7 | | | | |
| A14 | 1 | 14 | 2 | 3 | | | | | 9 | | | | | | | | 5 | CP | | | | CP | CP | CP | CP | | | | |
| A20 | 1 | 20 | 3 | 5 | 16 | | | | 11 | | | | | | | | CP | | | | | CP | CP | CP | CP | | | | |
| A25 | 1 | 25 | 2 | 24 | 6 | | | | 23 | | 13 | 14 | | 12 | | | 11 | | | | | 20 | 5 | 4 | 21 | 17 | 9 | 8 | 18 |
| B7 | 3 | 4 | 2 | 5 | 7 | | | | 6 | | | | | | | | CP | | | | | | | | | | | | |
| BT7 | 1 | 7 | 4 | 2 | 3 | | | | CP | | | | | 6 | | | CP | | | | | | | | | | | | |
| B8 | 1 | 8 | 3 | 6 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| B9 | 3 | 9 | 1 | 8 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| B12 | 1 | 12 | 11 | 2 | 10 | | | | 6 | | | | | | | | CP | | | | | | | | | | | | |
| B14 | 1 | 14 | 2 | 3 | | | | | 9 | | | | | | | | 5 | CP | | CP | CP | 10 | 7 | 8 | 11 | | | | |
| C8 | 1 | 8 | 7 | 2 | 6 | | | | 4 | | | | | | | | CP | | | | | | | | | | | | |
| C14 | 1 | 14 | 13 | 12 | CP | | | | CP | | | | | | | | | | | | | | | | | | | | |
| D7 | 1 | 3 | 1 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| D8 | 2 | 8 | 6 | 4 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| D9 | 4 | 5 | CP | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| D10 | 1 | 5 | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| D12 | 1 | 3 | 2 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| D13 | | | 2 | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| D14 | 1 | 14 | 2 | 3 | 4 | | | | 5 | | | | | | | | CP | CP | | CP | CP | CP | CP | CP | CP | | | | |
| D15 | 2 | 3 | 4 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| DS1 | 4 | 5 | 5 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| DS2 | 2 | 7 | 2 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| DS3 | 1 | 5 | 5 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| DS4 | 2 | 7 | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| DS5 | 1 | 2 | 1 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| DS6 | 2 | 5 | | | | | | | | | 5 | 7 | | | | | | | | | | | | | | | | | |
| DS7 | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DS8 | 7 | 8 | 3 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| DS9 | 1 | 2 | CP | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| DT7 | 1 | 3 | 1 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| DW1 | 2 | 8 | | | | | | | 4 | | | | | | | | 6 | | | | | | | | | | | | |
| DW2 | 1 | 2 | 8 | | | | | | 4 | | | | | | | | 5 | | | | | | | | | | | | |
| DW3 | 1 | 8 | 3 | | | | | | 2 | 4 | | | | | | | 6 | | | | | | | | | | | | |
| DW4 | 2 | 8 | 8 | | | | | | 4 | | | | | | | | 6 | | | | | | | | | | | | |
| DW5 | 2 | 6 | 3 | | | | | | 1 | 4 | | | | | | | 7 | | | | | | | | | | | | |
| DW6 | 3 | 4 | 5 | | | | | | 7 | | | | | | | | 1 | | | | | | | | | | | | |
| DW7 | 2 | 7 | 8 | | | | | | 3 | | | | | | | | 5 | | | | | | | | | | | | |
| DW8 | 1 | 3 | 2 | | | | | | 4 | | | | | | | | 5 | | | | | | | | | | | | |
| DW9 | 3 | 4 | 1 | | | | | | 7 | | | | | | | | 2 | | | | | | | | | | | | |
| F8 | 1 | 8 | 7 | 6 | 3 | | | | 5 | | | | | | | | | | | | | | | | | | | | |
| G8 | 1 | 8 | | 6 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| ID1 | 4 | 5 | 2 | 1 | | | | | 7 | | | | | | | | 3 | | | | | | | | | | | | |
| ID2 | 4 | 5 | 3 | 1 | | | | | 7 | | | | | | | | 2 | | | | | | | | | | | | |
| ID3 | 4 | 5 | 7 | 8 | | | | | 1 | | | | | 6 | | | 3 | 9 | | | | | | | | | | | |
| P1S | 4 | 5 | 3 | 2 | 9 | 1 | | | 7 | 1 | | | | | | | | | | | | | | | | | | | |
| P3S | 1 | 7 | 8 | 6 | 3 | 4 | | | 2 | 5 | | | | | | | | | | | | | | | | | | | |
| P4S | 1 | 7 | | 4 | 6 | 1 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P5S | 1 | 8 | | 2 | 3 | 5 | | | 6 | 7 | | | | | | | | | | | | | | | | | | | |
| P6S | 1 | 2 | | 3 | 4 | 6 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P7S | 1 | 7 | | 4 | 3 | 5 | | | 6 | | | | | | | | | | | | | | | | | | | | |
| P8S | 4 | 5 | | 3 | 1 | 6 | | | 7 | | | | | | | | | | | | | | | | | | | | |
| P9S | 4 | 8 | 1 | 2 | 3 | 5 | | | 6 | 7 | | | | | | | | | | | | | | | | | | | |
| P10 | 2 | 7 | 8 | CP | 4 | 1 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P11 | 1 | 2 | | 3 | CP | 6 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P12 | 1 | 6 | | 4 | 3 | 5 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P13 | 1 | 7 | | 4 | 3 | 5 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P14 | 2 | 7 | | 5 | 3 | 4 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P15 | 1 | 6 | 7 | CP | 3 | 5 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P16 | 4 | 5 | 7 | 8 | 3 | 2 | | | 7 | | | | | | | | | | | | | | | | | | | | |
| P17 | 4 | 5 | 3 | 9 | 1 | 8 | | | 6 | | | | | | | | | | | | | | | | | | | | |
| P18 | 8 | 9 | 3 | 5 | 2 | 4 | | | 1 | | | | | | | | | | | | | | | | | | | | |

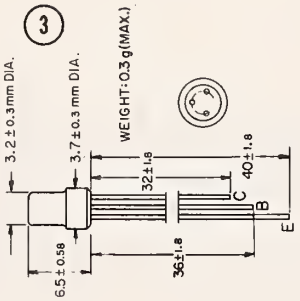
| Base No. | Section 1 | | | | | | | | | | Section 2 | | | | | | | $A_3$ | Sec 4 | | $A_5$ | Deflection 1 | | | | Deflection 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | H | K | $g_1$ | $g_2$ | $g_3$ | $g_4$ | $g_5$ | A | Sh | H | H | K | $g_1$ | $g_2$ | $g_3$ | A | | K | A | | $D_1$ | $D_2$ | $D_3$ | $D_4$ | $D_1$ | $D_2$ | $D_3$ | $D_4$ |
| P19 | 2 | 7 | | 4 | 5 | 3 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P20 | 4 | 5 | 1 | 2 | 8 | 9 | | | 7 | | | | | | | | | | | | | | | | | | | | |
| P21 | 4 | 5 | 3 | 1 | 6 | 3 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P22 | 2 | 6 | 1 | 7 | 3 | 8 | | | 4 | | | | | | | | | | | | | | | | | | | | |
| P23 | 2 | 7 | 3 | 5 | 8 | 3 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| P24 | 4 | 9 | 1 | 7 | 2 | 1 | | | 10 | | | | | | | | | | | | | | | | | | | | |
| P25 | 4 | 5 | 9 | 1 | 7 | 2 | 8 | | 3 | | | | | | | | | | | | | | | | | | | | |
| P26 | 4 | 9 | 1 | 10 | 6 | 1 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| P27 | 2 | 6 | 3 | 4 | 5 | 3 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| P28 | 2 | 4 | 6 | 7 | 1 | 6 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| P29 | 3 | 4 | 6 | 7 | 2 | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| P30 | 3 | 6 | 4 | 1 | 7 | 4 | | | 5 | | | | | | | | | | | | | | | | | | | | |
| P31 | 4 | 5 | 7 | 1 | 2 | 8 | | | 6 | | | | | | | | | | | | | | | | | | | | |
| P32 | 4 | 5 | 9 | 6 | 7 | 1 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| P33 | 4 | 5 | 1 | 2 | 9 | 8 | | | 7 | 8 | | | | | | | | | | | | | | | | | | | |
| P34 | 4 | 5 | 6 | 7 | 3 | 8 | 2 | | 1 | | | | | | | | | | | | | | | | | | | | |
| P35 | 4 | 5 | 3 | 2 | 8 | 9 | 1 | 3 | 6 | | | | | | | | 7 | | | | | | | | | | | | |
| P36 | 4 | 9 | 1 | 10 | 6 | 7 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| P37 | 4 | 5 | 6 | 8 | 1 | 7 | 3 | 2 | 9 | | | | | | | | | | | | | | | | | | | | |
| P38 | 4 | 5 | | 7 | 2 | 1 | | | CP | | | | | | | | | | | | | | | | | | | | |
| P39 | 3 | 7 | 4 | CP | 5 | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| P40 | 4 | 5 | 3 | 2 | 1 | 3 | | | 9 | | | | | | | | | | | | | | | | | | | | |
| P41 | 3 | 10 | 12 | 7 | 4 | 12 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| PD3 | 4 | 5 | 1 | 2 | 9 | 7 | | | 6 | | | | | | | | 8 | | | | | | | | | | | | |
| PD5 | 2 | 7 | 1 | 5 | 4 | 1 | | | 3 | | | | | | | | 6 | | | | | | | | CP | | | | |
| PD6 | 2 | 7 | 8 | CP | 6 | 1 | | | 3 | | | | | | | | 4 | 5 | | | | | | | | | | | |
| PD7 | 4 | 5 | 2 | 1 | 7 | 2 | | | 6 | | | | | 3 | | 2 | 8 | | | | | | | | | | | | |
| PD8 | 6 | 8 | 3 | 1 | 2 | 3 | | | CP | | | | | 5 | | 3 | CP | | | | | | | | | | | | |
| PD9 | 4 | 5 | 6 | 7 | 3 | 6 | | | 1 | | | | | | | | 9 | | | | | | | | | | | | |
| PS1 | 1 | 8 | 6 | 7 | 5 | 2 | | | 3 | 4 | | | | | | | | | | | | | | | | | | | |
| PS2 | 1 | 7 | | 6 | 3 | 4 | | | 2 | 5 | | | | | | | | | | | | | | | | | | | |
| PS3 | 1 | 8 | | 7 | 5 | 4 | | | 3 | 2 | | | | | | | | | | | | | | | | | | | |
| PS4 | 4 | 5 | | 3 | 7 | 1 | | | CP | 2 | | | | | | | | | | | | | | | | | | | |
| PS5 | 4 | 5 | 6 | 7 | 3 | 2 | | | 1 | | | | | | | | 9 | | | | | | | | | | | | |
| PS6 | 1 | 7 | | 4 | 6 | 2 | | | CP | | | | | | | | | | | | | | | | | | | | |
| PS7 | 2 | 7 | 8 | 5 | 4 | 8 | | | CP | | | | | | | | | | | | | | | | | | | | |
| PS8 | 2 | 7 | | 4 | 5 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| PS9 | 4 | 5 | 3 | 7 | 2 | 3 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| PT1 | 3 | 5 | | 2 | 1 | 6 | | | 4 | | 5 | 7 | | 8 | | | 9 | | | | | | | | | | | | |
| PT2 | 7 | 8 | 6 | CP | 3 | 6 | | | 2 | | | | | 5 | | | 4 | | | | | | | | | | | | |
| PT3 | 2 | 7 | 8 | 1 | 4 | 8 | | | 6 | | | | | 5 | | | 3 | | | | | | | | | | | | |
| PT4 | 4 | 5 | 7 | 8 | 9 | 7 | | | 6 | 7 | | | | 1 | | | 2 | | | | | | | | | | | | |
| PT5 | 4 | 5 | 2 | 3 | 7 | 2 | | | 6 | 2 | | | | 1 | | | 9 | | | | | | | | | | | | |
| PT6 | 4 | 5 | 8 | 9 | 7 | 8 | | | 6 | | | | | 2 | | | 1 | | | | | | | | | | | | |
| PT7 | 4 | 5 | 7 | 6 | 8 | 7 | | | 3 | 7 | | | | 1 | | | 9 | | | | | | | | | | | | |
| PT8 | 4 | 5 | 7 | 2 | 3 | 7 | | | 6 | | | | | 9 | | | 1 | | | | | | | | | | | | |
| T1E | 4 | 5 | 1 | 2 | 9 | | | | 7 | 8 | | | | | | | | | | | | | | | | | | | |
| T1S | 1 | 4 | | 3 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| T2E | 4 | 5 | 1 | 8 | CP | | | | 9 | | | | | | C | | 3 | | | | | | | | | | | | |
| T2S | 4 | 5 | 1 | 2 | | | | | 7 | | | | | | | | | | | | | | | | | | | | |
| T3E | 10 | 12 | 7 | 4 | 1 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| T3S | 1 | 4 | 5 | 3 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| T4S | 4 | 5 | 1 | 8 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| T10 | 2 | 6 | | 5 | | | | | 7 | | | | | | | | | | | | | | | | | | | | |
| T11 | 1 | 7 | 2 | 4 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| T12 | 3 | 7 | 4 | 2 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| T13 | 2 | 7 | 1 | 8 | | | | | 5 | | | | | | | | | | | | | | | | | | | | |
| T14 | 5 | 10 | 1 | 3 | | | | | 7 | | | | | | | | | | | | | | | | | | | | |
| T15 | 4 | 5 | 1 | 9 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| T16 | 1 | 7 | 3 | 5 | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| T17 | 1 | 6 | 3 | 7 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| T19 | 3 | 8 | 2 | 4 | | | | | 1 | 5 | | | | 9 | | | 6 | | | | | | | | | | | | |
| T20 | 3 | 9 | 1 | 2 | 4 | | | | 5 | 6 | | | | 8 | 1 | | 11 | | | | | | | | | | | | |
| T21 | 5 | 10 | 1 | 3 | | | | | 4 | 2 | | | | 8 | | | 9 | | | | | | | | | | | | |
| T22 | 3 | 4 | 2 | 5 | 1 | | | | 6 | | | | | | | | | | | | | | | | | | | | |

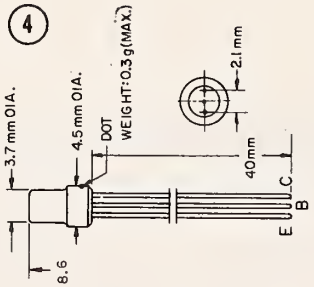
| Base No. | Section 1 | | | | | | | | | | Section 2 | | | | | | | $A_3$ | Sec 4 | | $A_5$ | Deflection 1 | | | | Deflection 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | H | K | $g_1$ | $g_2$ | $g_3$ | $g_4$ | $g_5$ | A | Sh | H | H | K | $g_1$ | $g_2$ | $g_3$ | A | | K | A | | $D_1$ | $D_2$ | $D_3$ | $D_4$ | $D_1$ | $D_2$ | $D_3$ | $D_4$ |
| T23 | 3 | 4 | 2 | 1 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| T24 | | | 1 | 4 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| T25 | 4 | 8 | 2 | 5 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| T26 | 4 | 8 | 6 | 3 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| T27 | 4 | 8 | 6 | 1 | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| T28 | 5 | 7 | 1 | 3 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| T29 | 2 | 4 | | 3 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| T30 | 1 | 2 | | 5 | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| T31 | 2 | 3 | 5 | 4 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| T32 | 10 | 12 | 7 | 4 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| TD1 | 4 | 8 | 6 | 7 | | | | | 1 | | | | | 3 | | | 5 | | | | | | | | | | | | |
| TD3 | 2 | 7 | 8 | CP | | | | | 3 | | | | | | | | 4 | 5 | | | | | | | | | | | |
| TD6 | 3 | 8 | 2 | 4 | | | | | 1 | | | | | 9 | | | 6 | | | | | | | | | | | | |
| TE1 | 1 | 6 | 4 | 8 | 5 | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| TE2 | 1 | 7 | | 2 | CP | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| TE3 | 4 | 5 | | 8 | 2 | | | | 3 | | | | | | C | | 9 | | | | | | | | | | | | |
| TE4 | 1 | 3 | | 2 | 4 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TE5 | 1 | 3 | | 4 | 2 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TE6 | 2 | 7 | | 5 | 4 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TE7 | 1 | 7 | 7 | 3 | 6 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TE8 | 1 | 2 | 5 | 6 | 9 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TE9 | 4 | 5 | 1 | 9 | 8 | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TS1 | 1 | 7 | | 5 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| TS2 | 2 | 3 | | 4 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| TS3 | 1 | 3 | 2 | 6 | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| TS4 | 4 | 5 | 3 | 2 | | | | | 9 | | | | | | | | | | | | | | | | | | | | |
| TS5 | 2 | 7 | 8 | CP | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TS6 | 2 | 6 | 3 | 5 | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| TS7 | 4 | 5 | 9 | 2 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| TS8 | 2 | 7 | 1 | 5 | | | | | CP | 3 | | | | | | | | | | | | | | | | | | | |
| TS9 | 2 | 7 | | CP | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| TT1 | 4 | 5 | 7 | 8 | | | | | 9 | | | | | | | | 1 | 6 | 3 | 2 | | | | | | | | | |
| 4AC | 2 | 7 | 7 | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| 4AJ | | | 2 | | | | | | 5 | 3 | | | | | | | | | | | | | | | | | | | |
| 4BB | 2 | 7 | 8 | CP | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| 4BQ | 2 | 7 | 8 | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 4D | 1 | 4 | | 3 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4F | 1 | 3 | | 4 | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4G | 1 | 4 | 3 | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4T2 | 1 | 2 | | 4 | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| 5AA | 2 | 7 | 8 | | | | | | 5 | | | | | | | | | | | | | | | | | | | | |
| 5AW | 1 | 5 | 4 | 3 | 2 | 4 | | | CP | | | | | | | | | | | | | | | | | | | | |
| 5BT | 2 | 7 | 3 | 5 | 8 | 3 | | | CP | | | | | | | | | | | | | | | | | | | | |
| 5CL | 3 | 5 | | 4 | 2 | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 5F | 1 | 5 | 4 | CP | 3 | 4 | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 5M | 2 | 7 | 8 | CP | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 5S | 2 | 7 | | 5 | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 5Y | 2 | 7 | | CP | 4 | 7 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 6AR | 1 | 7 | | 6 | 3 | 5 | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 6AU | 1 | 7 | | 6 | 4 | 1 | | | 5 | | | | | | | | | 3 | | | | | | | | | | | |
| 6BT | 3 | 4 | 5 | | | | | | 2 | 6 | | | | | | | 7 | | | | | | | | | | | | |
| 6BY | 2 | 7 | 3 | CP | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| 6CC | 3 | 4 | 2 | 1 | 6 | 2 | | | 5 | | | | | | | | | | | | | | | | | | | | |
| 6F | 1 | 6 | 5 | CP | 3 | 4 | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 6Q | 2 | 7 | 8 | 5 | | | | | 3 | 1 | | | | | | | | | | | | | | | | | | | |
| 6X | 2 | 7 | | 5 | 4 | 7 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 7AB | 2 | 7 | | 4 | | | | | 3 | | | | | 5 | | | 6 | | | | | | | | | | | | |
| 7AT | 1 | 7 | | 4 | 3 | 6 | 3 | 1 | 2 | | | | | | | | | | | | | | | | | | | | |
| 7AV | 1 | 7 | | 3 | 4 | 5 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 7BA | 1 | 7 | | 3 | 4 | 5 | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 7BD | 3 | 4 | 2 | 1 | 6 | 7 | | | 5 | | | | | | | | | | | | | | | | | | | | |
| 7BF | 3 | 4 | 7 | 5 | | | | | 2 | | | | | 6 | | | 1 | | | | | | | | | | | | |
| 7BK | 3 | 4 | 7 | 1 | 6 | 2 | | | 5 | | | | | | | | | | | | | | | | | | | | |
| 7BP | 1 | 7 | 4 | 2 | 3 | 4 | | | CP | | | | | 6 | | 4 | CP | | | | | | | | | | | | |
| 7BQ | 3 | 4 | 2 | 1 | | | | | 7 | | | | | | | | | | | | | | | | | | | | |

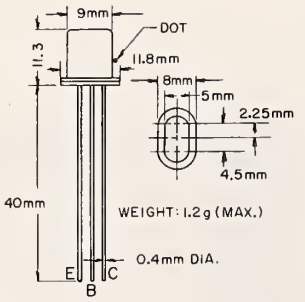
## Group XXV – BASES – Continued.

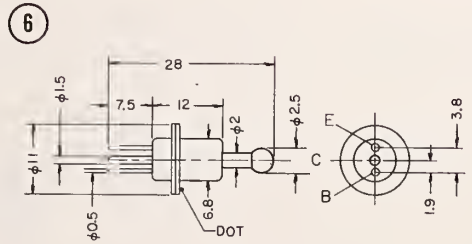
| Base No. | Section 1 | | | | | | | | | | Section 2 | | | | | | | $A_3$ | Sec 4 | | $A_5$ | Deflection 1 | | | | Deflection 2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | H | K | $g_1$ | $g_2$ | $g_3$ | $g_4$ | $g_5$ | A | Sh | H | H | K | $g_1$ | $g_2$ | $g_3$ | A | | K | A | | $D_1$ | $D_2$ | $D_3$ | $D_4$ | $D_1$ | $D_2$ | $D_3$ | $D_4$ |
| 7BS | 3 | 4 | 2 | 6 | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 7CH | 3 | 4 | 2 | 1 | 6 | 7 | 6 | 2 | 5 | | | | | | | | | | | | | | | | | | | | |
| 7CM | 3 | 4 | 2 | 1 | 6 | 7 | | | 5 | | | | | | | | | | | | | | | | | | | | |
| 7DF | 3 | 4 | 1 | 2 | 5 | 6 | | | 7 | | | | | | | | | | | | | | | | | | | | |
| 7DN | | | 2 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 7EM | 3 | 4 | 2 | 1 | 5 | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 7R | 2 | 7 | 8 | CP | 4 | 5 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 7S | 2 | 7 | 8 | 5 | 4 | 8 | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 7T | 2 | 7 | 8 | CP | 4 | 5 | 4 | 8 | 3 | | | | | | | | | | | | | | | | | | | | |
| 7Z | 2 | 7 | | 5 | 6 | 4 | CP | 4 | 3 | | | | | | | | | | | | | | | | | | | | |
| 8A | 2 | 7 | 8 | 5 | 6 | 4 | CP | 4 | 3 | | | | | | | | | | | | | | | | | | | | |
| 8AN | 2 | 7 | 4 | | | | | | 3 | 1 | | | | | | | 5 | | | | | | | | | | | | |
| 8B | 2 | 7 | 8 | 4 | | | | | 3 | | | | | 5 | | | 6 | | | | | | | | | | | | |
| 8BD | 7 | 8 | 3 | 1 | | | | | 2 | | | | | 4 | | | 5 | | | | | | | | | | | | |
| 8BE | 7 | 8 | 2 | 1 | | | | | 3 | | | | | 5 | | | 6 | | | | | | | | | | | | |
| 8BK | 2 | 7 | 3 | 4 | 6 | 3 | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 8CJ | 1 | 9 | 2 | 3 | | | | | 4 | 5 | | | | 7 | | | 6 | | | | | | | | | | | | |
| 8E | 2 | 7 | 8 | CP | 6 | 8 | | | 3 | | | | | | | | 4 | 5 | | | | | | | | | | | |
| 8ES | 2 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8HC | 2 | 7 | | | | | | | CP | | | | | | | | | | | | | | | | | | | | |
| 8N | 2 | 7 | 5 | 4 | 6 | 3 | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 8Q | 7 | 8 | 3 | 2 | | | | | 6 | | | | | | | | 4 | 5 | | | | | | | | | | | |
| 8R | 2 | 7 | 6 | 5 | 4 | 8 | 4 | 1 | 3 | | | | | | | | | | | | | | | | | | | | |
| 8S | 7 | 8 | 6 | 3 | | | | | 2 | | | | | 4 | | | 5 | | | | | | | | | | | | |
| 8T1 | 3 | 4 | 2 | 1 | 5 | | | | 7 | | | | | | | | | | | | | | | | | | | | |
| 8T2 | 2 | 7 | 8 | 5 | 6 | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 8T3 | 2 | 7 | 8 | 5 | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| 8Y | 2 | 7 | 5 | 4 | 6 | 1 | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 9AE | 4 | 5 | 7 | 2 | 3 | 7 | | | 6 | | | | | 9 | | | 1 | | | | | | | | | | | | |
| 9AJ | 4 | 5 | 3 | 2 | | | | | 1 | 9 | | | | 7 | | | 6 | | | | | | | | | | | | |
| 9BD | 4 | 5 | CP | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 9CA | 4 | 5 | 3 | 2 | 1 | 7 | 1 | 3 | 6 | | | | | 9 | | | 8 | | | | | | | | | | | | |
| 9CB | 4 | 5 | CP | | | | | | 9 | | | | | | | | | | | | | | | | | | | | |
| 9CV | 4 | 5 | 3 | 2 | 9 | 3 | | | 7 | | | | | | | | | | | | | | | | | | | | |
| 9DD | 4 | 5 | 1 | 2 | | | | | 3 | | | | | 6 | | | 9 | | | | | | | | | | | | |
| 9EQ | 4 | 5 | 1 | 2 | 9 | 8 | | | 7 | | | | | | | | | | | | | | | | | | | | |
| 10T | 1 | 10 | 5 | 2 | 6 | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 11L | 1 | 11 | 2 | 10 | | | | | 7 | | | | | | | | 4 | | | | | 3 | 6 | 9 | 8 | | | | |
| 14A | 1 | 14 | 2 | 3 | | | | | 4 | | | | | | | | 9 | | | | | | | | | 10 | 11 | 7 | 8 |
| 14G | 1 | 14 | 2 | 3 | | | | | 9 | | | | | | | | 5 | | | | | 11 | 7 | 8 | 10 | | | | |
| 14J | 1 | 14 | 2 | 3 | | | | | 9 | | | | | | | | 5 | CP | | | | 10 | 7 | 8 | 11 | | | | |

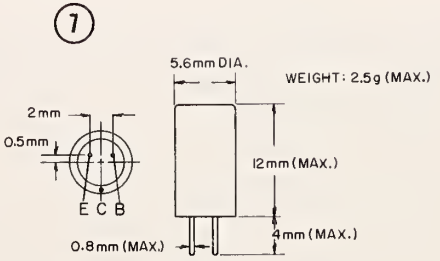


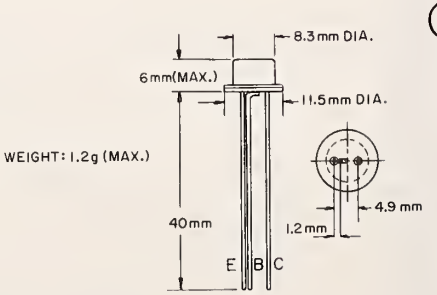



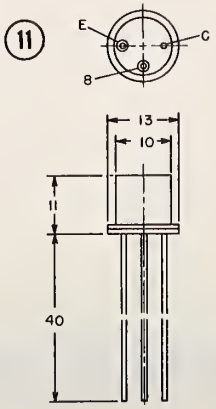



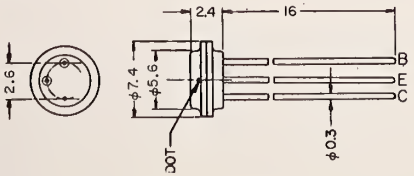
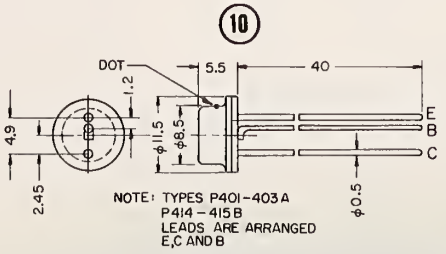
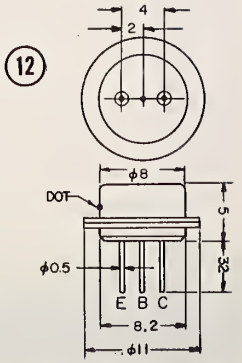




FIG. 9A LEADS ARE ARRANGED E, C AND B DOWNWARD



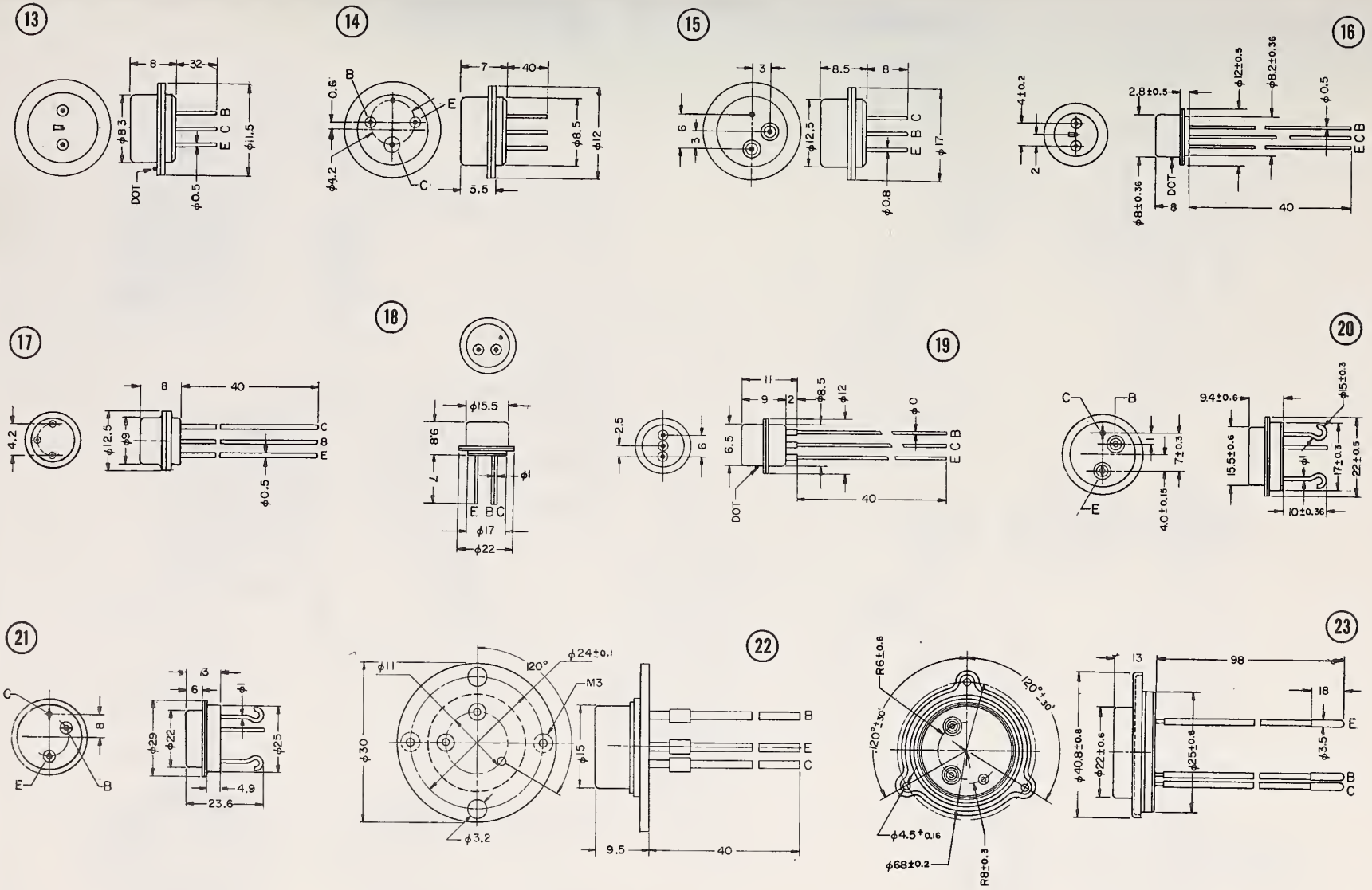

NOTE: TYPES P401-403A
P414-415B
LEADS ARE ARRANGED
E, C AND B




NOTE: TYPES GT 308, GT 311
AND GT 313
LEADS ARE ARRANGED
E, C AND B

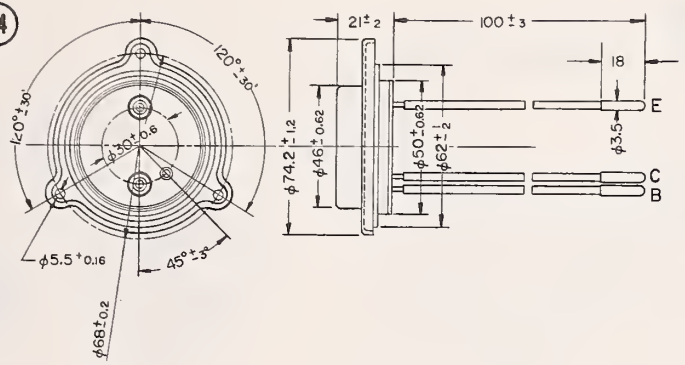
# TRANSISTOR OUTLINE DRAWINGS

## GROUP X




# TRANSISTOR OUTLINE DRAWINGS
(CON'T)

(24)

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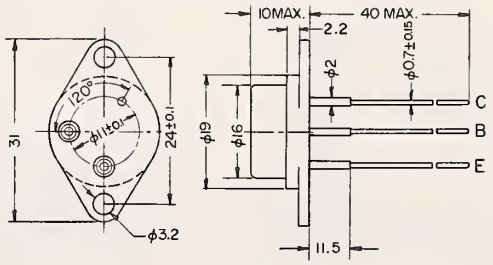


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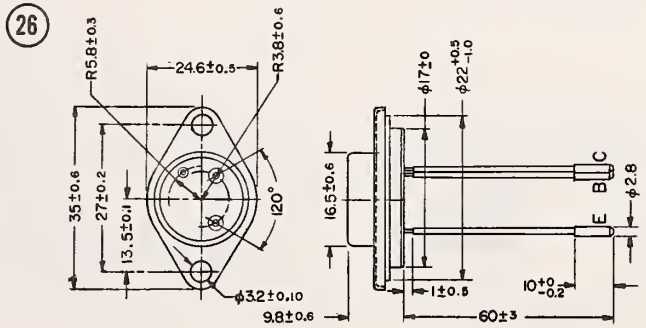


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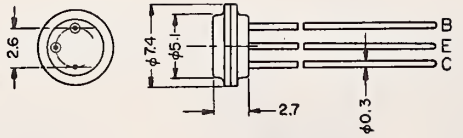


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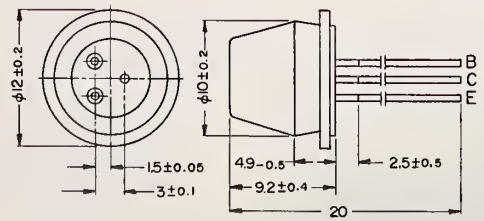


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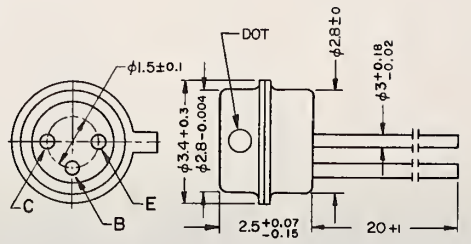
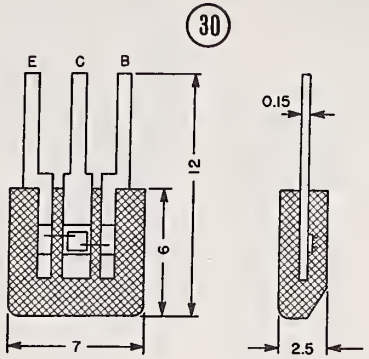
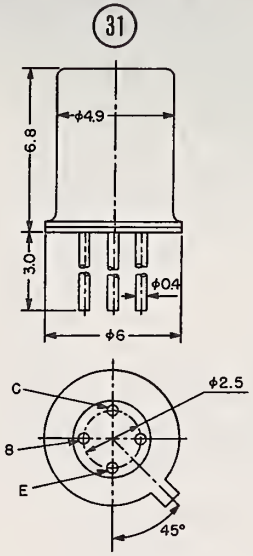
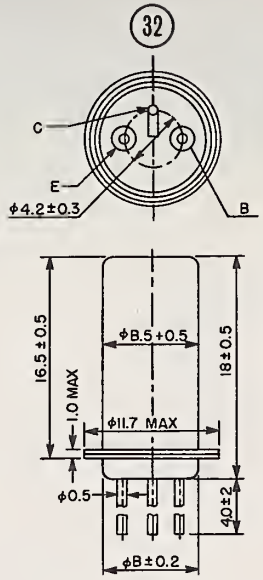
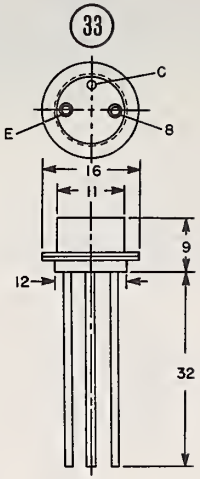


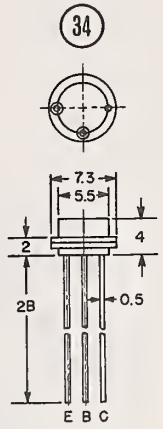

# TRANSISTOR OUTLINE DRAWINGS

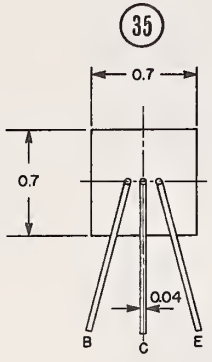


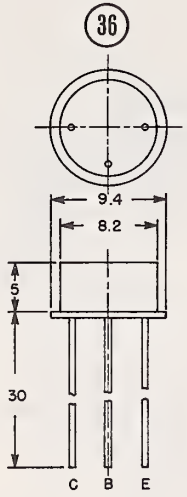



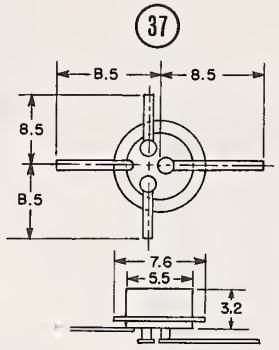



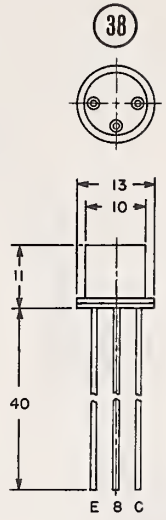



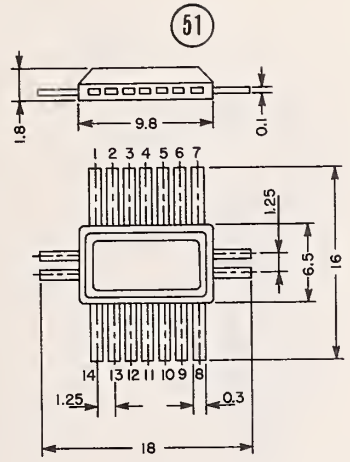



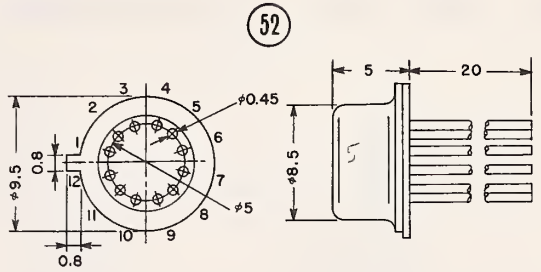



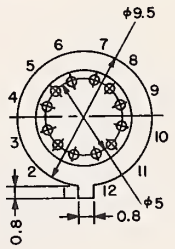



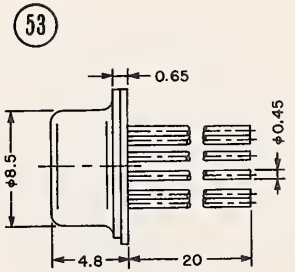



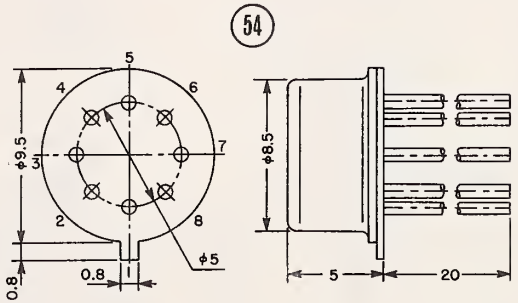

# TRANSISTOR OUTLINE DRAWINGS

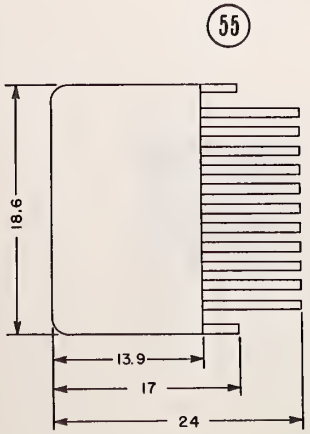


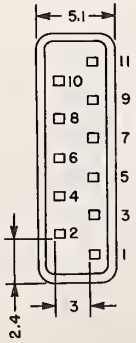



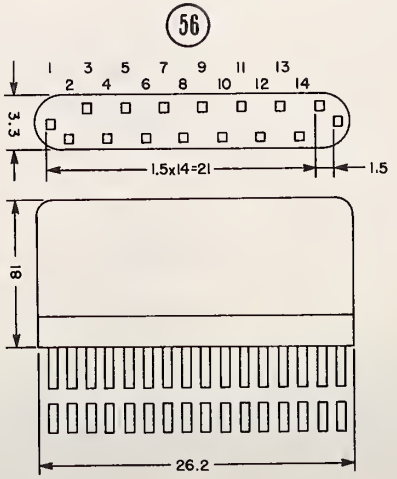



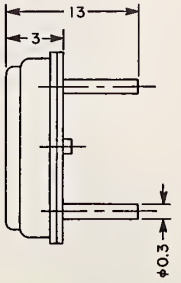



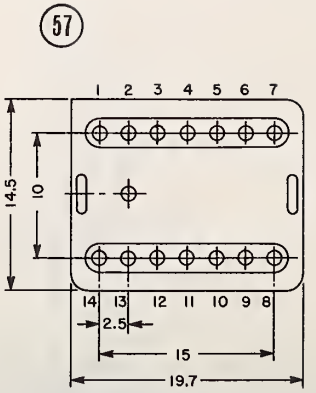



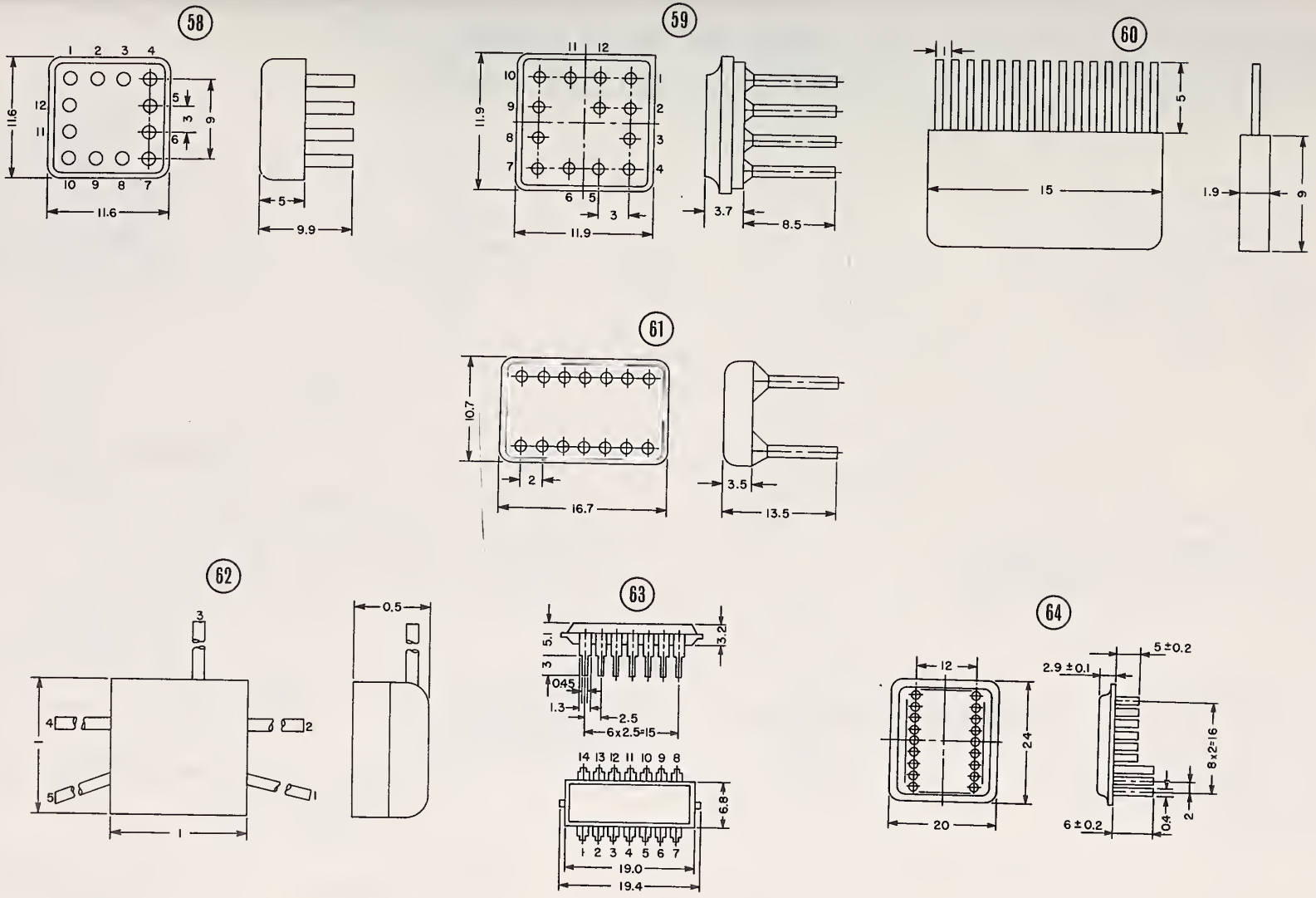




# INTEGRATED CIRCUITS

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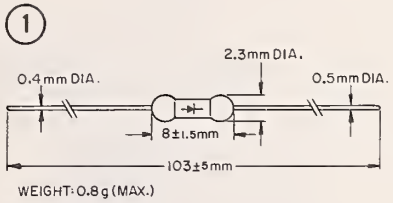
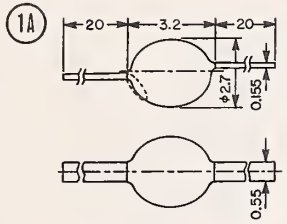
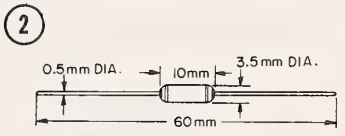
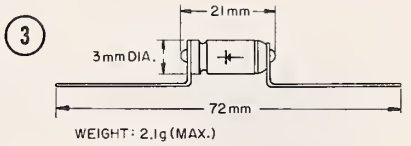
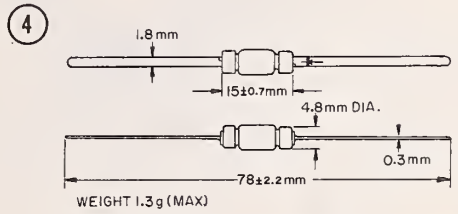
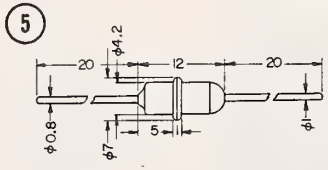


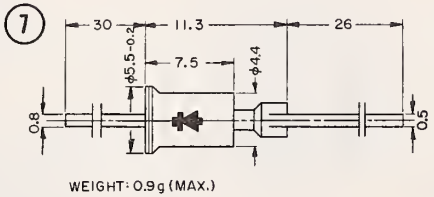



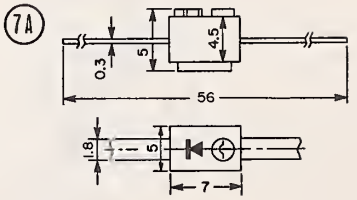



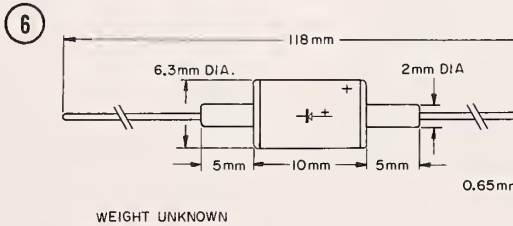



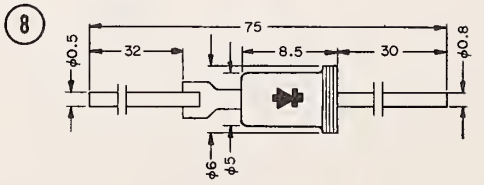



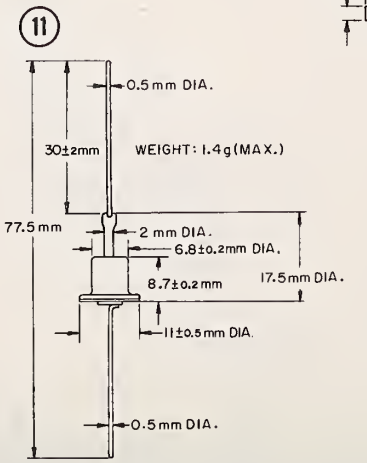



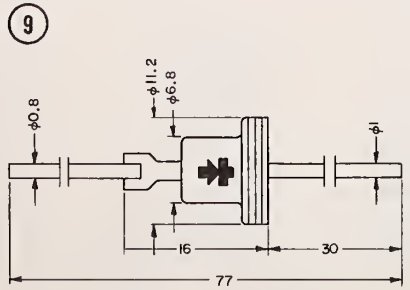



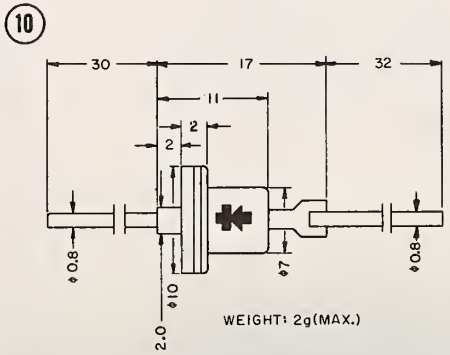



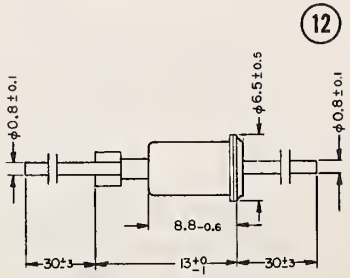



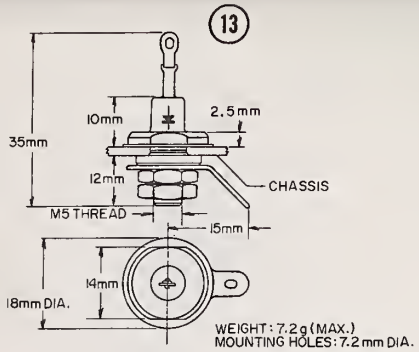



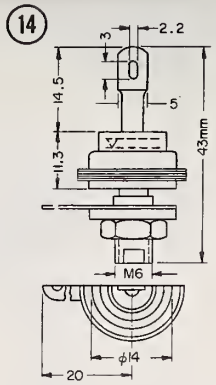



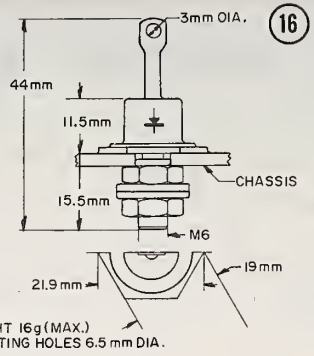



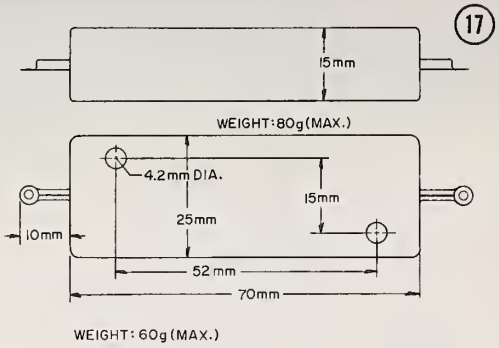

# DIODE OUTLINE DRAWINGS

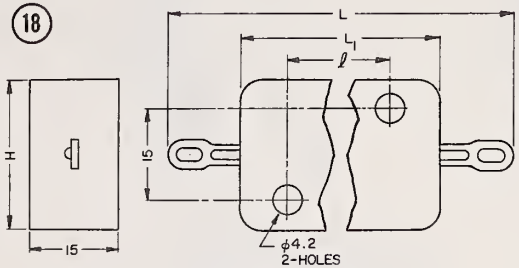
## GROUPS XI, XII, XIII & XIV



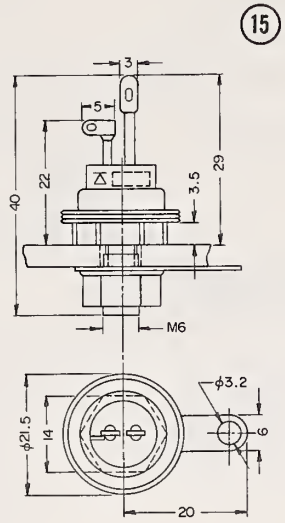



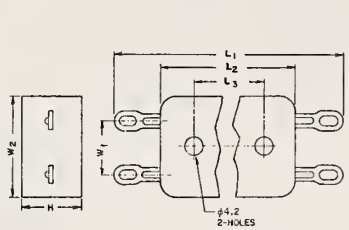



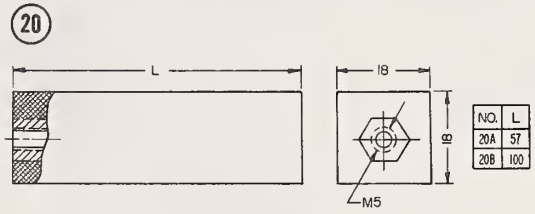




| NO. | H | L | $L_1$ | ℓ |
|---|---|---|---|---|
| 18A | 25 | 92 | 70 | 52 |
| 18B | 30 | 132 | 110 | 92 |

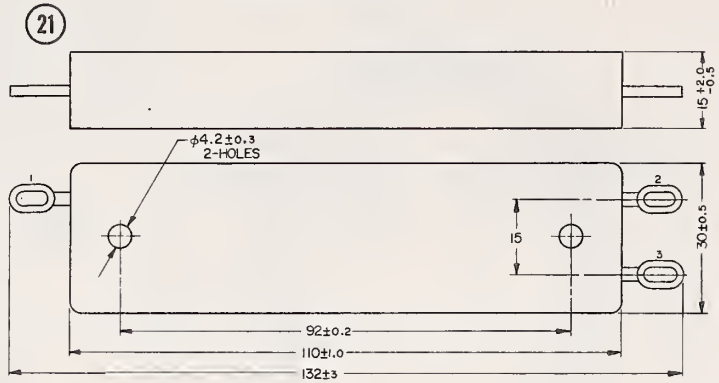


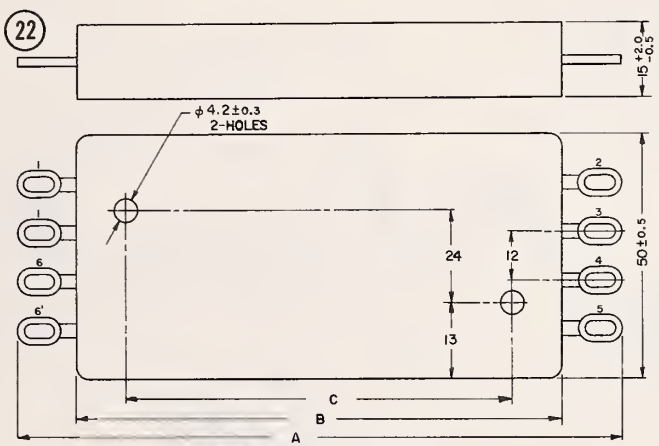

| | $L_1$ | $L_2$ | $L_3$ | $W_1$ | $W_2$ | H |
|---|---|---|---|---|---|---|
| 19A | 92 | 70 | 52 | 25 | 12 | 15 |
| 19B | 92 | 70 | 52 | 25 | 12 | 12 |
| 19C | 132 | 110 | 92 | 30 | 15 | 15 |



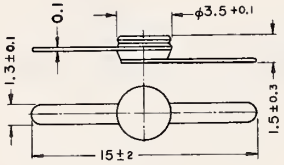

| NO. | L |
|---|---|
| 20A | 57 |
| 20B | 100 |

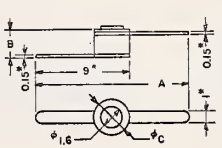



# DIODE OUTLINE DRAWINGS
(CON'T)

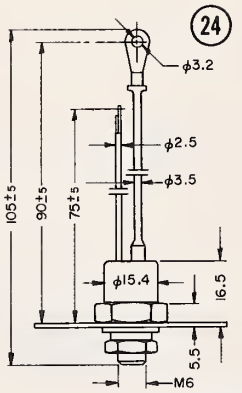


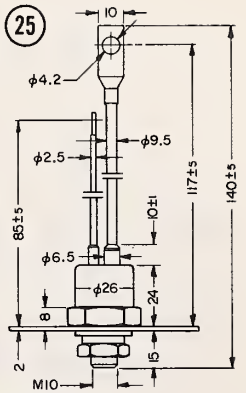

| No. | A | B | C |
|---|---|---|---|
| 22 | 62 ± 0.2 | 80 ±1.0 | 102 ± 3 |
| 22A | 74 — | 64 — | 52 — |



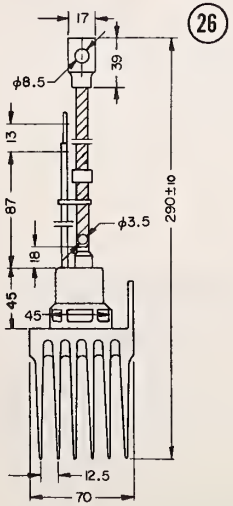



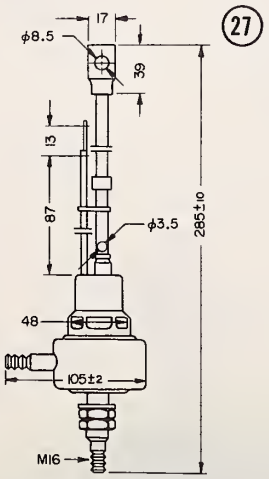

| No. | A | B | C |
|---|---|---|---|
| 23B | 17 | 1.9±0.3 | 2.8±0.2 |
| 23C | 18 | 2.0 — | 4.7 — |

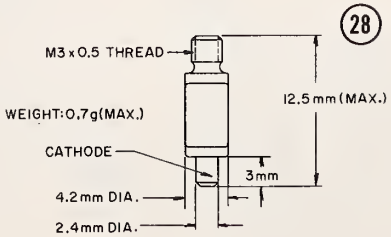


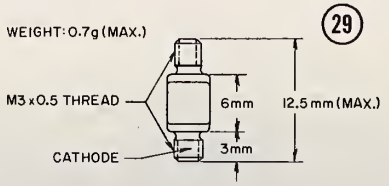



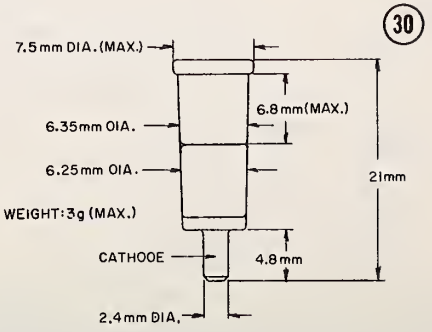

NOTE: SK1 & SK2 DIODES HAVE SAME DIMENSIONS EXCEPT FOR THE THIRD (CONTROL) LEAD



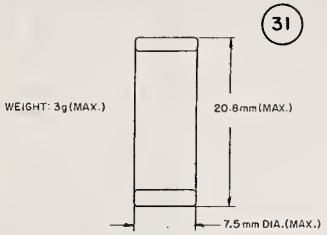



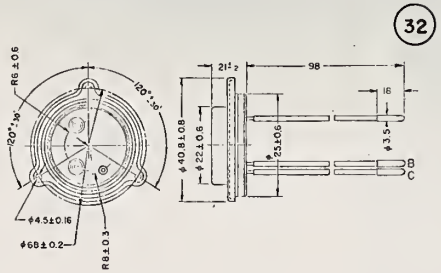



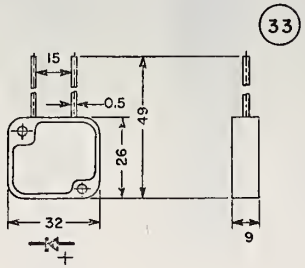



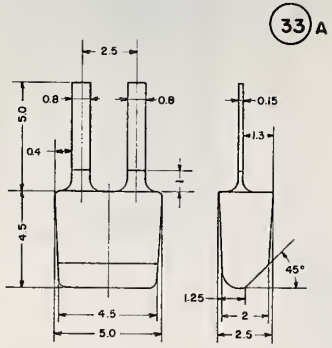



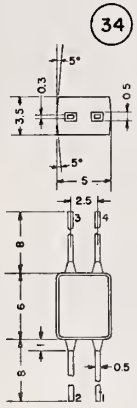

# DIODE OUTLINE DRAWINGS

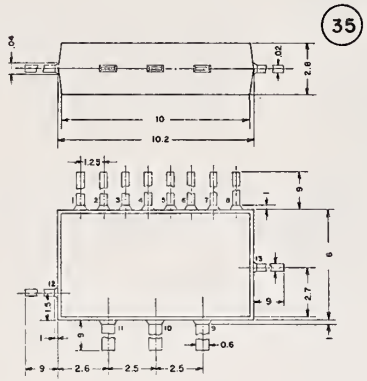


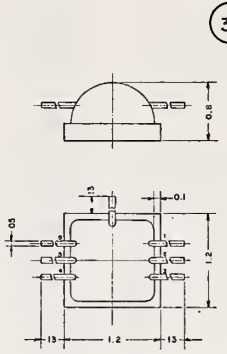



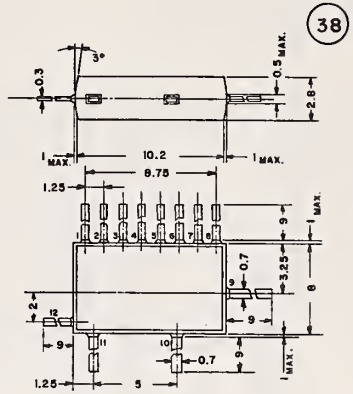



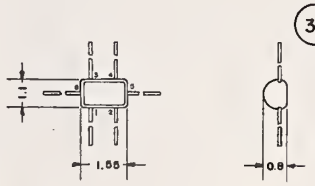

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This tabulation includes published data on U.S.S.R. electron devices as collected from publications, mostly handbooks, published by the various ministries and institutes of the U.S.S.R. Information is given on all active devices ranging from receiving to microwave devices, semiconductor devices, and miscellaneous devices such as photographic flash tubes and thermistors.

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215