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Tabulation of Published Data on Electron Devices of the U.S.S.R. Through December 1976

Charles P. Marsden

Electron Devices Division
Center for Electronics and
Electrical Engineering
National Bureau of Standards
Washington, DC 20234

December 1978

Final



U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

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PREFACE

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

This revision is the ninth in a series of Tabulations of Electron Devices of the U.S.S.R. published over the past 16 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, but we have no knowledge of the time lag between pilot or serial production and data publication.

Major additions of device types have been included in Group III on power tubes, in Group IX on microwave tubes, and in Group X-A on integrated circuits. The latter grouping has been subdivided into four groups as follows:

- Group X-A-1 Previously listed types (not found in current available published data)
- Group X-A-2 Computer types (logic or memory circuits)
- Group X-A-3 Drivers
- Group X-A-4 Linear circuits, such as operational amplifiers

This arrangement into four subgroups permits tabulation of more data in each subgroup.

A large number of new device types has also been added to Group VIII on cathode ray tubes, Group VIII-A on vidicons, and Group X on transistors. It should be noted that, for the first time, the number of silicon transistors outnumbers the germanium types as shown at the bottom of table I.

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 publication are books published by the institutes, export brochures, and data contained in magazines and journals.

Table I. Number of Devices in the Various Tabulations of U.S.S.R. Devices.

		NBS 6637	NBS 7481	TN186	TN265	TN441	TN526	TN715	TN835	NBSIR 78-1564
		1/60	4/62	6/63	10/65	10/67	12/69	6/72	6/74	11/78
I	Numerical	642	1,362	1,631	2,360	2,373	3,020	3,200	3,930	4,779
II	Receiving tubes ...	262	316	328	383	443	461	482	492	492
III	Power tubes	89	147	176	176	176	188	187	203	224
IV	Rectifier tubes		53	68	80	80	86	89	93	98
IV-A	Mechanotrons, two anode diode								7	7
V	Voltage regulator tubes ...	23		30	33	38	38	36	41	43
VI	Current regulator tubes ...	8		9	9	9	9	9	9	9
VII	Thyratrons	26	42	69	54	60	79	77	81	82
VIII	Cathode ray tubes .	59	87	100	109	115	157	154	141	191
VIII-A	Vidicons								31	60
IX	Microwave tubes ...	13	17	20	27	101	101	106	115	140
X	Transistors	77	125	160	265	296	438	418	521	780
X-A-1	Integrated circuits						317	317	723	234
X-A-2	Integrated circuits (computer)									615
X-A-3	Integrated circuits (driver)									27
X-A-4	Integrated circuits (linear)									10
X-B	Field effect							11	16	69
XI	Diodes - rectifier .	84	108	108	200	200	238	246	266	272
XI-A	Diodes - switching				16	16	16	16	16	16
XI-B	Diodes - tunnel				8	26	26	30	30	37
XI-C	Diodes - switch control				10	10	10	10	10	10
XI-D	Diodes - varactors				6	7	7	20	27	27
XI-E	Light emitting diodes								9	9
XI-F	Hall transducers								11	11
XI-G	Miscellaneous diodes						26	30	40	29
XII	Diodes - power rectifiers			29	29	29	29	29	25	28
XII-A	Silicon controlled devices - high power			40	56	68	68	40	45	27
XII-B	Silicon controlled devices - low power								7	7
XII-C	Silicon controlled rectifiers							26	50	50
XIII	Diodes - regulators		8	8	41	89	103	107	128	129
XIV	Diodes - mixer and detector		37	37	33	44	50	50	52	52
XV	Diodes - photoconductive devices		4	23	29	29	45	50	50	57
XVI	Photo and photomultiplier tubes		25	63	73	72	93	102	111	133
XVII	Flash tubes			12						
XVIII	Thermocouples		15	15	15	15	15	15	15	15
XIX	Thermistors	31	19	23	23	35	58	58	58	59
XX	Strobotrons		12	23	23	23	23	23	23	23
XXI	Counters		41	41	68	68	91	82	100	100
XXII	Discharge diodes			20	25	25	31	31	31	31
XXIII	Decatrons			4	4	8	9	7	11	11
XXIII-A	Character and numerical indicators							8	14	14
XXIV	Light amplifiers			2	2	2	2	2	2	2
XXV	Bases		164	162	173	212	225	235	239	241
	Total Devices	641	1,087	1,368	1,731	2,075	2,804	2,868	3,843	4,572
	Transistors, germanium	73	119	140	224	248	329	312	350	335
	Transistors, silicon	4	6	20	41	48	102	106	171	392

TABULATION OF PUBLISHED DATA ON ELECTRON DEVICES OF THE U.S.S.R. THROUGH DECEMBER 1976

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.

Key words: 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 has prepared the present publication in a format that has been reproduced directly from punched cards.

This publication is the ninth revision and is an expansion of Technical Note 835 published in November 1974.

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:

A	A	O	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	Ш	Sh
М	M	Э	E
Н	N	Я	Ja

3. Organization of the Tabulation

Data in the 43 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:

§ Domestic (U.S.A.) manufacture
= European manufacture
+ Russian manufacture

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

1 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 3.

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, and Current Regulator 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 RS-209-A 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 — Buttress 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.

Transistors (Group X) and Diodes (Group XI) have prefixed letters "G" and "K" to 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 more than 7 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 7 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.

Integrated Circuits (Group X-A) has no "Series Number" in the Group Headings in recent revisions to provide more space for the device type number. However, the series number consists of the first three digits of the type number, e.g., Type 1LR313 is in Series 131.

All type numbers in which the first digit is a "1" are integrated circuits on a mono-

lithic silicon chip. Similarly, all type numbers in which the first digit is a "2" are hybrid circuits usually mounted on a ceramic substrate. Both of these groups contain digital and linear circuit series. In this revision, there are also device type numbers in which the first digit is a "5." These types are enclosed in a 14-pin DIP package which is quite similar to that used in the U.S.

The letter "K" prefixed to the device type number has been introduced to indicate that the integrated circuit can be used only in a restricted temperature range (i.e., -10 to +70°C).

The Series number groups similar device types into a common family of circuits, but not exclusively according to circuit complication and end-use.

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 and the last revisions, 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 5 years or has been first noted in that time. Also, the LOZENGE (⬠) has been introduced in this revision to indicate OBSOLESCENCE noted in the source material. Devices whose status is unknown have no symbol.

4.4 Code

Due to the limitations of available columns in the punched card, one- to four-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
ADI	Addressed input
ADO	Addressed output
ADR	And/or logic
A	{ Audio frequency
	{ Forced air cooling
AGC	Automatic gain control
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
AMV	Push-pull voltage amplifier
AN	Natural air cooling

AND	And logic
ANR	And/nor logic
ANX	And expander
AOR	And/or gate
AOT	And/or invert
AR	Argon gas-filled
ARC	Arc rectifier-mercury pool
ATR	ATR tube
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
BRG	Bit register
BWD	Backward diode
BWT	Backward wave tube
	{ Circular dynode arrangement
C	{ Common collector operation
	{ Cold cathode
	{ Continuous wave operation
CAM	Copper-aluminum-magnesium
CDR	Current driver
CDS	Cadmium sulphide
CDSE	Cadmium selenide
CH	Charactron
CMP	Cascade amplifier
CMS	C-MUS
CN	Converter
CO	Coax connector
	{ Commutator tube or operation
COM	{ Temperature compensation
	{ Control switch
CON	{ Temperature control
	{ Counter operation
COU	{ Counter tube
CP	Cap, external, in tabulation of bases
CSB	Cesium antimony photo surface
CU	Copper cathode; counter tube
CVA	Conversion amplifier
CYL	Cylindrical shape; thermistors
D	Type D flip-flop
DBA	Double anode beam pentode
DCD	Digital current driver
DCT	DCTL logic
DEC	Decatron
DED	Decoder
DET	Detector operation
DIA	Diode array
DIH	Digital indicator
	{ Diode
DIO	{ With diode, e.g., triode-diode
DMP	Differential amplifier
DNV	Dual inverter
DSC	Disc shape
DT	Dark trace CR tube
DTL	Diode-transistor logic
DUD	Dual D flip-flop
DUO	Double, e.g., double diode with separate cathodes
DU2	Dual 2 input, also DU3 and DU4 for 3 and 4 inputs

DWD	{ Double diode (single cathode) With double-diode, e.g., triode-double-diode	KLO	Klystron oscillator
E	Common emitter operation	KX	Krypton-xenon gas-filled
ECL	ECL logic	L	{ Linear dynode arrangement Liters per minute - cooling rate
EL	Electrometer tube	LAM	Light amplifier
ELM	Electromagnetic focus or deflection	LCV	Level converter
ELS	Electrostatic focus or deflection	LD	Lead cathode
EMF	Emitter follower	LED	Light emitting diode
END	End-view indicator	LFA	Low frequency amplifier
ETL	ECL TO TTL converter	LIM	Limiter
EXP	Expander	LIT	Lighthouse
F	Filamentary type cathode	LO	Low persistence screen
FAD	Full adder	M	{ Mega (10^6) Meters per second - cooling rate
FE	Iron cathode; counter tube	m	Milli (10^{-3})
FL	Filter circuit	MAG	Magnetron
FLP	Flip-flop	MCR	Metal-ceramic tube
G	Giga (10^9)	MD	{ Medium persistence screen Modulator
G P	Germanium, npn	MEA	Temperature measurement
G N	Germanium, npn	MEM	Memory cell, MOS
GAE	Gallium arsenide, epitaxial	MG	Magnesium cathode
GAM	Gamma radiation	MIX	Mixer
GAN	Germanium alloy, npn	MJF	MOS junction FET transistor
GAP	Germanium alloy, pnp	MMC	Measure microwave power
GAS	Gallium arsenide	MMP	MOS amplifier
GDN	Germanium diffused junction, npn	MND	MOS-Nand logic
GDP	Germanium diffused junction, pnp	MNR	MOS-Nor logic
GE	Germanium	MO	Molybdenum cathode
GEA	Germanium alloy junction	MOD	Modulator
GEB	Germanium-gold-bonded	MOR	MOS-Or logic
GEM	Germanium mesa structure	MOS	Metal-oxide semiconductor
GEP	Germanium point-contact	MUL	Multiplier
GFP	Germanium, epitaxial diffused, pnp	MVB	Multivibrator
GPE	Gallium phosphide, epitaxial	MX	Mixer
GNP	Germanium, planar, npn	N	n-type construction, semiconductor
GPP	Germanium point-contact, pnp	n	Nano (10^{-9})
GR	{ Green luminescence Graphicon	NA	Neon-argon gas-filled
GS	Gas-filled	NDR	Nand/nor logic
GSP	Germanium surface-barrier, pnp	NE	Neon gas-filled
GTB	Gated beam pentode	NEH	Neon-helium gas-filled
H	Heater type cathode	NEU	Neutron
h	Hecto (10^2)	NI	Nickel cathode
HAD	Half-adder	NK	Neon-krypton gas-filled
HAV	Half-adder with inversion	NND	Nand logic
HE	Helium gas-filled	NO	Noise generator
HEX	Hexode	NOI	Noise generator
HG	Mercury vapor-filled	NOR	Nor logic
HK	Hydrogen-krypton gas-filled	NOT	Not logic
HPT	Heptode	NRD	Nor/nand logic
HY	Hydrogen gas-filled	NRT	Not/nor logic
IC	Iconoscope	NRX	Nor/or expander
ID	Indicator tube	NSP	Nuclear spectrometry
IGN	Ignitron tube	NUV	Nuvisor
IHT	Indirectly heated thermistor	N/R	Nor/or logic
IM	Image orthicon	OD	Double beam oscilloscope tube
IMD	Image dissector	OG	Orange-green luminescence
INV	Inverter	OND	Or/nand logic
JK	Type JK flip-flop	ONR	Or/nor logic
k	Kilo (10^3)	ONT	Or/not logic
K	Potassium	OPA	Operational amplifier
KLA	Klystron amplifier	OR	Or logic
		ORD	Or/and logic

ORX	Or expander	SGP	Silicon, isolated gate, p-channel
OS	Oscilloscope tube	SH	Short persistence screen
OSC	Oscillator	SHR	Shift register
P	{ Pulse operation	SI	Silicon
p	p-type construction, semiconductor	SIA	Silicon alloy junction
PA	Power amplifier	SID	Silicon diffused junction
PB	Purple-blue luminescence	SIDE	Side-view indicator
PBS	Lead sulphide	SIM	Silicon mesa
PEN	Pencil tube	SIN	Single, e.g., single triode
PGN	Pulse generator	SIP	Silicon, point contact
PHM	Photomultiplier	SI4	Silicon, 4-layer rectifier, also 5-layer
PHO	Phototube	SJP	Silicon isolated gate FET, p-channel
PIN	Pin type diode	SM	Secondary emission pentode
PM	Permanent magnet	SMP	Sense amplifier
PND	{ Pentode	SN	Tin cathode; counter tube
	{ With pentode, e.g., triode-pentode	SNJ	Silicon unijunction
POW	Power rectifier	SO	Storage oscilloscope
PO2	Power 2 input	SPN	Silicon planar npn
PO3	Power 3 input	SPP	Silicon planar pnp
PO4	Power 4 input	SQ	Self-quenching type of counter
PO6	Power 6 input	SS	Stainless steel cathode
PR	Projection kinescope	ST	Storage tube
PRB	Probe, thermistor	SWI	Switching diode or mode
PT	Phototelegraph reproduction	T	Thoriated tungsten cathode
PTG	Pentagrid	TEL	TTL to ECL converter
QUD	Quadruple input	TET	Tetrode
QUX	Quadruple exclusive	THM	Thermocouple tube
QU2	Quadruple 2 input, also QU4 for 4 inputs	THY	Thyratron
R	Rectangular-diagonal dimension	TMS	Thermistor
RA	Radar	TR	Transmit-receive tube
RCT	RCTL logic	TRA	Triple adder
RD	Red luminescence	TRD	With triple diode
RDL	Resistor-diode logic	TRG	Lock-in D trigger
REC	{ Receiver		{ Triode
	{ Rectifier	TRI	{ Triple
REG	Regulator (voltage)		{ With triode, e.g., pentode-triode
REM	Resistor matrix	TRM	Transistor matrix
RF	Radio frequency	TR2	Triple 2 input, also TR3 and TR4 for 3 and 4 inputs
RGS	Register	TTL	Transistor-transistor logic
RKY	Reflex klystron	TUN	Tunnel diode
RTL	Resistor-transistor logic	TV	{ Television tube
S	Maximum dimension of cathode ray tube face		{ Television circuits
S P	Silicon	TW	Twin with same cathode, e.g., twin triode
S1-S7	Spectral sensitivity of photo surface	TWT	Traveling-wave tube
S2	Dual beam storage	μ	Micro (10^{-6})
S2P	Silicon, double-emitter, pnp	ULE	Universal logic element
SAN	Silicon alloy, npn	UF	Ultra high frequency
SAP	Silicon alloy, pnp	UV	Ultraviolet radiation
SCC	Scintillation counters	V	Venetian blind dynode
SCD	Silicon carbide, diffused	VAR	Varactor
SCG	Space-charge grid (with)	VB	Violet-blue luminescence
SCH	Schmitt trigger	VC	Vacuum
SCR	Silicon controlled rectifier	VCN	Voltage converter
SDN	Silicon diffused junction, npn	VI	Vidicon
SEN	Silicon planar epitaxial, npn	VID	Video detector
SEP	Silicon epitaxial, pnp	VMP	Video amplifier
SFN	Silicon junction FET, n-channel	VR	Voltage regulator
SF2	Silicon, 2 isolated gates, n-channel		{ Change of units to watts
SFP	Silicon junction FET, p-channel	W	{ Tungsten cathode
SGN	Silicon, isolated gate, n-channel		{ Water-cooled
		WG	Wave guide coupling

WH	White luminescence	2CH	Two-channel, also 4CH for four-channel
WNB	W92%, Ni5%, Ba3% cathode	2PH	Two-phase
X $\overline{\text{C}}$	Xenon gas-filled	3C	Three-color screen for television
YG	Yellow-green luminescence	50	Oscilloscope tube, five-beam
YO	Yellow-orange luminescence	6IX	Six-input exclusive
1DA	Single diode array, also 2, 3, 4, & 8 indicating number of diodes in array	10N	Ten input
2IN	2 input, also 3, 4, 5, 6, 8, and also 10N indicating number of inputs	* }	Meaning of symbols indicated in column heading
3B	3 bits, also 4, 8, 12, 16, 18, 20, 64, and 90B indicating number of bits	<	Less than (before digits)
		*	Current type
		\equiv	Obsolete type

GROUP 1 - NUMERICAL

TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
S10		X				OKHG-1	# GE	XI-F			
S1G		X				OK-11M	# MIX	XIV			
S1V		X				OK-SIM	# MIX	XIV			
S1VE		X				OK-V1	# OET	XIV			
SB5-1	COU	XXI				OL-S1	MIX				
SPK-1	COU UV	XXI				F-1	# PHQ	XVI			
SG18	OIO SIN			0A2S	13282-67	FC-1	PHC	XV			
SG1P	OIO SIN	V		0A2S		POK-1	PHC	XV			
SG1P-EV	# REG					FEU-1	# PHM	XVI			
SG1P-V	REG			SG1P+		FEU-1B	PHM	XVI			
SG1P-VS	REG			SG1P+		FEU-1B1V	PHM	XVI			
SI-13G	COU	XXI				FEU-1B2V	PHM	XVI			
SI-1G	COU			STS-1+		FEU-1S	PHM	XVI			
SK1-5.6/1000	REG	XIII				FEU-1V	PHM	XVI			
SK1-5.8/1000	REG	XIII				FS-A1	# PHC	XV			
SK1-8.2/1000	REG	XIII				FS-O1	PHC	XV			
SK1-10/500	REG	XIII				FS-K1	PHC	XV			
SK1-12/500	REG	XIII				FS-A-G1		XV			
SK1-15/500	REG	XIII				FSO-G1		XV			
SK1-19/500	REG	XIII				FSK-G1		XV			
SK1-22/150	REG	XIII				FSK-P1		XV			
SK1-24/150	REG	XIII				FT-1	PHC	XV			
SK1-28/150	REG	XIII				FTG-1	PHC	XV			
SK1-30/150	REG	XIII				GE-1	TET SIN	III		GKE-100+	
SK1-36/150	REG	XIII				GG-1-0.3/5	OIO SIN	IV			
SK1-43/150	REG	XIII				GG1-0.5/5	OIO SIN	IV		VG1.5/5000+	13705-68
SK1-51/150	REG	XIII				GG-1-0.5/20	OIO SIN	IV			
SK1-62/50	REG	XIII				GG-1-1/22	OIO SIN	IV			
SK1-75/50	REG	XIII				GG-1-2/5	OIO SIN	IV			
SK1-95/50	REG	XIII				GG-1-2/16	OIO SIN	IV			
SK1-110/50	REG	XIII				GG-1.5/15	OIO SIN			GG1-0.5/5+	
SK1-120/50	REG	XIII				GK1A	TPI SIN	III			
SK1-150/50	REG	XIII				GM1A	TPI SIN	III			14609-69
SK1-180/50	REG	XIII				GM1P	TPI SIN	III			
SK1-220/25	REG	XIII				GM1-1B	TPI SIN	III			
GR1-02/15	OIO SIN	IV				FS-AG	PHC	XV			
GP-1-0.3/5.5	OIO SIN	IV				FS-AO	PHC	XV			
GR-1-25/15	OIO SIN	IV				FS-AV	PHC	XV			
GS-1B	TPI SIN	III				FS-DO	PHC	XV			
GSM-1	# NOI	IX				FS-KG	PHC	XV			
GUZH-1	PNO SIN			G411+		FS-KO	PHC	XV			
I-1-25/0.8	IV			5550S		FS-KV	PHC	XV			
I-1-50/20	IV					TGS-4	TMS CON	XIX			
I-1-70/0.8	TPI IGN	IV		5551AS		OKHG-05	# GE	XI-F			
I-1-100/1.5	TPI IGN	IV				OKHG-054	# GE	XI-F			
I-1-140/0.8	TPI IGN	IV		5552AS		OKHG-055	# GE	XI-F			
I-1-350/0.8	TPI IGN	IV		5553S		0.24812-18	BAL SIN	VI			7162-70
IN-1	# DEC	XXIII				0.3817-35	BAL SIN	VI			7162-70
KF-1	TET TWN			GU-29+, 3278S		0.3865-125	BAL SIN	VI			7162-70
KMT-1	# TMS	XIX			10688-63	0.425885-123AL	SIN	VI			7162-70
KZH1	PNO SIN			G411+		0.6P29	# PNO SIN	II		CK505AX	
LD1	TPI SIN			12535+		0.6557A	# TPI SIN	II			
LG-1	OIO SIN			12KM35+		0.62468	PNO SIN	II			
LII	IC	VIII-A				0.85855-12	BAL SIN	VI			7162-70
4MT-1	# TMS	XIX			10688-63	GR-0.8/1.6	OIO SIN			GP1-0.25/1.5+	
M51	TPI SIN			GM-90+		GPI-0.25/1.5	OIO SIN	IV			
CG-1	DEC	XXIII				TG-0.3/0.3	TPI THY			TG1-C.1/0.3+, 384S	
CV-1	# SWT	IX				TG-0.5/1.3	TET THY			TG1-0.1/1.3+, 2050S	
P1A		X				VG0251500	OIO SIN			GA1-0.25/1.5+	
P1B		X				AG11-75/1.3	THY	VII			
P1C		X				AS-1	COU	XXI			
P1G		X				D1A	REC	XI			
P1I		X				D1B	REC	XI			
P1V		X				D1D	REC	XI			
P1VE		X				D1G	REC	XI			
P1Z4		X				D1V	REC	XI			
P1		XXII				D1VE	REC	XI			
P3-1		XXI				D1Z4	REC	XI			
S1A		X				OG-S1	MIX	XIV			
S1B		X				OG-TS1	REC	XI		22G+	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
SK1-270/25	PEG	XIII				V1-02/20	OIO	SIN	IV		
SK1-300/25	PEG	XIII				V1-03/13	OIO	SIN	IV		
SRM-1	COU	XXI				V1-05/70	OIO	SIN	IV		
ST1-17	TMS MEA	XIX				V1-06/30	OIO	SIN	IV		
ST1-18		XIX				V1-1/2.5	OIO	SIN	IV		
ST1-19	TMS MEA	XIX				V1-1/30	OIO	SIN	IV		
ST-1-21	TMS	XIX				V1-1/A0	OIO	SIN	IV		
ST1-27	TMS IMT	XIX				V1-2/A0	OIC	SIN	IV		
ST-1-30	TMS	XIX				V1-3/16	OIO	SIN	IV		
STS-I	COU	XXI				V1-3/70	OIO	SIN	IV		
T-19	TPI THY			TG-18+		V1-4/A0	OIO	SIN	IV		
TG18	TRI THY VII					V1-15/55	OIO	SIN	IV		
TG18-V	TPI THY			TG18+		VO1	OIO	SIN		V1-1/A0+	
TG1P	VII					VO1-10	OIO	SIN		V1-1-100/50+	
TG1-0.02/0.5	TET THY VII					VG1/8500	OIO	SIN	IV		
TG1-0.1/0.3	TRI THY VII			8848		VG1.5/5000	OIO	SIN		GG2-0.5/5+	
TG1-0.1/1.3	TET THY VII			20508		V1-1-5/20	OIO	SIN	IV		
TG1-0.5/12	TRI THY VII				78A3-55	V1-1-5/30	OIO	SIN	IV		
TG1-1.0/0.8	TET THY VII					V1-1-18/32	OIO	SIN	IV		
TG1-1.5/2	TRI THY VII					V1-1-27/35	OIO	SIN	IV		
TG1-1.6/1.3	TRI THY VII					V1-1-30/25	OIO	SIN	IV		
TG1-2/8	VII					V1-1-70/32	OIO	SIN	IV		
TG1-2.5/4	TPI THY VII			TG8/3, TG1-2.5/3+	7952-68	V1-1-100/50	OIO	SIN	IV		
TG1-2.5/10	VII					VO-I	OIO	SIN	IV		
TG1-3.2/1.3	TRI THY VII					VSTS-1	PHO			F-3+	
TG1-5/3	TRI THY VII				7953-56	VT-I	TRI THY			TG-2.5/5+	
TG1-6.4/1.3	TRI THY VII					1A1P	PTG SIN II			1P58, OK91, OK192	7708-66
TG1-12.5/1.3	TPI THY VII					1A2P	PTG SIN II			OK968, IRS8	9836-66
TG1-19	TRI THY VII					1A501A		XI-G			
TG1-1-3/1	TET THY VII					1A501G		XI-G			
TG1-1-5/1.1	TPI THY VII					1A501I		XI-G			
TG1-1-10/1	TRI THY VII					1A504A		XI-G			
TG1-1-35/3	TPI THY VII			3C458		1A504B		XI-G			
TG1-1-50/5	TRI THY VII					K1AP551	ADT OUI			FLH151=	
TG1-1-90/8	TRI THY VII			MTI-48+		181P	PNO OIO II			IS58, OAF918, OAF191	9006-56
TG1-1-130/8	TRI THY VII					182P	PNO OIC II			OAF968, IS58	9837-66
TG1-1-130/10	TPI THY VII					185-9	BAL SIN VI				7162-70
TG1-1-260/12	VII					1810-17	BAL SIN VI				7162-70
TG1-1-325/16	TPI THY VII			MTI-5+, TGI-325/16+		1E1P	TET SIN II				
TG1-1-400/3.5	TPI THY VII					1E3P	TPI SIN II			EM-4+	
TG1-1-400/16	TPI THY VII					IF28	PNO TPI II				
TG1-1-500/16	VII					K1GF271	PGN	X-A-2			
TG1-1-500/20	VII					112P	PNO TPI II				
TG1-1-700/25	TRI THY VII					11-302A	TUN GAS XI-8				
TG1-1-1000/25	VII					11-302B	TUN GAS XI-8				
TG11-2000/35	VII					11-302G	TUN GAS XI-8				
TG11-2500/35	VII					11-302V	TUN GAS XI-8				
TKI-I	TMS MEA XIX					1100061	DEO 39	X-A-2			
TKMI	TRI THY VII			313C		1100062	DEO 39	X-A-2			
TKMI8	TRI THY VII					1100064		X-A-2			
TKMI-IG	PNO VII					11L101A	MAO	X-A-2			
TM-I	TRI SIN			6550+, 2C408		11L101B	MAO	X-A-2			
TNI-1.5	DEC					11L131A	MAO	X-A-2			
TD-1	PNO SIN			102H125+		11L131B	MAO	X-A-2			
TRI-2.5/3	VII					11L131V	MAO	X-A-2			
TRI-5/2	TRI THY VII			V7-3	7954-69	11L132A	MAO	X-A-2			
TRI-6/3	VII					11L132B	MAO	X-A-2			
TRI-6/15	TPI THY VII				7555-68	11L132V	MAO	X-A-2			
TRI-15/3	VII					11L141A	HAV 2IN	X-A-2			
TRI-15/15	TPI THY VII					11L141B	HAV 2IN	X-A-2			
TRI-15/20	VII					11L371	MAO	X-A-2			
TRI-40/15	TPI THY VII				7956-69	11L372	MAO	X-A-2			
TRI-95/15	TPI THY VII					K11M331	ADD			SN548058	
TRI-130/15	TPI THY VII					K11M332	ADD 29			SN548258	
TSG-I	PHO	XVI				K11M333	ADD 48			SN548358	
TSM-1	TMS MEA XIX					K11M551	ADD			SN742008, FL4221=	
TST-1A	TMS REG XIX					K11M552	ADD 29			SN748208, FL4231=	
TSV-I	PHO	XVI				K11M553	ADD 48			SN748308, FL4241=	
TV8-I	THM	XVIII				11P0021	48	X-A-2			
V1-00313	OIO SIN IV			V13/30+, 3826		K11P071	SHP 38	X-A-2			

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
11R141A	* RGS	X-A-2				K1KT902	*			TMS6003S	
11R141B	* RGS	X-A-2				1L80001	* ONR	DU2	X-A-2		
K11R331	* FLR D			SN54955S		1L80002	* NOR	DU2	X-A-2		
K11R441	* SHR 168	X-A-2		MEM30219S		1L80005	* CNR	TR2	X-A-2		
K11R442	* SHR 908	X-A-2				1L80006	* NOR	TR4	X-A-2		
K11R551	*	X-A-2		SN7495NS		1L80009	* ONR	DU4	X-A-2		
K11R552	*	X-A-2				1L80010	* OR	DU3	X-A-2		
K11R761	* SHR 188	X-A-2		CD4006AES		1L80011	* NOR	DU3	X-A-2		
K11R862	* SHR 68			MEM3006RS		1L8061	* OND	DU2	X-A-2		
K11R863	* SHR 218			MEM30219S		1L8061A	* OND	DU2	X-A-2		
K11R86A	* SHR 548			3305/6S		1L8062	* OND	DU2	X-A-2		
11YE0060	*	129	X-A-2			1L8062A	* OND	DU2	X-A-2		
K11YE332	* CCU			SN54905S		1L8065	* OND	8IN	X-A-2		
K11YE33A	* CCU			SN54925S		1L8065A	* OND	8IN	X-A-2		
K11YE336	* CCU 43			SN541925S		1L8066	* OND	8IN	X-A-2		
K11YE337	* CCU 48			SN541935S		1L8066A	* OND	8IN	X-A-2		
K11YE338	* MUL 68			SN54975S		1L80610	* NOR		X-A-1		
K11YE551	* CCU	X-A-2				1L8091A	* NND	3IN	X-A-2		
K11YE552	* CCU	X-A-2		SN7490NS		1L80915	* NND	3IN	X-A-2		
K11YE55A	* CCU	X-A-2		SN7492NS, FLJ171		1L8091G	* NND	3IN	X-A-2		
K11YE555	* CCU	X-A-2		SN7493NS		1L8091V	* NND	3IN	X-A-2		
K11YE556	* CCU	X-A-2		SN74192NS		1L8092A	* NND	3IN	X-A-2		
K11YE557	* CCU 48			SN74193NS, FLJ251		1L8092B	* NND	3IN	X-A-2		
K11YE558	* CCU	X-A-2		SN7497NS		1L8101	* NOR		X-A-1		
K11YE559	* CCU	X-A-2				1L8101A	* NRD	6IN	X-A-2		
1JAM0040	* MEM 648	X-A-2				1L8101B	* NRD	6IN	X-A-2		
1JAM0040A	* MEM 168	X-A-2				1L8102A	* NRD	3IN	X-A-2		
1JAM0040B	* MEM 48	X-A-2				1L8102B	* NRD	3IN	X-A-2		
K1JAM351	* MEM 208	X-A-2				1L8103A	* NRD	4IN	X-A-2		
K1JAM352	* MEM 168	X-A-2				1L8103B	* NRD	4IN	X-A-2		
K1JAM761	* MEM 168	X-A-2				1L8104A	* NRD	5IN	X-A-2		
1JAM881	* MEM 168	X-A-2				1L8104B	* NRD	5IN	X-A-2		
1K1P	* PND SIN II			1T4S, OF91	7707-55	1L8105A	* NRD	6IN	X-A-2		
1K2P	* PND SIN II			CF96, 1T4S	9946-66	1L8105B	* NRD	6IN	X-A-2		
1K123	* PND SIN II					1L8105G	* NRD	6IN	X-A-2		
K1KF681	*			MEM550S		1L8105V	* NRD	6IN	X-A-2		
K1KF682	*			MEM552S		1L8106A	* NRD	3IN	X-A-2		
K1KT011				SN75614S		1L8106B	* NRD	3IN	X-A-2		
1KT2A1A.8		X-A-1				1L8106G	* NRD	3IN	X-A-2		
1KT461	* DCD	X-A-3		SN75325S		1L8106V	* NRD	3IN	X-A-2		
K1KT462	* MEM			SN75325S		1L8107A	* NRD	4IN	X-A-2		
1KT462A	* CDR ADI	X-A-3				1L8107B	* NRD	4IN	X-A-2		
1KT462B	* CDR ADI	X-A-3				1L8107G	* NRD	4IN	X-A-2		
1KT462V	* CDR ADI	X-A-3				1L8107V	* NRD	4IN	X-A-2		
1KT463A	* CDR ADI	X-A-3				1L8108A	* NRD	5IN	X-A-2		
1KT463B	* CDR ADI	X-A-3				1L8108B	* NRD	5IN	X-A-2		
1KT463V	* CDR ADI	X-A-3				1L8108G	* NRD	5IN	X-A-2		
1KT464A	* CDR ADI	X-A-3				1L8108V	* NRD	5IN	X-A-2		
1KT464B	* CDR ADI	X-A-3				1L8109A	* NRD	3IN	X-A-2		
1KT464V	* CDR ADI	X-A-3				1L8109B	* NRD	3IN	X-A-2		
1KT465A	* CDR ADD	X-A-3				1L8109G	* NRD	5IN	X-A-2		
1KT465B	* CDR ADD	X-A-3				1L8109V	* NRD	5IN	X-A-2		
1KT465V	* CDR ADD	X-A-3				1L8109B	* NRD	3IN	X-A-2		
1KT466A	* CDR ADD	X-A-3				1L81010A	* NRD	3IN	X-A-2		
1KT466B	* CDR ADD	X-A-3				1L81010B	* NRD	3IN	X-A-2		
1KT466V	* CDR ADD	X-A-3				1L81011A	* NRD	2IN	X-A-2		
1KT467A	* CDR ADD	X-A-3				1L81011B	* NRD	2IN	X-A-2		
1KT467B	* CDR ADD	X-A-3				1L81012A	* NRD	5IN	X-A-2		
1KT467V	* CDR ADD	X-A-3				1L81012B	* NRD	5IN	X-A-2		
K1KT491A	* AMP DU4	X-A-2				1L81013A	* NRD	2IN	X-A-2		
K1KT491B	* AMP	X-A-2				1L81013B	* NRD	2IN	X-A-2		
K1KT491V	* AMP	X-A-2				1L81014A	* NRD	2IN	X-A-2		
K1KT691	*			SN75325S		1L81014B	* NRD	2IN	X-A-2		
K1KT692	*			SN75325S		1L81014G	* NRD	2IN	X-A-2		
K1KT693	*			SN75325S		1L81014V	* NRD	2IN	X-A-2		
K1KT701	* CDR	X-A-2				1L8111			X-A-1		
K1KT702	* CDR	X-A-2				<1L8111A	* CNT	2IN	X-A-2		
K1KT703	* CDR	X-A-2				<1L8111B	* CNT	2IN	X-A-2		
K1KT704	* CDR	X-A-2				1L8131A	* NRD	DU2	X-A-2		
K1KT901	* SWI	X-A-2		MEM4200CS		1L8131B	* NRD	DU2	X-A-2		
						1L8131V	* NRD	DU2	X-A-2		
						1L8132A	* NRD	DU4	X-A-2		
						1L8132B	* NRD	DU4	X-A-2		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
1L8132V	*	NDR	004	X-A-2		1L8332A		NND	X-A-1		
1L8133A	*	NDR	003	X-A-2		1L8332B		NND	X-A-1		
1L8133B	*	NDR	003	X-A-2		1L8333	*	NND	002	X-A-2	SN54C05\$
1L8133V	*	NDR	003	X-A-2		1L8334	*	NND	31N	X-A-2	SN54L05\$
1L8134A	*	NDR	003	X-A-2		1L8336	*	NND	004	X-A-2	SN54405\$
1L8134B	*	NDR	003	X-A-2		1L8337	*	NND	004	X-A-2	SN54225\$
1L8134V	*	NDR	003	X-A-2		1L8338	*	NND	002	X-A-2	SN54015\$
1L8135A	*	NRX	21N	X-A-2		1L8339	*	NND	004	X-A-2	
1L8135B	*	NRX	21N	X-A-2		1L83310	*	NND	31N	X-A-2	
1L8135V	*	NRX	21N	X-A-2		1L83311	*	NND	002	X-A-2	
1L8136A	*	NDR	002	X-A-2		1L83312	*	NND	31N	X-A-2	
1L8136B	*	NDR	002	X-A-2		1L83313	*	NND	004	X-A-2	
1L8136V	*	NDR	002	X-A-2		1L83315	*	NND	004	X-A-2	
1L8137A	*	NDR	004	X-A-2		1L83316	*	NND	002	X-A-2	
1L8137B	*	NDR	004	X-A-2		1L8341		NDR	X-A-1		
1L8137V	*	NDR	004	X-A-2		1L8341A	*	NND	002	X-A-2	
1L8138A	*	NDR	003	X-A-2		1L8341B	*	NND	002	X-A-2	
1L8138B	*	NDR	003	X-A-2		1L8342A	*	NND	004	X-A-2	
1L8138V	*	NDR	003	X-A-2		1L8342B	*	NND	004	X-A-2	
1L8139A	*	NDR	003	X-A-2		1L8361	*	NND	004	X-A-2	SN54L205\$
1L8139B	*	NDR	003	X-A-2		1L8362	*	NND	31N	X-A-2	SN54L305\$
1L8139V	*	NDR	003	X-A-2		1L8363	*	NND	002	X-A-2	SN54L005\$
1L81310A	*	NRX	21N	X-A-2		1L8364	*	NND	31N	X-A-2	SN54L105\$
1L81310B	*	NRX	21N	X-A-2		1L8366	*	NND	004	X-A-2	
1L81310V	*	NRX	21N	X-A-2		1L8367	*	NND	31N	X-A-2	
1L8141A	*	NDR	004	X-A-2		1L8368	*	NND	002	X-A-2	
1L8141B	*	NDR	004	X-A-2		1L8369	*	NND	31N	X-A-2	
1L8142A	*	DR	002	X-A-2		1L8371	*	DRX	N/R	X-A-2	CO2150\$
1L8142B	*	DR	002	X-A-2		1L8372	*	NDR	003	X-A-2	MC1003\$
1L8143A	*	DR	002	X-A-2		1L8375	*	N/R	003	X-A-2	
1L8143B	*	DR	002	X-A-2		1L8376	*	N/R	31N	X-A-2	
1L8144A		NDR		X-A-1		1L8378	*	DRX	N/R	X-A-2	
1L8144B		NDR		X-A-1		1L8379	*	NDR	003	X-A-2	
1L8145A		NDR		X-A-1		1L83710	*	NDR	003	X-A-2	
1L8145B		NDR		X-A-1		1L83716	*	N/R	003	X-A-2	
1L8146A		NDR		X-A-1		1L83717	*	N/R	31N	X-A-2	
1L8146B		NDR		X-A-1		1L83718	*	N/R	31N	X-A-2	
1L8151	*	NDR	002	X-A-2		1L83719	*	DRX	N/R	X-A-2	
1L8152	*	NDR	004	X-A-2		1L8381	*	DR	31N	X-A-2	ECL2501\$
1L8153	*	NDR	003	X-A-2		1L8381	*	DR	31N	X-A-2	
1L8215A	*	NDR	003	X-A-2		1L8382	*	DR	004	X-A-2	ECL2500\$
1L8211A		NDR		X-A-1		1L8382	*	DR	004	X-A-2	ECL2500\$
1L8211B		NDR		X-A-1		1L8383	*	NDR	002	X-A-2	
1L8211G		NDR		X-A-1		1L8383	*	NDR	002	X-A-2	ECL2503\$
1L8211V		NDR		X-A-1		1L8384	*	DR	002	X-A-2	
1L8212A		NDR		X-A-1		1L8384	*	DR	002	X-A-2	ECL2511\$
1L8212B		NDR		X-A-1		1L8385	*	DR	002	X-A-2	
1L8251		NND		X-A-1		1L8391		NDR	X-A-1		
1L8301	*	NND	004	X-A-2	SN54H205\$	1L8392		NDR	X-A-1		
1L8302	*	NND	31N	X-A-2	SN54H305\$	1L8471		NDR	X-A-1		
1L8303	*	NND	002	X-A-2	SN54H005\$	1L8472		NDR	X-A-1		
1L8304	*	NND	31N	X-A-2	SN54H105\$	1L8551		NND	004	X-A-2	
1L8306	*	NND	004	X-A-2	SN54H405\$	1L8551	*	NND	004	X-A-2	SN7420N\$, FLH121\$
1L8307	*	NND	004	X-A-2		1L8552		NND	31N	X-A-2	
1L8308	*	NND	31N	X-A-2		1L8552	*	NND	31N	X-A-2	SN7430N\$, FLH131\$
1L8309	*	NND	002	X-A-2		1L8553		NND	002	X-A-2	
1L83010	*	NND	31N	X-A-2		1L8553	*	NND	002	X-A-2	SN7400N\$, FLH101\$
1L8311	*	NND	004	X-A-2	SN74H20N\$	1L8554		NND	31N	X-A-2	
1L8312	*	NND	31N	X-A-2	SN74H30N\$	1L8554	*	NND	003	X-A-2	SN7410N\$
1L8313	*	NND	002	X-A-2	SN74H00N\$	1L8556		NND	004	X-A-2	
1L8314	*	NND	31N	X-A-2	SN74H10N\$	1L8556	*	NND	004	X-A-2	SN7440N\$, FLH141\$
1L8316	*	NND	004	X-A-2	SN74H40N\$	1L8557		NND	004	X-A-2	
1L8317	*	NND	004	X-A-2		1L8557	*	NND	004	X-A-2	SN7422N\$
1L8319	*	NND	31N	X-A-2		1L8558		NND	002	X-A-2	
1L8319	*	NND	002	X-A-2		1L8558	*	NND	002	X-A-2	SN7401N\$, FLH201\$
1L83110	*	NND	31N	X-A-2		1L8559		NND	004	X-A-2	
1L8331	*	NND	004	X-A-2	SN54205\$	1L8559	*	NND	004	X-A-2	
1L8331A		NND		X-A-1		1L85510		NND	31N	X-A-2	
1L8331B		NND		X-A-1		1L85510	*	NND	31N	X-A-2	
1L8332	*	NND	31N	X-A-2	SN54305\$	1L85511		NND	002	X-A-2	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
K1L85511	*	NNO	0U2	X-A-2		1LN102A	*	INV	EMF	X-A-2	
1L85512	*	NNO	31N	X-A-2		1LN102B	*	INV	EMF	X-A-2	
K1L85512	*	NNO	TP3	X-A-2		1LN102G	*	INV	EMF	X-A-2	
1L85513	*	NNO	P04	X-A-2		1LN102V	*	INV	EMF	X-A-2	
K1L85513	*	NNO	0U4	X-A-2		1LN103A	*	ONV		X-A-2	
1L85515	*	NNO	P04	X-A-2		1LN103B	*	ONV		X-A-2	
K1L85515	*	NNO	0U4	X-A-2		1LR0007	*	TRA		X-A-2	
1L85516	*	NNO	0U2	X-A-2		1LR0015	*	QUD	REC	X-A-2	
K1L85516	*	NNO	0U2	X-A-2		1LP0016	*	TR1	REC	X-A-2	
1L8561A	*	NNO		X-A-2		1LP0079	*			X-A-2	
1L8561B	*	NNO	61N	X-A-2		1LP061	*	ORX	81N	X-A-2	
1L8561V	*	NNO	61N	X-A-2		1LP061A	*	ORX	81N	X-A-2	
1L8562	*	NNO	P06	X-A-2		1LP062	*	ORX	81N	X-A-2	
1L8563A	*	NNO	0U4	X-A-2		1LPC62A	*	ORX	91N	X-A-2	
1L8563B	*	NNO	0U4	X-A-2		1LP063	*	OR		X-A-1	
1L8563V	*	NNO	0U4	X-A-2		1LP064	*	OR		X-A-1	
1L8564A	*	ORX	0U4	X-A-2		1LP065	*	ORX	0U4	X-A-2	
1L8564B	*	OPX	0U4	X-A-2		1LP065A	*	ORX	0U4	X-A-2	
1L8564V	*	OPX	0U4	X-A-2		1LP066	*	ORX	0U4	X-A-2	
1L8581	*	NNO	0U4	X-A-2	SN74L20NS	1LP066A	*	OPX	0U4	X-A-2	
1L8582	*	NNO	81N	X-A-2	SN74L30NS	1LR067	*	OR		X-A-1	
1L8583	*	NNO	0U2	X-A-2	SN74L00NS	1LP068	*	OR		X-A-1	
1L8584	*	NNO	31N	X-A-2	SN74L10NS	1LP091	*	ANX	0U3	X-A-2	
1L8586	*	NNO	0U4	X-A-2		1LP131A	*	HAD		X-A-1	
1L8587	*	NNO	81N	X-A-2		1LP131B	*	HAD		X-A-1	
1L8588	*	NNO	0U2	X-A-2		1LP131V	*	HAD		X-A-1	
1L8589	*	NNO	31N	X-A-2		1LP141	*	OR		X-A-1	
K1L8721	*	QNR	0U4	X-A-2	SCL5105\$	1LP141A	*	NOT	QUX	X-A-2	
K1L8722	*	QNR	10N	X-A-2		1LP141B	*	NOT	QUX	X-A-2	
K1L876A	*	MNR	0U3	X-A-2	CD4000ES	1LP142	*	OR		X-A-1	
K1L8765	*	MNR	0U2	X-A-2	CD4001ES	1LR142A	*	EXR	QUX	X-A-2	
K1L8766	*	MNR	0U4	X-A-2	CD4002ES	1LP142B	*	EXR	QUX	X-A-2	
K1L8767	*	MNR	0U2	X-A-2	CD4011ES	1LP143A	*	DP	61X	X-A-2	
K1L8768	*	MNR	0U4	X-A-2	CD4012ES	1LP143B	*	DP	61X	X-A-2	
K1L8769	*	MNR	TP3	X-A-2	CD4023ES	1LR144A	*	QR	0U2	X-A-2	
K1L87610	*	MNR	TP3	X-A-2	CD4025ES	1LP144B	*	DP	0U2	X-A-2	
K1L87611	*	MNR	0U4	X-A-2		1LP145A	*	OPX	0U4	X-A-2	
K1L87612	*	MNR	0U4	X-A-2		1LP1A5B	*	ORX	0U4	X-A-2	
K1L8781	*	QNR	0U4	X-A-2	SCL5105\$	1LR151	*	OPX	TP2	X-A-2	
K1L8782	*	QNR	10N	X-A-2		1LP201	*	MOS		X-A-1	
K1L88711	*	QNT	31N	X-A-2		1LP211	*			X-A-1	
K1L88713	*	QNT	0U3	X-A-2		1LP251	*	MOS		X-A-1	
K1L88715	*	QNT	51N	X-A-2		1LP281	*	ADR	ANX	X-A-2	
K1L8873	*	QNT	31N	X-A-2		1LP301	*	CRX	0U4	X-A-2	SN54H60\$
K1L8874	*	QNT	0U3	X-A-2		1LP311	*	ORX	0U4	X-A-2	SN74H60NS
K1L8877	*	QNT	51N	X-A-2		1LP331	*	CRX	0U4	X-A-2	SN5460\$
K1L29A1	*	NNO	0U4		SN15830NS	1LP333	*	ORX	81N	X-A-2	
K1L39A3	*	NNO	TP3		SN15862NS	1LP371	*	ORX	0U3	X-A-2	
K1L8945	*	NNO	0U2		SN15846NS	1LP372	*	OPX	0U3	X-A-2	
K1L8947	*	ORX	0U4		SN15833NS	1LP381	*	REC		X-A-2	
K1L8948	*	NNO	0U4		SN15832NS	K1LP381	*	PEC	X-A-2	ECL2530\$	
K1L89410	*	NNO	0U2		SN15858NS	1LR391	*			X-A-1	
K1L59A12	*	NNO	81N		SN151802NS	1LP421	*	MOS		X-A-1	
1L10A1	*	AND		X-A-1		1LP471	*	MCS		X-A-1	
1L10A2	*	AND		X-A-1		1LP551	*	OPX	0U4	X-A-2	SN7460NS
1L10A3	*	AND		X-A-1		K1LP551	*	EXP	0U4		FLY101\$
1L10A4	*	AND		X-A-1		1LP553	*	CRX	81N	X-A-2	
1L10A5	*	AND		X-A-1		K1LP553	*	EXR	81N	X-A-2	
1L1091	*	AND	61N	X-A-2		1LP561	*	ANX	0U2	X-A-2	
K1L1721	*	AND	0U2	X-A-2	MEM1014\$	K1LP761	*	ULS		X-A-2	CD4007ES
K1L1781	*	AND	0U2	X-A-2	MEM1014\$	K1LP871	*	ORX	0U3	X-A-2	
1LK0017	*	ORD	0U2	X-A-2		K1LP872	*	CRX	0U3	X-A-2	
1LK0019	*	ORD	0U2	X-A-2		1LR061	*	AO1	81N	X-A-2	
1LK0019	*	ORD	TP3	X-A-2		1LR061A	*	AO1	81N	X-A-2	
1LK0020	*	ORD		X-A-2		1LR062	*	AO1	81N	X-A-2	
1LK0021	*	ORD	0U4	X-A-2		1LR062A	*	AO1	81N	X-A-2	
1LL201	*	QOR		X-A-1		1LR063	*	ADR		X-A-1	
1LN4381	*	QND	0U2	X-A-2		1LP064	*	ADR		X-A-1	
1LN101A	*	INV		X-A-2		K1LP071	*	AOT	0U3	X-A-2	
1LN101B	*	INV		X-A-2		1LP271	*	ADP		X-A-1	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
1LR281A	*	ADR DRX	X-A-2			1MA191A.8		AGC	X-A-1		
1LR281B	*	ADR CPX	X-A-2			1N1		TP1 TWN	1N35=		
1LR301	*	AOT OU2	X-A-2	SN54H505S		1N1	*		XXIIIA		
1LR303	*	AOT OU2	X-A-2	SN54H535S		1N35	"	TP1 TWN II	1N1+, 1G6-GTS		
1LR304	*	AOT OU4	X-A-2	SN54H555S		1N0041			X-A-1		
1LR305	*	AOT OU2	X-A-2			1N0042			X-A-1		
1LR306	*	AOT OU2	X-A-2			1N0043			X-A-1		
1LR307	*	AOT OU4	X-A-2			1N0044			X-A-1		
1LR311	*	AOT OU2	X-A-2	SN74H50NS		1N50000	*	REV	X-A-2		
1LR313	*	AOT OU2	X-A-2	SN74H53NS		K1NT291A		OMP	X-A-1		
1LR31A	*	AOT OU2	X-A-2	SN74H55NS		K1NT291B		OMP	X-A-1		
1LR315	*	AOT OU2	X-A-2			K1NT2910		OMP	X-A-1		
1LR316	*	AOT OU2	X-A-2			K1NT291G		OMP	X-A-1		
1LR317	*	AOT OU2	X-A-2			K1NT291I		OMP	X-A-1		
1LR331	*	AOT OU2	X-A-2	SN545CS		K1NT291V		OMP	X-A-1		
1LR331A		ADP	X-A-1			K1NT291YE		OMP	X-A-1		
1LR331B		ADR	X-A-1			K1NT291ZH		OMP	X-A-1		
1LR333	*	AOT OU2	X-A-2	SN54535S		K1NT591	*	AMP	2N4042S		
1LR334	*	AOT OU2	X-A-2	SN54555S		K1NT591A		OMP	X-A-1		
1LR335	*	AOT OU2	X-A-2			K1NT591B		AMP	X-A-1		
1LR336	*	AOT OU2	X-A-2			K1NT5910		AMP	X-A-1		
1LR338	*	AOT OU2	X-A-2			K1NT591G		AMP	X-A-1		
1LR341		ADR	X-A-1			K1NT591I		AMP	X-A-1		
1LR341A	*	AOT OU2	X-A-2			K1NT591V		AMP	X-A-1		
1LR341B	*	AOT OU2	X-A-2			K1NT591YE		AMP	X-A-1		
1LR342		ADR	X-A-1			K1NT591ZH		AMP	X-A-1		
1LR342A	*	AOT OU2	X-A-2			K1NT661A	*	TRM	X		
1LR342B	*	AOT OU2	X-A-2			K1NT981	*	TRM	X		
1LR361	*	AOT OU2	X-A-2	SN54L515S		1P28	*	PNO SIN II	CK507AX		
1LR363	*	AOT OU2	X-A-2	SN54L545S		1P38		PNO SIN II			
1LR364	*	AOT OU2	X-A-2	SN54L555S		1P48	*	PNO SIN II			
1LR365	*	AOT OU2	X-A-2			1P58	*	PNO SIN II			
1LR366	*	AOT OU2	X-A-2			1P229	*	PNO SIN II			
1LR367	*	AOT OU2	X-A-2			1P248	*	PNO SIN II			
1LR421		WDS	X-A-1			1P329	*	PNO SIN II			
1LR551	*	AOT OU2	X-A-2			1PP191			X-A-1		
1LR551	*	AOT OU2	X-A-2	SN7450NS		K1PU871	*	LCV TEL	X-A-2		
1LR553	*	AOT OU2	X-A-2			K1PU872	*	LCV ETL	X-A-2		
K1LR553	*	AOT OU2	X-A-2	FLH171=		K1PU873	*	LCV	X-A-2		
1LR554	*	AOT OU2	X-A-2	SN7455NS		K1PU87A	*	LCV	X-A-2		
K1LR554	*	AOT OU2	X-A-2			K1RU331	*	MEM 168	SN54815S		
1LR555	*	AOT OU2	X-A-2			K1RU551	*	MEM 168	SN7481NS, FLQ111=		
K1LR555	*	AOT OU2	X-A-2			K1RU552	*	MEM 48	SN7489NS, FLQ101=		
1LR556	*	AOT OU2	X-A-2			1S12P		TRI SIN II	OC96=		
K1LR556	*	AOT OU2	X-A-2			1S38A	*	TRI SIN II			
1LR558	*	AOT OU2	X-A-2			1SV191		AMP	X-A-1		
K1LR558	*	ANR	X-A-2			1T303A			X		
1LR581	*	AOT OU2	X-A-2			1T303B			X		
K1LR581	*	AOT OU2	X-A-2	SN74L51NS		1T3030			X		
1LR583	*	AOT OU2	X-A-2			1T303G			X		
K1LR583	*	AOT OU4	X-A-2	SN74L54NS		1T303V			X		
1LR584	*	AOT OU2	X-A-2			1T303YE			X		
K1LR584	*	AOT OU2	X-A-2	SN74L55NS		1T308A				GT308A+	
1LR585	*	AOT OU2	X-A-2			1T308B				GT308B+	
1LR586	*	AOT OU2	X-A-2			1T308V				GT308V+	
1LR587	*	AOT OU2	X-A-2			1T403A				GT403A+	
K1LR721	*	AOT OU2	X-A-2	MEM100NS		1T403B				GT403B+	
K1LR781	*	AOT OU2	X-A-2	MEM100NS		1T4030				GT4030+	
1LS131A		ORD 4IN	X-A-2			1T403G				GT403G+	
1LS131B		ORD 4IN	X-A-2			1T403I				GT403I+	
1LS131V		ORD 4IN	X-A-2			1T403V				GT403V+	
1LS132A		ORD 4IN	X-A-2			1T403YE				GT403YE+	
1LS132B		ORD 4IN	X-A-2			1T403ZH				GT403ZH+	
1LS132V		ORD 4IN	X-A-2			1TK101A	*	FLP	X-A-2		
1LS151		ORD 4IN	X-A-2			1TK101B	*	FLP	X-A-2		
1LS271		ADR	X-A-1			1TK102A	*	FLP SMF	X-A-2		
1LS281A	*	ADR DRX	X-A-2			1TK102B	*	FLP SMF	X-A-2		
1LS281B	*	ADR DRX	X-A-2			1TK1020	*	FLP SMF	X-A-2		
1LS381	*	ORD	X-A-2			1TK102G	*	FLP SMF	X-A-2		
1LS382	*	ORD OU2	X-A-2			1TK102V	*	FLP SMF	X-A-2		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
1TK102YE	* FLP	EMF	X-A-2			1UE201		AMP	X-A-1		
1TK191A.8	SWI		X-A-1			K1UI1271	* PGN	AMP	X-A-2		
1TK251	MOS		X-A-1			K1UI1461	* AMP			SN5500\$	
K1TK301	* FLP	JK		SN54M725\$		1UI1461A	* SMP		X-A-3		
K1TK311	* FLP	JK		SN74M725\$		1UI1461B	* SMP		X-A-3		
K1TK331	* FLP	JK		SN54725\$		K1UI1462	* AMP			SN7522\$	
K1TK332	* FLP	O		SN54745\$		1UI1462A	* SMP		X-A-3		
K1TK361	* FLP	JK		SN54L725\$		1UI1462B	* SMP		X-A-3		
1TK383	* FLP	DUO	X-A-2			1UI1463A	* SMP		X-A-3		
1TK471	MOS		X-A-1			1UI1463B	* SMP		X-A-3		
K1TK551	* FLP	JK	X-A-2	SN7472N\$		1UI1464A	SMP		X-A-3		
K1TK552	* FLP	DUO	X-A-2	SN7474N\$		1UI1464B	SMP		X-A-3		
K1TK553	* FLP	JK	X-A-2			K1UI1691	* AMP				
K1TK554	* FLP	DUO	X-A-2			K1UI1692	* AMP				
K1TK555	* FLP	O	X-A-2			K1UI1693	* AMP				
K1TK556	* FLP	O	X-A-2			K1UI1701	* CVA	4CH	X-A-2		
K1TK581	* FLP	JK		SN74L72N\$		K1UI1702	* CVA	2CH	X-A-2		
K1TK761	* FLP	DUO	X-A-2	CO4003E\$		K1UI1704	* CVA		X-A-2		
K1TK762	* FLP	DUO	X-A-2			K1US181A	AMP		X-A-1		
K1TK941	* FLP	JK		SN15831N\$		K1US181B	AMP		X-A-1		
K1TM335	* SHR	AB		SN54775\$		K1US1810	AMP		X-A-1		
K1TM551	* FLP	AB				K1US181G	AMP		X-A-1		
K1TM555	* FLP	AB		SN7477N\$		K1US181V	AMP		X-A-1		
1TR0030	* FLP	DUO	X-A-2			K1US182A	AMP		X-A-1		
1TR0031	* FLP	DUO	X-A-2			K1US182B	AMP		X-A-1		
1TR0033	* FLP	DUO	X-A-2			K1US182V	AMP		X-A-1		
1TR0034	* FLP	DUO	X-A-2			1US191	AMP		X-A-1		
1TR061	* DND	JK	X-A-2			1US192	AMP		X-A-1		
1TR061A	* DND	JK	X-A-2			K1US221	* AMP			MC101\$	
1TR062	* DND	JK	X-A-2			1US221A	AMP		X-A-1		
1TR062A	* DND	JK	X-A-2			1US221B	AMP		X-A-1		
1TR063	ADR		X-A-1			1US2210	AMP		X-A-1		
1TR064	ADR		X-A-1			1US221G	AMP		X-A-1		
1TR131A	* FLP	2IN	X-A-2			1US221V	AMP		X-A-1		
1TR131B	* FLP	2IN	X-A-2			K1US222	* AMP	CMP		2A-30=	
1TR131V	* FLP	2IN	X-A-2			1US222A	AMP		X-A-1		
1TR132A	* FLP	2IN	X-A-2			1US222B	AMP		X-A-1		
1TR132B	* FLP	2IN	X-A-2			1US222V	AMP		X-A-1		
1TR132V	* FLP	2IN	X-A-2			K1US231	* LFA			MC1352\$	
1TR141A	* FLP	RS	X-A-2			1US231A	LFA		X-A-1		
1TR141B	* FLP	RS	X-A-2			1US231B	LFA		X-A-1		
1TR151	* NOR	FLP	X-A-2			1US231V	LFA		X-A-1		
1TR371	* FLP		X-A-2			1US481	AMP		X-A-1		
1TR373	* FLP		X-A-2			K1US671	AMP		X-A-1		
1TR381	* FLP	RS	X-A-2			K1US731A.8	LFA		X-A-1		
K1TR381	* FLP	RS	X-A-2	ECL2541\$		K1US731V	LFA		X-A-1		
1TR382	* FLP	O	X-A-2			1US732A.8	LFA		X-A-1		
K1TR382	* FLP	O	X-A-2	ECL2542\$		1US732V	LFA		X-A-1		
1TR421	MOS		X-A-1			K1US741	* LFA			CA3048\$	
K1TR721	* FLP	2PH	X-A-2	MEM1005\$		K1US744	* LFA			TA4300\$	
K1TR781	* FLP	2PH	X-A-2	MEM1005\$		1US771	AMP		X-A-1		
K1TR872	* TRG		X-A-2			K1US771	* AMP		X-A-4		
K1TR875	* TRG		X-A-2			K1US891	* AMP			SL891=	
1TS1	OIO	SIN		1TS1\$+. 1VD1+		K1UT181A	AMP		X-A-1		
1TS1\$	OIO	SIN	II	1TS1\$. 1VD1+. 1Z1\$		K1UT181B	AMP		X-A-1		
1TS7\$	OIO	SIN	II	CY30\$. 183/8016\$	9359-66	K1UT181V	AMP		X-A-1		
1TS11P	OIO	SIN	II			1UT191	AMP		X-A-1		
1TS20\$	OIO	SIN	II			K1UT221	* AMP			MC1525\$	
1TS21P	OIO	SIN	II	1S2\$. 0Y\$6\$. 0Y\$7\$	13849-68	1UT221A	AMP		X-A-1		
K1TSH181A	FLP		X-A-1			1UT221B	AMP		X-A-1		
K1TSH181B	FLP		X-A-1			1UT221G	AMP		X-A-1		
K1TSH181D	FLP		X-A-1			1UT221V	AMP		X-A-1		
K1TSH151G	FLP		X-A-1			1UT321	AMP		X-A-1		
K1TSH181V	FLP		X-A-1			1UT321A	OPA		X-A-1		
1TSH191	SCH		X-A-1			1UT321B	OPA		X-A-1		
K1UB181A	AMP		X-A-1			1UT322A.8	OPA		X-A-1		
K1UB191B	AMP		X-A-1			1UTA01A	* OPA		X-A-4		
K1UB181G	AMP		X-A-1			K1UT401A	* OPA		X-A-4		
K1UB191V	AMP		X-A-1			1UT401B	* OPA		X-A-4		
1UB191	AMP		X-A-1			K1UTA01B	* OPA		X-A-4	SN7510\$	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
1UT402	* OPA	X-A-4				GZH2	PND SIN			G413+	
K1UT402	*			MA7098		I-2-50/1.5	* TRI IGN IV				
<1UT402A	* OPA	X-A-4				I2-70/0.8	* TRI IGN IV				15480-79
K1UT402B	* OPA	X-A-4				I2-140/0.8	* TRI IGN IV				15481-79
K1UT531	*			MA7098		I2-200/1.5	* TET IGN IV				15282-77
1UT771	AMP	X-A-1				12-350/0.8	* TRI IGN IV				15482-70
K1UT771	* AMP			MC15268		IN-2	* XXII]-A				
K1UT771A	* OMP	X-A-4				KF-2	BEA T=IN			GU-32+, 832-48	
K1UT771B	* OMP	X-A-4				KS-2	TRI SIN			GU-4+	
1UYE191	AMP	X-A-1				KZH-2	BEA SIN			G-807+, 8978	
1V3/8016	OIO SIN			1TS75+, 183/80168		WTI-2	TRI THY			TGI-200+	
1V01	OIO SIN			1TS1, 1TS15+		OG-2	DEC			XXII];	
1V02	OIO SIN			1TS75+, 183/80168		OV-2	* BWT			IX	
1Y54A	TRI SIN II					P2A				X	
K1YEN421	* REG			7238		P2B				X	OC9218
1ZH1ZH	PND SIN II					PT-2	TRI THY			TG-2138	
1ZH2	PND SIN			1ZH2M+		R-2				XXII	
1ZH2M	PND SIN II			1ZH2*		R-2M				XXII	
1ZH178*	PND SIN II					PB-2				XXII	
1ZH188*	PND SIN II					S2A				X	
1ZH248*	PND SIN II					S2B				X	
1ZH26A	PND SIN II					S2G				X	
1ZH298*	PND SIN II					S2V				X	
1ZH308	PND SIN II					SF-2-1				XV	
1ZH368*	PND SIN II					SF-2-2				XV	
1ZH378*	PND SIN II					SF-2-4				XV	
1ZH424*	PND SIN II					SF-2-5	* COS			XV	
AS-2	COU	XXI				SF-2-8	* COS			XV	
O2A	REC	XI		OG-TS6**		SF-2-9				XV	
O2B	REC	XI		OG-TS10**		SF-2-12				XV	
O2D	REC	XI		OG-TS2**		SF-2-16	* COS			XV	
O2G	REC	XI		OG-TS1**		SG2P	OIO SIN V			O828	13283-67
O2I	* REC	XI				SG2S	OIO SIN V			O438	
O2K	REC	XI		OG-TS6**		SI-2B	COU			XXI	
O2M	REC	XI		OG-TS7**		SI-2BG	COU			XXI	
O2N	REC	XI		OG-TS15**		SK2-5.6/2000	REG			XIII	
O2P	REC	XI		OG-TS16**		SK2-6.8/2000	REG			XIII	
O2R	REC	XI				SK2-8.2/2000	REG			XIII	
O2V	REC	XI		OG-TS8**		SK2-10/1000	REG			XIII	
O2YE	REC	XI		OG-TS4**		SK2-12/1000	REG			XIII	
O2ZH	REC	XI		OG-TS5**		SK2-15/1000	REG			XIII	
OG-S2	MIX	XIV				SK2-18/700	REG			XIII	
OG-TS2	PEC	XI		O2D+		SK2-22/300	REG			XIII	
O1-2-10	OIO SIN			2015+		SK2-24/300	REG			XIII	
OK-12M	* MIX	XIV				SK2-28/300	REG			XIII	
OK-S2M	* MIX	XIV				SK2-30/300	REG			XIII	
OK-V2	* DET	XIV				SK2-36/300	REG			XIII	
OKHG-2	* GE	XI-F				SK2-43/300	REG			XIII	
OKHG-2M	* GE	XI-F				SK2-51/200	REG			XIII	
OKHG-2S	* GE	XI-F				SK2-62/200	REG			XIII	
OL-S2	MIX					SK2-75/100	REG			XIII	
OSH2-10	OIO SIN			2025+		SK2-91/100	REG			XIII	
F-2	* PHO	XVI				SK2-110/100	REG			XIII	
FD-2	* PHC	XV				SK2-120/100	REG			XIII	
FEU-2	* PHM	XVI				SK2-150/100	REG			XIII	
FEU-2B	PHM	XVI				SK2-180/100	REG			XIII	
FEU-2B1V	PHM	XVI				SK2-220/50	REG			XIII	
FEU-2M	PHM	XVI				SK2-270/50	REG			XIII	
FEU-2V	PHM	XVI				SK2-300/50	REG			XIII	
FS-2A	PHC	XV				ST-2-26				XIX	
FS-B2	PHC	XV				ST2S	BAL T=IN VI				7162-70
FS-K2	PHC	XV				ST5-2	COU			XXI	
FSA-G2		XV				STSV-2A	PHC			F-2+	
FSK-G2		XV				TG2-01/01	TRI THY VII			10508	
GE-2	TET SIN III			GXE-150=		TG2-0.5/12	TRI THY VII				
G4I-2B	TRI SIN III					TG-2.5/5	TRI THY VII			VT-1	
GS-2B	TRI SIN III					TGI-2-260/12	TRI THY VII				
GSH-2	* NCI	IX				TGI-2-32516	TRI THY VII				
GU-2	BEA SIN II					TGI-2-400/16+THV	TRI VII				
GUZH-2	BEA SIN			5897+, 8978		TGI-2-40035	TRI THY VII				

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC.NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO
TGI-2.5/3	TRI	THY		TGI-2.5/A++		2IR403A	*	SHR	X-A-2		
TGI-2.5/10	TET					2IR403B	*	SHR	X-A-2		
TKH-2	TRI	THY VII				2ISA01A	*	FAD	X-A-2		
TKI-2	TMS	MEA XIX				2ISA01B	*	FAD	X-A-2		
TC-2	PND	SIN		10P125+		2IYE111			X-A-1		
TP-2/0.5	REG	V				2IYE112			X-A-1		
TP-2/2	REG	V				2IYE161	*	COU	X-A-2		
TSH-2	TMS	MEA XIX				2IYE162	*	COU	X-A-2		
TV-2	THM	XVIII				2IYE231	*	COU SHR	X-A-2		
TVB-2	THM	XVIII				2IYE301	*	COU	X-A-2		
VO2	OIO	SIN		V1-2/A0+		2IYE302	*	COU	X-A-2		
V2-06/25	* OIO	SIN IV				2IYE303	*	COU	X-A-2		
VI-2-27/35	OIO	SIN IV				2IYE311	*	COU	X-A-2		
VI-2-70/32	OIO	SIN IV				2IYE401A	*	COU	X-A-2		
VI-2-100/50	OIO	SIN IV				2IYE401B	*	COU	X-A-2		
V2 500	* REC	SI XII				2J55	MAG	IX			
VK2-10	* REC	SI XII				2KI	PND	II		2K1M+	
VK2V-500	* REC	SI XII				2K1M	RND	SIN II		2K1*, 59241*	
2A1	PTG	SIN II		50242** 24IM		2K2	RND	SIN		2K2M*	
2A1M	RTG	SIN		50242**		2K2M	PND	SIN II		1E5G*, 2K2*, 50241*	
2A3	TRI	SIN		25A3+, 2A3*		2K028I	COM	X-A-1			
2A201A		XIV				2K0282	COM	X-A-1			
2A202A		XIV				2K035I	COM	X-A-1			
20IL	OIO	SIN II				2KH1	OIO	SIN		2KH1L+	
20IS	OIO	SIN II		0I-2-10+		2KH1L	OIO	SIN II		2KH1*	
2025	* OIO	SIN II		0SM2-10+		2KH2	OIO	SIN		2V08A+, 2TS2S+, 2X2S	
2038	* OIO	SIN II			17099-71	K2KT241	COM	X-A-1			
2035	OIO	SIN II				2KT281	SWI	X-A-1			
2075	* OIO	SIN II				2L9011	* NRT	AIN	X-A-2		
2095	* OIO	SIN II				2L9012	* NRT	AIN	X-A-2		
2021	TET	THY		TG3-0.1/1.3+, 2021*		2L9013	* NRT	AIN	X-A-2		
20503A	SI			K0503A+		2L9014	* NRT	6IN	X-A-2		
20503B	SI			K0503A+		2L9015	* NRT	SIN	X-A-2		
20A181	OET	X-A-1				2L9016	* NRT	SIN	X-A-2		
20A351	AMP	X-A-1				2L9017	* NRT	SIN	X-A-2		
20S191	LIM	X-A-1				2L9041	* NRD	6IN	X-A-2		
K20S241	* OET	X-A-1				2L9042	* NRT	3IN	X-A-2		
20S351	OET	X-A-1				2L9051	* NDR	AIN	X-A-2		
2E1	TET	SIN II				2L9052	* NDR	2IN	X-A-2		
2E2	TET	SIN II		UB155+		2L9053	* NDR	2IN	X-A-2		
2E2P	* TET	TWN II				2L9071	NOR	X-A-1			
2F2M	TRI	SIN				2L9072	NOR	X-A-1			
2GF201	FIL	X-A-1				2L9073	NOR	X-A-1			
2GF181	MVB	X-A-1				2L9074	NOR	X-A-1			
2GF182	MVB	X-A-1				2L9075	NOR	X-A-1			
2GS191	MVB	X-A-1				2L9076	NOR	X-A-1			
2GS192	OSC	X-A-1				2L9111	NNO	X-A-1			
2GS193	OSC	X-A-1				2L9112	NNO	X-A-1			
K2GS371	REG	X-A-1				2L9113	NNO	X-A-1			
						2L9114	NNO	X-A-1			
2ID231	* OED	X-A-2				2L9115	NNO	X-A-1			
2ID291	* OED	X-A-2				2L9116	NNO	X-A-1			
2IL071	X-A-1					2L9117	NNO	X-A-1			
2IL072	X-A-1					2L9118	NNO	X-A-1			
2IL073	X-A-1					2L9119	NNO	X-A-1			
2IL231	* MAD	X-A-2				2L91110	NDR	X-A-1			
2IL291	* MAD	QUO				2L91111	NOR	X-A-1			
2ILA01B	* MAD	X-A-2				2L91112	NOR	X-A-1			
2ILA01V	* MAD	X-A-2				2L91161	* NDR	X-A-2			
2IR301	* COR	X-A-2				2L91162	* NDR	X-A-2			
2IR111	X-A-1					2L91163	* NDR	X-A-2			
2IR112	X-A-1					2L91164	* NDR	OU5	X-A-2		
2IR161	*	X-A-2				2L91165	* NDR	OU5	X-A-2		
2IR162	*	X-A-2				2L91166	* NDR	OU5	X-A-2		
2IR301	* RGS	X-A-2				2L91167	* NRT	QU2	X-A-2		
2IR302	* SHR	X-A-2				2L91168	* NRT	QU2	X-A-2		
2IR401A	* RGS	X-A-2				2L91169	* NRT	QU2	X-A-2		
2IR401B	* RGS	X-A-2				2L91170	* NDR	QU2	X-A-2		
2IR402A	* RGS	X-A-2				2L91171	* NDR	QU2	X-A-2		
2IR402B	* RGS	X-A-2				2L91172	* NDR	QU2	X-A-2		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
2L8171A	* NPO	8IN	X-A-2			2L8211			X-A-1		
2L81719	* NPO	8IN	X-A-2			2MP351	400		X-A-1		
2L8172	* NNO		X-A-1			2MS191			X-A-1		
2L8172A	* NPO	TP2	X-A-2			2MS192			X-A-1		
2L8172B	* NPO	TP2	X-A-2			2N1	TRI	DUO	II	1J6GT*, 2N1M*, S8243, SQ243	
2L8173	* NPO	6IN	X-A-2			2N1M	TRI	DUO		2N1*, S3243+, S0243+	
2L8173A	* NRO	6IN	X-A-2			2N0021	* DIA	6IN	X-A-2		
2L8174A	* NPO	DU3	X-A-2			2N0022	* DIA	TP3	X-A-2		
2L8174B	* NPO	DU3	X-A-2			2NK041	* DIA	4IN	X-A-2		
2L8181			X-A-1			2NK051	* AND	4IN	X-A-2		
2L8211			X-A-1			2NK281			X-A-1		
2L8231	* NOR	QU2	X-A-2			2NS191A			X-A-1		
2L8232	* ONR	OU4	X-A-2			2NS191B			X-A-1		
2L8232B	* NOR		X-A-1			2NT011	* TRM		X		
2L8401A	* NNO		X-A-2			2NT012	* TPM		X		
2L8401B	* NNO		X-A-2			2NT013	* TRM		X		
2L8401V	* NNO		X-A-2			2NT171	* TPM		X-A-2		
2L8402	* NNO	PO	X-A-2			2NT172	* TPM		X-A-2		
2L8403A	* NNO		X-A-2			2NT173	* TPM		X-A-2		
2L8403B	* NNO		X-A-2			2NT191			X-A-1		
2L8403V	* NNO		X-A-2			2NYE281			X-A-1		
2L8404A	* NNO		X-A-2			2P1	BEA	SIN	II	S8244+, S0244+	
2L8404B	* NNO		X-A-2			2P1M	BEA	SIN		2P1P+, S8244	
2L8404V	* NNO		X-A-2			2P1P	BEA	SIN	II	OL94+, 2P1M, 3S4S	8005-66
2L8405	* NNO	PO	X-A-2			2P2	BEA	SIN	II	3S4S	
2L8406A	* NNO		X-A-2			2P2P	* BEA	SIN	II	OL92+, 3S4S	9947-66
2L8406B	* NNO		X-A-2			2P3	BEA	SIN	II	S8258+, SQ258+, 2P2M+	
2L8406V	* NNO		X-A-2			2P5B	* PNO	SIN	II		
2L1041	* AND	3IN	X-A-2			2P9	BEA	SIN		2P9M+, 2P9S	
2L1331			X-A-1			2P9M	BEA	SIN	II	2P9+, 2P9S, 6AK7	
2LN021	* NOT	OU2	X-A-2			2P9S	BEA	SIN		2P9M+, 2P9	
2LN022	* NOT	OU2	X-A-2			2P19B	PNO	SIN	II		
2LN051	* NOT	4IN	X-A-2			2P21S	BEA	SIN			
2LN052	* NNO		X-A-1			2P29	PNO	SIN		2P29L+	
2LN111	* NNO		X-A-1			2P29L	* PNO	SIN	II		
2LN112	* NNO		X-A-1			2P29P	PNO	SIN	II		
2LN113	* NNO		X-A-1			2P0281	CN		X-A-1		
2LN114	* NNO		X-A-1			2P0282	CN		X-A-1		
2LN115	* NNO		X-A-1			2PK301	* COP		X-A-2		
2LN116	* NNO		X-A-1			2PM351	AMP		X-A-1		
2LN151	* NOT	2IN	X-A-2			2PN151	* VCN	6IN	X-A-2		
2LN161	* NOT		X-A-2			2PN152	* VCN	3IN	X-A-2		
2LN162	* NOT		X-A-2			2PN381	AGC		X-A-1		
2LN163	* NOT		X-A-2			2PP241	REG		X-A-1		
2LN164	* NOT		X-A-2			2PP351	AGC		X-A-1		
2LN165	* NOT		X-A-2			2PS351	CN		X-A-1		
2LN166	* NOT		X-A-2			2S1	TRI	SIN	II	UB152+	
2LN181	INV		X-A-1			2S2	TRI	SIN	II	UB240+	
2LN182	INV		X-A-1			2S3	TRI	SIN		2S4S+, 2A3S	
2LN183	INV		X-A-1			2S3A	* TRI	SIN	II		
2LN211	NOP		X-A-1			2S3M	TRI	SIN		2S2+	
2LP021	* DIA	TP2	X-A-2			2S4S	* TRI	SIN	II	2A3S	
2LP022	* DIA	OU3	X-A-2			2S14B	* TRI	SIN	II		
2LP171	* EXP	OU4	X-A-2			2S22	TRI	SIN		5S8S+, 2C22S	
2LP172	* EXP	8IN	X-A-2			2S49D	* TRI	SIN	II		
2LP173	* DIA	8IN	X-A-2			2S-156A	PEG	SI	XIII		
2LP401	* ANX		X-A-2			2S-168A	PEG	SI	XIII		
2LP4171	* A01	8IN	X-A-2			2S920A.P	REG	SI	XIII		
2LP221	* ANP		X-A-1			2S930A.P	REG	SI	XIII		
2L3011	* AOP	4IN	X-A-2			2S950A.P	REG	SI	XIII		
2L5021	* AOR	OU2	X-A-2			2S980A.P	REG	SI	XIII		
2L5022	* AOP	OU2	X-A-2			2SV381	AMP		X-A-1		
2L5023	* AOP	OU2	X-A-2			2T301				KT301+	
2L5024	* AOP	OU2	X-A-2			2T301A				KT301A+	
2L5025	* AOP	OU2	X-A-2			2T301B				KT301B+	
2L5026	* AOR	OU2	X-A-2			2T3010				KT3010+	
2L5027	* AOP		X-A-1			2T301G				KT301G+	
2L5028	* AOP		X-A-1			2T301V				KT301V+	
2L5181	* AOR	OU2	X-A-2			2T301Y				KT301Y+	
2L5152	* AOP	OU2	X-A-2			2T301ZM				KT301ZM+	

GROUP 1 - NUMERICAL

TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
2TK041	* FLP	JK	X-A-2			2US284	AMP		X-A-1		
2TK171A	* FLP	JK	X-A-2			2US285	AMP		X-A-1		
2TK171B	* FLP	JK	X-A-2			2US351	AMP		X-A-1		
2TK181	FLP		X-A-1			2US352	AMP		X-A-1		
2TK291	* FLP	QUD	X-A-2			2US353	AGC		X-A-1		
2TM-20	TRI	TWN	III			2US354	LFA		X-A-1		
2TM-100	TRI	TWN	III			2US355	LFA		X-A-1		
2TR071			X-A-1			2US356	AMP		X-A-1		
2TR072			X-A-1			2US357	AGC		X-A-1		
2TR073			X-A-1			K2US371	LFA		X-A-1		
2TRI11		NOR	X-A-1			K2US372	LFA		X-A-1		
2TRI12		NOR	X-A-1			K2US373	AMP		X-A-1		
2TRI13		NOR	X-A-1			2US381	AMP		X-A-1		
2TRI14		NOR	X-A-1			2US382	AMP		X-A-1		
2TRI15		NOR	X-A-1			2V6	OIO	APC	IV		
2TRI16		NOR	X-A-1			2V12	OIO	ARC	IV		
2TR161	* FLP	NOR	X-A-2			2V20	OIO	ARC	IV		
2TR162	* FLP	NOR	X-A-2			2V08	OIO	SIN	II		
2TR163	* FLP	NOR	X-A-2			2VN12	OIO	APC	IV		
2TR164	* FLP	RS	X-A-2			2VN20	OIO	ARC	IV		
2TR165	* FLP	RS	X-A-2			2UYE181	AMP		X-A-1		
2TR166	* FLP	RS	X-A-2			2ZH1M	PNO	SIN	II	S8245+	
2TR171A	* FLP	RS	X-A-2			2ZH2B	PNO	SIN			
2TR171B	* FLP	RS	X-A-2			2ZH2M	PNO	SIN	II		
2TR172			X-A-1			2ZHA	PNO	SIN	II	S0257+	
2TR211	FLP		X-A-1			2ZH148*	PNO	SIN	II		
2TR231	* FLP	RS	X-A-2			2ZH158*	PNO	SIN	II		
2TS051	* FLP	4IN	X-A-2			2ZH27	PNO	SIN		2ZH27L+	
2TS25	* OIO	SIN	II	2X25	8527-65	2ZH27L*	PNO	SIN	II	2ZH27+	
K2TS241	FLP		X-A-1			2ZH27P*	PNO	SIN	II		
2U-101A	SCR			KU101A+		2ZH28L	PNO	SIN	II		
2U-101B	SCR			KU101B+		K2ZHA241	MIX		X-A-1		
2U-101C	SCR					K2ZHA242	MIX		X-A-1		
2U-101G	SCR			KU101G+		K2ZHA243	AGC		X-A-1		
2U-101V	SCR					K2ZHA244	AMP		X-A-1		
2U-101YESCR				KU101YE+		K2ZHA371	CN		X-A-1		
K2U8241	AMP		X-A-1			K2ZHA372	OET		X-A-1		
2UE181	EMF		X-A-1			K2ZHA373	AMP		X-A-1		
2UE182	EMF		X-A-1			2ZHL291	*		X-A-2		
2UI021	* PA	TR2	X-A-2			03A	OET		XIV		
2UI071	AMP		X-A-1			03B	OET		XIV		
2UI111	AMP		X-A-1			OG-53	MIX		XIV		
2UI151	* PA		X-A-2			OG-TS3	REC		XI		
2UPI161	* PA		X-A-2			OK-53	MIX		XIV		
2UI181	AMP		X-A-1			OK-V3	* OET		XIV		
2UI182	AMP		X-A-1			OL-53	MIX				
2UI183	AMP		X-A-1			EM-3	TET	SIN	II		
2UN021			X-A-1			F-3	* PHO		XVI		
2UN022			X-A-1			FO-3	GE		XV		
K2UP241	MIX		X-A-1			FEU-38	PHM		XVI		
2US181	AMP		X-A-1			FEU-3M	PHM		XVI		
2US191A	AMP		X-A-1			FEU-R3	PHM		XVI		
2US191B	AMP		X-A-1			FS-3A	PHC		XV		
2US192	AMP		X-A-1			FS-K3	PHC		XV		
2US193	AMP		X-A-1			GI-3	TRI	SIN	III	2C26A5	
2US194	AMP		X-A-1			GI-3/100	TRI	SIN		GI-3+	
2US201	AMP		X-A-1			GK3A	TRI	SIN	III		
2US202			X-A-1			GM-3A	* TRI	SIN	III		
K2US241	AMP		X-A-1			GM-3B	* TRI	SIN	III		
K2US242	AMP		X-A-1			GM3P	TRI	SIN	III		
K2US243	AMP		X-A-1			GM1-3	TET	SIN	III		
K2US244	LFA		X-A-1			GS-3B	TET	SIN	III		
K2US245	LFA		X-A-1			GSH-3	* NOI		IX		
K2US246	AMP		X-A-1			GU-3	BEA	SIN	III		
K2US247	LFA		X-A-1			GUZH-3	BEA	SIN		G1425+, 16255	
K2US248	LFA		X-A-1			KF-3	BEA	SIN		GU-13+, 8135	
K2US249	LFA		X-A-1			KZH-3	BEA	SIN		G-1625+, 16255	
2US281	AMP		X-A-1			L13	IC		VIII-A		
2US282	AMP		X-A-1			LIM-3	LAM		XXIV		
2US283	AMP		X-A-1			MO3	*		XI		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
MS3	TPI	SIN		GM57+, UB190+, M457+		3S9	TPI	SIN	II		
OG-3	* DEC	XXIII				3TSI65+	OIO	II		3A3+, 3B2+	
P3A		X				3TSI8P+	OIO	SIN	II		10372-67
P3B		X				3TS225+	OIO	SIN	II	GY501+	10606-74
P3V		X				3V30	OIO	APC	IV		
PIM-3	IC	VIII				3VN30	OIO	APC	IV		
P-3	TRI	THY		TG-235++		3VN60	OIO	APC	IV		
P-3		XXII				3VNI00	OIO	APC	IV		
RB-3		XXII			15630-70	3VPI	OS			BLO29+, 3BPIA+	
S3A		X				3ZH19V+	PNO	SIN	II		
S3B		X				3ZH28V+	PNO	SIN	II		
S3D		X				OG-S4	MIX	XIV			
S3G		X				OG-TS4	PEC	XI		O2YE++	
S3V		X				OK-S4	MIX	XIV			
S3VE		X				OK-V4	* DET	XIV			
SBT-3	COU	XXI				OL-S4	MIX				
SF3-1		XV				EM-4	* TPI	SIN	II	IE3P+	
SF3-2A	* COSE	XV				F-4	* PHO	XVI			
SF3-2B	* COSE	XV				FEU-4	* PHM	XVI			
SF3-4A	* COSE	XV				FS-4A	PHC	XV			
SF3-4B	* COSE	XV				FS-K4	PHC	XV			
SF-3-5	* COS	XV				GI-4A	TPI	SIN	III		
SF3-7A	* COSE	XV				GKV-4	TPI	SIN		GU-4+	
SF3-7B	* COSE	XV				GMI-4B	-TET	SIN	III		
SF-3-8	*	XV				GS-4	TPI	SIN	III		
SF3-16	* COSE	XV				GS-4	COU	XXI			
SG3P	PEG	V				GS-4B	* TRI	SIN	III	G43I+	
SG3S	OIO	SIN	V	OC3+		GS40	TPI	SIN	III		
SI-3B	COU			MST-1B+		GU4	TPI	SIN	III		
SI-3BG	COU	XXI				GU44	TPI	SIN	III		
SNM-3	COU	XXI				IN-4	*	XXIII-A			
ST3P	OIO	SIN	VI			KMT-4	* TMS	XIX			10688-63
ST3-14	* TMS	MEA	XIX			KS-4	TPI	SIN		GU-150+	
ST3-17	TMS	MEA	XIX			LIM-4	LAM	XXIV			
ST3-18		XIX				LN-4	* ST	VIII			
ST3-19	TMS	MEA	XIX			LP-4	* COM	VII			
ST-3-21		XIX				MHT-4	* TMS	XIX			10688-63
ST-3-22		XIX				MS-4	COU	XXI			
ST3-23	TMS	COM	XIX			MSTP-4	COU	XXI			
ST-3-24		XIX				MTI-4	TPI	THY		TGI-1-90/B+	
ST3-25	TMS	MEA	XIX			OG-4	DEC	XXIII			
ST-3-26		XIX				P4				2N68+	
ST3-32	* TMS	MHC	XIX			P4AE	*	X			
STS-3	COU	XXI				P4BE	*	X			
STSV-3	* PHO	XVI				P4DE	*	X			
TG3-0.1/1.3	TET	THY	VII	2021+		PAGE	*	X			
TG3-2.5/10	TPI	THY	VII		13875-68	P4L	*	X			
TKH3B	TET	THY	VII			P4VE	*	X			
TKI-3	TMS	MEA	XIX			PIM-4	IC	VIII			
TD-3	PNO	SIN		7ZH125+		R-4		XXII			
TSG-3	* PHO	XVI				S44		X			
TSV-3	PHO	XVI				S4B		X			
TVB-3	THM	XXIII				S4G		X			
VOT-30	OIO	SIN		VI-1-30/25+		S4V		X			
VT-3	TPI	THY		*PI-5/2++		SBS-4	COU	XXI			
3A4S	PNO	SIN	II			SF-4-1	PHC	XV			
3B4S	BEA	SIN	II			SG4S	OIO	SIN	V	G03+	
306A-V+	OIO	SIN	II			SI-4BG	COU	XVI			
3E29	BEA	THN		GI-30+, 3E29+		SI-4G	COU			VS-97+	
3I-30IA	TUN			AI30IA		ST-4-15	TMS	XIX			
3I-30IB	TUN			AI30IB		STEV-4	* PHO	XVI			
3I-30IG	TUN			AI30IG		TGI-4	TPI	THY		TGI-1-130/10+	
3I-30IV	TUN			AI30IV		TKH-4B	TET	THY	VII		
3J2I	MAG	IX				TQ-4	PNO	SIN		*PI25+	
3LKIB	* TV	VIII				TSG-4	* PHO	XVI			
3LOI-1+		VIII				TSV-4	PHO	XVI			
3S1	TPI	SIN	II	TC-141+		T/-4	THM	XXIII			
3S2	TPI	SIN	II	TO-142+		TVB-4	THM	XXIII			
3S6B-V+	TPI	SIN	II			VOI-4Q	OIO	SIN		VI-1-70/32+	
3S7B-V+	TPI	SIN	II			VS-4	COU	XXI			

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TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
402		OIO SIN		4TSGS+		SGSB		OIO SIN V			
405S	"	OIO SIN II				SGSB-V	REG			SGSB+	
4017P		OIO SIN II				SGS-5	CCU	XX1			
4E1		TET SIN II				SNM-5	COU	XX1			
4E2		TET SIN II				SNMU-5	"	COU	XX1		
4E3		TET SIN II				STS-5	COU	XX1			
4F6S		8EA SIN II				TGSR	"	TET THY VII			
4J26-30		MAG IX				TKH-5A	TRI THY VII				
4J4S		MAG IX				TKH-5B	TRI THY VII				
4J50		MAG IX				TV-5	THM	XVII1			
4LKIL	"	ELS VII1				TVB-5	THM	XVII1			
4N1		TFI OVO II		S8259+, S2259+		UV-5	TWT	IX			
4P1		PNO SIN II				VG-5	POW				
4PIL	"	PNO SIN II				5100061	"	OEO 3B	X-A-2	MC10161P3	
4P2		PNO SIN				5100062	"	OEO 3B	X-A-2	MC10162P3	
4P6L		PNO SIN				5100064	"		X-A-2	MC10164P3	
4P10S		PNO SIN II				K5140030	"	FLP OVO		SN10130N3	
4S1		TRI SIN II		UB107+		K51M0031	"	FLP OVO		SN10131N3	
4S2		TRI SIN II		UB110+		K51M0033	"	FLP OVO		MC10133P3	
4S3		TRI SIN II				K51M0034				MC10134P3	
4S3S		TRI SIN II				K51P0079				MC10179P3	
4S4		TRI SIN II				51P0081	"	4B	X-A-2	SN10181N3	
4S5		TRI SIN II		SO-185+		51YE0060	"	12B	X-A-2	MC10160P3	
4TS14		OIO SIN		4TS65+		SJAM0040	"	MEM 64B	X-A-2		
4TS6S	"	OIO SIN II				SJAM0040A	"	MEM 16B	X-A-2		
4TS14S	"	OIO SIN II				SJAP0040B	"	MEM 4B	X-A-2		
4VO1		OIO SIN II				5LB0001	"	ONR OU2	X-A-2		
4VKH1		OIO THN II		VO-188**		5LB0002	"	NOR OU2	X-A-2	SN10102N3	
4VKH2		OIO SIN II		VO-188**		5LB0005	"	ONR TR2	X-A-2		
4ZH1L	"	PNO SIN II				5LB0006	"	NOR TR4	X-A-2	SN10106N3	
4ZH1P		PNO SIN II				5LB0009	"	ONR OUA	X-A-2		
4ZH4		PNO SIN		SO124+		5LB0010	"	OR OUA	X-A-2		
4ZH5		TET SIN II		4ZH5S+		5LB0011	"	NOR OUA	X-A-2	MC10111P3	
4ZH5S		PNO SIN II				5LK0017	"	ORO OUA	X-A-2	SN10117N3	
OG-TSS		REC XI		O2ZH**		5LK0018	"	ORO OUA	X-A-2		
OK-S5		NIX XIV				5LK0019	"	ORO TR3	X-A-2		
OK-V5M	"	OET XIV				5LK0020	"	ORO	X-A-2		
FM-5	"	TET OBA II				5LK0021	"	ORO OUA	X-A-2	MC10121P3	
F-5	"	PHO XVI				K5LK0021	"	ORT			
FEU-5	"	PHM XVI				K5LL0010	"	OR OUA			
FEU-0S		PHM XVI				K5LM0001	"	ONR OUA		SN10101N3	
FS-K5		PHC XV				K5LM0005	"	ONR TR2		SN10105N3	
G-5		TRI SIN		M39+		K5LM0009	"	ONR OUA		SN10109N3	
G-5A		TRI SIN		GUSA+		5LO18	OS			5LO3B+, 2AP1S	
G-5RA		TRI SIN		GU-5B+		5LO381	OS		VIII	2AP1S	17797-72
GI-5B		TRI SIN III				5LP0007	"	TRA	X-A-2	SN10107N3	
GK5A		TRI SIN III				5LP0015	"	OVO REC	X-A-2	SN10115N3	
GM1-5		TET SIN III				5LP0016	"	TRI REC	X-A-2	SN10116N3	
GP-5	"	TRI SIN II		19524-74		5LP0079	"		X-A-2		
GP-5	"	TRI SIN III				K5LS0018	"	ORO OUA		SN10118N3	
GS-5B		TRI SIN		G433A+		K5LS0019	"	ORO OUA		SN10119N3	
GSM-5		NOI IX				5NS0C00	"	RE4	X-A-2		
GUSA		TRI SIN III		12402-66		K5NT041A	"	SFP	X-B		
GUSB		TRI SIN III		12403-66		K5NT041B	"	SFP	X-B		
GUO-5		TRI SIN		G120+		K5NT041V	"	SFP	X-B		
LNS	"	ST VII1				K5NT043A	"	SFP	X-B		
LP-5	"	COM VII				K5NT043B	"	SFP	X-B		
MMT-5		TNS MEA XIX				K5NT043V	"	SFP	X-B		
MTI-5		TRI THY		TG1-I-32516+		K5RU0040		64B		MC10140P3	
OG-5		OEC XXIII				5SRI	OS			5CP1A3	
PEA		X				5SR7	OS			5CP7A3	
PEB		X		2N107S		5TR0030	"	FLP OUA	X-A-2		
PEO		X		CK727S		5TR0031	"	FLP OUA	X-A-2		
PEG		X		2N65S		5TR0033	"	FLP OUA	X-A-2		
PSV		X				5TR0034	"	FLP OUA	X-A-2		
PSYE		X				5TS3S	"	OWO SIN II		5U4GS	8360-66
R-5	"	XXII		15632-70		5TS4	"	OIO OVO		5TS4S+, 5Z4GS	
RB-5	"	XXII		15631-70		5TS4M	"	OIC OVO II		5Z4S	
RB-5A		XXII				5TS4S	"	OIO OVO II		5Z4S	8079-67
SBS-5		CCU XXI				5TSBS	"	OWO SIN II			8361-66

GROUP 1 - NUMERICAL

TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
STS95	"	OWD SIN II	1502+		8362-66	6BKHI	OIO DUD			6KH55+	
STS95E		OWD SIN				6DIA	OIO SIN			6D64+, 5704s	
STS12P	"	OIO SIN II				6DIZH	OIO SIN			6D+ZH+, 9204s	
K5US041A	"	SFP	X-9			603D	"	OIO SIN II		559s	
K5US041B	"	SFP	X-8			60+ZH	"	OIO SIN II		9004s	
K5US041V	"	SFP	X-8			606A	"	OIO SIN II		5704s, 601A+	
SVKMI	OWD SIN		5Z+G5			608D	"	OIO SIN II			
SVKH2	OWD SIN II		5U4G5			6010D	"	OIO II			
SVKH3	OWD SIN II		5Y3G5			6013D	"	OIO SIN II			
06	REG	XIII				6014P	"	OIO SIN II			
OG-TS6	PEC	XI	02K+			6015D	OIO SIN II				
OK-V64	DET	XIV				6016D	OIO SIN II				
EM-6	"	TET OBA II				6020P	"	OIO SIN II		EY88+, 6AL3s	1394s-68
F-6	PHO	XVI				60225	OIO SIN II				19655-74
FS-A6	PHC	XV				6E3P	"	TET SIN II			
FS-D6	PHC	XV				6E6P	"	TET SIN II			
FS-K6	PHC	XV				6E6P-YE=BEA	SIN II			E7119+	14206-63
GI-6A	"	TRI SIN III				6E7P	"	TET SIN II			
GI-6B	TRI SIN III		LO6			6E12N	"	TET SIN II		7597s	
GK-6A	TRI SIN					6E13N	"	TET SIN II			
GMI-6	BEA TWN III					6E1+M	"	TET SIN II			
GS6	TRI SIN III					6F1P	"	PNO TRI II		EF80+, 6U8s, 68L3s	12399-65
GS-6	COU	XXI				6F3P	"	TRI PNO II		68W8s	13394-72
GS-6B	"	TRI SIN III				6F6P	"	PNO TRI II		6DX8s	14608-69
GSH-6	NOI	IX				6F5	TRI SIN			6S48+, 6F5s	
IN-6	"	INO	XXIII-A		17821-72	6F5B	TRI SIN			6S48+, 6F5s	
LO-6	TRI SIN		GI-6B+			6F5M	TRI SIN II			6F5GTs, 6S4+	8372-57
LI-6	IC	VIII-A				6F5P	"	TRI PNO II		6GV8s	17224-71
LP-6	"	COM VII				6F5S	TRI SIN II				
MMT-6	TMS	XIX				6F6	PNO SIN			6P6B+, 6F6s	
MS-6	COU	XXI				6F6M1	PNO SIN II				
P6A		X				6F6S	PNO SIN II			6F6-GTs	8092-67
P6B		X	OC821+			6F7	PNO TRI II				
P6D		X	OC812+			6F9P	"	PNO TRI II			
P6G		X				6F12P	PNO TRI II				17346-71
P6V		X	CC81++			6G1	"	TRI OWD II		6S27s	
P6		XXII				6G2	"	TRI OWD II		6S07s	8370-65
RR-6	"	ATR IX				6G2P-K	TRI OWD II				
SG6S		II				6G2S	TRI OWD			6S07Gs	
SGS-6	COU	XXI				6G3P	TRI TRI II				
STS-6	COU	XXI				6G3S	TRI OWD			6AK5s	
TSV-6	PHO	XVI	F-4+			6G7	"	TRI OWD II		6Q7+	8371-65
T6-250	"	THY SI4 XII-A				6I1P	"	PTG TRI II		ECH81+, 6AJR5	9948-66
TKH-6G	HEX	VII				6I3P	PTG TRI II				
TP-6/2	REG	V				6I4P	PTG TRI II			6V9s, ECH200+	
TSV-6	PHO	XVI	F-5+			6I14P	PTG TRI II			ECH81+, 6I1P+	
TVB-6	THM	XVIII				6K18	"	PNO SIN II		5702s	
UV-6	TWT	IX				6K1L	PNO SIN II				
V6-500	"	REC SI XII				6K1P	"	PNO SIN II		9003s	
VS-6	COU	XXI				6K1ZH	"	PNO SIN II		956s	
6A1B	PTG SIN		6SA7s		8354-66	6K2P	PNO SIN			6K4P+	
6A2P	"	PTG SIN II	6BE6s, EK90+			6K3	"	PNO SIN II		6SK7s	8084-67
6A3P	"	GT8 SIN II	6BN6s			6K4	"	PNO SIN II		6SG7s	8083-57
6A4P	"	PTG OBA II				6K6P	"	PNO SIN II		EF93+, 6B46s	8352-66
6A5B	PTG SIN		6L7s			6K6A	"	PNO SIN II			
6A6A	OIO					6K7	PNO SIN II			6K75s	8263-66
6A7	"	PTG SIN II	6SA7s		8096-67	6K7S	PNO SIN			6K9S+, 6K7Gs, 6K7	
6A8	"	PTG SIN II	6A8B+, 6A8s		8367-67	6K8B	PNO SIN II				
6A8B	PTG SIN		6A8s			6K8P	PNO SIN II			6ESAs	
6A8M	PTG SIN		6A8S++			6K9S	PNO SIN II			6K7Gs, 6SK7s	
6A10S	PTG SIN II		6Si 7s		8087-56	6K11B-K	PNO SIN II			6K18+	
6A15B	PTG SIN		6SA7s			6K12	PNO SIN			6E47s	
6AG7	BEA SIN		6P9+, 6AG7s			6K13P	"	PNO SIN II		6EM7s, EF183+	
6AZ45	PNO SIN		6AG5s, 6AG6s			6K14B	PNO SIN II				
6B1P	"	PNO OIO II				6K14B-V	PNO SIN II				
6B2P	"	PNO OIO II	L100++			6K15B	"	PNO SIN II			
6B4	TRI SIN		6A3s			6K16B	"	PNO SIN II			
6B8	"	TRI OWD II	6B8s			6K17B	PNO SIN			6SK7s	
6B8M	PNO OWD		6B8S+, 6B8Gs			6K19B	PNO SIN			9007s	
6B8S	PNO OWD II		6B8Gs, 6B8M+		8369-57	6K19P	PNO SIN			6K1P+, 9003s	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
6KM1ZH	OIO	SIN		604ZH+, 9004S		6P6	BEA	SIN		6P6S+, 6V6GTs	
6KM2P	* OIO	TWN II		EA491+, 6ALSs	834B-66	6P6B	PNO	SIN II		6F6s	
6KM4P	OIO	SIN		6TS4P+		6P6P	BEA	SIN			
6KM5	OIO	SIN		6VKH1+, 6XSGTs		6P6S	* BEA	SIN II		6V6-GTs	837S-66
6KM5S	OIO	SIN		6VKH1+, 6XSGTs		6P7	BEA	SIN		6P7S+, 6BG6GAs	
6KM6	OIO	TWN		6KM6B+, 6M6s		6P7S	* BEA	SIN II		6P7+, 6BG6GAs	
6KM6B	OIO	TWN II		6M6-Gs		6P8P	TRI	SIN		6S1P+, 9002s	
6KM6M	OIO	TWN		6KM6S+, 6M6Gs		6P8S	PNO	SIN II		6G5Gs	
6KM6S	* OIO	TWN II		6M6-Gs	8080-67	6P9	* BEA	SIN II		6AG7s	8377-66
6KM7B	* OIO	TWN II				6P9E	BEA	SIN II		6AK7s	
6L1P	* HPT	SIN II				6P13S	* BEA	SIN II			
6L7	* PTG	SIN II		6L7s		6P14P	* BEA	SIN II		EL84+, 6B05s	10066-66
6LK1A	EL4	VIII				6P15P	* BEA	SIN II		EL83+	
6LK1B	* EL4	VIII				6P17S	BEA	SIN II		6OVSs	
6LK3B	* TV	VIII				6P16P	* BEA	SIN II		6OVSs, EL82	
6L41S	* EL4	VIII				6P20S	* BEA	SIN II		6C3Ss, 6C06s	
6L01I	* EL5	VIII				6P21S	* BEA	SIN II			
6L02A	* EL5	VIII				6P23P	* BEA	SIN II			
6MKH1B	* OIO	TWN IV-A				6P23S	* BEA	SIN II			
6MKH1S	* OIO	TWN IV-A				6P25B	* PNO	SIN II			
6MKH2B	* OIO	TWN IV-A				6P27S	* BEA	SIN II		6CA7s	
6MKH3S	* OIO	TWN IV-A				6P30B	* PNO	SIN II			
6MKH4S	* OIO	TWN IV-A				6P31S	* BEA	SIN II		EL36+, 6C45	
6MKH5S	* OIO	TWN IV-A				6P33P	* PNO	SIN II		6CW5s, EL66	
6MUKH6P	* OIO	TWN IV-A				6P34S	* PNO	SIN II			
6N1P	* TRI	TWN II		6BK7s	835S-66	6P35GV	* PNO	SIN II			
6N2P	* TRI	TWN II		ECC83+, 6AX7s	9356-66	6P36S	* BEA	SIN II		6G8Es	13883-68
6N3P	* TRI	TWN II		ECH42+, 2C51s	8357-66	6P37N	* PNO	SIN II			
6N4P	* TRI	TWN II		12AY7s		6P38P	* PNO	SIN II			
6N5P	* TRI	TWN II			13992-68	6P39S	* PNO	SIN II		ES5L+, 8233s	
6N5S	* TRI	TWN II		6AS7Gs		6P41S	* BEA	SIN II			17618-72
6N6	OIO	TWN		6KM6B+, 6M6s		6P42S	* BEA	SIN II			
6N6P	* TRI	TWN II			16754-71	6R1B	TRI	OIO		6G1+, 6SR7s	
6N7	TRI	TWN II		6N7s, 6N7S+		6R2P	BEA	OIO II			
6N7S	* TRI	TWN II		6N7-GTs	8374-66	6R3S	BEA	OIO II			
6N8	TRI	TWN		6N8S+, 6SN7GTs		6R4R	BEA	SIN		6Y9s, EFL200+	
6N6M	TRI	TWN		6N8S+, 6SN7GTs		6R7	TRI	OIO		6G7+, 6Q7s	
6N8S	* TRI	TWN II		6SN7-GTs		6R7B	TRI	OIO		6G7+, 6Q7s	
6N9	TRI	TWN		6N9S+, 6SL7GTs		6R17B	TRI	OIO		6G2+, 6S07s	
6N9M	TRI	TWN		6N9S+, 6SL7GTs		6S16	TRI	SIN		6S6B+, 6703s	
6N9S	* TRI	TWN II		6SL7GTs		6S1P	* TRI	SIN II		9002s	
6N10	TRI	TWN		6N10S+, 6SC7GTs		6S12M	* TRI	SIN II		4671s, 955s	
6N10M	TRI	TWN		6N10S+, 6SC7GTs		6S2	TRI	SIN		6J5-GTs	
6N10S	* TRI	TWN II		6SC7GTs		6S2B	* TRI	SIN II		6S7B+, 6744s	
6N11	TRI	TWN		6N5S+, 6AS7Gs		6S2P	* TRI	SIN II		6J4s	8353-67
6N12S	* TRI	TWN II		6ON7s, 6S87s		6S2S	* TRI	SIN II		6J5-GTs	8081-67
6N13S	* TRI	TWN II		6060s, 6AS7s	8376-66	6S3B	* TRI	SIN II		6K4As	
6N14P	* TRI	TWN II		ECC6+, 6C47s	10880-66	6S3P	* TRI	SIN II			
6N15	TRI	TWN II		6J6s, 6N15P+		6S4	TRI	SIN		6F5s	
6N15P	* TRI	TWN II		6J6s, ECC91+		6S4B	TRI	SIN II		6F5s	
6N16B	* TRI	TWN II				6S4P	* TRI	SIN II		6B4s	
6N17B	* TRI	TWN II				6S4S	* TRI	SIN II		6B4-Gs	
6N16B	* TRI	TWN II				6S5	TRI	SIN II		6S3S+, 6CSGTs, 6JS5Ts	8373-66
6N19P	* TRI	OIO II				6S3B	TRI	SIN		6CS-GTs	
6N21B	* TRI	TWN II				6S30	* TRI	SIN II		TM1+, 2C40s	
6N23P	* TRI	TWN II		ECC8B+, 6OJ8s	15078-69	6S5S	* TRI	SIN II		6C5-GTs, 6JS5T, 6S5s	8368-57
6N24P	* TRI	OIO II		ECC59+, 6FC7s	15531-70	6S6B	* TRI	SIN II		6703s	
6N25G	* TRI	TWN II				6S7B	* TRI	SIN II		6744s	
6N26P	* TRI	TWN II				6S8P	* TRI	SIN		6S1R+, 9002s	
6N27P	* TRI	TWN II		ECC66+, 6GM8s		6S8S	* TRI	SIN II		2C22s	
6N28B	TRI	TWN II				6S90	* TRI	SIN II			
6N28B-V	TRI	TWN II				6S100	TRI	SIN II			
6P1P	* BEA	SIN II		EL90+, 6A05s	9358-66	6S110	TRI	SIN II			
6P2	BEA	SIN		6P6S+, 6V6GTs		6S130	* TRI	SIN II			
6P2P	PNO	SIN II				6S15P	* TRI	SIN II			
6P3	BEA	SIN		6P3S+, 6L6Gs		6S160	* TRI	SIN II			
6P3B	BEA	SIN		6P3S+, 6L6Gs		6S17K	* TRI	SIN II			
6P3S	* BEA	SIN II		6L6Gs	8376-66	6S18S	* TRI	SIN II			
6P3S-YE	BEA	SIN		6P3S+E7I21+		6S19P	* TRI	SIN II			12841-67
6P4	PNO	SIN II		6G6Gs		6S20S	* TRI	SIN II		6B04s	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
6S210	*	TRI SIN II				6ZH6M	PNO SIN			6J7s	
6S253	TRI SIN II					6ZH6P	PNO SIN			6J7s	
6S268	* TRI SIN II		6S68+			6ZH6S	* PNO SIN II			Z62s	
6S279	* TRI SIN II		6S78+			6ZH7	* PNO SIN II			6J7	8365-66
6S288-V*TRI SIN II						6ZH7B	PNO SIN			6w7Gs	
6S298-V*TRI SIN II						6ZH8	* PNO SIN II			6SJ7s	8366-67
6S308	TRI SIN II					6ZH8S	PNO SIN II				
6S318	* TRI SIN II					6ZH9B	PNO SIN II				
6S328	* TRI SIN II					6ZH9G	* PNO SIN II				
6S338	* TRI SIN II					6ZH9P	* PNO SIN II			E190F=,6688s	11702-66
6S33S	* TRI SIN II					6ZH9P-E	PNO SIN			6ZH9P,E7114+	17636-72
6S34A-V*TRI SIN II						6ZH10B*	PNO SIN II				
6S35A-V*TRI SIN II						6ZH10P*	PNO SIN II				12842-67
6S36K	* TRI SIN II					6ZH11B	PNO SIN			6SM7s	
6S37B	* TRI SIN II					6ZH11P*	PNO SIN II			6BQ5s	
6S39S	TRI SIN II					6ZH11P-EPNO	SIN			6ZH11P+, E7115+	
6S40P	* TRI SIN II					6ZH12B	PNO SIN			6SG7s	
6S41S	* TRI SIN II					6ZH13	PNO SIN			6ZH13L+	
6S44D	* TRI SIN II					6ZH13L*	PNO SIN II			6ZH13	
6S45K	TRI SIN II					6ZH20P*	SEA DIO II				
6S45P-VETRI SIN II						6ZH21P*	SEA DIO II				
6S46G	* TRI SIN II					6ZH22P*	DIO SEA II				
6S47S	* TRI SIN II					6ZH23P*	PNO II				
6S48D	TRI SIN II					6ZH318K*PNO	SIN II			EF95s	
6S50D	* TRI SIN II					6ZH32B*	PNO SIN II				
6S51N	* TRI SIN II		7566s			6ZH32P*	PNO SIN II			EFG6s,6267s	14072-63
6S52N	* TRI SIN II		7895s,6CW4s			6ZH33AV*PNO	SIN II				
6S53N	* TRI SIN II		8058s			6ZH35BV*PNO	SIN II				
6S56P	* TRI SIN II					6ZH38P*	PNO SIN II			EF184s,62EJ7s	14207-69
6S58P	* TRI SIN II					6ZH39G-V*PNO	SIN II				
6S59P	* TRI SIN II					6ZH40P	PNO SIN II			6ET6s	
6S62N	* TRI SIN II				17484-72	6ZH43P	PNO SIN II				
6SK7	PNO TRI II					6ZH44P	PNO SCG II				
6TS4P	* DWO SIN II		6X4s		8347-66	6ZH45BV	PNO SIN II				
6TS4S	DIO DIO II					6ZH46BY*PNO	SIN II				
6TS5S	* DWO SIN II		6X5GTs		8528-66	6ZH49P	PNO SIN II				
6TS10P*	DIO SIN II		6B3s			6ZH50P*	PNO SIN II				
6TS13P*	DIO SIN II					6ZH51P*	PNO SIN II				
6TS15S	DIO TWIN II					6ZH52P*	PNO SIN II				17344-71
6TS17S*	DIO SIN II		6EL4s,AK5s,6AU4s			6ZH53P*	PNO SIN II				17345-71
6TS19P*	DIO SIN II										
6V1P	* PNO SIN II					07	REG	XIII			
6V2P	* PNO SIN II					07A	* REC	XI		DG-T521**	
6V3S	PNO SIN II					07B	* REC	XI		DG-T522**	
6VKH1	DWO SIN II					07D	* REC	XI		DG-T525**	
						07G	* REC	XI		DG-T524**	
6YE1P	* TRI SIN II		EM80s, 6BPS		10881-66	07V	* REC	XI		DG-T523**	
6YE2P	TRI SIN II					07YE	* REC	XI		DGT526*	
6YE3P	TRI SIN II		EM84s,6FG6s			07ZH	* REC	XI		DG-T527**	
6YES	TRI SIN		6YESs*			DG-T57	REC	XI		D2H*	
6YESS	* TRI SIN II		6YESs*, 6E5s		8379-66	DK-S7	WIX	XIV			
6ZH1B	* PNO SIN II		3702s			DK-S7M	* MIX	XIV			
6ZH1L	PNO SIN II					DK-V7M	* DET	XIV			
6ZH1P	* PNO SIN II		6AK5s,EF95s		9342-66	EN-7	* TRI SIN II				
6ZH1P-E	PNO SIN		6ZH1P,E7112+,5654s			F-7	* PNO	XVI			
6ZH1ZH*	PNO SIN II		954s			F5-K7	PMC	XV			
6ZH2B	* PNO SIN II		3784s, 5539s			FSK-7A	PMC	XV			
6ZH2M	PNO SIN II		1851s			FSK-7B	PMC	XV			
6ZH2P	* PNO SIN II		6ZH2P-E, E7113+, 6456s11317-65			FSK-G7	PMC	XV			
6ZH2P-E	PNO SIN		6ZH2P,E7113+,5725s		9095-67	GI-7B	TRI SIN III		LO7		
6ZH3	* PNO SIN II		6SM7s			GI-7BT	* TRI SIN III				
6ZH3M	PNO SIN II		6AB7/1853s			GMI-7	TET SIN III				
6ZH3P	* PNO SIN II		6AG5s, EF96s		8350-66	GS-7	COU	XVI			
6ZH4	* PNO SIN II		6AC7s, 6AB7s		8364-66	GS-7	TRI SIN			GK-7000+	
6ZH4B	PNO SIN		6AG7s			GS-7A	TRI SIN III				
6ZH4E	PNO SIN II		6AB7s, 6AC7s			GS-7B	TRI SIN III				
6ZH4P	* PNO SIN II		6AU6s, EF96s		12398-66	IN-7	*			XXIII-A	
6ZH5	* TRI SIN		6J5s			IN-7A	*			XXIII-A	
6ZH5A	PNO SIN II					IN-7B	*			XXIII-A	
6ZH5B	* PNO SIN II					K-7	* SI	1		XI-F	
6ZH5P	* SEA SIN II		6AM6s		8351-72	K-7M	* SI			XI-F	

GROUP 1 - NUMERICAL

TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
K-7S	* SI	XI-F				8L0301*	OS	VIII	30P1S		
KS-7	TRI SIN			G-811+, 811-A3		8L030M			8L0301+		
LO-7	TRI SIN			G1-7B+		8L039V*	OS	VIII	3JP7S		
LI7	* IC	VIII-A				O9A	REC	XI			
LK7M	*	VIII				O9B	* REC	XI			14342-59
LN-7	* ST	VIII				O90	* REC	XI			14342-59
LP-7	COM	VII				O9G	* REC	XI			14342-59
MS-7	COU	XXI				O9I	* REC	XI			14342-59
P7	X					O9K	* REC	XI			14342-59
R-7		XXII				O9L	* REC	XI			14342-59
SAT-7	COU	XXI				O9M	GEP	XI			
SBM-7	COU	XXI				O9V	* REC	XI			14342-59
SBT-7	COU	XXI				O9VE	* REC	XI			14342-59
SG7S	OIO SIN	V				O9ZH	* REC	XI			14342-59
SNM-7	COU	XXI				OG-TS9	REC	XI	D2A+		
TKM-7G		VII				EM-9	* TET TWM	II			
TV7-320	* THY SI4	XII-A				F-9	* PHO	XVI			
TV8-7	TMM	XVIII				G-9	TRI SIN			GU65+	
UV7	TWT	IX				GK-9B	* TRI SIN	III			
UV-7-1	* TWT	IX				GK9P	TRI SIN	III			
7L01M	* OS	VIII				GS-9	COU	XXI			
7L05SI	* OS	VIII		3MP1S		GS9B	TRI SIN	III			
7P12S	* PND SIN	II		329A		LO-9	TRI SIN			GS-9B+	
7ZM12S	* PND SIN	II		329AS		LN-9	* ST	VIII			
OS	REG	XIII				NMT-9	* TMS	XIX			10688-63
OG-TS8	REC	XI		D2V+		MS-9	COU	XXI			
OK-V8	VIO SI	XIV				P9	X			2N35S	
EM-8	* PND SIN	II				P9A	X				
F-8	* PHO	XVI				R-9		XXII			
FS-K8	PHC	XV				SBT-9	COU	XXI			
GI-8	PND SIN	III				SG9S	OIO SIN	V			
GS-8	COU	XXI				SI-9A	* COU	XXI			
GS-8B	TET SIN	III				SI-9BG	COU	XXI			
GU8	TRI SIN	III			7711-55	SNM-9	COU	XXI			
IN-8	*	XXIII-A				T9	TMS	XIX			
IN-8-2	*	XXIII-A				TKM-9G		VII			
KMT-8	* TMS	XIX			10688-63	TV8-9	TMM	XVIII			
LN-8	* ST	VIII				VS-9	COU	XXI			
NMT-8	* TMS	XIX			10588-63	VS-9T	COU	XXI			
MS-8	COU	XXI				9L011	* OD	VIII			
P8		X				9L021	* REC	VIII			
P8A				P8+		O10	* REC	XI			
R-8		XXII				O10A	* REC	XI			
SAT-8	COU	XXI				O10B	* REC	XI			
SBM-8	COU	XXI				OGTS10	REC	XI	D2B+		
SBT-8	COU	XXI				F-10	* PHO	XVI			
SG9S	OIO SIN	V				G10	TRI SIN	III			
SNM-8	COU	XXI				G-10A	TRI SIN			GU-10A+	
STS-8	COU	XXI				G-10RA	TRI SIN			GU-10B+	
T8D	TMS	XIX				GK10P	TRI SIN	III			
T8E	TMS	XIX				GK0-10	TRI SIN			GK-20C0+	
T8M	TMS	XIX				GMI-10	* TET SIN	III			
T8R	TMS	XIX				GS-10	COU	XXI			
T8SI	TMS	XIX				GSM-10	NOI	IK			
T8S1M	TMS	XIX				GT-10	TRI SIN			G46+	
T8S2	TMS	XIX				GUI0A	TRI SIN	III			12843-67
T8S2M	TMS	XIX				GUI0B	TRI SIN	III			
T8S3	TMS	XIX				ISK10		KX			
T8S3M	TMS	XIX				ISPI0		KX			
TGB/3	TRI THY			TGI-2.5/4+		IST10		KX			
TKM-8G	HEX	VII				KMT-10	TMS	KIX			
TV8-8	TMM	XVIII				W0-10	TRI SIN	III			
VS-8	COU	XXI				P10		K		2N35S	
8LK28	* TV	VIII				P10A	GAP	X			
8LM3V	* OS	VIII				P10B	GAP	X			
8L028	OS			8L029+, 30P1AS		9-10		XXII			
8L031	* OS	VIII				SBT-10	COU	XXI			
8L041	* OS	VIII				SG10S	REG	V			
8L0291	* OS	VIII		38P1S	17728-7	SI-10BG	COU	XXI			
8L029M				8L0291+		SI10N	* COU	XXI			

GROUP 1 - NUMERICAL

TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
SNM-10	•	COU	XXI			IN-12B	•	XXIII-A			
TCH-10	•	TPI	XIII-B			K-12	KLO	IX			
TO-10	PNO	SIN		10P12S		KIU12	KLA	IX			
TS-10	•	TPI	XIII-B			KIU-12-A	•	KLA	IX		
VG-10	POW					KIU-12-B	•	KLA	IX		
VG-10-30	POW					KMT-12	TMS	XIX			
VG-10-45	POW					LD12	TRI	SIN		GI-12B	
VG-10-55	POW					MI-12	MAG	IX			
VG-10-80	POW					MMT-12	TMS	XIX			
VG-10-110	POW					MS-12	COU	XXI			
VG-10-150	POW					OS12/500	•	PNO	SIN	G837	
VK-10	•	PEC	SI	XII		P12		X		2N112	
VKU-10	•	THY	SI	XII-A		P12A	GAP	X			
VKU-10-0.25	SCR	SI				R-12		XXII			
VKU-10-0.5	SCR	SI				SI-12BG	COU	XXI			
VKU-10-0.75	SCR	SI				SNM-12	•	COU	XXI		
VKU-10-1.0	SCR	SI				TKH-12G		VII			
VKU-10-1.5	SCR	SI				12BIM	PNO	OVO	II		
VKU-10-2.0	SCR	SI				12B2M	PNO	OVO	II		
VKU-10-2.5	SCP	SI				12GI	TRI	OVO	II	12SP7S	
VKU-10-3.0	SCP	SI				12G2	•	TPI	OVO	II	12SQ7S
VL-10	•	PEC	SI	XII		12KIM	PNO	SIN	II		
10LK2B	•	PR	VIII			12K3	PNO	SIN	II	12SK7S	
10LK3B	•	TV	VIII			12KA	•	PNO	SIN	II	
10L02I	•	DO	VIII			12K12B	PNO	SIN		12SG7S	
10L043I	•	DO	VIII			12K17B	PNO	SIN		12SK7S	
10L0102M	•	ELM	VIII			12KH3S	•	OVO	SIN	II	LG1
10P12S	•	PNO	SIN	II	312A	12LN1	•	SO	VIII		
10ZH1L	•	PNO	SIN	II	10ZH3L+	12M1M	PNO	TRI	II		
10ZH3L	•	PNO	SIN	II	10ZH1L+	12N1	TRI	TWN		12N115+, 12AH7GT	
10ZH3P	PNO	SIN				12N4P	TRI	TWN	II	12AY7S	
10ZH125	PNO	SIN	II	310AS		12N10	TRI	TWN		12N105+, 12SC7GT	
011	•	PEC	SI			12N10M	TRI	TWN		12N105+, 12SC7GT	
OK-V11	VIO	SI	XIV			12N10S	TRI	OVO	II	12SC7S	
FEU-11	•	PHM	XVI			12N11S	TRI	TWN	II	12AH7GT	
GI-11B	•	TPI	SI	III	LO-II	12P4S	PNO	SIN	II	12A6S	
GK11A	•	TET	SIN	III		12P14S	BEA	SIN	II		
GS-11	COU	XXI				12P17L	•	PNO	SIN	II	
GSM-11	NOI	IX				12P18	TRI	OVO		12G1+, 12SR7S	
GU11A	TRI	SIN	III			12R17B	TRI	OVO		12G2+, 12SQ7S	
GU11B	TRI	SIN	III			12S2	TRI	SIN	II		
IN-11	•	XXIII-A				12S3S	•	TRI	SIN	II	LO1+
KMT-11	TMS	XIX				12S42S	•	TRI	SIN	II	
LO11	TRI	SIN		GI-11B+		12ZH1	PNO	SIN		12ZH1L+	
MS-11	COU	XXI				12ZH1L	•	PNO	SIN	II	12ZH1
P11		X		2N94S		12ZH1M	PNO	SIN	II		
P11A	GAP	X				12ZH3L	•	PNO	SIN	II	
P-11		XXII				12ZH6	•	PNO	SIN	II	12SJ7S
SI-11BG	COU	XXI				12ZH8B	PNO	SIN		12SJ7S	
SI-11N	•	COU	XXI			12ZH17B	PNO	SIN		12SJ7S	
SNM-11	•	COU	XXI			013	•	REC	•	XI	
TKH-11G	TET	VII				OGTS13	•	REC	XI		
VS-11	COU	XXI				F13	•	PHO	XXI		
11LK1B	ELS	VIII				FEU-13	•	PHM	XVI		
11LM2G	•	DT	VIII			G-13	•	TRI	SIN	III	
11LM3G	•	DT				GI-13	•	TRI	SIN	III	
11L45V	•	VIII				GI-13B	•	TRI	SIN	III	
11LO11	ELS	VIII				GI-13B+	•	TRI	SIN	III	
11LO2KH	ELS	VIII				GM13	•	TET	SIN	III	
11LO31	ELS	VIII				GU13	•	BEA	SIN	III	913S
11LO51	ELS	VIII				LI13	•	IM	VIII-A		
012	•	REC	XI			MMT-13	•	TMS	XIX		10489-63
012A	•	REC	XI			MS-13	•	COU	XXI		
OGTS12	•	REC	XI			P13		X		2N43S	
FEU-12	•	PHM	XVI			P13A		X		2N34S	
FEU-12A	•	PHM	XVI			P13B		X			
GI-12B	•	TRI	SIN	III	LO-12	SG13P	•	OIO	SIN	V	GA2S
GS-12	COU	XXI				SI-13G	•	COU	XXI		
GU12A	•	TRI	SIN	III	899S	SNM-13	•	COU	XXI		
11U-12A	•	XXIII-A				TKH-13		VII			

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
UV-13	TWT		IX			MP14B	*	X			
V13/30	OIO	SIN		VO-1		MS-14		COU	XXI		
VS-13	COU		XXI			P14		X		2N65S	
13LK18	* TV		VIII	5FP4S		P14A		X			
13LK28	* TV		VIII			SG14P		REG AH	V		
13LK38	* TV		VIII			SNM-1A	*	COU	XXI		
13LK68	* TV		VIII			TV-14		THM	XVIII		
13LK78	* TV		VIII			UV-14		TWT	IX		
13LK8A	* PT		VIII			V5-14		COU	XXI		
13LM4V	* OS		VIII			14LM1N	*	ELS	VIII		
13L45A	* ELS		VIII			OIS		REC	XI		
13LM6V	* RA		VIII			OGTS15		REC	XI	02N+	
13L47V	* RA		VIII			F15	*	PHO	XVI		
13L48V	*		VIII			FEU-15	*	PHM	XVI		
13L431M	* OS		VIII	5FP7S		FEU-15A	*	PHM	XVI		
13L431V	OS			13L431M+		FEU-15B	*	PHM	XVI		
13LM56I	* OS		VIII	5FP1S		G-15A		TRI SIN		GU-11A+	
13L457	* OS		VIII	5FP7S		G-15RA		TRI SIN		GU-16B+	
13L4570	OS			13L457+		GDD-15		TRI SIN		G-6I+	
13L458K	* OS		VIII			GS-15B		TET SIN	III		
13LN2	* ST		VIII			GUI5		9EA SIN	III		
13LN3	*		VIII			IFK15-I			XX		
13LN5	* ELS		VIII			IN-15A	*		XXIII-A		
13LN6	* OO		VIII			IN-15B	*		XXIII-A		
13LN7	* ELS		VIII			ISSH15			XX		
13LN8	* ELS		VIII			K-15		KLO	IX		
13LN10	*		VIII			KIUI5		XLA	IX		
13LO18			VIII			LI15	*	IM	VIII-A		
13LO28			VIII	SCP1-A+S		MI-15		MAG	IX		
13LO31	* OS		VIII		19883-7	P15		X		2N43S, OC604+	
13LO4I	OS		VIII			P15A		GAP	X		
13LO5P			VIII	SCP7-A+S		SG15P		OIO SIN	V		
13LO6I			VIII	5FP7-A+S		SG15P1		OIO SIN	V	SG15P+	
13LO7V	* OO		VIII			SG15P2	*	REG	V		14793-68
13LO9I	* OS		VIII			SNM-15	*	COU	XXI		
13LO100	*		VIII			TG-15/3		TRI THY		TGI-5/3+	
13LO11A	*		VIII			TR-15/2		TRI THY		TR-1-5/2+	
13LO12A	* ELS		VIII			TV-15		THM	XVIII		
13LO14U	*		VIII			VG15/5000		OIO SIN		GGI-0.5/5+	
13LO36	OS			5FP7S, LO736+, 13L336V+		15A6S		PNO SIN	II		
13LO36V	* OS		VIII	SCP7S	19884-7	O16		REC	XI		
13LO37A	* OS		VIII	SCP7S		O16A		REC	XI		
13LO37I	OS			SCP1S, LO737+	19000-7	OGTS16		REC	XI	02P+	
13LO37M	OS					F16	*	PHO	XVI		
13LO48I	OO			SSP1S		FEU-16	*	PHM	XVI		
13LO48M	OO					FEU-16A	*	PHM	XVI		
13LO48V	* OO		VIII	LO748+		GI-16B		TET SIN	III		
13LO54A	OS		VIII	LO754		GU16B		TRI SIN	III		
13LO54M	OS					LG-16		OIO SIN		2025+	
13LO54V	OS					MI-16		MAG	IX		
13LO101M	*		VIII			MS-16		COU	XXI		
13LO102M	*		VIII			P16	*	X		2N55S, OC604+	
13LO104A	* TV		VIII			P16A		X			
13P1	9EA SIN			13P1M+, 13P1S+		P16B		X			
13P1M	9EA SIN			13P1+, 13P1S+		SG16P		DIO SIN	V	OG3S	18495-73
13P1S	* 9EA SIN	II		13P1+, 13P1M+		SNM-16	*	COU	XXI		
13ZH41S	* PNO SIN	II				TKH-16B	*	TET T	VII		19009-73
O14	* REC	XI				TV-16		THM	XVIII		
O14A	* REC	XI				VS-16		COU	XXI		
OGTS14	* REC	XI				16F3P	*	PNO TRI	II		
F14	* PHO	XVI				16LK18			VIII		
FEU-14	* PHM	XVI				16LM1G	* RA		VIII		
FEU-14A	* PHM	XVI				16LM2V	*		VIII		
GI-14B	* TRI SIN	III		LO-14		16LQ2I	* OO		VIII		
GS-14	* TRI SIN	III				16LQ3I	* OS		VIII		
IN-14	*	XXIII-A				16LO4B	* ELS		VIII		
K-14	* SI	XI-A				16LO4V	*		VIII		
KWT-14	* THS	XIX				O17		REC	XI		
LI14	* IM	VIII-A				OGTS17		REC	XI		
MI-14	* MAG	IX				F17	*	PHO	XVI		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
FEU-17		PHM	XVI			GK20		TRI SIN III			
FEU-17A	*	PHM	XVI			I-20/1.5		TRI IGN IV			
G-179		TRI SIN III				I-20/1500		DIO IGN IV			
GI-17		TRI SIN III		G480*		IFK20		XX			
GS179	*	TET SIN III				K-20	*	RKY IX			
GU-17		BEA TWM III	6360*			M-20/35		TRI SIN		GM-1A+	
KMT-17	*	TMS	XIX			MO20		TRI SIN III			
L117	*	IM	VIII-A			MP20	*	X			
LN17	*	VIII				MP20A	*	X			14073-68
MST-17		COU	XXI			MP20B	*	X			14073-68
P17		X				MP20V	*	X			
P17A		X				QV20-P18		TET SIN		GM1-B3*	
P17B		X				SG20G		DIO SIN V			
SG175		DIO SIN V				S1-20G		COU XXI			
SNM-17	*	COU	XXI			SNM-20	*	COU XXI			
D18	*	GEP	XI			T-208FL		COU XXI			
F18	*	PHD	XVI			TD-20	*	TRI XII-B			
FEU-18		PHM	XVI			TKP-20		TMS POW XIX			
FEU-18A	*	PHM	XVI			TR-20/15		TRI THY		TR-1-6/15+	
GI-188		TRI SIN III				V20/20		DIO SIN		VI-0.02/20+	
GS-18		TRI SIN		GK-2000+		VKU-20	*	THY SIA XII-A			
GU-18		BEA TWM III				VKU-20-0.25		SCR SIA			
L118	*	VID	VIII-A			VKU-20-0.5		SCR SIA			
MST-18		COU	XXI			VKU-20-0.75		SCR SIA			
P18		X				VKU-20-1.0		SCR SIA			
P18A		X				VKU-20-1.5		SCR SIA			
P18B		X				VKU-20-2.0		SCR SIA			
R-18		XXII				VKU-20-2.5		SCR SIA			
SG185		DIO SIN V				VKU-20-3.0		SCR SIA			
SNM-18	*	COU	XXI			20LM1YE*		VIII			
I8LK19		TV	VIII			D21		XI			
I8LK28		TV	VIII	70P4*		DGTS21		REC XI		D7A+	
I8LK3V		VIII				F21	*	PHD XVI			
I8LK48		TV	VIII			G1-21B		TRI SIN III			
I8LK58	*	TV	VIII			GU21B		TRI SIN III			
I8LK79		TV	VIII			P21		X			
I8LK9A	*	PT	VIII			P21A		X			
I8LK119*		TV	VIII			P21B		X			
I8LK128*		TV	VIII			P21D	*	X			14073-68
I8LK13L*		TV	VIII			P21G	*	X			14073-68
I8LK14T*		ELS	VIII			P21V	*	X			14073-68
I8LK15		TV	VIII			P21YE	*	X			14073-68
I8LK17L*		ELM EL4	VIII			R-21		XXII			
I8LK35	*	RA	VIII			SG21B	*	REG V			
I8LK4V	*	VIII				S1-21G		COU XXI			
I8LK45V	*	ELS	VIII			ST1-21	*	TMS XIX			
I8LK35		OS		78P7A*, I8LK35V+		DGTS22		REC XI		D7B+	
I8LK35V*		OS	VIII	78P7*		F22	*	PHD XVI			
I8LD1A		VIII				FEU-22		PHM XVI			
I8LD1P				78P7A*		GI-22		TRI SIN III			
I8LD3A	*	VIII				GU22A		TPI SIN III			10030-71
I8LD40B		TV	VIII	7JP4*, LK740+		L122	*	IM VIII-A			
I8LD47A*		OD	VIII			P22		X			
I8LD47V		OD		18LD47A+		S1-22G		COU XXI			
I8LS4I	*	VIII				22LD1A	*	OS VIII			
O19		GEP	XI			DGTS23		REC XI		D7V+	
O19A		GEP	XI			F23	*	PHD XVI			
O19B		GEP	XI			FEU-23		PHM XVI			
FEU-19A	*	PHM	XVI			GS23B	*	TET SIN III			
FEU-19M	*	PHM	XVI			GU23A		TRI SIN III			10071-69
GI-198		TRI SIN III				GU-23B		TRI SIN III			
JU-19		BEA TWM III				L123	*	VID VIII-A			
K-19	*	RKY IX				P23		X			
P19		X				P23A					
SG195		DIO SIN V				23LK18		TV VIII		7CP4*	
S1-198G	*	COU	XXI			23LK28		TV VIII			
S1-19G		COU	XXI			23LK58	*	TV VIII			
19LK48		TV	VIII			23LK61	*	PT VIII			
O20	*	GEP	XI			23LK79	*	TV VIII			
FEU-20	*	PHM	XVI			23LK88	*	TV VIII			

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
23LK98	* TV	VIII				K-29-M	* RKY	IX			
23LK138	* TV	VIII				P29	*	X			
23LK411	* TV	VIII				P29A	*	X			
23LM35	* RA	VIII				FEU-30	* PHM	XVI			
23LM4V	*	VIII				G00-30	TRI SIN			GS-38+	
23LM5V	* ELS	VIII				GI-30	BEA TWM	III		3E29S	
23LM6V	* EL4	VIII				GMI-30	TRI SIN	III		6C21S	
23LM7V	* ESM	VIII				GS-30	COU	XXI			
23LM8	* ESM	VIII				GU30A	TRI SIN	III			
23LM9	* ESM	VIII				K-30	KLO	IX			
23LM3A	OS			9GP7S, 23LM34V+		K-30-M	* RKY	IX			
23LM34V	OS	VIII				M-30/A50	TRI SIN			GMI-30+	
23LO1P	OS			9GP7S		P30	*	X			
23LO51A	OS	VIII				SNM-30	* COU	XXI			
OGTS24	REC	XI		07G+		T-308FL	COU	XXI			
FEU-2A	* PHM	XVI				VG-30	PCW				
GI-24A	TRI SIN	III				30LK18	TV	VIII		31LK18+	
GU2AA	III					30P1	BEA SIN			30P1S+	
R-2A		XXII				30P1M	BEA SIN			30P1S+	
OGTS25	REC	XI		07G+		30P1S	* BEA SIN	II		30P1M	
EVU-25/1.0	IGN HG	IV				30TS1M	OIO SIN	II		30VKH1+, 30TS6S+	
F25	* PHO	XVI				30TS6S	* OIO TWM	II		30VKH1+, 30TS14+	8078-67
FEU-25	* PHM	XVI				30V01	OIO SIN	II		30TS1M+	
GI-25	TRI SIN	III				30VKH1	OIO SIN	II		30TS6S+	
GU25B	TRI SIN	III				FEU-31	* PHM	XVI			
ISK25		XX				GU31	TET SIN	III			
MP25	*	X			14830-69	K-31	KLO	IX			
MP25A	*	X			14830-69	P31		X			
MP25B	*	X			14830-69	P31A		X			
T-258FL	COU	XXI				SNM-31	* COU	XXI			
TCH-25	* TRI	XII-C				31LK18	TV	VIII			
TO-25	* TRI	XII-C				31LK28	* TV	VIII		12LP4S	
VK-25	* REC SI	XII				31LM5V	*ELS	VIII			
VK2-25	* REC SI	XII				31L432	OS			12OP7AS, 31L432V+	
VKOU25	* SCR SI4	XII-A				31L432V	OS	VIII			
VL-25	* REC SI	XII				31LNI	*ELS	VIII			
25LMIV	* RA	VIII				31LO1P		VIII		12OP7S	
25LM2V	*	VIII				31LO33	OS			12GP7S, 31LJ33V+	
25LM3M	* ELM	VIII				31LO33V	OS	VIII			
25P1	BEA SIN	II		25L6S		FEU-32	* PHM	XVI			
25P1S	BEA SIN	II		25L6S		G32	TRI SIN	III			
OGTS26	REC	XI		07E+		GU32	BEA TWM	III		832S	9839-68
FEU-26	* PHM	XVI				K-32	KLO	IX			
GU26A	TRI SIN	III				P32		X			
GU26B	TRI SIN	III				SNM-32	* COU	XXI			
K-26	KLO	IX				FEU-33	* PHM	XVI			
MP26	*	X			14830-69	GU33B	TET SIN	III		16095-70	
MP26A	*	X			14830-69	K-33	KLO	IX			
MP26B	*	X			14830-69	FEU-34	PHM	XVI		16096-70	
26LO2A	* PT	VIII				GU34B	TET SIN	III			
OGTS27	REC	XI		07ZM+		K-34	KLO	IX			
FEU-27	* PHM	XVI				FEU-35	* PHM	XVI			
GU27A	TET SIN	III			14626-69	GU-35B	TET SIN	III			
GU27B	TET SIN	III		827-RS		K-35	KLO	IX			
GU-27B-1	* TET SIN	III				MP35	*	X		14831-69	
K-27	* RKY	IX				35LK18	* ELS EL4	VIII			
K-27-A	* RKY	IX				35LK28	* TV	VIII		981S-58	
P27	*	X				35LK48	* TV	VIII			
P27A	*	X				35LK68	* TV	VIII			
FEU-28	* PHM	XVI				35LMIS	*EL4	VIII			
GSH-28	NOI	IX				FEU-36	* PHM	XVI			
GU28A	TET SIN	III				G36	TRI SIN	III		GK-20+	
GU28B	TET SIN	III				GK36	TRI SIN				
M28	TRI SIN	III				GU-36B	TET SIN	III			
P28	*	X				MP36A	*	X		14831-69	
FEU-29	* PHM	XVI				FEU-37	* PHM	XVI			
G29	TRI SIN	III				GU-37B	* TRI SIN	III			
GSH-29	NOI	IX				MP37	*	X		14831-69	
GU29	* BEA TWM	III		829-BS	9833-68	MP37A	*	X		14831-69	
K-29-A	* RKY	IX				MP37B	*	X		14831-69	

GROUP 1 - NUMERICAL

TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
P37A				MP37A+		I-50/I.5	TRI	IGN	IV		
P37B				MP27B+		I-50/I500	OIO	IGN	IV		
FEU-38	*	PHM	XVI			IFK50			XX		
MP38	*		X		14831-69	LS50	PNO	SIN		GUSC=	
MP38A	*		X		14831-69	MS0	TRI	SIN	III		
FEU-39	*	PHM	XVI			T-508FL	COU		XXI		
FEU-39A	*	PHM	XVI			TCH-S0	*	TRI	XII-B		
GU-39A		TET	SIN	III	10746-67	TKP-S04	TMS	POW	XIX		
GU-39B		TET	SIN	III	11260-65	TKP-S08	TMS	POW	XIX		
GU39P		TET	SIN	III		VG-S0	POW		XII		
M39		TRI	SIN	III		VK-S0	POW		XII		
MP39	*		X		14948-73	VK2-S0	*	REC	SI	XII	
MP39B	*		X		14948-73	VKDUS0	*	SCR	SIA	XII-A	
FEU-40		NSP	XVI			VKDUS-S0	*	THY	SIA	XII-A	
GU-40B		TET	SIN	III	15802-71	VKU-S0	*	THY	SIA	XII-A	
MP40	*		X		14948-73	VKU-S0-0.25	SCR	SIA			
MP40A	*		X		14948-73	VKU-S0-0.5	SCR	SIA			
PA08			X			VKU-S0-0.75	SCR	SIA			
T-408FL		COU	XXI			VKU-S0-1.0	SCR	SIA			
TD-40	*	TRI	XII-B			VKU-S0-1.5	SCR	SIA			
V40/I00		OIO	SIN	VI-0.1/40+		VKU-S0-2.0	SCR	SIA			
40LK18	*	TV	VIII	I6AP45		VKU-S0-2.5	SCR	SIA			
40LK4TS	*	TV	VIII			VKU-S0-3.0	SCR	SIA			
K-41		KLD	IX			VL-S0	*	REC	SI	XII	
MP41	*		X		14948-73	SOLK18	*	TV	VIII		14998-73
MP41A	*		X		14948-73	FEU-51	*	PHM	XVI		
FEU-42		NSP	XVI			GMS1A	TRI	SIN	III		
K-42		KLD	IX			M1-S1	MAG		IX		
MP42	*		X		14947-73	S8-S1	PNO	SIN	II		
MP42A	*		X		14947-73	STSV51	*	PHO	XVI		
MP42B	*		X		14947-73	SILSI	*	CH	VIII		
42L42YE			VIII			FEU-52	*	PHM	XVI		
FEU-43		NSP	XVI			M1-S2	MAG		IX		
GU-43A	*	TET	SIN	III		FEU-53	*	PHM	XVI		
GU43B		TET	SIN	III		MS3	TRI	SIN	III		
43LK29	*	TV	VIII			M1-S3	MAG		IX		
43LK38	*	TV	VIII			S3LK28	*	TV	VIII		
43LK68	TV		VIII			S3LK38	TV		VIII		
43LK78	TV		VIII			S3LKATS	TV		VIII		
43LK88	*	TV	VIII			S3LK58	TV		VIII		
43LK98	*	TV	VIII			S3LK68	TV		VIII		
43LK118	*	TV	VIII			FEU-54	*	PHM	XVI		
43L41V	*		VIII			G-54	TRI	SIN		GS-6+	
43LS91	*		VIII			M1-S4	MAG		IX		
FEU-44		NSP	XVI			R-54			XXII		
FEU-45		NSP	XVI			FEU-55	*	PHM	XVI		
GU-45A	*	TRI	SIN	III		FEU-56	*	PHM	XVI		
4SL418	*		VIII			G-56	TRI	SIN		G29+	
4SL42U	*	RA	VIII			GU-56	*	TRI	SIN	III	
4SL43N	*	PA	VIII			FEU-57	*	PHM	XVI		
4SL57N	*		VIII			GMS7	TRI	SIN	III	MS50**+, 4457+, UB190=	
4SL591	*		VIII			M57	TRI	SIN	III		
FEU-46		NSP	XVI			S0-S7	PNO	SIN	II		
G46		TRI	SIN	III		FEU-58	*	PHM	XVI		
FEU-47		NSP	XVI			G-58	TRI	SIN		GK-3000+	
G47		TRI	SIN	III		FEU-59	*	PHM	XVI		
S9-47		PNO	SIN	II		GU-59A	TRI	SIN	III		
47LK18	TV		VIII			S9LK18	TV		VIII		
47LK28	*	ELS	VIII		14854-69	S9LK28	ELS		VIII		14855-69
47L41V	*	ELS	VIII			FEU-60	PHM		XVI		
FEU-48		NSP	XVI			GM60	TRI	SIN	III	M600**	
GU48	*	TRI	SIN	III	833A5	GS-60	COU		XXI		
K-48		KLD	IX			T-608FL	COU		XXI		
FEU-49	*	PHM	XVI			G61	TRI	SIN	III		
G-49		TRI	SIN		GS-4+	GU61B	*	TET	SIN	III	
OP-49M	*	TO	IX			GU61P	TET	SIN	III		
EVU-50/I.0		IGN	HG	IV		61LK18	*	EL4	EL4	VIII	14114-73
FEU-50	*	PHM	XVI			FEU-62	*	PHM	XVI		
GO-50		TRI	SIN		G-46+	G62	TRI	SIN	III		
GUS0	*	PNO	SIN	III	LS50=	GU-62A	*	TRI	SIN	III	
					12407-66						

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TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC.NO.	TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC.NO.
GU62R		TRI SIN	III			R8-90			XXII		
462		MAG	IX			TGI-90/8		TRI THY		TGI-1-90/9+	
FEU-63		= PHM	XVI			FEU-91		= PHM	XVI		
TD-63		= TRI	XII-B			G91		TRI SIN	III		
FEU-64		= RHM	XVI			FEU-92		= PHM	XVI		
G-64		TRI SIN		GS-38+		G-92		TRI SIN		GK-2000+	
FEU-65		= PHM	XVI			K-92A		KLD	IX		
G65		TRI SIN	III			K-92B		KLD	IX		
GU65A		= TRI SIN	III			K-92G		KLD	IX		
65LK1B			VIII			K-92V		KLD	IX		
GU-66B		= TRI SIN	III			FEU-93		= RHM	XVI		
GU66R		TRI SIN	III			MI-95		MAG	IX		
FEU-67		= PHM	XVI		19594-74	FEU-96		= PHM	XVI		
67LK1B		= ELS ELM	VIII			FEU-97		= PHM	XVI		
FEU-68		= RHM	XVI			L-99		RTG SIN		6A2R+, 6B6S	
G68		TRI SIN	III			EVU-100/I.0		IGN MG	IV		
GU68A		= TRI SIN	III			G-100		TRI SIN		G-29+	
GU-68B		= TRI SIN	III			G-100A		TRI SIN		GK-3A+	
GU-68P		= TRI SIN	III			GD-100		TRI SIN		G-47+	
FEU-69		= PHM	XVI			GKE100		TET SIN	III	GE-1+	
FEU-70		=	XVI			GM100		TRI SIN	III		
GI-70B		TRI SIN	III	LD-70		I-100/I.0		= TRI IGN	IV		
GI-70BT		= TRI SIN	III			I-100/5.0		= TRI IGN	IV		
GM-70		TRI SIN	III			I-100/1000		DIO IGN	IV		
GM70B		TRI SIN	III			I-100/5000		DIO IGN	IV		
GU70B		= TRI SIN	III			ISSM100-1			XX		
ISR70			XX			ISSM100-3			XX		
LD70		TRI SIN		GI-70B+		LI00		PND DIO		682R+	
V70/I000		DIO SIN		V1-0.3/70+		TCH100		= TRI	XII-B		
GK7I		RND SIN	III	G47I+, 47IA+		TD-100		= TRI	XII-B		
GU71B		= PND SIN	III			VG-100		POW	XII		
GU72		PND SIN	III			VK-100		POW	XII		
GU73B		= TET SIN	III			VK2-100		= REC SI	XII		
FEU-74		= PHM	XVI			VKDU100		= SCR SI4			
GU74B		= TET SIN	III			VKOUS-100		= THY SI4	XII-A		
M74		TRI SIN	III			VKU-100		= THY SI4	XII-A		
FEU-75		= RHM	XVI			VKU100-0.25		SCR SI4			
GU75A		= TET SIN	III			VKU100-0.5		SCR SI4			
VKOUS-75		= THY SI4	XII-A			VKU100-0.75		SCR SI4			
75S5-30		DIO SIN		SG25+, CA35		VKU100-1.0		SCR SI4			
GI-76B		TRI SIN	III			VKU100-1.5		SCR SI4			
FEU-77		= PHM	XVI			VKU100-2.0		SCR SI4			
FEU-78		= RHM	XVI			VKU100-2.5		SCR SI4			
FEU-79		= PHM	XVI			VKU100-3.0		SCR SI4			
FEU-80		= PHM	XVI			VKUV-100-0.25SCR		SI4			
GU80		PND SIN	III	GS450+, PS100+	12404-66	VKUV-100-0.5		SCP SI4			
M80		TRI SIN	III			VKUV-100-0.75SCR		SI4			
T-80BFL		CDU	XXI			VKUV-100-1.0		SCR SI4			
TD-80		= TRI	XII-B			VKUV-100-1.5		SCR SI4			
FEU-81		=	XVI			VKUV-100-2.0		SCR SI4			
GU81		PND SIN	III		13048-67	VKUV-100-2.5		SCR SI4			
M81		= MAG	IX			VKUV-100-3.0		SCR SI4			
FEU-82		=	XVI			VKUV-100		= THY SI4	XII-A		
GMI-83		TET SIN	III	QV20-PI8+=SD213		A101		DEC	XXIII		
GMI-83B		= TET SIN	III			AI-101A		= TUN	XI-B		
FEU-84		= PHM	XVI			AI-101B		= TUN	XI-B		
FEU-85		= PHM	XVI			AI-101D		= TUN	XI-B		
FEU-86		= PHM	XVI			AI-101G		= TUN	XI-B		
FEU-87		= PHM	XVI			AI-101I		= TUN	XI-B		
FEU-88		= PHM	XVI			AI-101V		= TUN	XI-B		
G88		TRI SIN	III			AI-101YE		= TUN	XI-B		
VC-88		DIO TUN		4VKM1+		AI-101ZH		= TUN	XI-B		
GMI-89		TET SIN	III	G-489++		D101		= PEC	XI		
GU89A		TRI SIN	III	889AS		D101A		= REC	XI		
GU89B		TRI SIN	III	889R-AS		KL101A		= LED SCD	XI-E		
M89		TRI SIN	III			KL101B		= LED SCD	XI-E		
GMI-90		TET SIN	III	G-490++		KL101V		= LED SCD	XI-E		
GS90B		TRI SIN	III	LD-90		KP101D		= SFP	X-B		
LD-90		TRI SIN		GS-909+		KP101G		= SFP	X-B		
MTKH90		TRI THY	VII			KR101YE		= SFP	X-B		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
KU101A	*	SCR TRI XI-C				O105	*	REC XI			
KU101B	*	SCR TRI XII-C				O106A	*	REC XI			
KU101G	*	SCR TRI XII-C				KD105A		XI			
KU101YE	*	SCR TRI XII-C				KD105B		XI			
KV101A	*	VAR SIO XI-O				KD105G	*	REC SIO XI			
LI101	*	TC	XIII-A			KD105V		XI			
P101			X			KV105A	*	VAR SI XI-O			
P101A			X			KV105B	*	VAR SI XI-O			
P101B			X			P105		X			
A102	*	DEC	XXIII			10555-30	DIO SIN			SG25+, OC39	
AL102A	*	LED GPE XI-E				P106	*	DEC XXIII			
AL102B	*	LED GPE XI-E				D106	*	REC XI			
AL102V	*	LED GPE XI-E				O106A	*	REC XI			
O102	*	REC XI				KV106A	*	VAR SIO XI-O			
O102A	*	REC XI				KV106B	*	VAR SIO XI-O			
KD102A	*	XI				P106		X			
KD102B	*	REC SIO XI				S-106		TET SIN		GKE-150+	
KN102A	*	SIA XII-B				A107	*	DEC XXIII			
KN102B	*	SIA XII-B				O107		REC SIP XI			
KN102D	*	SIA XII-B				O107A		REC SIP XI			
KN102G	*	SIA XII-B				P107					
KN102I	*	SIA XII-B				UB107		TRI SIN		451+	
KN102V	*	SIA XII-B				O108		REC SIP XI			
KN102ZH	*	SIA XII-B				GT108A	*	X			15141-69
KP102I	*	SFP X-B				GT108B	*	X			15141-69
KP102K	*	SFP X-B				GT108G	*	X			15141-69
KP102L	*	SFP X-B				GT108V	*	X			15141-69
KP102YE	*	SFP X-B				KD108G	*	X			
KP102ZH	*	SFP X-B				MGT1080	*	GAP X			
KV102A	*	VAR SI XI-O				P108		X			
KV102B	*	VAR SI XI-O				P108A		X			
KV102D	*	VAR SI XI-O				O109		REC SIP XI			
KV102G	*	VAR SI XI-O				GT109A	*	X			15142-69
KV102V	*	VAR SI XI-O				GT109B	*	X			15142-69
LN102	*	EL7 VIII				GT109D	*	X			15142-69
P102			X			GT109G	*	X			15142-69
A103	*	DEC XXIII				GT109I	*	X			15142-69
AL103A	*	LED GAE XI-E				GT109V	*	X			15142-69
AL103B	*	LED GAE XI-E				GT109YE	*	X			15142-69
O103	*	REC XI				GT109ZH	*	X			15142-69
O103A	*	REC XI				P109		X			
KD103A	*	XI				S-109		TET SIN		GKE-300+	
KD103B	*	XI				P110		X			
KD103C	*	XI				UB110		TRI SIN		452+	
KP103I	*	SFP X-B				MP111	*	X			14949-69
KP103K	*	SFP X-B				MP111A	*	X			14949-69
KP103L	*	SFP X-B				MP111B	*	X			14949-69
KP103M	*	SFP X-B				VU-1110		DIO SIN IV			
KP103YE	*	SFP X-B				MP112	*	X			14949-69
KP103ZH	*	SFP X-B				SB-112		PNO SIN II		4E1+	
KV103A	*	VAR SIO XI-O				FEU113	*	PHM XVI			
KV103B	*	VAR SIO XI-O				MP113	*	X			14949-69
P103			X			MP113A	*	X			14949-69
S-103		TET SIN		GKE-1000+		FEU114	*	PHM XVI			
O104	*	REC XI				MP114	*	X			14874-69
O104A	*	REC XI				GT115A	*	X			
KL104A	*	DIN SCD XI-E				GT115B	*	X			
KT104A	*	SEP X				GT115D	*	X			
KT104B	*	SEP X				GT115G	*	X			
KT104G	*	SEP X				GT115V	*	X			
KT104V	*	SEP X				MP115	*	X			14874-69
KV104A	*	VAR SI XI-O				MP116	*	X			14874-69
KV104B	*	VAR SI XI-O				KT117A	*	SNJ X			
KV104D	*	VAR SI XI-O				KT117B	*	SNJ X			
KV104G	*	VAR SI XI-O				KT117G	*	SNJ X			
KV104V	*	VAR SI XI-O				KT117V	*	SNJ X			
KV104YE	*	VAR SI XI-O				KT118A	*	S2P X			
L-104		PNO SIN		AK4P+, SBA6S		KT118B	*	S2P X			
LN104	*	EL7 VIII				KT118V	*	S2P X			
P104			X			SC-118		TRI SIN		455+	

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO
G120		TRI SIN III				SB-190		PNO SIN II			
IFK120		XX				KS191A	*	REG SIA XIII			
KT120A	*	SER X				191R		TET SIN II			
KT120B	*	SEP X				KS194A		REG XIII			
KT120V	*	SEP X				KS194B		REG XIII			
MI-120		MAG IX				KS194G		REG XIII			
TR-120/15		TRI THY		TR-I-40/15+		KS194V		REG XIII			
GT122A	*	GAR X				KS196A	*	REG SIA XIII			
GT122B	*	GAR X				KS196B	*	REG SIA XIII			
GT122G	*	GAR X				KS196G	*	REG SIA XIII			
GT122V	*	GAP X				KS196V	*	REG SIA XIII			
SO-122		PNO SIN		API+		VO-196		OIO SIN IV			
GT124A	*	GAR X				VO-197		OIO SIN IV			
GT124B	*	GAR X				GO-200		TRI SIN		GS-4+	
GT124V	*	GAR X				I-200/1.5		TRI IGN IV			
SO-124		RNO SIN II		4ZM5+		IFP200		XX			
TCH125	*	TRI XII-B				IVS200/2		IGN IV			
TO-125	*	TRI XII-B				K-200	*	RKY IX			
TS-125	*	THY SIA XII-A				RR-200	*	TR IX			
VO-125		OIO SIN IV				TO-200	*	TRI XII-B			
SK-127		XXII				TGI-200		TRI THY VII		WT	
VG-129		OIO SIN IV				TLV-200	*	THY SIA XII-A			
GI-130M	*	TRI SIN III				VGv200		POW			
UB-132		TRI SIN II		4S3+		VK-200		POW XII			
KS133A	*	REG SI XIII				VK2-200	*	REC SI XII			
R135		X				VKDU-200	*	THY SIA XII-A			
MI-137		MAG IX				VKOUV-200	*	SCR SIA XII-A			
KS139A	*	REG SI XIII				VKV200		POW XII			
TO-141		TRI SIN II		351+		VL-200	*	REC SI XII			
TO-142		TRI SIN II		352+, 359+		AI-201A	*	TUN XI-B			
KS147A	*	REG SI XIII				AI-201B	*	TUN XI-B			
SB-147		TET SIN		4E2+		AI-201C	*	TUN XI-B			
SO-148		RNO SIN II		4E3+		AI-201G	*	TUN XI-B			
GI-150		TRI SIN III				AI-201I	*	TUN XI-B			
GKE150		TET SIN III		GE-2+		AI-201K	*	TUN XI-B			
GU150		TRI SIN III			7712-55	AI-201L	*	TUN XI-B			
I-150/1.0	*	TRI IGN IV				AI-201V	*	TUN XI-B			
M150		TRI SIN III				AI-201YE	*	TUN XI-B			
VKOU150	*	SCR SIA XII-A				AI-201ZH	*	TUN XI-B			
VKOUS-150	*	THY SIA XII-A				O201A		REC XI			
VKOUSV-150	*	THY SIA XII-A				O201B		REC XI			
I5055-30		OIO SIN		SG4S+, CO3S		O201D		REC XI			
SB-152		TRI SIN II				O201G		REC XI			
UB-152		TRI SIN II		2S1+		O201TS		REC XI			
UB-153		TRI SIN II				O201V		REC XI			
SB-154		PNO SIN II		2E1+		O201YE		REC XI			
SB-155		BEA SIN		2P2+		O201ZH		REC XI			
UB-155		BEA SIN II		2E2+		KT201A	*	SEN X			
KS156A	*	REG SI XIII				KT201B	*	SEN X			
MI-158-1	*	MAG IX				KT201D	*	SEN X			
TO-160	*	TRI XII-B				KT201G	*	SEN X			
TL-160	*	THY SIA XII-A				KT201V	*	SEN X			
TS-160	*	THY SIA XII-A				KU-201A	*	SCR XII-B			
VG-161		OIO SIN IV				KU-201B	*	SCR XII-B			
KS162A	*	REG SIA XIII				KU-201D	*	SCR XII-B			
KS162B	*	REG SIA XIII				KU-201G	*	SCR XII-B			
VG-163	*	IV				KU-201I	*	SCR XII-B			
KS168A	*	REG SI XIII				KU-201K	*	SCR XII-B			
KS168V	*	REG SIA XIII				KU-201L	*	SCR XII-B			
KS170A	*	REG SIA XIII				KU-201V	*	SCR XII-B			
KS175A	*	REG SIA XIII				KU-201YE	*	SCR XII-B			
VG-176		OIO SIN IV				KU-201ZH	*	SCR XII-B			
UB-178		TRI SIN II				L1201	*	IV VII-B			
KS182A	*	REG SIA XIII				P201E	*	X			
SO-182		PNO SIN II				P201AE	*	X			
UB-182		TRI SIN II				SG201S		OIO SIN V		0B3S	
SO-185		TRI SIN		4S5+		C202	*	REC XI			
UO186		TRI SIN II		4S4+		KO202A	*	XI			
US-186		TRI SIN		4S4+		KO202B	*	REC XI			
VO-188		DWO SIN IV		4VKH1+		KO202D	*	REC XI			

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
KD202G	* REC	XI				KT207V	* SEP	X			
KD202I	* REC	XI				LI207	* IM	VIII-A			
KD202K	* REC	XI				R207		X			
KD202L	* REC	XI				P207A		X			
KD202M	* REC	XI				D208	* REC	XI			
KD202N	* SID	XI				P208		X			
KD202R	* REC	XI				P208A		X			
KD202S	* REC	XI				D209	* REC	XI			
KD202V	* REC	XI				KT209A	* SPP	X			
KD202YE	* REC	XI				KT209B	* SPP	X			
KD202ZH	* REC	XI				KT209D	* SPP	X			
KPS202A	* SFN	X-B				KT209G	* SPP	X			
KPS202B	* SFN	X-B				KT209I	* SPP	X			
KP202D	* SFN	X-B				KT209K	* SPP	X			
KPS202G	* SFN	X-B				KT209L	* SPP	X			
KPS202V	* SFN	X-B				KT209M	* SPP	X			
KP202YE	* SFN	X-B				KT209V	* SPP	X			
KT202A	* SEP	X				KT209YE	* SPP	X			
KT202B	* SEP	X				KT209ZH	* SPP	X			
KT202G	* SEP	X				P209	GAP	X			
KT202V	* SEP	X				P209A	GAP	X			
KU-202A	* SCR TRI	XII-B				D210	* REC	XI			
KU-202B	* SCR TRI	XII-B				GI-210	* TRI SIM	XII			
KU-202D	* SCR TRI	XII-B				KS210B	* REG SIA	XIII			
KU-202G	* SCR TRI	XII-B				P210	GAP	X			
KU-202I	* SCR TRI	XII-B				P210A	* GAP	X			
KU-202K	* SCR TRI	XII-B				P210B	* GAP	X			
KU-202L	* SCR TRI	XII-B				P210V	* GAP	X			
KU-202M	* SCR TRI	XII-B				D211	* REC	XI			
KU-202N	* SCR TRI	XII-B				KS211B	REG SI	XIII			
KU-202V	* SCR TRI	XII-B				KS211D	REG SI	XIII			
KU-202YE	* SCR TRI	XII-B				KS211G	REG SI	XIII			
KU-202ZH	* SCR TRI	XII-B				KS211V	REG SI	XIII			
LI202	* IM	VIII-A				LI211	* IM	VIII-A			
P202E	* X			2N683		P211		X			
SG202B	DIO SIN	V				20233-74	LI212	* IM	VIII-A		
VO-202	OWO SIN	IV				P212		X			
D203	* REC	XI				P212A		X			
KD203A	* REC SID	XI				TG212M	TRI THY	VII			
KD203B	* REC SID	XI				KS213B	* REG SIA	XIII			
KD203D	* REC SID	XI				LI213	* IM	VIII-A			
KD203G	* REC SID	XI				P213		X			
KD203V	* REC SID	XI				P213A		X			
KT203A	* SEP	X				P213B		X			
KT203B	* SEP	X				TG-213	TRI THY	VII		PT-2**	
KT203V	* SEP	X				D214	REC SIA	XI			
LI203	* IM	VIII-A				D214A	REC SIA	XI			
P203E	* X			2N683		D214B	REC	XI			
SG203K	DIO SIN	V				LI214	* IM	VIII-A			
D204	* REC	XI				P214		X			
KU204A	* TRI	XII-B				P214A		X			
KU204B	* TRI	XII-B				P214B		X			
KU204V	* TRI	XII-B				P214G		X			
SG204K	* REG	V				P214V		X			
UV-204	TWT	IX				D215	REC SIA	XI			
D205	* REC	XI				D215A	REC SIA	XI			
KD205A	* REC SIA	XI				D215B	REC SIA	XI			
KD205B	* REC SIA	XI				R215		X			
KD205D	* REC SIA	XI				P216		X			
KD205G	* REC SIA	XI				P216A		X			
KD205V	* REC SIA	XI				P216B		X			
KD205YE	* REC SIA	XI				P216D		X			
SG205B	* REG	V				P216G		X			
UV-205	TWT	IX				P216V		X			
D206	* REC	XI				D217	* REC SIA	XI			
KT206A	* SPN	X				LI217	* IM	VIII-A			
KT206B	* SPN	X				QD217	* REC SID	XI			
D207	* REC	XI				P217		X			
KT207A	* SEP	X				R217A		X			
KT207B	* SEP	X				P217B		X			

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
P217G	*	X				D235B	CON	SI	XI-C		
P217V	*	X				D235G	CON	SI	XI-C		
D218	* REC	SIA	XI			D235V	CON	SI	XI-C		
LI218	* IM	VIII-A				TG-235	TRI	THY	VII	PT-3**	
LI218-I	* IM	VIII-A				VG-236	*		IV		
D219A	* REC	SIA	XI			VG-237	* OIO	SIN	IV		
D219S	*	XI				D238A	CON	SI	XI-C		
D220	* REC	SIA	XI			D238B	CON	SI	XI-C		
D220A	* REC	SIA	XI			D238D	CON	SI	XI-C		
D220B	* REC	SIA	XI			D238G	CON	SI	XI-C		
D220S	* REC	SIA	XI			D238V	CON	SI	XI-C		
SK-220		XXII				D238VE	CON	SI	XI-C		
D221	REC	SIA	XI			VO-239	OIO	SIN	IV		
D222	REC	SIA	XI			U8-240	TRI	SIN	II	2S2+	
D223	* REC	SIA	XI		I4343-69	SB241	PNO	SIN		2K1*, 2K1M*, SO241*	
D223A	* REC	SIA	XI		I4343-69	SO241	PNO	SIN		2K1*, 2K1M*, SO241*	
D223B	* REC	SIA	XI		I4343-69	D242	* REC	SI			14758-69
LI223	* IM	VIII-A				D242A	* REC	SI			14758-69
D224	REC	SIA	XI			D242B	* REC	SI			14758-69
D224A	REC	SIA	XI			S8-242	PTG	SIN		2A1+	
D224B	REC	SIA	XI			SO-242	PTG	SIN	II	SB242, 2A1, 2A1M	
LI224	* IM	VIII-A				D243	* REC	SI			14758-69
D225	REC	SIA	XI			D243A	* REC	SI			14758-69
D226	REC	SIA	XI			D243B	* REC	SI			14758-69
D226A	REC	SIA	XI			SB243	TRI	DUO		2N1*, 2N1M*, SO243*	
D226B	*	XI				SO-243	TRI	TWN	II	2N1+	
D226D	* SIA	XI				D244	* REC	SI			
D226G	* SIA	XI				D244A	* REC	SI			
D226V	* SIA	XI				D244B	* REC	SI			
D226VE	SIA	XI				SB244	BEA	SIN		2P1*, SO244+	
SG226	OIO	SIN	V			SO-244	PNO	SIN	II	2P1+	
D227-A	SWI	SIA	XI-A			D245	* REC	SI			14758-69
D227-B	SWI	SIA	XI-A			D245A	* REC	SI			14758-69
D227-D	SWI	SIA	XI-A			D245B	* REC	SI			14758-69
D227-G	SWI	SIA	XI-A			SB245	PNO	SIN		2ZH1M+	
D227-I	SWI	SIA	XI-A			D246	* REC	SI			14758-69
D227-V	SWI	SIA	XI-A			D246A	* REC	SI			14758-69
D227VE	SWI	SIA	XI-A			D246B	* REC	SI			14758-69
D227-ZH	SWI	SIA	XI-A			D247	* REC	SI			14758-69
LI227	* IM	VIII-A				D247B	* REC	SI			14758-69
SG227	OIO	SIN	V			LD247	* OD	VIII			19295-73
D228-A	SWI	SIA	XI-A			D248B	* REC	SI			14758-69
D228-B	SWI	SIA	XI-A			LD-248	OS	VIII			
D228-D	SWI	SIA	XI-A			LD-249	OS	VIII			
D228-G	SWI	SIA	XI-A			GKD-250	TRI	SIN		GK-1A+	
D228-I	SWI	SIA	XI-A			TD-250	* TRI	SI	XI-3		
D228-V	SWI	SIA	XI-A			TL-250	* THY	SI	XII-A		
D228VE	SWI	SIA	XI-A			VK2V-250	* REC	SI	XII		
D228-ZH	SWI	SIA	XI-A			VG-252	OIO	SIN	IV		
LI228	* IM	VIII-A				G256	TRI	SIN	III		
D229A	SIA	XI				SO257	PNO	SIN	II	2ZH4+	
D229B	SIA	XI				SB258	BEA	SIN		2P3+, 2P2M+, SO258+	
D229D	XI					SO-258	PNO	SIN	II	2P3+	
D229E	XI					SB259	TRI	DUO		4N1+	
D229G	XI					SO259	TRI	DUO		4N1+	
D229V	XI					RB-280			XXII		
D230A	SIA	XI				G-300	TRI	SIN		G68	
D230B	SIA	XI				GI-300	TRI	SIN		GI-128+	
VO-230	OIO	SIN	IV			GK-300	TRI	SIN		GU-9+	
D231,P	REC	SIA	XI			GKE300	TET	SIN	III		
D231A,P	REC	SIA	XI			IFB300			XX		
D231B,P	REC	SIA	XI			TKP-300		TMS	POW	XIX	
D232,P	REC	SIA	XI			AI-301A	* TUN	GE	XI-B		15606-70
D232A,P	REC	SIA	XI			AI-301B	* TUN	GE	XI-B		15606-70
D232B,P	REC	SIA	XI			AI-301G	* TUN	GE	XI-B		15606-70
D233,P	SIA	XI				AI-301V	* TUN	GE	XI-B		15606-70
D233A	REC	SIA	XI			KP301B	* SFP		X-B		
D233B,P	REC	SIA	XI			KT301	*		X		
D234B,P	REC	SIA	XI			KT301A	*		X		
D235A	CON	SI	XI-C			KT301B	*		X		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
KT3010	*		X			KT307B	*		X		
KT301G	*		X			KT307G	*	SEN	X		
KT301V	*		X			KT307V	*		X		
KT301YE	*		X			P307			X		
KT301ZH	*		X			P307A			X		
SG301S-1	*	OIO SIN V			9103-59	P307B			X		
O302	*	REC	XI			P307G			X		
O302A	*		XI			P307V			X		
KP302A	*	SFN	X-9			SG307K	*		V		
KP3029	*	SFN	X-8			GT308A	*		X		
VP302G	*	SFN	X-9			GT308B	*		X		
KP302V	*	SFN	X-8			GT308V	*		X		
KT302A	*	SPN	X			K-308	*	KLO	IX		
KT302B	*	SPN	X			KP308A	*	SFN	X-8		
KT302G	*	SPN	X			KP308B	*	SFN	X-8		
KT302V	*	SPN	X			KP308D	*	SFN	X-8		
P302	*		X			KP308G	*	SFN	X-8		
SG302S-1	*	OIO SIN V			9103-59	KP308V	*	SFN	X-8		
O303	*	REC	XI			KU308	*	KLA	IX		
O303A	*		XI			P308			X		
KP303A	*	SFN	X-9			SG308K	*		V		
KP303B	*	SFN	X-8			GT309A	*		X		
KP303D	*	SFN	X-9			GT309B	*		X		
KP303G	*	SFN	X-8			GT309D	*		X		
KP303I	*	SFN	X-8			GT309G	*		X		
KP303V	*	SFN	X-8			GT309V	*		X		
KP303YE	*	SFN	X-8			GT309YE	*		X		
KP303ZH	*	SFN	X-8			KU309	*	KLA	IX		
P303	*		X			P309	*		X		
P303A	*		X			SG309K	*		V		
SG303S-1	*	OIO SIN V			9103-59	O310	*	GEA	XI		15953-70
O304	*	REC	XI			GT310A	*		X		
G1304A	*	TUN GE	XI-8			GT310B	*		X		
G1304B	*	TUN GE	XI-9			GT310D	*		X		
KP304A	*	SGP	X-8			GT310G	*		X		
KU304	*	KLA	IX			GT310V	*		X		
KU304A	*	KLA	IX			GT310YE	*		X		
P304	*		X			KU310A	*	KLA	IX		
SG304S	*	OIO SIN V				KU310B	*	KLA	IX		
O305	*	REC	XI			O311	*	REC	XI		
G1305A	*	TUN GE	XI-9			O311A	*	REC	XI		
G1305B	*	TUN GE	XI-8			O311B	*	REC	XI		
GT305A	*		X			GT311A	*		X		
GT305B	*		X			GT311B	*		X		
GT305V	*		X			GT311D	*		X		
SG305K	*	REG	V			GT311G	*		X		
KP305D	*	SGN	X-8			GT311I	*		X		
KP305I	*	SGN	X-8			GT311V	*		X		
KP305YE	*	SGN	X-9			GT311YE	*		X		
KP305ZH	*	SGN	X-8			GT311ZH	*		X		
KP306A	*	SG2	X-8			SG311S	*	REG	V		
KP306B	*	SG2	X-8			O312	*	REC	XI		
KP306V	*	SG2	X-8			O312A	*	REC	XI		
KT306A	*		X			O312B	*	REC	XI		
KT306B	*		X			KP312A	*	SFN	X-8		
KT306D	*		X			KP312B	*	SFN	X-9		
KT306G	*		X			KT312A	*		X		
KT306V	*		X			KT312B	*		X		
P306	*		X			KT312G	*		X		
P306A	*		X			KT312V	*		X		
SG306K	*	REG	V			GT313A	*		X		
G1307A	*	TUN GEA	XI-8			GT313B	*		X		
KP307A	*	SFN	X-8			KP313A	*	SGN	X-8		
KP307B	*	SFN	X-8			KP313B	*	SGN	X-8		
KP307D	*	SFN	X-8			KP313V	*	SGN	X-8		
KP307G	*	SFN	X-9			P314A	*		X		
KP307V	*	SFN	X-8			P314B	*		X		
VP307YE	*	SFN	X-9			P314S	*		X		
KP307ZH	*	SFN	X-9			KT315A	*		X		
KT307A	*		X			KT315B	*		X		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
KT315G	*		X			GT328V	*		X		
KT315V	*		X			GT329A	*		X		
KT8315A	*		X			GT329B	*		X		
KT8315B	*		X			GT329V	*		X		
KT316A	*		X			GT330A	*		X		
KT316B	*		X			GT330B	*		X		
KT316D	*		X			GT330D	*	SPN	X		
KT316G	*		X			GT330ZH	*	SPN	X		
KT316V	*		X			KT331A	*	SPN	X		
KT317A	*	SEN	X			KT331B	*	SPN	X		
KT317B	*	SEN	X			KT331G	*	SPN	X		
KT317V	*	SEN	X			KT331V	*	SPN	X		
KT318A	*		X			KT332A	*	SPN	X		
KT318B	*		X			KT332B	*	SPN	X		
KT318D	*		X			KT332D	*	SPN	X		
KT318G	*		X			KT332G	*	SPN	X		
KT318V	*		X			KT332V	*	SPN	X		
KT318YE	*		X			KT333A	*	SPN	X		
KT319A	*		X			KT333B	*	SPN	X		
KT319B	*		X			KT333D	*	SPN	X		
KT319V	*		X			KT333G	*	SPN	X		
GT320A	*		X			KT333V	*	SPN	X		
GT320B	*		X			KT333YE	*	SPN	X		
GT320V	*		X			KT336A	*	SPN	X		
T-320	*	THY S14 XII-A				KT336B	*	SPN	X		
T-320V	*	TRI XII-B				KT336D	*	SPN	X		
TD-320A	*	TRI XII-B				KT336G	*	SPN	X		
TD-320B	*	TRI XII-B				KT336V	*	SPN	X		
TLV-320	*	THY S14 XII-A				KT336YE	*	SPN	X		
V-320	*	REC SI XII				KT337A	*		X		
V2 320	*	REC SI XII				KT337B	*		X		
VL-320	*	REC SI XII				KT337V	*		X		
VLV-320	*	REC SI XII				GT338A	*		X		
GT321A	*		X			GT338B	*		X		
GT321B	*		X			GT338V	*		X		
GT321D	*		X			KT339A	*		X		
GT321G	*		X			KT339B	*		X		
GT321V	*		X			KT339D	*		X		
GT321YE	*		X			KT339G	*		X		
GT322A	*		X			KT339V	*		X		
GT322B	*		X			KT340A	*	SEP	X		
GT322D	*		X			KT340B	*	SEP	X		
GT322G	*		X			KT340D	*	SEP	X		
GT322M4	*	GDP	X			KT340G	*	SEP	X		
GT322M5	*	GDP	X			KT340V	*	SEP	X		
GT322M6	*	GDP	X			GT341A	*	GPN	X		
GT322M7	*	GDP	X			GT341B	*	GPN	X		
GT322V	*		X			GT341V	*	GPN	X		
GT322YE	*		X			KT342A	*		X		
P322	*		X			KT342B	*		X		
GT323A	*		X			KT342D	*		X		
GT323B	*		X			KT342G	*		X		
GT323V	*		X			KT342V	*		X		
KT324A	*	SEN	X			KT342YE	*		X		
KT324B	*	SEN	X			KT343A	*		X		
KT324D	*	SEN	X			KT343B	*		X		
KT324G	*	SEN	X			KT343G	*		X		
KT324V	*	SEN	X			KT343V	*		X		
KT324YE	*	SEN	X			KT343A	*	SEP	X		
KT325A	*		X			KT343B	*	SEP	X		
KT325B	*		X			KT343V	*		X		
KT325D	*		X			KT343A	*	SEP	X		
KT325G	*		X			KT343B	*	SEP	X		
KT325V	*		X			KT343V	*		X		
GT325/16	*	TRI -4V		4T15+, TGI-1-325/16+		KT343A	*	SEP	X		
KT326A	*		X			KT343B	*		X		
KT326B	*		X			KT343G	*		X		
GT326	*		X			KT343V	*		X		
GT329A	*	GDP	X			KT343A	*	SEP	X		
GT329B	*	GDP	X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X		
GT329V	*		X			KT343V	*		X		
GT329A	*		X			KT343A	*	SEP	X		
GT329B	*		X			KT343B	*	SEP	X</		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
KP350V	* SF2	X-B				GT376A	* GFP	X			
KT350A	*	X				KT379A	* SPN	X			
3-350		XXII		15633-70		KT379B	* SPN	X			
PS-350		XXII				KT379G	* SPN	X			
K-351	KLO	IX				KT379V	* SPN	X			
KT351A	*	X				KT380A	* SPP	X			
KT351B	*	X				KT380B	* SPP	X			
K-352	KLO	IX				KT380V	* SPP	X			
KT352A	*	X				KT382A	* SPN	X			
KT352B	*	X				KT382B	* SPN	X			
KT354A	* SEN	X				KT392A	* SPP	X			
KT354B	* SEN	X				KT393A	* SPP	X			
KT355	* SEN	X				KT393B	* SPP	X			
KT355A	* SEN	X				KTS394A	* SPP	X			
KT356	* SEN	X				KTS394B	* SPP	X			
KT356A	* SEN	X				KT396A	* SPP	X			
KT356B	* SEN	X				KT397A	* SPP	X			
KT357A	* SEP	X				GO-A00	TRI SIN		GS-6+		
KT357B	* SEP	X				M400	TRI SIN III				
KT357G	* SEP	X				TG-A00/15	TRI THY		TRI-132/15+		
KT357V	* SEP	X				TG1400/3.5	TRI THY		TGI-2-400/3.5+		
KT358A	* SEN	X				TV-A00	* THY SI4 XII-A				
KT358B	* SEN	X				DA01	MIX	XIV			
KT358V	* SEN	X				GI401A	* BWO GE	XI-G			
KT359A	* SPN	X				GI401B	* BWO GE	XI-G			
KT359B	* SPN	X				K0401A	* REC	XI			
KT359V	* SPN	X				K0401B	* REC	XI			
KT360A	* SEP	X				KTS401A	* REC	XI			
KT360B	* SEP	X				KTS401B	* REC	XI			14914-69
KT360V	* SEP	X				KTS401V	* REC	XI			14914-69
VO-360	DIO SIN IV					LI401		VIII-A			
KT361A	* SEN	X				M401	TRI SIN III				
KT361B	* SEN	X				P401	*	X	2N112s		
KT361D	* SEN	X				AI402B	* BWO GAS	XI-G			
KT361G	* SEN	X				AI402G	* BWO GAS	XI-G			
KT361V	* SEN	X				AI402I	* BWO GAS	XI-G			
KT361YE	* SEN	X				AI402YE	* BWO GAS	XI-G			
GT362A	* GPN	X				ATA02B	* TUN GAS	XI-B			
GT362B	* GPN	X				ATA02G	* TUN GAS	XI-B			
KT363A	* SEP	X				ATA02YE	* TUN GAS	XI-B			
KT363B	* SEP	X				DA02	MIX SI	XIV			
KT364A	* SEP	X				GO402A	* REC	XI			
KT364B	* SEP	X				GO402B	* REC	XI			
KT364V	* SEP	X				GT402					
KT366A	* SPN	X				GT402A	*	X			
KT366B	* SPN	X				GT402B	*	X			
KT366V	* SPN	X				GT402D	* G P	X			
KT367A	* SEN	X				GT402G	*	X			
KT368A	* SEN	X				GT402I	* G P	X			
KT368B	* SEN	X				GT402V	*	X			
KT369A	* SPN	X				GT402YE	* G P	X			
KT369A-1	* SPN	X				GT402ZH	* G P	X			
KT369B	* SEN	X				P402	*	X	SB-100s		
KT369B-1	* SPN	X				O403A	MIX	XIV			
KT369G	* SPN	X				O403B	MIX	XIV			
KT369G-1	* SPN	X				O403V	MIX	XIV			
KT369V	* SPN	X				GO403A	* REC	XI			
KT369V-1	* SPN	X				GO403B	* REC	XI			
KT370A	* SEP	X				GO403V	* REC	XI			
KT370B	* SEP	X				GI403A	* TUN GEA	XI-B			
KT371A	* SEN	X				GT403A	*	X			
KT372A	* SEN	X				GT403B	*	X			
KT372B	* SEN	X				GT403D	*	X			
KT372V	* SEN	X				GT403G	*	X			
KT373A	* SEN	X				GT403I	*	X			
KT373B	* SEN	X				GT403IU	*	X			
KT373G	* SEN	X				GT403V	*	X			
KT373V	* SEN	X				GT403YE	*	X			
KT375A	* SPN	X				GT403ZH	*	X			
KT375B	* SPN	X				DA03	*	X	QC614+		

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
P403A	*	X		OC514=		G418		PND SIN III			
A03A	*	8WD GEA XI-G				LI418	*	VIO VIII-A			
O404		MIX SI XIV				P418		X			
GT404A	*	X				P418A		X			
GT404B	*	X				P418B		X			
GT404D	*	G N X				P418G		X			
GT404G	*	X				P418M		X			
GT404I	*	G N X				P418V		X			
GT404V	*	X				LI419	*	VIO VIII-A			
GT404YE	*	G N X				LI419-1	*	VIO VIII-A			
GT404ZH	*	G N X				LI420	*	VIO VIII-A			
P404		X				LI420-I	*	VIO VIII-A			
P404A		X				P420		X			
O405		DET XIV				LI421	*	VIO VIII-A			
O405A		DET XIV				LI421-I	*	VIO VIII-A			
O405AP		DET XIV				P421		X			
O405B		DET XIV		1N230S		UV-421		TWT IX			
O405BP		DET XIV				G422		PND SIN III			
GO405A	*	REC GEA XI				LI422	*	VIO VIII-A			
GT405A	*	GAP X				P422	*	X			
GT405B	*	GAP X				P422A		X			
GT405G	*	GAP X				UV-422		TWT IX			
GT405V	*	GAP X				P423	*	X			
P405		X				P423A		X			
O405A		X				G424		PND SIN III			
O406		MIX SI XIV				LI424	*	VIO VIII-A			
GO406A	*	REC GEA XI				G425		PND SIN III			
P406		X		GT-60=, 2N113S		LI425	*	VIO VIII-A			
LI407	*	VIO VIII-A				LI426	*	VIO VIII-A			
P407		X		2N114S		LI428	*	VIO VIII-A			
O408		MIX SI XIV				LI429	*	VIO VIII-A			
LI408	*	VIO VIII-A				G430		TRI SIN III			
P408		X				LI430	*	VIO VIII-A			
O409A	*	MIX SI XIV				R8-430		XXII			
O409AP	*	MIX SI XIV				G431		TRI SIN III		G431A+	
LI409	*	VIO VIII-A				G431A		TRI SIN III		G431	
P409		X				G-431R		TRI SIN		GS-4D+	
T-409		OIO IGM IV				G433		TRI SIN III		G433A+	
G410		TRI SIN III				G433A		TRI SIN III		G433	
LI410	*	VIO VIII-A				KS433A	*	PEG SIA XIIII			
P410	*	X				M435		TRI SIN III			
P410A	*	X				UV-438		TWT IX			
T-410		OIO IGM IV				KS439A	*	PEG SIA XIIII			
A10R		KLO				UV-440		TWT IX			
G411		PND SIN III		KZM1=+		G441		TRI SIN III			
P411	*	X		AF114=		KS447A	*	REG SIA XIIII			
P411A	*	X		AF114=		G-450		TRI SIN III			
T-411		OIO IGM IV				OS450		PND SIN		GU80, P900=+	
G412		PND SIN III				R-450		XXII			
LI412	*	VIO VIII-A				M-451		TRI SIN		GM-51A+	
G413		PND SIN III		GZM2=+		G-452		TRI SIN III		G-431A+	
G414		PND SIN III				G-454		TRI SIN III		GS-38+	
LI414	*	VIO VIII-A				KS456A	*	REG SIA XIIII			
P414		X				M457		TRI SIN II		M53=+, J8190=, G457+	
P414A		X				KS468A	*	REG SIA XIIII			
P414B		X				M-470		TRI SIN		GM-70+	
LI415	*	VIO VIII-A				G471		PND SIN		GK71+	
LI415-2	*	VIO VIII-A				G472		TRI SIN III			
P415		X				G480		TRI SIN		GI-17=+	
P415A		X				KS482A	*	REG SIA XIIII			
P415B		X				G-483		TET SIN		GMI-83+	
P416	*	X			14876-72	G484		TRI SIN III			
P416A	*	X			14876-72	G-489		TET SIN		GMI-29+	
P416B	*	X			14875-72	G-490		TET SIN		GMI-90=+	
P416V		X				GKE500	*	TET SIN III			
G417		TRI SIN III				IFK500		XX			
LI417	*	VIO VIII-A				IFP500		XX			
P417	*	X				ISSH500		XX			
P417A	*	X				T-500	*	THY SIA XIIII			
P417B	*	G P X				V-500	*	REC SI XII			

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TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
VG500		POW				KT602B	*		X		
VKV-500	*	REC SI	XII			KT602G	*		X		
D50I	*		XIV			KT602V	*		X		
KT501A	*	SPP	X			LI602	*	IMO	VIII-A		
KT501B	*	SPP	X			P602	*		X		
KT501D	*	SPP	X			P602A	*		X		
KT501G	*	SPP	X			P602AI	*		X		
KT501I	*	SPP	X			P602I	*		X		
KT501K	*	SPP	X			O603	*	VIO	XIV		
KT501L	*	SPP	X			KT603A	*		X		
KT501M	*	SPP	X			KT603B	*		X		
KT501V	*	SPP	X			KT603D	*		X		
KT501VE	*	SPP	X			KT603G	*		X		
KT501ZH	*	SPP	X			KT603V	*		X		
P501			X			KT603YE	*		X		
P501A			X			LI603	*	IMO	VIII-A		
P502			X			LI603-I	*	IMO	VIII-A		
P502A			X			O604	*	VIO SI	XIV		
P502B			X			KT604A	*		X		
P502V			X			KT604B	*		X		
KD503A	*	REC SPN	XI			LI604	*	IMO	VIII-A		
KD503B	*	REC SPN	XI			LI604-K	*	IMO	VIII-A		
KD503V	*	REC SPN	XI			P604		GAP	X		
P603			X			P604A		GAP	X		
P503A			X			P604B		GAP	X		
KD504A	*	REC SIA	XI			O605	*	MIX SI	XIV		
P504			X			KT605A	*		X		
P504A			X			KT605B	*		X		
P505			X			LI605	*	IMO	VIII-A		
P505A			X			LI605-I	*	IMO	VIII-A		
GD507A	*	REC	XI			P605	*	GDP	X		
KD509A	*	REC SEN	XI			P605A	*	GDP	X		
MI-509-A	*	MAG	IX			KT606A	*		X		
MI-509-B	*	MAG	IX			KT606B	*		X		
MI-509-D	*	MAG	IX			LI606	*	IMO	VIII-A		
MI-509-G	*	MAG	IX			P606	*	GDP	X		
MI-509-V	*	MAG	IX			P606A	*	GDP	X		
MI-509-YE	*	MAG	IX			O607	*		XIV		
KD510A	*	REC SEN	XI			O607A	*		XIV		
KD512A	*	SI	XI			KT607	*	SEN	X		
KD513A	*	SI	XI			KT607A	*	SPN	X		
KD514A	*	REC SEN	XI			KT607B	*	SPN	X		
K5518A	*	REG SIA	XIII			P607	*		X		14893-74
K5518A	*	REG SIA	XIII			P607A	*		X		14893-74
K5522A	*	REG SIA	XIII			O608	*		XIV		
K5525A	*	REG SIA				KT608A	*	SEN	X		
K5527A	*	REG SIA	XIII			KT608B	*	SEN	X		
K5528A	*	REG SIA				P608	*		X		14883-74
M-532	MAG		IX			P608A	*		X		14893-74
M57I	MAG		IX			P608B	*		X		
MI-588-M	*	MAG	IX			O609	*		XIV		
MI-589A	MAG		IX			P609	*		X		14893-74
MI-589B	MAG		IX			P609A	*		X		14893-74
MI-589V	MAG		IX			P609B	*		X		
M6CQ	TRI	SIN		GM60+		KT610A	*	SEN	X		
KT60I	*		X			KT610B	*	SEN	X		
KT601A	*		X			KT611A	*		X		
LI601	*	IM	VIII-A			KT611B	*		X		
P60I	*		X			KT611G	*		X		
P60IA	*		X			KT611V	*		X		
P601AI	*		X			GT612A	*	GPN	X		
P601B	*		X			OV-612	*	SWT	IX		
P601B1	*		X			OV-613	*	SWT	IX		
P601I	*		X			OV-614	*	SWT	IX		
P602A	VIO		XIV			KT616A	*	SEN	X		
O602B	VIO		XIV			KT616B	*	SEN	X		
O602V	DET		XIV			KT617A	*	SEN	X		
KA602A	*	VAP SEN	XI-O			KT618A	*	SPN	X		
KA602B	*	VAR SEN	XI-O			KT620A	*	SPN	X		
KT602A	*		X			KT620B	*	SPN	X		

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TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.	TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC. NO.
KS620A	* REG	SI	XIII		17126-71	P800		PNO	SIN	GU80** OS450*	
QV-621	BWT	IX				TI-800	* TRI		XII-B		
KT5622A	* SPP	X				V-800	* REC	SI	XII		
KT5622B	* SPP	X				K-801		KLO	IX		
QV-622	BWT	IX				KT801A	*		X		
KT650A	* SPN	X				KT801B	*		X		
KS630A	* REG	SI	XIII		17126-71	K-802		KLO	IX		
KS650A	* REG	SI	XIII		17126-71	KT802A	*		X		
KS680A	* REG	SI	XIII		17126-71	K-803		KLO	IX		
7C0AD	MAG	IX				KT803A	*		X		
GT701A	*	X			169A7-71	GT804A	*		X		
P701	*	X				GT804B			X		
P701A	*	X				GT804V			X		
P701B	*	X				K-804		KLO	IX		
P702	*	X				K-805		KLO	IX		
P702A	*	X				KT805A	*		X		18354-73
GT703A	*	X				KT805B	*		X		18354-73
GT703B	*	X				GT806A	*		X		
KT70AA	* SPN	X				GT806B	*		X		
KT704B	* SPN	X				GT806V	*		X		
KT70AV	* SPN	X				K-806		KLO	IX		
GT705A	* G N	X				G807		BEA	SIN	III	807*
GT705B	* G N	X				K-807		KLO	IX		
GT705D	* G N	X				KT807A	*		X		
GT705G	* G N	X				KT807B	*		X		
GT705V	* G N	X				O808	* REG		XIII		
706AU	MAG	IX				KT808A	*		X		
707A/B	KLO	IX				O809	* REG		XIII		
LO-709A	OS	VIII				KT809A	* SPN		X		
714AU	MAG	IX				O810	* REG		XIII		15953-70
LK-715	TV			18LK15*		O811	* REG		XIII	811-4*	
720AYE	MAG	IX				G811		TRI	SIN	III	
723A/B	KLO	IX				O813	* REG		XIII		
725A	MAG	IX				G-813		BEA	SIN		GU-13*, 813*
LK-726	TV			18LK38*		KTS813A	* SPN		X		
726	KLO	IX				KT5813B	* SPN		X		
LO-729	OS			8LO29*, 3BP1A*		KT5813G	* SPN		X		
LO-730	OS			8LO30*		KT5813V	* SPN		X		
LO-731	OS			13L431*		O814-A	* REG	SI	XIII		14913-69
LO-732	OS			31L432*		O814-B	* REG	SI	XIII		14913-69
LO-733	OS			31LQ33*		O814-D	* REG	SI	XIII		14913-69
LO-734	OS			23L43A*		O814-G	* REG	SI	XIII		14913-69
LO-735	OS			18L435*		O814-V	* REG	SI	XIII		14913-69
LO-736	OS			13LQ36*		O815A.P	* REG	SI	XIII		17126-71
LO-737	OS			13LQ37*		O815B.P	* REG	SI	XIII		17126-71
LO-738	OS			5LQ38*, 2AP1*		O815D.P	* REG	SI	XIII		17126-71
LO-739	OS			8LO39*		O815G.P	* REG	SI	XIII		17126-71
LK-740	TV			18LQA0B*, 7JPAS		O815I	* REG	SI	XIII		17126-71
K-743	KLO	IX				O815V.P	* REG	SI	XIII		17126-71
K-743-A	* RKY	IX				O815VE.P	* REG	SI	XIII		17126-71
K-743-B	* RKY	IX				O815ZH.P	* REG	SI	XIII		17126-71
LO-743	OO			10LQ43*		O816A.P	* REG	SI	XIII		17126-71
K-744	KLO	IX				O816B.P	* REG	SI	XIII		17126-71
K-745	KLO	IX				O816D.P	* REG	SI	XIII		17126-71
K-746	KLO	IX				O816G.P	* REG	SI	XIII		17126-71
K-747	KLO	IX				O816V.P	* REG	SI	XIII		17126-71
LO-747	OO			18LQ47*		O817A.P	* REG	SI	XIII		17126-71
LO-748	OO			13LQA8*		O817B.P	* REG	SI	XIII		17126-71
LO-749	OS			13LQ49*		O817G.P	* REG	SI	XIII		17126-71
GK750	* TRI	SIN	III		77C9-5*	O817V.P	* REG	SI	XIII		17126-71
LO751	OS			23LQ51*		O818A	* REG	SI	XIII		
LO-754	OS			13LQ54*		O818B	* REG	SI	XIII		
K-765	KLO	IX				O818D	* REG	SI	XIII		
K-766	KLO	IX				O818G	* REG	SI	XIII		
K-767	KLO	IX				O818V	* REG	SI	XIII		
K-768	KLO	IX				O818YE	* REG	SI	XIII		
K-769	KLO	IX				G-827		TET	SIN		GU-27B*, 827*
K-770	KLO	IX				G-829		TET	TWN		GU-29*, 829-B*
K-771	KLO	IX				G-832		BEA	TWN		GU-32*, 832*
4800	TRI	SIN	III			G837		PNO	SIN	III	OS12/SC2*, 837*

GROUP 1 - NUMERICAL

TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
G-880		TRI T*H		GU-12A+, 880\$		KT918A	* SRN	X			
TG-884		TRI THY		TGI-0.1/0.3+, 884*		KT918B	* SPN	X			
G889		TRI SIN III		889-A\$		KT919A	* SPN	X			
G89I		TRI SIN III		891\$		KT919B	* SRN	X			
Q901A	* VAR SI	XI-O			16359-70	KT919G	* SPN	X			
Q901B	* VAR SI	XI-O			16359-70	KT919V	* SRN	X			
Q901D	* VAR SI	XI-O			16359-70	KT927A	* SRN	X			
Q901G	* VAR SI	XI-O			16359-70	KT927B	* SRN	X			
Q901V	* VAR SI	XI-O			16359-70	KT927V	* SRN	X			
Q901YE	* VAR SI	XI-O			16359-70	GO1000	TRI SIN		G-29+		
KD901A	* 10A SI	XI-G				GKE1000	TET SIN III				
KD901B	* 20A SI	XI-G				M-1000	TRI SIN		GM-100+		
KD901G	* 40A SI	XI-G				VKV1000	ROW	XII			
KD901V	* 30A SI	XI-G				O1001	REC	XI			
KP901A	SPN	X-B				O1001A	PEC	XI			
Q902	* VAR SI	XI-O				UV1001	* TWT	IX			
KD9020		XI-G				O1002	REC	XI			
KD9021		XI-G				O1002A	REC	XI			
KD902YE		XI-G				UV1002	* TWT	IX			
KD902ZH		XI-G				O1003A	REC	XI			
KT902A		X				UV1003	* TWT	IX			
KD903A		XI-G				O1004	* SIA	XI			14912-69
KD903B		XI-G				UV1004	* TWT	IX			
KT903A		X				O1005A	* SIA	XI			14912-69
KT903B		X				O1005B	* SIA	XI			14912-69
KD904A		XI-G				UV1005	* TWT	IX			
KD904B		XI-G				O1006	* SIA	XI			14912-69
KD904D		XI-G				O1006A	* REC SIA	XI			
KD904G		XI-G				UV1006	* TWT	IX			
KD904V		XI-G				O1007	* SIA	XI			14912-69
KD904YE		XI-G				O1007A	* REC SIA	XI			
KT904A		X				UV1007	* TWT	IX			
KT904B		X				O1008	* SIA	XI			14912-69
GT905A		X				O1008A	* REC SIA	XI			
GT905B		X				UV1008	* TWT	IX			
GT905AM	* G P	X				O1009	* SIA	XI			
KD906		XI-G				O1009A	* SIA	XI			
KD907		XI-G				UV1009	* TWT	IX			
KD907A	* 10A SEN	XI-G				O1010	* SIA	XI			
KD907B	* 20A SEN	XI-G				O1010A	* SIA	XI			
KD907G	* 40A SEN	XI-G				UV1010	* TWT	IX			
KD907V	* 30A SEN	XI-G				O1011A	* SIA	XI			
KT907A		X				UV1011	* TWT	IX			
KT907B		X				UV1012	* TWT	IX			
KD908A	* 80A SEN	XI-G				TG1050	TRI THY		TG2-0.1/0.1+		
KT908A		X				IFP1500		XX			
KT908B		X				I502	OIO SIN IV		ST595		
KD909		XI-G				I504	TRI SIN II				
KD909A	* 30A SEN	XI-G				I506	3EA T*H II				
KT909		X				I509	3EA T*H II				
KT909A	* SEN	X				I511	RNO SIN II				
KT909B	* SEN	X				I512	RNO SIN II		6AG7\$		
KT909G	* SEN	X				I514	RNO SIN II				
KT909V	* SEN	X				I515	3EA SIN II		6K		
KD910A	* 10A SRN	XI-G				I536	OIO T*H II				
KD910B	* 20A SRN	XI-G				I538	3EA SIN II				
KD910V	* 30A SRN	XI-G				I539	TRI SIN II				
KD911A	* 30A SPN	XI-G				I540	3EA SIN II				
KT911		X				I550	OWO SIN II				
KT911A	* SEN	X				I587	* THY VII				
KT911B	* SEN	X				TI1600	* TPI XII-B				
KT911G	* SEN	X				O1602A	REC	XI			
KT911V	* SEN	X				O1602B	REC	XI			
KT912A	* SRN	X				O1602V	REC	XI			
KT912B	* SPN	X				GI625	3EA SIN III		I-25\$		
KT913A		X				GK2000	TRI SIN III				
KT913B		X				IFK2000		XX			
KT913V		X				TG2050	TET THY		TG1-0.1/1.3+, 2050\$		
KT916A		X				GK3000	TRI SIN III				7710-55
KT917A	* SPN	X				M-3000	TRI SIN		GMI-18+		

GROUP 1 - NUMERICAL

TYPE NO.	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.	TYPE NO	KIND	TYPE	GROUP NO.	SIMILAR TYPES	GOST SPEC NO.
PI-3000		PND SIN		GI-8**		A671		TRI SIN		6S1ZH*	
GI-3100		TRI SIN III				G-5000		TRI TWN		GS	
KT3102A	*	SEN	X			IFP15000			XX		
KT3102B	*	SEN	X			IFK20000			XX		
KT3102D	*	SEN	X			G40011		TRI SIN III			
KT3102G	*	SEN	X			IFK80000	*		XX		
KT3102V	*	SEN	X								
KT3102YE	*	SEN	X								
IFPA000			XX								
4378U			XXII								

GROUP II - RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f	I _f	MAXIMUM			TYPICAL								CAP.		f _{max}	BASE NO.	
								E _b	I _b	P _b	E _b	E _{g2}	E _{g1}	I _b	I _{g2}	S _m	μ	R _p	IN	OUT			
																							V
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	CN	F	1.2	60	100		0.3	90	45	15	<1	1.7	.8		500k	7.0	7.0		7AT	
1A2P •	PTG	SIN	T6	CN	F	1.2	30	90		0.3	60	45	8	<1	1.1	.8			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	50	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			P	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	RP	P	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	120	0	5	0.6	60	40	0	2	0.7	1.0		30k	3.7	2.8		
1N3S	TRI	DIO	T10	RF	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	<0.1	45	45	2	1	0.4	.4		350k	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		50k	7.1	4.0	60	
1P32B •	PND	SIN	T3B		F	1.2	215	200		30	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	T2		F	0.9	85				70		0	2		0.9	24		0.9	1.2			
1TS1S •	DIO	SIN	T10		F	0.7	185	15k			0.5	50		6					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						0.2				
1TS21P •	DIO	SIN	T7		H	1.4	690	25k	40		100		600μ						3.0		20k	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	<1.3							
1ZH17B •	PND	SIN	T3B	RF	F	1.2	60	90		5	0.5	60	40	0	2	0.3	1.5		80k	3.2	2.4		Pa2
1ZH18B •	PND	SIN	T3B	RF	F	1.2	24	90		<3	0.3	60	45	0	1	0.3	1.1		60k	3.2	2.4		Pa3
1ZH24B •	PND	SIN	T3B	RF	F	1.2	13	120		<2	0.1	60	45	0	1	0.1	0.9		40k	3.6	2.4		Pa2
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		5	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					50		
2A1	PTG	SIN		CN	H	2.0	160	160		0.7	120	70	4	2		0.4		150k	9.0	11.4		3A	
2D1L	DWD	SIN	F10		H	2.2	130				50			2								DW3	
2D1S •	DIO	SIN	T7		H	2.3	400	450		<1	<0.1	5		<1							3G	D12	
2D2S •	DIO	SIN	F27	N0	T	1.5	1500	200	40	5.0	125										3G		
2D3B •	DIO	SIN	T3F	N0	W	2.2	110	150		5	150									2.4			
2D3S	DIO	SIN	T3F		H	2.2	110				150												
2D7S •	DIO	SIN	PEN	N0	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		TES	
2E2	TET	SIN			F	1.8	320			1.5	160	80	2	7	4.0	1.3		300k	8.3	9.0		TES	
2E2P •	TET	DIO	T3	EL	F	2.0	55				6	3	4	45		22	1		4.0			TES	
2K1	PND					2.0	120	120			120	70	1	44	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	3.1		5Y	
2KH1L •	DWD	SIN	F10		H	2.2	130				50			2					2.2			DW3	
2N1	TRI	DIO			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	AF	F	1.2	120	100	15	1.1	90	90	<2	10	2.2	1.7		100k	5.5	4.0		7BA	
2P2	BEA	SIN			F	2.0	220			0.3	120	100	4	10	1.8	2.2		90k					
2P2P •	BEA	SIN	T6	AF	F	1.2	60	90	7	0.4	80	60	4	3	0.3	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	
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		6.0	250	150	5	35	1.5	2.5		40k	8.5	3.5		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	
2P26L •	PND	SIN	F10		F	2.2	120	200	20	2.0	160	120	6	10	2.0	2.0		50k	4.3	5.5		PS3	
2P29P •	PND	SIN	T5		F	2.3	110	200	5	1.0	120	45	0	<2	0.4	1.2		100k	4.9	2.0	120	PS6	

GROUP II - RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f V	I _f mA	MAXIMUM			TYPICAL							CAP.		f _{max} MHz	BASE NO.		
								E _b V	I _b mA	P _b W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	IN pF			OUT pF	
2S1		TRI	SIN		F	2.0	110	120		2.0	80		0	4		1.5	14	9k	3.0	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	70		1.8	65		2	10		2.7	48	28h	1.6	3.1		T30	
2S4S	*	TRI	SIN		PA	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		1.3	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	4	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	P	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		42M	4.5	2.0		PS4
2ZH28L		PND	SIN		F	2.2	28				1.0	120	45	0	2	0.5	1.2		42M	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		45		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						1.5		12k	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
3ZH18V	*	PND	SIN		H	3.2	400				1.2	120	120	48	4.4	4.8				4.8	4.3		
3ZH28V	*	PND	SIN		H	3.2	400				0.9	120	120	46	4.6	3.8				4.9	4.1		PS5
EM4	*	TRI	SIN	T6	EL	F	1.3	24	10	500μ		8		3	300μ		4.1	2		3.5			
4D5S	*	DIO	SIN	T4	H	4.0	210				0.4	10			30								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		1.8	350		8.0	6.3		TE5
4E2		TET	SIN		F	4.0	150	200			2.0	160	80	0	48		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	DIO		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	330	250		50	7.5	150	150	3	60	7.0	6.5		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	42k	1200														
4ZH1L	*	PND	SIN	F10	H	4.2	225	250		11	2.0	150	75	0	7	0.9	1.5		1M	3.7	4.0	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	43	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		40.1	1		1.6			T2E
GP=5	*	TRI	SIN	T15	TV	H	6.3	210	30k	2				7	42		0.6			1.5	4.0		T4S
5TS3S	*	DWD	SIN	S16	F	5.0	3000	17h	750			75		225									DW1
5TS4M	*	DIO	DIO	T11	H	5.0	2000	15h	415			400		133									DW4
5TS4S	*	DIO	DIO	T10	H	5.0	2000	13h	375			500		300									DW4
5TS8S	*	DWD	SIN	T17	H	5.0	5000	17h	1200	30.0		500		300									DW2
5TS9S	*	DWD	SIN	F13	H	5.0	3000	17h	600	12.0		500		180									DW2
5TS12P	*	DWD	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		40.1	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	42	3	1.0	.3		100k	3.1	9.2		7CH
6A3P	*	GTB	SIN	T6	CN	H	6.3	300	150	20	1.2	75	75	4	5	7.0	1.2			4.7	4.0		7DF

GROUP II- RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f	I _f	MAXIMUM			TYPICAL								CAP.		f _{max}	BASE NO.
								E _b	I _b	P _b	E _b	E _{g2}	E _{g1}	I _b	I _{g2}	S _m	μ	R _p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
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	300	15	1.0	250	250	0	4	2.7	.5	360k	4.0	9.0		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	*	D10	PND	T7		H	6.3	400	200		0.8	150		15					6.2	4.0		PSS
6B1P	*	PND	D10	T7		H	6.3	400	550	20	4.5	250	250	2	26	2.7	29.0		9.0	4.0		PSS
6B2P	*	PND	D10	T7	RF	H	6.3	300			2.1	250	100	1	6	1.6	2.7	700k	4.2	4.1		PSS
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	*	D10	SIN	LIT		H	6.3	770	200	150		7		27							3G	DS2
6D4ZH	*	D10	SIN	AC0		H	6.3	150	365	30		165		5					1.9			4G
6D6A	*	D10	SIN	T2F		H	6.3	150	450	70	0.2	165		8					3.0		700	5G
6D8D	*	D10	SIN	PEN		H	6.3	450	450		0.1	150		14								
6D10D	*	D10	SIN	PEN		H	6.3	750	100	30	0.5	100		8					3.5			
6D13D	*	D10	SIN	PEN		H	6.3	210	450		1.0	150		150μ					0.8		48n	
6D14P	*	D10	SIN	T22		H	6.3	1100	56h	600	4.5	20		175					10.0			9CB
6D15D	*	D10	SIN	LIT		H	6.3	330	200	750	0.5								1.2			
6D16D	*	D10	SIN	LIT		H	6.3	240	450	2000	1.0	100		14					2.0		3G	DS9
6D20P	*	D10	SIN	T7		H	6.3	1800	6k	600	5.0			250					9.0		9BD	
6D22S	*	D10	SIN	T10	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	T7	RF	H	6.3	600			8.4	150	150	1	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	
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		H	6.3	130	250	20	2.2	125	50	1	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	170	170	2	10	4.0	6.2	400k	5.5	3.4		9AE
6F3P	*	TRI	PND	T7		H	6.3	850	600	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		1	5		7.0	70	10k	3.5	0.3	PT6
6F5P	*	PND	TRI	T7		H	6.3	900	300		9.0	185	185	12	41	2.7	7.5		23k	11.7	8.8	PT6
6F5S	*	TRI	SIN	T5		H	6.3	325			1.3	250		2	12		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	2.6	2.7	8Q
6G2	*	TRI	DWD	M10		H	6.3	300	300		0.9	250		2	1		1.1	100	91k	2.8	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	4	6.5	.8	1M	5.1	7.4		9CA
6I1P	*	T21	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	17		2.7	20		2.6	2.0	9CA
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	T3F		H	6.3	200	150	15	1.2	120	120	2	8	4.0	4.8		5.1	3.8		P29
6K1L	*	PND	SIN	F11		H	6.3	150			1.0	150	75	2	3	0.9	1.3	700k	3.8	4.2		P51
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	10	3.7	4.4	800k	6.0	5.5		79D
6K6A	*	PND	SIN	T2B		H	6.3	127	150	15	1.3	120	100		9	5.5	4.5		3.6	3.3		P22
6K7	*	PND	SIN	M10		H	6.3	300	330		3.0	250	100	3	7	1.7	1.5	830k	6.6	9.8		7R
6K8B	*	PND	SIN	T6		H	6.3	300	30	15	0.5	25	12		14	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		5CC
6K9S	*	PND	SIN	M10		H	6.3	300	330		4.4	250	100	3	9	2.5	2.0	800k	4.8	11.0		7E
6K11B-K	*	PND	SIN	T3B		H	6.3	200	150	15	1.2	120	120		3	4.0	4.8		3.9	2.3		P29

GROUP II - RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f V	I _f mA	MAXIMUM			TYPICAL										CAP.		f _{max} MHz	BASE NO.
								E _b V	I _b mA	P _b W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF				
6K13P *	PND	SIN	T7		H	6.3	300	250	20	2.5	200	90	42	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		
6K15B *	PND	SIN	T3B		H	6.3	400				100	100	1	8	2.5				8.0	5.5				
6K16B *	PND	SIN	T3B		H	6.3	400				100	100	4	15	5.0				7.5	5.5				
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 *	EPT	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	1k	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	DUG	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	1.7	1.5	8BD		
6N10S	TRI	DUG	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	4.2	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			4	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			2	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	T3B		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	200			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		3.9	3.2	9DD		
6N25G *	TET	TWN	T4B		H	6.3	350	200	30	1.2	75			1	10		1.5	18		1.1	0.7	T20		
6N26P *	TRI	TWN	T6		H	6.3	600	250	30	2.6	150			42	14		9.5	48	5k	4.0	2.2	8CJ		
6N27P *	TRI	TWN	T6		H	6.3	330	30	20	0.6	13			3	3		4.9	15		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			H	6.3	450				120	120	5	35	12.0	8.0						6CC		
6P3S *	BEA	SIN	T12		F	6.3	900	400	90	20.0	250	250	14	72	8.0	8.0		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	S16		H	6.3	900	6k	100	20.0	250	250	14	72	8.0	5.9		32k	11.5	6.0		PS7		
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	9.3	5.8		8Y		
6P9E	BEA	SIN	M10	PA	H	6.3	650	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	18.5	6.5		5BT		
6P14P *	BEA	SIN	T6	AF	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	TV	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	AF	H	6.3	760	25h	75	12.0	170	170	6	53	8.0	11.0		25k	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		
6P23P *	BEA	SIN	T6	RF	H	6.3	750			11.0	300	200	16	40	5.0	4.5			7.5	4.5		P44		
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			7.5	8.5		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	5.3	120	120		35	2.0	4.5			12.0	4.2		P22		
6P31S *	BEA	SIN	T11	TV	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		d	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	TV	H</																			

GROUP II - RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f V	I _f mA	MAXIMUM			TYPICAL							CAP.		f _{max} MHz	BASE NO.		
								E _b V	I _b mA	P _b W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	IN pF			OUT pF	
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	DUG			H	6.3	600			6.5	200	200	16	20	2.0	2.5			4.5	2.0		PD7	
6R3S	BEA	DUG			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	
6S12H	TRI	SIN	AC6		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	T6		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				SS	
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	T3P		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	15		4.0	65	16k	3.3	3.4			
6S8S	TRI	SIN	T10		H	6.3	300	500	500	3.6	300		10	11		3.0	20	6700	2.2	0.6		TSE	
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	30h		
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		7	95		7.5	4	500	6.5	2.5		TS7	
6S20S *	TRI	SIN	T13		H	6.3	200	25k	12	25.0	25k		8	1		1.2	2k	10k	2.5	0.7		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			15		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	T20		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		1	8		4.6	25		2.0	2.3	480	T29	
6S35A-V	TRI	SIN	T2B		H	6.3	127	300	7	0.9	200		1	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	2000	4.5	80		12	40		16.5	13	800k	6.0	4.7		T27	
6S39S	TRI	SIN	T20 VR		H	6.3	200	30k	13	75.0	30k		45	13		1.2	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	
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		1	11		13.0	75		4.8	0.1	800		
6S56P *	TRI	SIN			H	6.3	1000			11.0	110		7	11		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		T25	
6S59P *	TRI	SIN			H	6.3	300			5.7	150			27		36.0	62	17h	12.3	2.5		TS4	
6S62N *	TRI	SIN	NUV		H	6.3	130	250	15	1.2	120			11		1.7	90	53k	2.7	2.4		T32	
6SK7	TRI	PND			H	6.3	300			100			3	3		1.5	8		2.5	3.0			
6SK7	PND	TRI			H	6.3	300			250	100		3	5		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			12									

GROUP II - RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f	I _f	MAXIMUM			TYPICAL								CAP.		f _{max}	BASE NO.
								E _b	I _b	P _b	E _b	E _{g2}	E _{g1}	I _b	I _{g2}	S _m	μ	R _p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
6TS17S*	D10	SIN	T10		H	6.3	1800	4k	1200	8.0				200					11.0			DS8
6TS19P*	D10	SIN	T7		H	6.3	1100	4.5H	450		700			120					8.0			98D
6V1P*	PND	SIN	T6	SM	H	6.3	400	550		4.5	250	250	2	26	2.7	29.0			9.0	4.6		PSS
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	T7	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	12		1.4			3.0	7.0		ID3
6YE3P*	TRI	SIN	T6	ID	H	6.3	230	300	3	0.5	230		0	11								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		18	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	78D
6ZH1ZH*	PND	SIN	AC9		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	16	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	1.0	120	120	1	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	12	7	2.0	5.0		800k	6.5	1.5		78D
6ZH4*	PND	SIN	M10		H	6.3	450	330		3.3	300	150	12	10	2.2	9.0		900k	8.5	4.8		8N
6ZH4E	PND	SIN	M10		H	6.3	450	330		2.5	300	150	0	9	2.2	8.5						8N
6ZH4P*	PND	SIN	T6		H	6.3	300	300	20	3.5	250	150	1	11	4.3	5.7		200k	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	RP	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	130	12	25	5.0	23.0		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		4.0	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	6.0	15.0		36k	14.0	3.5		PD3
6ZH31BK	PND	SIN	T3F		H	6.3	200	150	14	1.3	120	120		18	3.5	5.0			4.8	3.8		
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	0.3		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	T3F		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	300	20	3.0	150	100	1	12	1.0	10.6		280k	5.8	3.1		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	3.3			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	16	1.5	5.4			6.1	2.1		P26
6ZH46BV	PND	SIN	T3B		H	6.3	125	150	10	0.5	50	50	1	16	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		13H	12.0	2.8		P33
6ZH51P*	PND	SIN			H	6.3	300				200	200		19	3.5	15.5			11.5	3.3		P20
6ZH52P*	PND	SIN	T7		H	6.3	330	350	60	10.0	150	150	1	40	8.0	55			13.5	1.8		9EQ
6ZH53P*	PND	SIN	T6		H	6.3	160	300	22	3.5	150	150	1	13	2.2	20			6.6	1.7		78D
EM7*	TRI	SIN	T3B	EL	F	1.0	18	8		7			2	200μ		10.1	12		1.6	1.9		
7P12S*	PND	SIN	S12	AF	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		13	2	1.3	0.8	30		4.5	3.5		P39
EM=9	TET	T9N	T4B	EL	H	6.3	100			7			2	250μ		0.1						
10P12S*	PND	SIN	S12		H	10.0	640	200	60	8.0	135	135	15	31	7.0	2.9		20M	7.7	9.7		5F
10ZH1L*	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	13	0.5	1.6		1M	3.4	3.6	200	PS1
10ZH3L*	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	13	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	.3		150k				PD6
12G1	TRI	DWD			H	12.6	150	275		2.7	250		9	9		1.9	16	5500	3.6	2.8		8Q

GROUP II - RECEIVING TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f V	I _f mA	MAXIMUM			TYPICAL								CAP.		f _{max} MHz	BASE NO.
								E _b V	I _b mA	P _b W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	g _m mmho	μ	R _p Ω	IN pF	OUT pF		
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	12	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
12K4	*	PND SIN	T10	RF	H	12.6	150			3.3	250	125	1	12	4.4	4.7			8.5	7.0		8BK
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	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	11h	TS3
12S42S	*	TRI SIN	T30		H	12.6	4900			11.2	120		16	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	2	0.5	1.6		1M	4.0	4.2	200	PS1
12ZH1M		PND SIN			H	12.5	225				25	25	12	2	0.5	1.4		200k				7R
12ZH3L	*	PND SIN	F10		H	12.6	75	250	11	2.0	150	75	2	2	0.5	1.6		1300	4.0	4.2		PS1
12ZH8		PND SIN	M10		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	110		6.0	110	80	2	52		7.5			15.5	10.5		
13ZH41S	*	PND SIN	T9		H	13.3	290				80	80	2	2	0.5	4.1			11.0	3.0		P27
15A6S		PND SIN			H	15.0	300				180	135		48		2.5		30k				
16F3P	*	PND TRI			H	16.0	300	25h	60	8.0	275											PT5
16F3P	*	TRI PND			H	16.0	300	600	15	1.0	250											PT5
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			H	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				
SB=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				
SB=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				
UB=141		TRI SIN	S17		F	2.6	1000				220		3	14		2.6						4F
UB=142		TRI SIN	S17		F	2.6	1000				220		7	23		2.5						4F
UB=148		PND SIN			H	4.0	1A				240	80	2	7	1.0	1.6		200k				
UB=152		TRI SIN			F	2.0	120				100		12	15		1.5	14	10k				
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				
UB=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		11	2		1.1	33	30k				
UB=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				
UB=186		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
SB=242		PTG SIN	S9	CN	H	2.0	160	300	14	1.0	120	70	0	3	.2	.1			7.0	8.6		7Z
SB=243		TRI TWN			F	2.0	240			1.5	120			3		2.1	32	16k	2.8	3.4		7AB
SB=244		PND SIN			F	2.0	185			1.5	120			4		1.8	270	150k	55.0	7.0		5X
SB=257		PND SIN	S10		F	2.0	300				200	100	7	18		1.3						P19
SB=258		PND SIN			F	1.3	320			1.3	160	120	6	2		2.0	160	80k	5.4	7.5		6X
UB=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	3.0	6.0			11.0	0.7		
1550		DWD SIN			H	6.3	600	1k	300		350			37								DW6

GROUP III- POWER TUBES

TYPE NO.	KIND	TYPE	BULE	USE	K	E _f	I _f	MAXIMUM			TYPICAL								CAP.		f _{max}	BASE NO.
								E _b	I _b	P _b	E _b	E _{g2}	E _{g1}	I _b	I _{g2}	S _m	μ	R _p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
GE-1		TBT	SIN		F	11.0	2A			80.0	15h	250		100		2.5			15.5	10.0	20	
GK-1A		TRI	SIN	W46	W	31.5	580A	10k	30A	2h.k	8k					80.0	45		2h	1h	22	
GM-1A	*	TRI	SIN	W27	MD	10.5	195A	6k		30.k						27.0	4					
GM-1P	*	TRI	SIN	V27	MD	10.5	195A	6k		30.k						27.0	4		50.0	6.5		
GMI-1B		TRI	SIN			9.0	26A			h3.2	22k					5.0						
GS-1B	*	TRI	SIN	C20	OS	12.6	3200	3k		k1.0			9	250		30.0			21.5	0.1	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	A50	MD	25.0	18A		110A	h9.0	32h	2h	600	140	45.0				40.0	6.0		
GS-2B		TRI	SIN	W22		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
GK-3A		TRI	SIN	W43	W	17.0	430A	12k	50A	1h.k	5k			6A		35.0	40		1h	65.0	25	
GM-3A	*	TRI	SIN	W22	MD	6.3	150A	6k		k7.5	3h		0	8A		22.0	9		36.0	6.0		
GM-3B	*	TRI	SIN	A22	MD	6.3	150A	6k		k7.5	3h		0	8A		22.0	9		36.0	6.0		
GM-3P		TRI	SIN	V																		
GMI-3		TET	SIN	T32	H	26.0	4750	28k	4500	80.0												
GS-3B	*	TET	SIN	C24	PA	26.0	3500	21h	1600	k2.0		500	20			40.0	10		30.0	0.1		
GU-3		BEA	SIN	S18	H	12.6	450	750	120	30.0	250	250				10.0					60	
GI-4A	*	TRI	SIN	W29	PA	10.0	215A	35h		20.h						38.0	40		4.5	1.5	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	
GS-4B	*	TRI	SIN	C6	OS	6.3	470	350		65	15.0		2	20		18.0			3.0	0.1		
GS-4D		TRI	SIN			22.0	105A			10.k	15k					12.0	50					
GU-4	*	TRI	SIN	T14	OS	7.0	1800			35.0				60		1.4	13				9G	
GU-4A	*	TRI	SIN	W49	OS	8.3	145A	6k	30A	20.k	3k					30.0	59		40.0	1.0	100	
GI-5B	*	TRI	SIN	A42	OS	6.3	420A	27h		6.h				1150		25.0	35		90.0	11.0	200	
GK-5A	*	TRI	SIN	W44	OS	17.0	575A	10k		2h.k						90.0	40		h2.2	5.0	25	
GMI-5		TET	SIN		H	26.0	1750	20k	12A													
GP-5	*	TRI	SIN	T15	VR	6.3	210	30k		2	37.5		8			0.7	25h		4.0	1.5		
GU-5A	*	TRI	SIN	W14	OS	12.6	24A	4k	7A	k3.5	3k			600		15.0	73		19.0	0.5	110	
GU-5B	*	TRI	SIN	A14	OS	12.6	24A	4k		k2.5	3k			600		15.0	70		19.0	0.5	110	
GI-6A	*	TRI	SIN	C12	OS	12.6	1925	25k	400	k3.5						22.0	20		11.4	0.3	2G	
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												
GS-6		TRI	SIN			17.0	8500			5.h	3k					3.5	95					
GS-6B	*	TRI	SIN	C7	OS	6.3	730	450		28.0			3			22.0	65		4.5	0.1		
GI-7B	*	TRI	SIN	C12	OS	12.6	1925	25h	7500	h3.5			10	400		23.0	50		11.1	0.8	3G	
GI-7BT	*	TRI	SIN	C12	OS	12.6	1925	25h	7500	h3.5			10	400		23.0	70		11.1	0.8	3G	
GMI-7		TET	SIN	T40	H	26.0	6300	22k	52A	h1.2												
GS-7A		TRI	SIN	W22	H	12.6	3100	43k		2.k	2k		1	400		30.5					1G	
GS-7B	*	TRI	SIN	C22	OS	12.6	3100	6k	1400	k1.5	25h		9			30.0	100		21.0	0.1	1k	
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		15.0			8.0	5.0	2k	
GU-8		TRI	SIN			5.0	6500			3k						5.5			3.0	2.0		
GK-9B	*	TRI	SIN	A36	OS	8.3	135A	12k		18.k						50.0	28		80.0	2.0	2	
GK-9P		TRI	SIN	V						30.k												
GS-9B	*	TRI	SIN	C12	OS	12.6	1100	25h	700	h3.0			4			19.5			8.4	0.1	2	
G-10		TRI	SIN			4.1	900			20.0	400			25		.6	19	35k				
GK-10P		TRI	SIN	V						2h.k												2
GMI-10	*	TET	SIN	T20	MD	6.3	5250	9h		41.0												I7E
GU-10A	*	TRI	SIN	W22	OS	7.0	75A	8k		10.k						20.0	48		40.0	1.5	26	
GU-10B	*	TRI	SIN	A22	OS	7.0	75A	8k		10.k						20.0	50		40.0	1.5	26	
MO-10		TRI	SIN			16.5	52A		10A	10.k	10k					7.0	18					
GI-11B	*	TRI	SIN	C9	OS	12.6	815	800	150	80.0						10.0	75		11.0	0.2	3G	
GK-11A	*	TET	SIN		F	22.0	340A	15k													30	
GU-11A		TRI	SIN	W27	W	12.7	240A	10k	20A	20.k	5k			3A		20.0	55		55.0	45.0	25	
GU-11B		TRI	SIN	C8	H	12.6	815	2k	1A	80.0	400			15		10.0			11.0	2.6	3G	
GI-12B	*	TRI	SIN	C9	OS	12.6	815	800	150	80.0						10.0	75		11.0	0.1	3G	
GU-12A		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	
GI-13BM	*	TRI	SIN	C8	OS	12.6	650	900	3500	80.0				50		10.0			10.7	0.2	3G	
GM-13		TET	SIN	T34	H	26.0	4750	28k	45A	80.0	28k											
GU-13		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	C22	OS	12.6	3450	21h	15A	k5.0						32.0			20.0	0.1	500	
GS-14	*	TRI	SIN	C7	OS	6.3	730	450	100	28.0						20.0			4.3	0.1		
GS-15B		TET	SIN	C12	H	6.3	2300			h1.5	13h	300		240		16.0			7.0	2.0	3G	
GU-15		BEA	SIN	F12	F	4.4	680	400	85	15.0	220	200	14	50	7.5	4.7			10.5	12.5	60	P55

GROUP III - POWER TUBES

TYPE NO.	KIND	TYPE	BULB	E _s	K	E _f	I _f	MAXIMUM			TYPICAL								CAP.		f _{max}	BASE NO.
								E _b	I _b	P _b	E _b	E _{g2}	E _{g1}	I _b	I _{g2}	S _m	μ	R _p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
GI-16B		TET SIN	A60		W	8.3	115A	8k		h8.0												
GU-16B		TRI SIN	A23		W	13.5	200A	8k	15A	10.k	5k			1500		23.0	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	C12	OS	H	6.3	7500	9k	5A	k1.5						12.0	10		11.5	2.0	500	
GS-17B	*	TET SIN			H	3.4	160A	55h													1G	
GU-17	*	TET TWN	T7	OS	H	6.3	800	400	100	12.0	200	200	16	20	6.0	2.5			6.5	2.7	230	T4E
GI-18B		TRI SIN	A50		T	12.5	190A	16k	150A	6.k	10k			1A		25.0	45		75.0	50.0	41	
GU-18	*	TET TWN	T13	OS	H	6.3	1250	600		27.0	250	200	16	45		1.8			7.0	2.6	600	T5E
GI-19B	*	TRI SIN	A30	OS	H	7.3	20A	14k		k1.0						27.0			51.0	10.5	300	
GU-19	*	TET TWN	T13	OS	H	6.3	2000	750		40.0	350	250	100	47	10.0	4.0			10.0	3.5	500	T5E
GE-20		TRI SIN				5.6	850		200	20.0	750					1.7	53					
MG-20		TRI SIN				22.0	61A		10A	20.k	10k					7.0	13					
GI-21B	*	TRI SIN	C9	OS	H	12.6	880	5k	4500	h1.1			0			28.5	75		12.3	0.1	3G	
GU-21B	*	TRI SIN	A24	OS	T	8.3	150A	9k		10.k						30.0	48		55.0	1.5	26	
GI-22	*	TRI SIN	C6	OS	H	6.3	570	2k	2000	10.0			2			18.0			3.0	0.1	6G	
GU-22A	*	TRI SIN	W29	OS	T	8.3	150A	10k		20.k						31.5	50		53.0	1.5	26	
GS-23B	*	TET SIN			H	6.3	5700	25h													1G	
GU-23A	*	TRI SIN	W44	OS	T	12.0	210A	11k		60.k				3650		48.0	48		h1.0	3.0	26	
GU-23B	*	TRI SIN	A44	OS	T	12.0	210A	12k		50.k				3500		48.0	50		h1.0	3.0	26	
GI-24A		TRI SIN	W30		W	6.3	425A	27k	250A	25.k	4k			150A		40.0					200	
GU-24A						3.3	42kA	6k		25.k											273	
GI-25	*	TRI SIN	C8	OS	H	6.3	950	3k	2800	12.0			2			24.0	70		4.5	0.1	6G	
GU-25B		TRI SIN	W30		T	8.3	150A	12k		12.k						30.0	48				26	
GU-26A		TRI SIN	W		H	30.0	17A	6k		10.k						20.0					330	
GU-26B		TRI SIN			T	12.0	210A	12k	60A	50.k												
GU-27A	*	TET SIN	W14	OS	T	7.5	25A	4k		k2.0				275	2.0	7.0	17		25.0	17.0	110	
GU-27B		TET SIN	A24		T	7.5	25A	3k	5A	8.h	3k	1k		300		6.0	16		21.0	13.0	110	
GU-27B-1	*	TET SIN	A14	OS	T	7.5	25A	3k		k8.0				275	2.0	7.0	17		25.0	17.0	110	
GU-28A		TET SIN	W20		T	6.3	98A	10k	98A	8.k	3k	850				16.0	9				24	
GU-28B		TET SIN	A		T	6.3	98A	10k		10.k	3k	2k				16.0					30	
M-28		TRI SIN				11.0	6400			h1.5	1k			375		2.4	11	45k				
G-29		TRI SIN				16.0	10A		1200	4.h	10k			1200		3.2	250					
GU-29	*	TET TWN	T20	OS	H	6.3	2300	750		40.0									15.0	7.0		T6E
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		
GU-30A	*	TRI SIN	W33	OS	T	10.5	220A	75h		60.k						43.0	28		80.0	2.0	100	
GU-31		TET SIN				6.3					450	200										
G-32		TRI SIN				3.2	3500			15.0	800			60		.8	18	22k		2.4		
GU-32	*	TET TWN	T17	OS	H	6.3	1600			15.0	500	250		30	5.5				7.8	3.8	300	T6E
GU-33B	*	TET SIN	A11	OS	H	6.3	5150	15h		h1.5						26.0	13		39.0	8.5	500	
GU-34B	*	TET SIN	A26	OS	H	12.6	3650	4k		h5.0			13			28.0	19		68.0	9.0	250	
GU-35B	*	TET SIN	A10	OS	T	6.3	38A	5k		k3.5						24.0	11		56.0	14.0	250	
G-36		TRI SIN				5.6	860			20.0	600			200		1.8	60	35k				
GU-36B	*	TET SIN	A13	OS	T	8.3	140A	8k		14.k						83.0	10				250	
GU-37B	*	TRI SIN	A14	OS	T	3.4	110A	3k		k3.5						23.0	35		34.0	0.6	330	
GU-39A	*	TET SIN	W22	OS	T	6.3	95A	10k		k8.0						22.0	9		76.0	26.0	100	
GU-39B	*	TET SIN	A22	OS	T	6.3	95A	10k		k6.0						22.0	9		76.0	26.0	100	
GU-39P		TET SIN	V							15.k											30	
M-39		TRI SIN				11.0	3500			30.0	1k			200		1.4	10	7k				
GU-40B	*	TET SIN	A10	OS	T	6.3	33A	5k		k2.0						17.0	11		33.0	14.0	250	
GU-43A	*	TET SIN	W17	OS	H	12.6	6600	33h		k1.0						45.0			90.0	14.0	100	
GU-43B	*	TET SIN	A17	OS	H	12.6	6600	33h		k1.0						45.0			90.0	14.0	100	
GU-43A	*	TRI SIN	W34	OS	T	7.5	150A	10k		20.k						24.0	22		41.0	3.0	50	
G-46		TRI SIN				11.0	4100		250	80.0	1k					2.0	55				250	
G-47		TRI SIN				11.5	3800		215	h1.5	3k					1.4	70					
GU-48	*	TRI SIN	T38	OS	T	10.0	10A	3k		h3.0	25k		50	130			35		13.0	11.0	75	
GU-50	*	PND SIN	F13	OS	H	12.6	725	1k		40.0	800	250	37		7.0	4.2			14.0	10.3	100	P95
M-50		TRI SIN				11.0	6300		270	50.0	1k					1.4	10					
GM-51A		TRI SIN	W19		W	22.0	102A	12k	10A	15.k	5k				2A	10.0	.7				12	
M-53		TRI SIN				11.0	6300			h1.5	3k			375		1.4	11	7k				
GU-56	*	TRI SIN	A23	OS	T	6.3	24A	35h		h7.0						8.0	1E		30.0	0.8	45	
GM-57		TRI SIN				4.0	2100				750					3.0	9		8.5	3.5		
M-57		TRI SIN				16.0	10A			4.h	10k			1200		2.9	52	18k				
GU-59A	*	TRI SIN	W23	OS	T	5.0	67A	5k		k6.0						16.0	15		50.0	25.0	155	
GM-60		TRI SIN	T32		W	17.0	8A	10k	550	5.h	1k			100	2.2	1.6						
G-61		TRI SIN				16.5	52A		11A	10.k							47					
GU-61B	*	TET SIN	A42	OS	T	8.3	130A	10k		20.k				10A	h7.0	70.0	8		h3.2	38.0	70	
GU-61P	*	TET SIN	V42	OS	T	8.3	130A	10k		20.k				10A	h7.0	74.0			h3.2	40.0	70	
G-62		TRI SIN				16.5	51A			10.k				10A		7.0	47	7k				
GU-62A	*	TRI SIN	W32	OS	T	12.0	120A	10k		40.k						60.0	23		80.0	2.8	95	

GROUP III - POWER TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f V	I _f mA	MAXIMUM			TYPICAL										CAP.		f _{max} MHz	BASE NO.
								E _b V	I _b mA	P _b W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmha	μ	R _p Ω	IN pF	OUT pF				
GU-62P		TRI	SIN	V						60.k													85	
G-65		TRI	SIN			5.2	1300			12.0				60		1.0	60	60k						
GU-65A	*	TRI	SIN	W63	OS	T 26.0	670A	12k		3 50.k						.5 00.0	46	5 00.0	7.5	30				
GU-66B	*	TRI	SIN	A48	OS	T 13.5	225A	10k		35.k						.1 10.0	46	1 60.0	3.0	30				
GU-66P	*	TRI	SIN	V48	OS	T 13.5	225A	10k		60.k						.1 10.0	46	1 60.0	3.0	30				
G-68		TRI	SIN			17.0	18A			1.k 10k				2A		5.0 180	36k							
GU-68A	*	TRI	SIN	W	OS	T 20.0	315A	12k		1 30.k						.1 30.0	34	3 00.0	6.0	30				
GU-68B	*	TRI	SIN	A	OS	T 20.0	315A	12k		70.k						.1 30.0	34	3 00.0	6.0	30				
GU-68P	*	TRI	SIN	V	OS	T 20.0	315A	12k		1 30.k						.1 30.0	34	3 00.0	6.0	30				
GI-70B	*	TRI	SIN	C12	OS	H 12.6	1925	25h	7500	h3.5			10	400		23.0	50		11.1	0.8	3G			
GI-70BT	*	TRI	SIN	C12	OS	H 12.6	1925	25h	7500	h3.5			10	400		23.0	70		11.1	0.8	3G			
GM-70	*	TRI	SIN	T32	MD	T 20.0	3100	16h		1 25.0			175	20		5.9	6		6.5	4.5				
GM-70B		TRI	SIN	T21	T	20.0	3A	1k	800	1.h	600			200		6.0	7		8.0	12.0	IF			
GU-70B	*	TET	SIN		H	6.0	3100	2k													250			
GK-71		PND	SIN	T21	T	20.0	3A	1k		h1.2	600	400		200	62.0	4.2			18.0	17.0	20	P12		
GU-71B	*	PND	SIN		H	12.6	6100	1k													75			
GU-72	*	PND	SIN	T25	T	20.0	3A	1k	900	h1.5	750	400		150		4.2			18.0	17.0	40	P14		
GU-73B	*	TET	SIN		H	26.0	4850	300													250			
GU-74B	*	TET	SIN		H	12.6	3600	1k													6			
M-74		TRI	SIN							450						.1	63							
GU-75A	*	TET	SIN		F	6.3	135A	6k													75			
GI-76B		TRI	SIN	C		12.6	2100	9k			1k			150		22.0			11.3		3G			
GU-80	*	PND	SIN	T36	OS	T 12.6	11A	3k		h4.5				600	h2.2	5.5	31		28.5	0.1	50	P6S		
M-80		TRI	SIN			11.0	3500		260	80.0	1k					1.4	10							
GU-81	*	PND	SIN	T40	OS	T 12.6	11A	3k		h4.5				600	h2.0	5.5	31		28.5	0.1	50			
GMI-83		TET	SIN	T20	H	25.0	2000	20k	15A	65.0	15k	1k							50.0	5.0				
GMI-83B	*	TET	SIN	T22	MD	H 25.0	2250	18k	25A	60.0									42.5	8.0				
G-88		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				
GU-89A		TRI	SIN	W24	W	11.0	124A	8k	9A	5.k	1k			3A		10.0	20		23.3	17.5	100			
GU-89B		TRI	SIN	A24	W	11.0	124A	8k	9A	5.k	1k			3A		10.0	20		23.3	17.5	100			
M-89		TRI	SIN			11.0	6300			h4.5	1k					5.0	9	1800						
GMI-90	*	TET	SIN	T48	MD	H 25.0	7200	33k		h1.4	33k	17h	600						1	50.0	35.0			
GS-90B		TRI	SIN	C12	H	12.6	1100	2k	4500	15.0	1k			175		19.5					3G			
G-91		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		
GM-100	*	TRI	SIN	G69	MD	W 17.0	18A	5h		h1.0						6.5	18	3	50.0	h1.2				
G-120		TRI	SIN			16.5	52A		11A	5.k	4k			700			14							
GI-130M	*	TRI	SIN	C8	OS	H 12.6	650	900	3500	20.0				50		10.0			10.7	0.2	3G			
GI-150		TRI	SIN	C8	H	12.6	815	800	45A	20.0	400			15		10.0					4G			
GKE150		TET	SIN		H	11.0	6300		420	1.h	3k	500				2.0	350					TE4		
GU-150		TRI	SIN			11.0	10A		710	h1.5	2k					2.2	17				85			
M-150		TRI	SIN			11.0	6300		420	h1.5	3k					1.4	11							
GI-210	*	TRI	SIN	C8	OS	H 12.6	880	800	4500	h1.1				100		28.5			12.3	0.1	3G			
G-256		TRI	SIN							30.0	450										500			
GKE300		TET	SIN		H	17.0	10A		750	4.h	3k	500				3.9	400							
M-400		TRI	SIN			17.0	18A		2300	4.h	1k					6.0	10							
M-401		TRI	SIN			16.0	10A		1200	4.h	10k					2.9	52							
G-410		TRI	SIN			10.0	450			10.0	400					4.0	23		2.9	2.7				
G-411	*	PND	SIN	S18	OS	H 10.0	300	400		20.0			21	120		5.5	48		9.5	7.5	50			
G-412		PND	SIN			20.0	220	750		20.0	750	250	40	57	11.0	3.0			6.5	6.0		P10		
G-413		PND	SIN			20.0	500	750		40.0	750	250	55	90	15.0	4.5			11.0	10.5		P10		
G-414		PND	SIN			20.0	1400	1k		1.h	1k	250	50	65	10.0	6.0			21.0	19.0		P13		
G-417		TRI	SIN			5.0	1150			20.0	400					1.0	19		1.9	1.0		TS9		
G-418		PND	SIN		F	5.0	900	400		20.0	400	225	50	85	20.0	4.0			12.5	10.0				
G-422		PND	SIN			20.0	3250	1k		1.h	750	300	60	180	40.0	3.0			15.5	15.5				
G-424		PND	SIN			20.0	4600	1k		2.h	1k	400	140	300	90.0	5.0			27.0	33.0				
G-425		PND	SIN			20.0	22A	4k		h7.5	4k	1k	100	350	70.0	4.0			21.0	18.0				
G-430		TRI	SIN			22.0	51A	12k		10.k							45							
G-431		TRI	SIN	W16	W	22.0	102A	15k		20.k	5k			3A		12.0	50		25.0	1.5	25			
G-431A		TRI	SIN	W		22.0	102A	15k	12A	20.k	5k			3A		12.0	50		25.0	1.5	25			
G-433	*	TRI	SIN	W32	OS	W 33.0	210A	40h	10A	60.h			0	3000		32.0	45		3.3	6.1	20			
G-433A		TRI	SIN			33.0	210A	15k	50A	60.k	6k			5A		32.0	45		80.0	6.0	20			
M-435		TRI	SIN			20.0	24A			1.k	5k					5.0	9							
G-441		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		
G-472		TRI	SIN			2.5	14A			1.h	k	19k				2.5	140							
G-484		TRI	SIN	A30	W	22.0	60A	9k		5.k	3k			A			9				23.0	320		

GROUP III - POWER TUBES

TYPE NO.	KIND	TYPE	BULB	USE	K	E _f V	I _f mA	MAXIMUM			TYPICAL							CAP.		f _{max} MHz	BASE NO.	
								E _b V	I _b mA	P _b W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	IN pF			OUT pF
GK2500	*	TET	SIN	G	OS	W	15.0	17A	6k		h6.0					3.0	300		22.0	11.0	20	
GK-750	*	TRI	SIN	G33	OS	T	5.0	11A	3k		h2.5						30		5.0	0.8	40	
M-800		TRI	SIN				17.0	8A		800	8.5	10k				2.2	16					
G-807		BEA	SIN	S16		H	6.3	900	750	120	30.0	600	275	90	100	6.5	6.0		12.0	7.0	60	SAW
G-811	*	TRI	SIN	S21	OS	H	6.3	4000	12k	125	40.0			26			160		5.5	0.6	15	
G-837		PND	SIN				12.6	700		200		500	200	85		30.0	3.4		16.0	10.0		
G-889		TRI	SIN				11.0	125A			5.5k	7k					21		23.3	3.0	100	
G-891		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		
G-1625		BEA	SIN				12.6	450		25.0	600					6.0			11.0	7.0		
GK2000		TRI	SIN				16.0	51A		1A	10.5k	8k				7.0						
GK3000	*	TRI	SIN	T70	OS	W	17.0	18A	10k		k1.0					5.4	200		13.0	2.2	20	
GI-3100		TRI	SIN				6.3	1100			10.0	2k				2.2	16		2.6	1.1	300	
G40011		TRI	SIN				15.0	70A			3.5	4k				4.0	150		5.3	1.2		

GROUP IV- RECTIFIER TUBES

TYPE NO.	KIND	TYPE	BULB	GAS	K	E _f	I _f	MAXIMUM		TYPICAL	
								E _b	I _b	E _b	I _b
						V	mA	V	mA	V	mA
EVU-25/1.0	IGN		T1H	HG	C			12h	400A		
EVU-50/1.0 *	TRI	IGN	W33	HG	C			12h	900A		50A
EVU-100/1.0	IGN		T2H	HG	C			12h	2kA		
GG-1-0.3/8	DIØ	SIN	T14	AR	H	6.3	4A	8k	1A	30	<1
GG1-0.5/5*	DIØ	SIN	S21	KX	F	2.5	8500	5k	1500		500
GG-1-0.5/20*	DIØ	SIN	T21	AR	H	6.3	5A	20k	3500	30	500
GG-1-1/22*	DIØ	SIN	T30	AR	H	6.3	14A	22k	3500	30	1000
GG-1-2/5 *	DIØ	SIN	T22	XE	H	6.3	6500	9k	6500	16	2000
GG-1-2/16*	DIØ	SIN	T30	XE	H	6.3	16A	16k	7A	30	2000
GR1-02/15	DIØ	SIN	S16	HG	F	5.0	3300	<2k	800		235
GR-1-0.3/8.5	DIØ	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
GRI-0.25/1.5	DWD	SIN	S17		F	5.0	3300	16h	800		235
I/1/25/0.8*TRI	IGN	W19	HG	C				800	30A		10A
I-1-50/20*TET	IGN	W47	HG	C				20k			50A
I-1-70/0.8*TRI	IGN	W25	HG	C				800			70A
I-1-100/1.5	TRI	IGN	W52	HG	C			15h	3hA		1hA
I-1-140/0.8*TRI	IGN	W34	HG	C				800			140A
I-1-350/0.8*TRI	IGN	W47	HG	C				800			350A
I-2-50/1.5*TRI	IGN	W34	HG	C				15h	150A		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	DIØ	IGN	W19	HG	C			15h	1kA		20A
I-50/1.5 *	TRI	IGN	W35	HG	C			15h	1hA		50A
I-50/1500	DIØ	IGN	W26	HG	C			15h	2kA		50A
I-100/1.0 *	TRI	IGN	W50	HG	C			1k	6hA		1hA
I-100/5.0 *	TRI	IGN	W70	HG	C			5k	3hA		1hA
I-100/1000	DIØ	IGN	W33	HG	C			1k	2kA		100A
I-100/5000	DIØ	IGN	W33	HG	C			5k	300A		100A
I-150/1.0 *	TRI	IGN	W52	HG	C			1k	1hA		2hA
I-200/1.5	TRI	IGN	W68	HG	C			15h	6hA		2hA
IVS200/2		IGN	W	HG	C			<3k	450A	16	150
T-409	DIØ	IGN	G14	HG	C			3k	200A		
T-410	DIØ	IGN	G17	HG	C			14k	20A		
T-411	DIØ	IGN	G17	HG	C			19k	100A		
V1-00313	DIØ	SIN	T10		F	2.5	4600	13k	3000		30
V1-02/20	DIØ	SIN	T13	VC	T	2.5	3000	20k	100		20
V1-03/13	DIØ	SIN	T9	VC	F	2.5	4650	13k	3A		30
V1-05/70	DIØ	SIN	T32	VC	F	5.0	32A	70k	8A		50
V1-06/30	DIØ	SIN						30k			60
V1-1/2.5	DIØ	SIN	W12	VC	F	15.0	12A	25h	1000		
V1-1/30	DIØ	SIN	T18	VC	W	5.0	5A	30k	600		100
V1-1/40	DIØ	SIN	T17	VC	T	5.0	6A	40k	750		100
V1-2/40	DIØ	SIN						40k			200
V1-3/16	DIØ	SIN	A27	VC	H	6.3	10A	16k	1500		300
V1-3/70	DIØ	SIN						70k			300
V1-4/40	DIØ	SIN	G70	VC		7.5	48A	44k	2A		450
V1-15/55	DIØ	SIN	T31	VC	F	6.3	7500	55k	700		180
V2-06/25*DIØ	SIN	T13	VC	H	5.0	3900	25k	5A			300
VG1/8500	DIØ	SIN		GS	F	2.5	5500	8k	1A	6k	300
VG-129	DIØ	SIN	S20	HG	F	2.5	9A	7k	1500		500
VG-161	DIØ	SIN		HG	F	2.5	6A	<3k	1A	<2k	300
VG-163	* DIØ	SIN	G70	HG	F	5.0	32A	15k	50A		16A
VG-176	DIØ	SIN	G16		M	2.5	11A	150	9A	20	
VG-236	* DIØ	SIN	G38	HG	F	2.5	20A	7k	4A		1300
VG-237	* DIØ	SIN	G55		F	5.0	22A	10k	10A		3500
VG-252	DIØ	SIN				2.5		300	30A	15	
VI-1-5/20	*DIØ	SIN	T13	VC	H	6.3	2900	20k	5000		150
VI-1-5/30	DIØ	SIN	A16	VC	W	6.3	95A	30k	2000		
VI-1-18/32*DIØ	SIN	A27	VC	H	17.0	3700	40k	20A			500
VI-1-27/35	DIØ	SIN	A40	VC	H	9.0	145A	35k	70A		
VI-1-30/25*DIØ	SIN	T22	VC	H	10.0	6A	32k	30A			30
VI-1-70/32*DIØ	SIN	A15	VC	H	12.6	5300	32k	70A			
VI-1-10050	DIØ	SIN						50k	100A		
VI-2-27/35	DIØ	SIN	W20	VC	H	9.0	145A	35k	70A		
VI-2-70/32	DIØ	SIN	A21	VC	H	12.6	5300	32k	70A		70
VI-2-100/50	DIØ	SIN	A30	VC	H	12.6	36A	50k	100A		

GROUP IV - RECTIFIER TUBES

TYPE NO.	KIND	TYPE	BULB	GAS	K	E _f	I _f	MAXIMUM		TYPICAL	
								E _b	I _b	E _b	I _b
						V	mA	V	mA	V	mA
V0-1	DI0	SIN			H	4.0	3200			850	40
V0-125	DI0	SIN			F	4.0	700			250	60
V0-188	DWD	SIN			F	4.0	2A			500	155
V0-196	DI0	SIN			H	4.0	3A			750	250
V0-197	DWD	SIN			F	4.0	5A			250	300
V0-202	DWD	SIN			F	4.0	700			250	60
V0-230	DI0	SIN			F	4.0	700			350	50
V0-239	DI0	SIN			F	4.0	2A			850	180
V0-360	DI0	SIN			F	4.0	1A			500	100
VU-111D	DI0	SIN S			F	4.0	1500	12k	400	160	80
2V6	DI0	ARC			HG	C		400	6A		
2V12	DI0	ARC			HG	C		1k	1A		
2V20	DI0	ARC			HG	C		750	20A		
2VN12	DI0	ARC			HG	C		450	12A		
2VN20	DI0	ARC			HG	C		750	20A		
3V30	DI0	ARC			HG	C		750	30A		
3VN30	DI0	ARC			HG	C		750	30A		
3VN60	DI0	ARC			HG	C		400	60A		
3VN100	DI0	ARC			HG	C		600	100A		
1502	DI0	SIN	F13		H	5.0	3000	42k	1200	500	400

GROUP IV-A-TWO ANODE DIODE MECHANOTRONS

TYPE NO.	KIND	TYPE	DISPLACE		FORCE		ANGLE		NON-LINEARITY
			RANGE μm	SENS. μA/μm	RANGE g	SENS. μA/g	RANGE deg	SENS. mA/°	
6MKH1B	* DI0	TWN	140	20	5B	2k			4
6MKH1S	* DI0	TWN	100	30	10	200			1
6MKH2B	* DI0	TWN	100	40	2	500			4
6MKH3S	* DI0	TWN	100	100	15	1k			1
6MKH4S	* DI0	TWN	500	10	30	100			1
6MKH5S	* DI0	TWN	1k	3	30	40			1
6MUKH6P							5	1	1

Group V - VOLTAGE REGULATOR TUBES

TYPE NO.	KIND	GAS		CATH. MAT.	VOLTAGES			MAX. ΔV OVER		CURRENT		DIMEN.	
		KIND	PRES. mm		K	MAX.	MIN.	ΔI	LIFE	MIN.	MAX.	DIA.	LTH.
					V	V	V	V	V	mA	mA	mm	mm
SG1P	* REG	ABE			175	155	143	3.5	5	30	5	22	65
SG1P-EV	* REG	ABE			175	155	143	2.5	4	30	5	22	65
SG2P	* REG	AKN			150		104			30	5	22	65
SG2S	* REG	NA	30		105	81	70	6	6.5	40	5	34	98
SG3P	* REG	ABE			170		144			40	5	22	65
SG3S	* REG	ABN	30		127	112	105	3.5	4	40	5	34	98
SG4S	* REG	ABE	30	NI	180	162	145	4	4.5	30	5	34	98
SG5B	* REG	ABE			170	155	142	4	7.5	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	ABN	55	NI	175	155	143	3.5	5	30	5	19	65
SG14P	REG	ABN			125		115			40	20	22	75
SG15P	REG	ABN	54	MO	150		104			30	5	19	55
SG15P1	REG				160		103			30	5	19	60
SG15P2	* REG				160	110	102	3	0.2	30	5	19	65
SG16P	* REG	ABE	40	MO	150	86	80	3	0.2	30	5	19	65
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	91	85	2.5	0.2	15	4	12	45
SG21B	* REG				160	109	101	2.5	0.2	15	4	11	40
SG201S	* REG	NK	50	MO	150	92	86	2.5	0.2	1.5	4	33	64
SG202B	* REG	NA	35	MO	135	86	81	4.5	0.2	5	1.5	10	40
SG203K	* REG				135	86	79	2	0.1	10	1	10	23
SG204K	* REG				220	168	160	4	0.3	15	1	10	30
SG205B	* REG				135	84	81	0.5	0.3	11	9	11	40
SG226	* REG	NE			95		70			40	8	50	130
SG227	* REG	NE			95		70			60	10	65	135
SG301S=1	* REG	HY			430	400	380	14	16			10	36
SG302S=1	* REG	HY			970	920	880	30	32			12	67
SG303S=1	* REG	HY			1320	1280	1220	30	32			12	67
SG304S	* REG	HY			4200	3800	240	240				22	128
SG305K	* REG				105h	95h	11h	400	400	15h	50	20	148
SG306K	* REG				26k	24k	15h	500	500	15h	50	49	251
SG307K	* REG	HY			143h	157h	10h	375	375	15h	50	33	181
SG308K	* REG	HY			19k	21k	1k	500	500	1k	50	33	181
SG309K	* REG	HY			315h	285h	18h	750	750	15h	50	49	231
SG311S	* REG				430	400				1	0.05		86
TP=2/0.5	REG				1	3				0.2	2.0	33	68
TP=2/2	REG				1	3				0.4	6.0	33	68
TP=6=2	REG				4	8				0.4	6.0	33	68

GROUP VI - CURRENT REGULATOR TUBES

TYPE NO.	KIND	TYPE	BULB	VOLT		CURRENT		BASE NO.
				MAX.	MIN.	MAX.	MIN.	
				V	V	mA	mA	
024B12-13	* 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
185-9	* BAL	SIN	T14	9	5	1080	960	DS7
1810-17	* 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

GROUP VII - THYRATRONS

TYPE NO.	KIND	BULB			GAS	CATHODE			MAXIMUM ANODE				I _b		MAXIMUM GRID							BASE NO.
		SHAPE	LGH	DIA.		KIND	E _f V	I _f mA	WARM UP sec	PIV V	E _f V	FIRING V	TUBE DROP V	MAX mA	AVG mA	BIAS V	INPUT RES. kΩ	IGN. V	PULSE DUR. μs	t _r ns	ppms 10 ³	
AGI=1-75/1.3	* TET	T	50	30	C				1300				75A				550	5m				
TG1B	* TRI	T	36	10	KX	H	6.3	225	10	240	240	30	20	120	20	30	1M	100	30	10		
TG1P	* TRI	T	67	19	HE	H	6.3	1200		4k		80	34		35							
TG1=0.02/0.5	* TET	T	38	19	XE	H	6.3	165	10	500	500	30	16	120	20	100	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	185	33	XE	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	90	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	M	201	66	XE	H	5.0	6A	90	1300	1k		20	10A	15h	100	100	100				
TG1=2/8	* TRI	T	180	70	XE	H	6.3	7500	120	8k		140	20	7A	2A							
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	180	10k			16	8A	25h	50	5					
TG1=3.2/1.3	* TRI	T	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	40	3k		190	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	120	13h		1k	20	80A	12A	20						
TG1=1B	* TRI	T	40	10	XE	H	3.1	1500		500		30		20A		6	1M					
TG1=1=3/1	* TET	T	67	15	AR	H	6.3	1100	90	1000	1k		35	3A	6		40		20	300	5 T22	
TG1=1=5/1.1	* TRI	T	67	19	HY	H	6.3	2000		1100		70		5A	10	100					15 T23	
TG1=1=10/1	* TRI	T	80	32	HY	H	6.3	2600	60	1000				10A	50	100	15		6	150	40	
TG1=1=35/3	* TRI	T	135	38	HY	H	6.3	2500	180	3k	3k		140	35A	45		100		6	500		
TG1=1=50/5	* TRI	T	160	45	HY	H	6.3	3600	180	5k	5k		160	50A	50	150					<1 4	
TG1=1=90/8	* TRI	T	195	66	HY	H	6.3	7000	180	8k	8k			90A	100	200					<1 2	
TG1=1=130/8	* TRI	T	180	64	HY	H	6.3	500	180	3k	8k			1hA	150	170					<1 2	
TG1=1=130/10	* TRI	T	205	62	HY	H	6.3	5A	240	10k	10k		150	1hA	250	170					<1 30	
TG1=1/260/12	* TRI	T	98	67	HY	H	6.3	12A	180	12k				3hA	400			200	50		<5	
TG1=1=325/16	* TRI	T	230	66	HY	H	6.3	8500	300	16k	16k		150	3hA	200			200	1		1	
TG1=1=400/3.5	* TRI	S	280	85	HY	H	5.0	18A	180	3500	3k		150	4hA	300		2		20		<1	
TG1=1=400/16	* TRI	T	268	78	HY	H	6.3	10A	360	16k	16k		170	4hA	500	200		200	5		<1	
TG1=1/500/16	* TRI	T	138	86	HY	H	6.3	17A	300	16k	16k			5hA	500	200		400	10		50	
TG1=1/500/20	* TRI	T	300	110		H	6.3	19A	300	20k	16k			5hA	51A			400	10		5	
TG1=1=700/25	* TRI	T	450	135	HY	H	6.3	20A	420	20k	20k		200	7hA	1A			700	<1		<3	
TG1=1=1000/25	* TRI	T	160	106	HY	H	6.3	20A	300	5k	25k		150	1kA	1A			500	50		50	
TG1=2000/35	* TRI	T	420	172	HY	H	6.3	55A	360	5k	35k			2kA	3A			1k	10		<1	
TG1=2=500/35	* TRI	T	600	215	HY	H	6.3	55A	720	5k	35k		250	2kA	25h			1k	10		<1	
TKH=1	* TRI	T	85	34	NA	C				150			60	100	30			85				
TKH1B	* TRI					C					160		85	30	10		10M	85				
TKH1=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	3k		15	15A	25h	100						
TR1=5/2	* TRI	T	275	90	HG	H	5.0	15A	300	2k	2k	100	15	15A	5A	24						
TR1=6/3	* TRI	T	160	66	HG	H	5.0	13A	300	3k			15	40A	6A	100	100					
TR1=6/15	* TRI	T	350	90	HG	H	5.0	23A	900	15k	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	195	HG	H	5.0	40A	18h	15k			20	47A	15A	100	5					
TR1=15/20	* TRI	T	440	108	HG	H	5.0	20A	900	20k	20k		18	45A	15A	150	5					
TR1=40/15	* TRI	G	700	245	HG	H	5.0	68A	18h	15k			20	1hA	40A	100	5					
TR1=85/15	* TRI	T	760	270	HG	H	5.0	130A	24h	15k			20	3hA	85A	100	5					
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	18	11	300	100	2	5M					
TG2=0.5/12	* TRI	T	225	62	HY	H	6.3	7A	180	12k	12k		70	4A	500	100						
TG2.5/5	* TRI				F		5.0	13A		3k				8A	2A	18						
TG1=2=260/12	* TRI	T	285	90	HY	H	6.3	12A		12k								200			<5	
TG1=2=325/16	* TRI				HY	F	6.3	8500		16k				3hA	200							
TG1=2=400/16	* TRI	T	78	500		H	6.3	12h	300	16k				4hA	500				5		<1	
TG1=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	XE	H	6.3	600	30	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	<1	95	20M	67	15	1hA	1	
LP=4	* COM		29	40		H	4.0	270		150				1		70						
TKH4B	* TET	T	40	10	NA	C				225	180	115		70	3		95M	92	10			
LP=5	* COM		29	40		H	4.0	270		100				1	4	40						
TG5R	* TET	T	19	5		F	1.0	65		170		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	1500		275				1	3	350						
TKH=6G	* HEX	T	50	13	NE	C					285	130			1			100	20			
LP=7	* COM		62	35		H	4.0	270		25					<1	13						
TKH=7G	* PND	T	50	13	NE	C				285		140	2	1	20			80		200		

GROUP VII - THYRATRONS

TYPE NO.	KIND	BULB			GAS	CATHODE				MAXIMUM ANODE				I _b		MAXIMUM GRID					BASE NO.	
		SHAPE	LGH	DIA.		KIND	E _f V	I _f mA	WARM UP sec	PIV V	E _F V	FIRING V	TUBE DROP V	MAX mA	AVG mA	BIAS V	INPUT RES kΩ	IGN. V	PULSE			
																			DUR μs	t _r ns		ppms 10 ³
TKH-8G	* PND	T	50	13	NE	C						285	130		1			80	10			
TKH-9G	* HEX	T	50	13	NE	C				285				2	1	40		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		
TKH-16B	* TET	T	7	35	NE	C				260				5		46						
MTKH90	* TRI		37	12	NE	C				200	120	150	50	20	2	45	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	S	155	63		F	2.5	9A		500	500	50	25	1A	500	15						
TG-235	* TRI	S	220	81		F	5.0	12A		700	700	70	25	6A	1A	16						
1587	* TET	T	57	19		H	6.3	600	30	1300	650	30	12	500	100	100					7EM	

GROUP VIII - CATHODE RAY TUBES

TYPE NO.	METHOD		DIMEN.		USE	FILAMENT			TYPICAL						MAXIMUM		SCREEN		DEF. ANG DEG
	FOCUS	DEFL.	DIA. cm	LTH. cm		K	E _f V	I _f mA	E _{FOC} V	E _{A1} kV	E _{A2} kV	E _{A3} kV	E _{A4} kV	E _{C1} V	I _k μA	DEF. SENS mm/V	COL	PER	
LK7M	*	ELS			H	12.6	600			1.4				50	150				
LN-4	*	ELS	ELS	17	49	ST H	6.3	550		1.5	0.2			100	6				
LN5	*	ELS	ELM			ST H	6.3	600		0.6	0.2				15				
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					
LN9	*	ELS	ELM			ST H	6.3	600		0.6	0.2				15				
LN17	*			9	35	ST								90					
LN102	*	ELM	ELM	12	30	H	6.3	600		10				200					
LN104	*	ELM	ELM	12	58	GR H	6.3	530		10				15	1				
L6247	*	ELS	ELS	7	19	GD H	4.0	700	160	0.8				27	75	0.20	GR		
L6-248		ELS	ELS	11		OS	4.0	700	600	3.0				50				GR MD	
L6-249		ELS	ELS	11		OS	4.0	700	600	3.0				50				GR MD	
L6-709A		ELS	ELS	11		OS	2.5	21h	450	2.0				50				GR MD	
PIW-3				6		IC				18.0								VB	
PIW-4				13		IC				18.0								VB	
3LK1B	*	ELM	ELM	3	19	TV H	6.3	500		2.0				40				WH MD	
3L01-I	*	ELS	ELS	3	12	OS H	6.3	600	50	0.5				60	300	0.18	GR MD		
4LK1L	*	ELS	ELM	5	34	PR H	6.3	400		0.4	10			70				WH	
5L038I	*	ELS	ELS	5	19	OS H	6.3	600	300	1.0				60	1m	0.11	GR MD		
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	
6LK3B	*	ELS	ELM		11	TV H	1.3	300	350	0.3	6.0			12				WH	
6LM1S	*	ELM		6	17		6.3	300		9.0				40				WH	
6L01I	*	ELS	ELS	5	14	OS H	6.3	600	135	1.2				60	300	0.15	GR MD		
6L02A	*	ELS	ELS	6	24	OS H	6.3	300		0.9	3.0	6.0		70	300			BL	
7L01M	*	ELS	ELS	7	19	RA H	6.3	600	167	1.4	2.8			76		0.13	PB SH		
7L05SI	*	ELS	ELS	7	19	OS H	6.3	600	180	1.1	2.0			76	500	0.12	GR MD		
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 L6	
8L03I	*	ELS	ELS	8	30	OS H	6.3	600	300	0.8	2.3			85		1.0	GR MD		
8L04I	*	ELS	ELS	8	35	OS H	6.3	300		0.7	3.7			75	300	1.5	GR MD		
8L029I	*	ELS	ELS	8	26	OS H	6.3	600	350	1.5				45	1000	0.17	GR MD		
8L030I	*	ELS	ELS	8	27	OS H	6.3	600	400	1.5				45	1000	0.17	GR MD		
8L039V	*	ELS	ELS	8	27	OS H	6.3	600	400	2.0	4.0			60	1500	0.17	Y6 L6		
9L01I	*	ELS	ELS	9	35	GD H	6.3	600	300	1.0	1.0	1.0	2.8	60	1500	0.45	GR MD		
9L02I	*			9	38	OS H				0.3	0.9					1.0	Y6		
10LK2B		ELM	ELM	8	32	PR H	1.5	25h		20.0				120	200			WH MD	
10LK3B	*	ELM	ELM	10	30	PR H	6.3	500		25.0				50	200			WH MD	
10L02I	*	ELS	ELS	10	36	GD H	6.3	350		2.0	4.0			120		0.25	GR MD		
10L043I	*	ELS	ELS	10	41	GD H	6.3	600	550	2.0				60		0.20	GR MD		
10L0102M	*	ELM	ELS	10	70	OS H	6.3			1.5	20.0			100	3m	0.23	BL		
11LK1B	*	ELS	ELM	R10	18	TV H	1.4	280	500	9.0				35				WH	
11LM2G	*	ELM	ELM	11	29	DT H	6.3	600		20.0				80					
11L43G	*	ELM	ELM	11	36	DT H	6.3	600		20.0				95					
11LM5V	*																	WH	
11L01I	*	ELS	ELS	8	41	OS H	6.3	300	250	0.1	0.1	8.0		25		1.8	GR MD		
11L02KH	*	ELS	ELS	R11	41	OS H	6.3	300		0.4	0.1	0.1	8.0	75	500			GR	
11L03I	*	ELS	ELS	8	26	OS H	6.3	90	400	1.0	0.1	0.1	1.5	50	500			GR	
11L05I	*	ELS	ELS	8	35	OS H	6.3	300	480	1.5	0.1	0.1	3.0	75				GR	
12LN1	*	ELS	ELM			OS H	6.3			0.1	1.2	6.5							
13LK1B	*	ELM	ELM	14	37	TV H	6.3	550		6.0				76	100			WH MD	
13LK2B	*	ELM	ELM	S13	31	TV H	6.3	500		4.0				55	50			WH MD	
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	
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			Y6 L6	
13LM5A	*	ELS	ELM	13	38	OS H	6.3	600		1.3	10.0			100				BL	
13LM6V	*	ELS	ELM	13	21	RA H	6.3	600	425		14.0			50				Y6 L6	
13LM7V	*	ELM	ELM	13	27	RA H	6.3	600		0.2	12.0			70				Y6 L6	
13LM8V	*																	WH	
13LM31M	*	ELM	ELM	13	28	OS H	6.3	600	250	4.0				45	350			Y6 L6	
13LM56I	*	ELM	ELM	13	29	RA H	6.3	500		0.2	4.0			50	350			GR MD	
13LM57		ELM	ELM	11	28	OS H	6.3	600	250		6.0			71				GR L6	
13LM58K		ELS	ELM	13	29	OS H	6.3	600		0.7	4.0			50				RD L6	
13LN2	*	ELS	ELS	13	45	ST H	6.3	550		0.2	3.0								
13LN3	*			14	48	ST				3.0				70		0.25	Y6		
13LN5	*	ELS	ELS	13	34	ST H	6.3	300		1.4				75		0.5	GR		
13LN6	*					GD													
13LN7	*	ELS	ELS	13	57	ST H	6.3	600	350					90				GR	

GROUP VIII - CATHODE RAY TUBES

TYPE NO.	METHOD		DIMEN.		USE	FILAMENT			TYPICAL						MAXIMUM		SCREEN		DEF. ANG DEG
	FOCUS	DEFL.	Ø DIA.	LTH.		K	E _f V	I _f mA	E _{Foc} V	E _{A1} kV	E _{A2} kV	E _{A3} kV	E _{A4} kV	E _{C1} V	I _k µA	DEF. SENS mm/V	COL.	PER	
13LN8	* ELS	ELS	13	48	S2 H		6.3	600	950	3.0	0.2			90			GR		
13LN10	*		14	38	ST					4.0				90		0.7	GR		
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	
13L03I	* ELS	ELS	14	43	OS H		6.3	600	410	1.5	3.0			50	1000	0.43	GR	MD	
13L04I	ELS	ELS	14	43	OS H		6.3	600	425	1.5	1.5	5.0	8.0	50		0.25	GR	MD	
13L05P	ELS	ELS	13				6.3	600	500	1.8	3.0			50			Y0	L0	
13L06I	* ELS	ELS	13	34	OS H		6.3	600	400	1.5				45		0.38	GR	MD	
13L07V	* ELS	ELS	14	45	OD H		6.3	600	600	2.0	4.0	8.0		80		0.30	WH	L0	
13L09I	* ELS	ELS	14	45	OS H		6.3	600	300	1.2	4.8			40		1.0	GR	MD	
13L010D	*		13	53	H					0.4	0.4					0.45	BL		
13L011A	*		13	50	OS H					1.0	1.0	10.0				4.5	BL		
13L012A	* ELS	ELS		45	OS H		6.3	600	300	1.3	1.2	4.8		50					
13L014U	*		13	28	H					0.7	3.5					0.2	GR		
13L036V	* ELS	ELS	14	43	OS H		6.3	600	525		2.0	4.0		60	1000	0.29	WH	L0	
13L037A	* ELS	ELS	14	43	OS H		6.3	600	400		1.5	3.0		50	1000	0.43	BL	SH	
13L048V	* ELS	ELS	14	41	OD H		6.3	600	550	2.0				60		0.17	BL	L0	
13L054A	* ELS	ELS	14	43	OS H		6.3	600	300	1.5	3.5	6.0	8.0	60	750	0.20	BL	L0	
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	300	4.0	15.0	25.0		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	
14LM1N	* ELS		12	24			6.3	300		18.0				70			Y0		
16LK1B	* ELS	ELM	R16	19	TV H		1.4	280	450	0.3	9.0			40	60		WH	SH	70
16LM1G	* ELM	ELM	13	31	RA H		6.3	600		20.0				90					50
16LM2V	*				RA												WH		
16L02I	* ELS	ELS	13	45	OD H		6.3	600	500		2.0	3.5		70	500	0.28	GR	MD	
16L03I	* ELS	ELS	16	35	OS H		6.3	600	450		1.5			45		0.48	GR	MD	
16L04B	* ELS	ELM	12	41	OS H		6.3	550			2.0	8.0		90		1.0			
16L04V	*		12	39	H					0.2	2.0	8.0				0.8	BL		
18LK1B	ELM	ELM	17	35	TV H		2.5	21h		3.5				35			WH		
18LK2B	ELM	ELM	14	42	TV H		6.3	550			15.0			60	100		WH	SH	
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	
18LK5B	* ELM	ELM	17	35	TV H		6.3	520		4.0				30	100		WH	MD	
18LK7B	ELM	ELM	17	35	TV H		6.3	560			4.0			35	100		WH	SH	
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	
18LK17L	* ELM	ELM	17	40	TV 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			Y0	L0	
18LM4V	*				RA												WH		
18LM5V	* ELS		13	29	RA		6.3	300		14.0				50			BL		
18LM35V	* ELM	ELM	18	35	RA H		6.3	600		0.2	4.0			50	350		WH	L0	
18L01A	* ELS	ELS	18	47	OD H		6.3	600	1k	4.0	8.0			130		0.23	BL	SH	
18L02A	*		17	46	H					1.0	4.0					0.46	BL		
18L040B	ELS	ELS	18	36	TV H		6.3	600		2.0				120			WH	MD	
18L047A	* ELS	ELS	18	45	OD H		6.3	600	550	2.0	6.0			100		0.19	BL	SH	
18LS4I	*		18	97	CH					15.0							BL		
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	L0	
22L01A	* ELS	ELS	15	48	SO 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	
23LK2B	ELM	ELM	22	47	TV H		6.3	550			10.0			18	100		WH	SH	
23LK5B	* ELM	ELM	23	40	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	
23LK8B	* ELM	ELM	S23	49	TV H		6.3	550		15.0				60	100		WH	MD	
23LK9B	* ELS	ELM	R23	18	TV H		12.0	65	250	9.0				25	150		WH	MD	90
23LK13B	* ELS	ELM	R23	20	TV H		12.0	65	350	0.1	11.0			60			WH		90
23LK41I	* ELM	ELM	R23	30	TV H		6.3	550		8.0				65	50		Y0	MD	
23LM3S	* ELS	ELM	23	34	RA H		6.3	600	425	0.4	14.0			50			Y0	L0	
23LM4V	*																WH		
23LM5V	* ELS		23	29	RA		6.3	300		14.0				50			BL		
23LM6V	* ELM		23	30	RA		6.3	600		18.0				70			WH		90
23LM7V	* ELS		23	30	RA		12.0	650		9.0				30			WH		90
23LM8	* ELS		23	21	RA		6.3	300		15.0				90			Y0		90
23LM9	* ELM		23	29	RA		6.3	600		15.0				90			Y0		90

GROUP VIII - CATHODE RAY TUBES

TYPE NO.	METHOD		DIMEN.		USE	FILAMENT			TYPICAL						MAXIMUM		SCREEN		DEF. ANG
	FOCUS	DEFL.	Ø DIA.	LTH.		K	E _f	I _f	E _{F0C}	E _{A1}	E _{A2}	E _{A3}	E _{A4}	E _{C1}	I _K	DEF. SENS.	COL.	PER	
			mm	cm			V	mA	V	kV	kV	kV	kV	V	µA	mm/V			DEG
23LM34V	• ELM	ELM	23	43	OS H		6.3	600		0.2	4.0			50	350		YØ	LØ	
23LØ51A	• ELS	ELS	23	57	OS H		6.3	600	55h	6.0	20.0			200		0.03	BL	SH	
25LM1V	• ELM	ELM	R28	35	OS H		6.3	550		10.0				60	60		YØ	LØ	
25LM2V	•																WH		
25LM3N	• ELM		25	36	RA		6.3	600		10.0				70			YØ		70
26LØ2A	•		6	24	PT H		6.3	300		3.0	6.0			40					
30LK1B			30	45	TV H		6.3	600		10.0				75					
31LK1B	ELM	ELM	31		TV H		6.3	550		10.0				52	150		WH	MD	
31LK2B	• ELM	ELM	30	48	TV H		6.3	600		10.0				55	150		WH	MD	
31LM5V	• ELS		31	42	RA		6.3	300		14.0				70			BL		
31LM32V	• ELM	ELM	31	54	RA H		6.3	600		0.2	4.0			50	350		YØ	LØ	
31LN1	• ELS	ELM	30	54	ST H		6.3	300		3.0				30					
31LØ1P	ELM	ELM	31						250	1.8				50			GR	MD	
31LØ33V	• ELS	ELS	31	57	OS H		6.3	600		1.1	4.3	5.5		140			YØ	LØ	
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
35LK4B	• ELS	ELM	R33	44	TV H		6.3	520	250	14.0				60	100		WH	MD	70
35LK6B	• ELS	ELM	R35	38	TV H		6.3	600	425	0.3	12.0			60	125		WH	MD	
35LM1S	• ELM		35	44	RA		6.3	300		14.0				70			YØ		70
40LK1B	• ELM	ELM	40	49	TV H		6.3	500		12.0				70	150		WH	MD	70
40LK4TS	• ELS	ELM	R40	40	TV H		6.3	900	4k	0.5	20.0			132			3C	MD	
42LM2YE	• ELS	ELM	42	59	RA H		6.3	12h	4k	4.5	11.5	20.0		60	50		ØG	LØ	
43LK2B	• ELS	ELM	R37	50	TV H		6.3	600	300	0.3	14.0			60	100		WH	MD	70
43LK3B	• ELS	ELM	R43	51	TV H		6.3	600	300	0.5	14.0			60	150		WH	MD	70
43LK6B	ELS	ELM	S45	30	TV H		6.3	600		0.3	0.5	14.0		25			WH	SH	11A
43LK7B	ELS	ELM	S45	50	TV H		6.3	600		0.3	0.3	14.0		60	35		WH	SH	68
43LK8B	• ELS	ELM	S45	50	TV H		6.3	600		0.3	0.5	14.0		50	100		WH	SH	
43LK9B	• ELS	ELM	R37	33	TV H		6.3	500	425	0.3	14.0			60	30		WH	MD	110
43LK11B	• ELS	ELS					6.3	600	400	0.3	14.0			90	250		WH	MD	
43LM1V	•																WH		
43LS9I	•		40	32	CH					15.0							GR		
45LM1B	• ELM	ELM	45	56	RA H		6.3	600		0.5	12.0			60	350		YØ	LØ	
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	LØ	
45LS7N	•		45	67	CH					14.0							GR		
45LS8I	•		45	70	CH					14.0							GR		
47LK1B	ELS	ELM	S47	31	TV H		6.3	300	400	0.4	16.0			55	120		WH	SH	110
47LK2B	• ELS	ELM	R44	30	TV H		6.3	300	400	0.4	16.0			80	300		WH	MD	110
47LK1V	• ELS		45	29	RA		6.3	300		16.0				70			BL		110
50LK1B	• ELS	ELM	R50	32	TV H		6.3	400	04	16.0				77			WH		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
53LK3B			S50	58	TV H		6.3	600	300	0.4	16.0			140					
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
53LK6B	ELS	ELM	S48	385	TV H		6.3	600	425	0.3	0.5	16.0		90	30		WH	SH	110
59LK1B	ELS	ELM	S59	37	TV H		6.3	300	425	0.4	16.0			55			WH	SH	110
59LK2B	ELS	ELM	S59	36	TV H		6.3	300	400	0.4	16.0			80	300		WH	MD	110
61LK1B	• ELS	ELM	R60	36	TV H		6.3	300	400	0.4	18.0			44	350				110
65LK1B	ELS	ELM	38	62	TV H		6.3	300	400	20.0				80	300				
67LK1B	• ELS	ELM	R64	39	TV		6.3	300	400	0.4	20.0			90			WH		110

GROUP VIII-A - VIDICONS

TYPE NO	KIND	TARGET AREA		SPEC-TRAL RE-SPON-SE	RESO-LUTION LINES		VOLTAGES				CUR-RENT		IARG	DIMEN-SIONS			
		HGT	WIDTH		MIN	MAX	HEATER	1st AN	2nd AN	MOD MAX	HEATER	SIGNAL		DIA.	LTH		
																mm	mm
LI11	IC							6.3	400	12h	50	510			40	170	
LI13	IC							12.6	650	1k	50	300			10		
LI16	IC							12.6	850	13h	50	300			20	320	
LI17	* IC							12.6	950	12h	50	300			130	520	
LI112	IM							6.3	400	15h	70	600			80	390	
LI114	IM								600	900	35				30	390	
LI115	IM								600	900	35	600			30	390	
LI117	* IM							6.3	400	15h	95	600			80	390	
LI118	* VID							6.3	600		80	450			16	160	
LI122	* IM							6.3	11h		120	550			90	300	
LI23	* VID	9.5	12.7			550	350	6.3	300	300	125	600	100		28.6	155	
LI101	* IC							6.3	800	12h	5	300			150	310	
LI201	* IM							6.3	400	15h		600			80	390	
LI202	* IM							6.3	400	15h	150	600			90	390	
LI203	* IM							6.3	500			600			80	390	
LI207	* IM							6.3	400	15h		600			90	390	
LI211	* IM	24	32	400	500	400	200	6.3	800	2k	200	600	1u	5	77	388	
LI212	* IM							6.3	300	18h		260			40	230	
LI213	* IM	24	32	400	570	625	600	6.3	400	15h	100	900		1	76.5	385	
LI214	* IM							6.3					1u		77	393	
LI217	* IM	24	32					6.3	100						77	473	
LI218	* IM	24	32	400	580	400		6.3	290	15h		500	30u		77	399	
LI218-1	* IM	24	32	400	580	625	550	6.3	290	15h	90	90	40u		77	385	
LI223	* IM	24	32			400		6.3	300	12h		100		1	h1.1	483	
LI224	* IM	24	32			600		6.3	600	15h	100	100	1hu	1	h1.1	483	
LI227	* IM	24	32			400		6.3	600	13h	100	100	1hu	1	h1.1	483	
LI228	* IM	24	32			400		6.3	100	13h	300	100	1hu	1	h1.1	483	
LI401								6.3			450				340	150	
LI407	* VID	4.5	6	4.0	7.0	350	250	6.3			150	90	5	15	16	112	
LI408	* VID	11	11	5.0	6.4	600	500	6.3	300	300	130	50			28.6	130	
LI409	* VID	11.5	11.5	4.0	5.3	550	400	6.3		300	125	90	10u	5	28.6	130	
LI410	* VID	18	18	4.0	5.5	800		6.3	700	400	300	630	150		40	219	
LI412	* VID	11.5	11.5	6.5	7.2	550	350	6.3	300	300	60	90	100	1	28.6	130	
LI414	* VID	9.5	12.7	500	560			6.3	100					1	28.6	132	
LI415	* VID	9.5	12.7			500	600	6.3	300	300	125	640	10u		28.6	161	
LI415-2	* VID	9.5	12.7	520	570	600	500	6.3	300	300	100	640	300	30	28.6	161	
LI417	* VID							6.3				100			28.6	147	
LI418	* VID	4.5	6	4.0	7.0	350	250	6.3			150	90	5	15	16	112	
LI419	* VID	9.5	12.7	420	570	600	550	6.3				90	100	10	29	164	
LI419-1	* VID	9.5	12.7	420	570	600	550	6.3	300		60	90	100		28.6	161	
LI420	* VID	9.5	12.7	4.2	5.7	500	400	6.3				90	100	10	28.6	164	
LI420-1	* VID	9.5	12.7	420	580	500	400	6.3	300	300	50	90	100	10	28.6	161	
LI421	* VID	9.5	12.7	5.5	6.1			6.3				640	100		28.6	164	
LI421-1	* VID	9.5	12.7	525	650	600		6.3	300	300	100	600	100		28.6	161	
LI422	* VID	9.5	12.7					6.3	500					1	28.6	164	
LI424	* VID	4.5	6.0		5.8	350	350	6.3	300	300		90	50		15	112	
LI425	* VID	11.5	11.5		6.3	350	400	6.3	300	300		90	50		28.6	150	
LI426	* VID	9.5	12.7	480	625	600	550	6.3	300	600	60	90	100	1	28.6	164	
LI428	* VID	9.5	12.7	5.5	6.1	300	400	6.3				90	100		28.9	164	
LI429	* VID	9.5	12.7					6.3	100					50	25.6	132	
LI430	* VID	4.5	6.0					6.3	100					5	13.5	100	
LI601	* IM							15h		270				50	200		
LI602	* IMD													53	195		
LI603	* IMD		34									1hu	230	55	213		
LI603-1	* IMD		34									15u	270	55	213		
LI604	* IMD		25									5u	10	55	170		
LI604-K	* IMD		25			125	100					30u		55	170		
LI605	* IMD		25									10u	50	55	170		
LI605-1	* IMD		25									10u	30	55	170		
LI606	* IMD		25									1hu		55	170		

GROUP IX- MICROWAVE TUBES

TYPE NO.	KIND	FREQ.		DUTY CYCLE %	OPERATION	CATHODE		MAXIMUM														DIMEN.		WT. GR.
		MIN. GHz	MAX. GHz			E _f V	I _f mA	E _b V	I _b mA	P _o mW	COL V	E _g V	HEL V	GAIN dB	NF dB	VSWR	BAND WIDTH MHz	MAG. FIELD GAUSS	COUPLING	LTH. mm	DIA. mm			
GSH-1	* NOI	3.4	5.3			11.5	1200	200	150								1.3				383	20	30	
OV-1	* BWT	6.5	10.2			6.3	700	300	22	15	2050						1.2	680	WG	226	18	38		
GSH-2	* NOI	7.5	10.3			11.5	1400	200	120											383	20	30		
OV-2	* BWT	4.4	6.8			6.3	700	300	23	20	1900						1.2	680	WG	243	18	40		
2J55	MAG		13.3	1	P			12k	12A	53W								33h						
GSH-3	* NOI	1.6	3.3			11.5	1400	300	150								1.2				556	20	73	
3J21	MAG		24.5		C			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	550	225	70								1.1				267	18	12	
UV-5	* TWT	3.4	4.4			3.0	900	480	1		600	12	180	20	8	1.6		700	WG	384	17	86		
GSH-6	* NOI	25.4	52.0			6.3	550	210	70								1.3				220	18	10	
RR-6	* ATR	9.3	9.4		P					1hkW											62	16	5	
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		
UV-7-1	* TWT	3.4	3.9			6.3	850	1400	28	4W	1500	50		35				650	WG	392	17	150		
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	
KIU-12-A	* KLA	2.8	2.8			12.0	4500	300k	15A	18kW						31	1.2			CØ	12h	225	60k	
KIU-12-B	* KLA	2.7	2.8			12.0	4500	300k	15A	18kW						31	1.2			CØ	12h	225	60k	
MI-12	MAG	3.0	3.1		P			15k	18A	1hkW								18h						
UV-13	* TWT	3.4	4.4			3.0	1000	640	600µ		800	15	180	20	8	1.3		550	WG	329	14	60		
MI-14	MAG	2.9	3.0		P			15k	18A	1hkW								18h						
UV-14	* TWT	3.4	4.4			6.3	450	250	5	80	1300	20	12h	35	25	1.8			WG	427	46	25h		
K-15	* RKY	3.1	5.6			6.3	550	250	30	50	400					1.2			CØ	68	25	20		
KIU15	KLA	1.8			P	12.0		280k		30kW						35		18	700	WG	15h	400	75k	
MI-15	MAG	2.9	2.9		P			15k	18A	1hkW								18h						
MI-16	MAG	2.8	2.8		P			15k	18A	1hkW								18h						
K-19	* RKY	9.2	9.5			6.3	550	300	30	15	125					1.2			CØ	90	43	60		
K-20	* RKY	8.6	9.6			6.3	550	300	30	7	200					1.2			CØ	90	43	60		
K-26	* RKY	0.5	0.7			6.3	700	250	75	100	300					1.5			CØ	140	32	60		
K-27	* RKY	8.5	9.7			6.3	550	300	30	15	300					1.2			CØ	90	43	60		
K-27-A	* RKY	9.2	9.5			6.3	550	300	30	15	300					1.2			CØ	90	43	60		
GSH-28	* NOI	64.0	76.0			6.3			100							17								
GSH-29	* NOI	52.0	65.0			6.3			100							17								
K-29-A	* RKY	8.8	10.3			6.3	70	320	40	15	400					1.2			CØ	150	56	250		
K-29-M	* RKY	8.8	10.3			6.3	70	320	40	15	400					1.2			CØ	150	58	400		
K-30	* RKY	7.7	8.7			6.3	70	320	40	15	300					1.2			CØ	150	56	250		
K-30-M	* RKY	7.7	8.7			6.3	70	320	40	15	300					1.2			CØ	150	58	400		
K-31	* RKY	7.0	8.1			6.3	550	320	40	20	300					1.2			CØ	150	56	250		
K-32	* RKY	5.5	7.1			6.3	550	320	40	20	300					1.2			CØ	150	56	250		
K-33	* RKY	14.3	17.2			6.3	550	400	40	10	500					1.5			CØ	150	55	300		
K-34	* RKY	12.0	14.4			6.3	550	400	40	10	500					1.5			CØ	150	56	300		
K-35	* RKY	10.0	12.1			6.3	550	350	40	10	500					1.5			CØ	150	56	300		
K-41	* RKY	1.4	2.5			6.3	700	250	60	80	300					1.3			CØ	85	29	30		
K-42	* RKY	0.9	1.5			6.3	700	250	60	80	250					1.3			CØ	85	29	60		
K-48	* RKY	3.4	4.0			6.3	700	180	100	35	120					1.1			CØ	68	25	15		
RR-49M	* TR	8.6	9.7		P					3hkW										WG	127	32	135	
MI-51	* MAG	9.4	9.5		P	6.3	1000	13k	16	65W						1.1	3	48h	CØ	129	82	570		
MI-52	* MAG	9.4	9.4		P	6.3	1000	13k	16	65W						1.1	3	48h	CØ	129	82	570		
MI-53	* MAG	9.3	9.4		P	6.3	1000	13k	16	65W						1.1	3	48h	CØ	129	82	570		
MI-54	* MAG	9.3	9.3		P	6.3	1000	13k	16	65W						1.1	3	48h	CØ	129	82	570		
M62	* MAG	2.4	2.4		C			2300	150	150W								18h		200	140	700		
M81	* MAG	2.3	2.4		C			5500		5kW							3.1			WG	290	140	62h	
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	6.3	1000	13k	16	65W						1.1	3	48h	CØ	129	82	570		
MI-120	* MAG	2.8	2.8		P	6.3	1500	5k	8A	54hW						1.1	4	13h	CØ	134	82	800		
MI-137	* MAG	1.8	1.8		P	12.6	2000	25k	27A	250W						1.1	2	16h	CØ	195	72	19h		
MI-158-1	* MAG	9.3	9.4		P	6.3	1500	6k	5500	7kW						1.1	6		WG	117	42	12h		
K-200	* RKY	9.4	9.4			6.3	550	300	30	18	170					1.2			CØ	90	43	60		
RR-200	* TR	9.3	9.4		P					50kW										62	16	5		
UV-204	* TWT	3.4	3.9			12.6	2250	3000	50	20	2400	60	27h	20		1.2			WG	375	33	650		
UV-205	* TWT	3.4	4.4			6.3	1400	2350	55		1500	50	14h	30		2.0		10h	WG	283	14	150		
KU304	KLA	0.3	0.9		C	6.5		6k		10kW						40		6	250	CØ	12h	400	60k	

GROUP IX- MICROWAVE TUBES

TYPE NO.	KIND	FREQ.		DUTY CYCLE %	OPERATION	CATHODE		MAXIMUM													DIMEN.		WT. GR.
		MIN.	MAX.			E _f V	I _f mA	E _b V	I _b mA	P ₀ mW	COL V	E _g V	HEL V	GAIN dB	NF dB	VSWR	BAND WIDTH MHz	MAG. FIELD GAUSS	COUPLING	LTH. mm	DIA. mm		
		GHz	GHz																				
KU304A	KLA	0.8	0.8		C	6.5		15k		10kW					37		10	350	CØ	10h	400	65k	
K-308	* RKY	3.4	4.0			6.3	1000	220	100	500	300						1.1		CØ	70	25	15	
KU-308	* KLA	0.8	1.0			12.0	6000	9k	1300	4kW					35		1.2	6	CØ	710	206	40k	
KU309	KLA	0.5	0.6		C	4.0		9k		3kW					40			300	CØ	10h	250	50k	
KU310A	KLA	0.5	0.6		C	5.0		15k		15kW					35			8	500	CØ	12h	250	85k
KU310B	KLA	0.6	0.6		C	5.0		15k		15kW					35			8	500	CØ	14h	250	85k
K-351	* RKY	2.7	3.3			6.3	700	250	40	8	250						1.3		CØ	80	25	35	
K-352	* RKY	3.2	7.5			6.3	350	230	40	15	400						1.2		CØ	68	22	30	
UV-421	TWT	0.9	1.2			2.8		200	300μ	5					13	<9		360					
UV-422	TWT	0.6	1.0			2.8		450	700μ	5					15	8		420					
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					
MI-509-A	* MAG	9.5	9.5		P	12.6	4200	26k	28A	3hkW							1.1		WG	230	135	16k	
MI-509-B	* MAG	9.4	9.5		P	12.6	4200	26k	28A	3hkW							1.1		WG	230	135	16k	
MI-509-D	* MAG	9.2	9.3		P	12.6	4200	26k	28A	3hkW							1.1		WG	230	135	16k	
MI-509-G	* MAG	9.3	9.3		P	12.6	4200	26k	28A	3hkW							1.1		WG	230	135	16k	
MI-509-V	* MAG	9.3	9.4		P	12.6	4200	26k	28A	3hkW							1.1		WG	230	135	16k	
MI-509-YE	* MAG	9.2	9.2		P	12.6	4200	26k	28A	3hkW							1.1		WG	230	135	16k	
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-M	* MAG	36.4	37.1		P	6.3	3500	15k		28kW							1.1		WG	193	100	75h	
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				
ØV-612	BWT	37.5	53.6		C	5.0		1500	50	200	400				10					200	130	5k	
ØV-613	BWT	52.6	81.0		C	5.0		1500	50	80	400				10					200	130	5k	
ØV-614	BWT	79.0	h1.2		C	6.3		2500	50	50	400				10					200	130	5k	
ØV-621	BWT	h1.8	h2.0		C	6.3		3000	50	15	500				13					240	140	95h	
ØV-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	KLØ	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								39h					
723A/B	KLØ	8.5	9.6		C	6.3	300	20	30	300							70						
725A	MAG		9.3		P			12k	10	44W													
726	KLØ	2.9	3.2		C	6.3	300	20	170	300							30						
K-743	KLØ	33.3	36.6		C			1800	15	10													
K-743-A	* RKY	37.5	42.9			6.3	1000	2000	22	5	400								CØ	110	49	150	
K-743-B	* RKY	33.3	37.5			6.3	1000	2000	22	8	400								CØ	110	49	150	
K-744	* RKY	27.3	33.3			6.3	1000	1800	22	10	400								CØ	110	49	150	
K-745	* RKY	23.1	27.3			6.3	1000	1800	22	10	400								CØ	110	49	150	
K-746	* RKY	18.8	23.1			6.3	1000	1500	22	10	400								CØ	110	49	150	
K-747	* RKY	16.0	18.8			6.3	1000	1200	22	15	400								CØ	110	49	150	
K-765	* RKY	7.5	7.9			6.3	1000	2400	21	15	400								CØ	103	32	300	
K-766	* RKY	7.0	7.5			6.3	1000	2400	21	15	400								CØ	103	32	300	
K-767	* RKY	6.4	7.0			6.3	1000	2400	21	15	400								CØ	103	32	300	
K-768	KLØ	57.6	66.4		C			2400	15	20													
K-769	KLØ	52.7	57.6		C			2400	15	20													
K-770	* RKY	4.3	5.3			6.3	1000	2000	21	10	400								CØ	103	32	300	
K-771	* RKY	3.6	4.3			6.3	1000	2000	21	10	400								CØ	103	32	300	
K-801	KLØ	2.4	6.1		C	6.3		250	150	100										82	29		
K-802	KLØ	2.4	6.1		C	6.3		250	150	100										82	29		
K-803	KLØ	2.4	6.1		C	6.3		250	150	100										82	29		
K-804	KLØ	2.4	6.1		C	6.3		250	150	100										82	29		
K-805	KLØ	2.4	6.1		C	6.3		250	150	100										82	29		
K-806	KLØ	2.4	6.1		C	6.3		250	150	100										32	29		
K-807	KLØ	2.4	6.1		C	6.3		250	150	100										62	29		
UV-1001	* TWT	7.4	10.1			3.2	900	350	400μ		700	5	850	25	10	4.5		900	WG	297	7	120	
UV-1002	* TWT	5.3	7.5			3.4	1000	130	100μ		800	30	550	25	9	3.0		750	WG	273	10	100	
UV-1003	* TWT	3.5	5.4			3.3	1000	100	500μ		700	25	650	25	11	3.0		650	CØ	353	27	500	
UV-1004	* TWT	2.5	3.7			3.3	1000	150	500μ		600	15	500	25	10	3.0		600	CØ	437	18	450	
UV-1005	* TWT	1.5	2.5			3.0	1000	100	1		500	30	450	25	10	3.0		500	CØ	381	22	380	
UV-1006	* TWT	0.9	1.5			3.5	1000	50	500μ		500	10	180	25	10	2.5		500	CØ	450	27	500	
UV1007	* TWT	5.0	10.3			6.3		1200	16	100					30	30		PM	WG				
UV-1008	* TWT	4.9	7.5			6.3	700	1400	6	110		100			30	30	3.0		WG	212	40	650	
UV1009	* TWT	0.9	5.0			6.3		1400	18						30	30		PM	WG				
UV-1010	* TWT	2.4	3.8			6.3	650	300	15	600	1400	100	13h	31	33	3.0		CØ	-10	33	21h		
UV-1011	* TWT	1.5	2.5			6.3	350	300	10	600	200	100	300	30	33	3.0		CØ	400	37	21h		
UV-1012	* TWT	0.9	1.5			6.3	350	300	18	600	300	50	800	30	33	4.0		CØ	400	37	21h		

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP NF	MIN K _M	MAX		FIG. NO.
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a f _t MAX MHZ			C _{ob}	r _b	
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho			dB	dB	pF	Ω	
P1A	GAP	20			5	5	30	50	10	70	E	10	1			3.3	0.90	0.1	35	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
2NT011	* TRM			<1			5										22						58
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
2NT012	* TRM			<1			5										31						58
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
2NT013	* TRM			<1			5										70						58
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
MP14B	GAP	30	30	30	20	20	15	150	3	85	E	5	1	32	500	3.3	30	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			3
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	50	E	5	1	33		2.0	20	5.0	5		20	150	3
MP20	GAP	50			20	300	1	50	150		C	25					50	1.0			20		10
MP20A	* GAP	30			20	300		50	150	3	85	E	5	25			50	2.0					17

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM			TYP. MIN.	MAX.		FIG.	
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _α	NF		K _M	C _{ob}		r _b
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho		f _T MAX MHz						
MP20B	* GAP	30		20	300		50	150	3	85	E	5	25				80	1.5						17
MP20V	* GAP	40		30	300		50	150	3	85	E	5	25				20	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
MP21D	* GAP	50		30	300		50	150	3	85	E	5	25				60	1.0						17
MP21G	* GAP	60		30	300		50	150	3	85	E	5	25				20	1.0						17
P21V	GAP	60		35	300		50	150		85	E	5	25				20	1.5						17
MP21YE	* GAP	70		35	300		50	150	3	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	300	6	75	200	5	75	E	20	13			3.5	13	0.2		20	50	160		17
MP25A	* GAP	40		40	400	6	75	200	5	75	E	20	13			3.5	20	0.2		20	50	160		17
MP25B	* GAP	40		40	400	6	75	200	5	75	E	20	13			3.5	30	0.5		20	50	160		17
MP26	* GAP	70		70	300	6	75	200	5	75	E	35	12			3.5	13	0.2		20	50	160		17
MP26A	* GAP	70		70	400	6	75	200	5	75	E	35	12			3.5	20	0.2		20	50	160		17
MP26B	* GAP	70		70	400	6	75	200	5	75	E	35	12			3.5	30	0.5		20	50	160		17
P27	* GAP	5		5	6		3	30	1	75	E	5	11			2.0	20	1.0	10			50	5k	17
P27A	* GAP	5		5	6		3	30	1	75	E	5	11			1.0	20	1.0	5			50	5k	17
P28	* GAP	5		5	6		3	30	1	75	E	5	11			1.0	20	5.0	5			50	5k	17
P29	* GAP	12	12	10	100		4	30	1	75		11	20				20	5.0				20		17
P29A	* GAP	12	12	10	100		4	30	1	75		11	20				40	5.0				20		17
P30	* GAP	12	12	10	100		4	30	1	75	E	11	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		15	150		75	E	5	1			3.3	10	0.5				60	220	17
MP36A	* GAN	15		15	20		15	150		75	E	5	1			3.3	15	1.0				60	220	17
MP37	* GAN	15		15	20		15	150		75	E	5	1			3.3	15	1.0				60	220	17
MP37A	* GAN	30		30	20		15	150	5	75	E	15	1			3.3	15	1.0				60	220	17
MP37B	* GAN	30		30	20		15	150	5	75	E	15	1			3.3	25	1.0				60	220	17
MP38	* GAN	15		15	20		15	150		75	E	5	1			3.3	25	2.0				60	220	17
MP38A	* GAN	15		15	20		15	150	5	75	E	5	1			3.3	45	2.0				60	220	17
MP39	* GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	12	0.5				60	220	17
MP39B	* GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	20	0.5	12			60	220	17
MP40	* GAP	15	5	15	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	15	5	15	150		15	150	5	85	E	5	1			3.3	30	1.0				60	220	17
MP41A	* GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	50	1.0				60	220	17
MP42	* GAP	15		15	150		25	200	5	85	E	1	10				20	1.0						17
MP42A	* GAP	15		15	150		25	200	5	85	E	1	10				30	1.0						17
MP42B	* GAP	15		15	150		25	200	5	85	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	15		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	15	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
KT104A	* SEP	30	10	30	50		1	150	12	100	E	5	1	120			9	5				5		27
KT104B	* SEP	15	10	15	50		1	150	12	100	E	5	1	120			20	5				5		27
KT104G	* SEP	30	10	30	50		1	150	12	100	E	5	1	120			15	5				5		27
KT104V	* SEP	15	10	15	50		1	150	12	100	E	5	1	120			40	5				5		27
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	12k	10
GT108A	* GAP	10		50			10	75	1	80	E	5	1			3.3	20	0.5				50	5k	9A
GT108B	* GAP	10		50			10	75	1	80	E	5	1			3.3	35	1.0				50	5k	9A
GT108C	* GAP	10		50			10	75	1	80	E	5	1			3.3	h1.1	1.0				50	5k	9A
GT108V	* GAP	10		50			10	75		80	E	5	1			3.3	60	1.0				50	5k	9A
MG108D	* GAP	10		50			75	1	85								30		3					B3
P108	GAN			10	20		11	150									20	1.0				50		10
P108A	GAN			10	20		11	150									13	1.0				50		10
GT109A	* GAP	10		6	20		5	30	1	80	E	5	1			3.3	20	1.0				30	5k	29
GT109B	* GAP	10		6	20		5	30	1	80	E	5	1			3.3	35	1.0				30	5k	29
GT1090	* GAP	10		6	20		2	30	1	80	E	5	1			3.3	20	3.0				40	5k	29
GT109G	* GAP	10		6	20		5	30	1	80	E	5	1			3.3	h1.1	1.0				30	5k	29
GT109I	* GAP	10		6	2																			

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP NF	MIN K _M	MAX		FIG. NO.
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a			C _{ob}	r _b	
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁸	μmho		f _i MAX MHz			pF	Ω	
GT109ZH	* GAP	10		6	20		1	30	<1	80	E	1	5			3.3	1h				30	5k	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	2	120	E	5	1	30	300	2.0	10	0.5			170		17
MP111A	* SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2.0	10	0.5	18		170		17
MP111B	* SAN	10	5	20	20		3	150	2	120	E	5	1	30	300	2.0	15	0.5			170		17
MP112	* SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2.0	15	0.5			170		17
MP113	* SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2	15	1.0			170		17
MP113A	* SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2.0	35	1.2			170		17
MP114	* SAP	60	10	60	10		10	150		120	E	5	1	300	60		9	0.1					17
GT115A	* GAP	20	20		30		40	50		85	E	5	25				20	1.0					9A
GT115B	* GAP	30	20		30		40	50		85	E	5	25				20	1.0					9A
GT115D	* GAP	20	20		30		40	50		85	E	5	25				1h	1.0					9A
GT115G	* GAP	30	20		30		40	50		85	E	5	25				60	1.0					9A
GT115V	* GAP	20	20		30		40	50		85	E	5	25				60	1.0					9A
MP115	* SAP	30	10	30	10		10	150		120	E	5	1	300	64		9	0.1					17
MP116	* SAP	15	10	15	10		10	150		120	E	5	1	300	114		15	0.5					17
KT117A	* SNJ	30				1A		300		125								0.5					B6
KT117B	* SNJ	30				1A		300		125								0.65					B6
KT117G	* SNJ	30				1A		300		125								0.65					B6
KT117V	* SNJ	30				1A		300		125								0.5					B6
KT118A	* S2P	15	31		50	25		100		<3	125												C2
KT118B	* S2P	15	16		50	25		100		<3	125												C2
KT118V	* S2P	15	16		50	25		100		<3	125												C2
KT120A	* SEP	60	10	60	10		<1	10		85	E	5	1				20	1			50		A2
KT120B	* SEP	30			10		<1	10		85													A2
KT120V	* SEP	60	10	60	10		<1	10		85							20	1			50		A2
GT122A	* GAP	25	35	35	20			150	5	85	E	5	1				15						13
GT122B	* GAP	25	20	20	20			150	5	85	E	5	1				15						13
GT122G	* GAP	25	20	20	20			150	5	85	E	5	1				40						13
GT122V	* GAP	25	20	20	20			150	5	85	E	5	1				30						13
GT124A	* GAP	25	10		100			75	1	85							28						27
GT124B	* GAP	25	10		100			75	1	85							45						27
GT124V	* GAP	25	10		100			75	1	85							71						27
P135	GAP	30				10	10	150		100		5	1		60	2.0	0.92	0.5	12		50		10
KT201A	* SEN	20	20	20	20		1n	150		125	E	5	1				20	50			10		41
KT201B	* SEN	20	20	20	20		1n	150		125	E	5	1				30	50			10		41
KT201D	* SEN	10	10	10	20		1n	150		125	E	5	1				30	50	10		10		41
KT201G	* SEN	10	10	10	20		1n	150		125	E	5	1				70	50			10		41
KT201V	* SEN	10	10	10	20		1n	150		125	E	5	1				30	50			10		41
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
KT202A	* SEP	15	10	15	10		1	15		70	E	5	1	100			15	+5			25		35
KT202B	* SEP	15	10	15	10		1	15		70	E	5	1	100			40	+5			25		35
KT202G	* SEP	30	10	30	10		1	15		70	E	5	1	100			40	+5			25		35
KT202V	* SEP	30	10	30	10		1	15		70	E	5	1	100			15	+5			25		35
P202E	GAP	70	35	55	2k		400	1W	300	85	E	10	200				20	0.1	30				25
KT203A	* SEP	60	30	60	10		1	150		150	E	5	1	300			9	5			10		31
KT203B	* SEP	30	15	30	10		1	150		150	E	5	1	300			30	5			10		31
KT203V	* SEP	15	10	15	10		1	150		150	E	5	1	300			15	1			10		31
P203E	GAP	70	45	55	2k		400	1W	300	85	E	10	200				20	0.2	20				25
KT206A	* SPN	20	20	20	20		1	15		85	C	1	5				30	10			20		42
KT206B	* SPN	12	12	12	20		1	15		85	C	1	5				70	10			20		42
KT207A	* SEP	60	30	60	10		50n	15	<1	85	E	5	1				9	5			10		A2
KT207B	* SEP	30	15	30	10		50n	15	<1	85	E	5	1				30	5			10		A2
KT207V	* SEP	15	10	15	10		50n	15	<1	85	E	5	1				30	5			10		A2
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
KT209A	* SPP	15	10	15	300			200	2	100	C	1	30				20	5			50		A9
KT209B	* SPP	15	10	15	300			200	2	100	C	1	30				40	5			50		A9
KT209D	* SPP	30	10	30	300			200	2	100	C	1	30				40	5			50		A9
KT209G	* SPP	30	10	30	300			200	2	100	C	1	30				20	5			50		A9
KT209I	* SPP	45	10	45	300			200	2	100	C	1	30				40	5			50		A9
KT209K	* SPP	45	10	45	300			200	2	100	C	1	30				30	5			50		A9
KT209L	* SPP	60	10	60	300			200	2	100	C	1	30				20	5			50		A9
KT209M	* SPP	60	10	60	300			200	2	100	C	1	30				40	5			50		A9
KT209V	* SPP	15	10	15	300			200	2	100	C	1	30				30	5			50		A9
KT209YE	* SPP	30	10	30	300			200	2	100	C	1	30				30	5			50		A9

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP. NF	MIN. K _M	MAX.		FIG. NO.	
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a						
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho	f ₁ MAX MHz	dB			dB	pF		Ω
KT209ZH	* SPP	45	10	45	300			200	2	100	C	1	30				20	5			50		49	
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	15	40	5A 1h	150		*12k 250	85	E	10	100					20	<0.2					25	
P213A	* GAP	45	10	30	5A	1000		10W 250	85	E	5	200					20	<0.2					25	
P213B	* GAP	45	10	30	5A	1000		10W 250	85	E	5	200					40	<0.2					25	
P214	* GAP	60	15	55	5A 1h	300		10W 250	85	E	5	200					20	<0.2					25	
P214A	* GAP	60	15	55	5A 1h	300		10W 250	85	E	5	200					50	<0.2					25	
P214B	* GAP	60	15	55	5A 1h	150		*12k 250	85	E	5	200					20	<0.2					25	
P214G	* GAP	60	10	55	5A	15H		10W 250	85	E	5	200					20	<0.2					25	
P214V	* GAP	60	10	55	5A	15H		10W 250	85	E	5	200					20	<0.2					25	
P215	* GAP	80	15	70	5A 1h	300		10W 250	85	E	5	200					20	<0.2					25	
P216	* GAP	40	15	30	75h 1h	500		30W 500	85	E	10	100					18	0.1					25	
P216A	* GAP	40	15	40	75h 1h	500		30W 500	85	E	10	100					20	0.1					25	
P216B	* GAP	35	15	35	75h	1500		P24W 500	85	E	5	1A					10	0.1					25	
P216D	* GAP	50	15	50	75h	2000		P24W 500	85	E	3	2A					15	0.1					25	
P216G	* GAP	50	15	50	75h	2500		P24W 500	85	E	3	2A					5	0.1					25	
P216V	* GAP	35	15	35	75h	2000		P24W 500	85	E	3	2A					30	0.1					25	
P217	* GAP	60	15	45	75h 1h	500		P30W 500	85	E	1	4A					15	0.1					25	
P217A	* GAP	60	15	45	75h 1h	500		P30W 500	85	E	5	1A					20	0.1					25	
P217B	* GAP	60	15	45	75h 1h	500		P30W 500	85	E	5	1A					20	0.1					25	
P217G	* GAP	60	15	50	75h	3000		P24W 500	85	E	3	2A					20	0.1					25	
P217V	* GAP	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	30	60			10		9	
KT302A	* SPN	15	4	15	10	1	100		85								1h		7				27	
KT302B	* SPN	15	4	15	10	1	100		85								90		12				27	
KT302G	* SPN	15	4	15	10	1	100		85								2h		12				27	
KT302V	* SPN	15	4	15	10	1	100		85								1h		12				27	
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	10	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	
GT305A	* GDP	15	*2	15	40	4	75	1	85	E	1	10					25	140			*6	*3h	20	
GT305B	* GDP	15	*2	15	40	4	75	1	85	E	1	10					65	160					20	
GT305V	* GDP	15	*2	15	40	4	75	1	85	E	1	10					40	180					20	
KT306A	* SPN	15	4	10	30 30	*1	150	100	C	1	10	30					20	300			5	*5h	34	
KT306B	* SPN	15	4	10	30 30	*1	150	100	C	1	10	30					40	500			5	*5h	34	
KT306D	* SPN	15	4	10	30 30	*1	150	100	C	1	10	30					30	100					*5h	34
KT306G	* SPN	15	4	10	30 30	*1	150	100	C	1	10	30					40	100			5	*5h	34	
KT306V	* SPN	15	4	10	30 30	*1	150	100	C	1	10	30					20	100			5	*5h	34	
P306	* SAN	60	6	60	400 1h	100	1000	100	120	E	10	100					7	<0.1					20	
P306A	* SAN	80	4	80	400 50	100	1000	100	120	E	10	100					5	<0.1					20	
KT307A	* SPN	10	4	10	20	500	15	*1	85	C	1	10					20	*3h			6		35	
KT307B	* SPN	10	4	10	20	500	15	*1	85	C	1	10					40	*3h			6		35	
KT307G	* SPN	10	4	10	20	500	15	*1	85	C	1	10					30	*3h			6		35	
KT307V	* SPN	10	4	10	20	500	15	*1	85	C	1	10					40	*3h			6		35	
P307	* SDN	80	3	80	30	3	250	70			20	10	70				16	20					38	
P307A	* SDN	80	3	80	30	3	250	70			20	10	70				30	20					38	
P307B	* SDN	80	3	80	15	3	250	70			20	10	70				50	20					38	
P307G	* SDN	80	3	80	15	3	250	70			20	10	70				16	20					38	
P307V	* SDN	60	3	60	30	3	250	70			20	10	70				50	20					38	
GT308A	* GAP	20	3	12	50	2	150	4	85	E	1	10	2				20	90			8	*4h	12	
GT308B	* GAP	20	3	12	50	2	150	4	85	E	1	10	2				50	120			8	*5h	12	
GT308V	* GAP	20	3	12	50	2	150	4	85	E	1	10	2				30	120			8	*5h	12	
P308	* SDN	120	3	120	15	3	250	70			20	10	70				30	20					38	
GT309A	* GDP	15	6	10	10	5	50	1	70	E	5	1	38				5.0	20			10	*5h	9	

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP	MIN		MAX		FIG.
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a		NF	K _M	C _{ob}	r _b	
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho		f _T MAX MHz				dB	dB	
GT309B	* GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	60	120	6			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	6			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		3	250		70		20	10	70			16	20						38
GT310A	* GDP	12		10	10		5	20	*1	75	E	5	1	38		3.0	20	160	3			4	*3h	29
GT310B	* GDP	12		10	10		5	20	*1	75	E	5	1	38		3.0	60	160	3			4	*3h	29
GT310D	* GDP	12		10	10		5	20	*1	75	E	5	1	38		3.0	20	80	4			5	*3h	29
GT310G	* GDP	12		10	10		5	20	*1	75	E	5	1	38		3.0	60	120	4			5	*3h	29
GT310V	* GDP	12		10	10		5	20	*1	75	E	5	1	38		3.0	20	120	4			5	*5h	29
GT310YE	* GDP	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	*h4.5	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	12	2	10	50		10	150	3	70							1h	450				*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							15	250				*3	*75	12
GT311ZH	* GDP	12	2	12	50		10	150	3	70							50	300				*3	*1h	12
KT-312A	* SPN	15	4	15	30		10	225	*3	115	E	2	20				10	h8.0				5	*5h	34
KT-312B	* SPN	30	4	30	30		10	225	*3	115	E	2	20				25	h1.2				5	*5h	34
KT312G	SPN	15		15	30			225		150								*h1.4						34
KT-312V	* SPN	15	4	15	30		10	225	*3	115	E	2	20				50	h1.2				5	*5h	34
GT313A	* GDP	15		12	10		3	100		85	E	5	5	30			20	300				*3	*75	12
GT313B	* GDP	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
KT315A	* SEN	30			30		*1	50		125	E	10	1				20	200				5	*5h	35
KT315B	* SEN	30			30		*1	50		125	E	10	1				1h	200				5	*5h	35
KT316A	* SEN	10	4	10	30	30	*1	150		100							20	*6h				3	*2h	34
KT316B	* SEN	10	4	10	30	30	*1	150		100							40	*8h				3	*2h	34
KT316D	* SEN	10	4	10	30	30	*1	150		100							60	*8h				3	*2h	34
KT316G	* SEN	10	4	10	30	30	*1	150		100							20	*6h				3	*2h	34
KT316V	* SEN	10	4	10	30	30	*1	150		100							40	*8h				3	*2h	34
KT317A	* SEN	5	*4	5	15		*2	15	*1	100	E	1	1				25	100				11		A4
KT317B	* SEN	5	*4	5	15		*2	15	*1	100	E	1	1				35	100				11		A4
KT317V	* SEN	5	*4	5	15		*2	15	*1	100	E	1	1				80	100				11		A4
KT318A	* SPN	20	*4		20		*1	30		125	E						30	430				*4		35
KT318B	* SPN	20	*4		20		*1	30		125	E						50	430				*4		35
KT319D	* SPN	20	*4		20		*1	30		125	E						50	350				*5		35
KT318G	* SPN	20	*4		20		*1	30		125	E						30	350				*5		35
KT318V	* SPN	20	*4		20		*1	30		125	E						70	430				*4		35
KT318YE	* SPN	20	*4		20		*1	30		125	E						70	350				*5		35
KT319A	* SPN	5	*4	5	15		1	100		125							15	100				11		35
KT319B	* SPN	5	*4	5	15		1	100		125							25	100				11		35
KT319V	* SPN	5	*4	5	15		1	100		125							40	100				11		35
GT320A	* GDP	20	3	12	150		10	200	4	90	E	1	10				20	80				8	*5h	16
GT320B	* GDP	20	3	12	150		10	200	4	90	E	1	10				50	120				8	*5h	16
GT320V	* GDP	20	3	9	150		10	200	4	90	E	1	10				80	160				8	*6h	16
GT321A	* GDP	60	4	50	200		500	160	4	80	E	3	500				20	60				80	*6h	13
GT321B	* G P	60	4	50	200		500	160	4	80	E	3	500				40	60				80	*6h	13
GT321D	* GDP	45	2	30	200		500	160	4	80	E	3	500				40	60				80	*6h	13
GT321G	* GDP	45	2	30	200		500	160	4	80	E	3	500				20	60				80	*6h	13
GT321V	* GDP	60	4	40	200		500	160	4	80	E	3	500				80	60				80	*6h	13
GT321YE	* GDP	45	2	30	200		500	160	4	80	E	3	500				80	60				80	*6h	13
GT322A	* GDP	45	2	30	200		500	160	4	80	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
GT322M4	* GDP	32	1	32	10	11	4	60	1	90							40	*80	9	12				C2
GT322M5	* GDP	32	1	32	10	11	4	60																

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP. MIN.		MAX.		FIG. NO.	
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _g	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _T	NF	K _M	C _{ob}	r _b		
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho	f _T MAX MHz	dB						dB
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		
GT323A	* GPN	20	2	10	1A		30	500	10	100 C		5	500				20	2h				30	*3h	12
GT323B	* GPN	20	2	10	1A		30	500	10	100 C		5	500				40	2h				30	*3h	12
GT323V	* GPN	20	2	10	1A		30	500	10	100 C		5	500				80	3h				30	*3h	12
KT324A	* SEN	10	4	10	20		1n	15		85 C		1	10				20	1G				*2		35
KT324B	* SEN	10	4	10	20		1n	15		85 C		1	10				40	1G				*2		35
KT324D	* SEN	10	4	10	20		1n	15		85 C		1	10				20	900				*2	120	35
KT324G	* SEN	10	4	10	20		1n	15		85 C		1	10				40	900				*2		35
KT324V	* SEN	10	4	10	20		1n	15		85 C		1	10				80	1G				*2		35
KT324YE	* SEN	10	4	10	20		1n	15		85 C		1	10				60	900				*2	120	35
KT325A	* SEN	15	4	10	30 30		*1	225		120 E		5	10				20	*8h				*3	*1h	36
KT325B	* SEN	15	4	10	30 30		*1	225		120 E		5	10				20	*5h				*3	*1h	36
KT325D	* SEN	15	4	10	30 30		*1	225		120 E		5	10				60	*8h				*3	*1h	36
KT325G	* SEN	15	4	10	30 30		*1	225		120 E		5	10				50	*6h				*3	*1h	36
KT325V	* SEN	15	4	10	30 30		*1	225		120 E		5	10				50	*8h				*3	*1h	36
KT326A	* SPN	20	4	15	50		*1	250		120 C		2	10				20	*4h				5	*5h	31
KT326B	* SPN	20	4	15	50		*1	250		120 C		2	10				45	*4h				5	*5h	31
GT328	GEP	15			10		10	45									10	*2k				*2	*10	13
GT328A	† GDP	25	*1	18	10		6	60	1	90 C		12	1				20	400		5		*6	C2	
GT3288	* GDP	20	*1	15	10 11		6	60	1	90 C		12	1				20	200		*1	3			C2
GT328V	* GFP	15	*1	15	10		10	50		*55 E		5	3				10	300				*2	*10	31
GT329A	* GPN	10	*1		15		5	20									15	12h		4		2	*15	37
GT329B	* GPN	10	*1		15		5	20									15	15h		5		3	*20	37
GT329V	* GPN	10	*1		15		5	20									15	20h		5		*4	*30	37
GT330A	GPN	10	*2		20		5	50	1								30	5h		5		2	*30	37
GT330B	GPN	10	*2		20		5	50	1								30	10h		5		3	*50	37
GT330D	* SPN	10	*2		20		5	50	1	55							30	50.0		8		3	*30	37
GT330ZH	* SPN	10	*2		20		5	50	1	55							30	1.0		8		3	*50	
KT331A	* SPN	15	3	15	20		200n	15	*1	135 E		5	1				20	250		*5		5	*1h	A6
KT331B	* SPN	15	3	15	20		200n	15	*1	135 E		5	1				40	250		*5		5	*1h	A6
KT331G	* SPN	15	3	15	20		200n	15	*1	135 E		5	1				40	400		*5		5	*1h	A6
KT331V	* SPN	15	3	15	20		200n	15	*1	135 E		5	1				80	250		*5		5	*1h	A6
KT332A	* SPN	15	3	15	20		200n	15	*1	125 E		5	1				20	250		8		5	*3h	A6
KT332B	* SPN	15	3	15	20		200n	15	*1	125 E		5	1				40	250		8		5	*3h	A6
KT332D	* SPN	15	3	15	20		200n	15	*1	125 E		5	1				80	500		8		5	*3h	A6
KT332G	* SPN	15	3	15	20		200n	15	*1	125 E		5	1				40	500		8		5	*3h	A6
KT332V	* SPN	15	3	15	20		200n	15	*1	125 E		5	1				80	250		8		5	*3h	A6
KT333A	* SPN	10	*4	10	45		400n	15	*1	85 E		1	10				30					*4		A3
KT333B	* SPN	10	*4	10	45		400n	15	*1	85 E		1	10				50					*4		A3
KT333D	* SPN	10	*4	10	45		400n	15	*1	85 E		1	10				50					*5		A3
KT333G	* SPN	10	*4	10	45		400n	15	*1	85 E		1	10				30					*5		A3
KT333V	* SPN	10	*4	10	45		400n	15	*1	85 E		1	10				70					*4		A3
KT333YE	* SPN	10	*4	10	45		400n	15	*1	85 E		1	10				70					*5		A3
KT336A	* SPN	10	4	10	20		500n	50	1	105 C		1	10				20	250				5		A6
KT336B	* SPN	10	4	10	20		500n	50	1	105 C		1	10				40	250				5		A6
KT336D	* SPN	10	4	10	20		500n	50	1	105 C		1	10				40	*50				5		A6
KT336G	* SPN	10	4	10	20		500n	50	1	105 C		1	10				20	450				5		A6
KT336V	* SPN	10	4	10	20		500n	50	1	105 C		1	10				80	250				5		A6
KT336YE	* SPN	10	4	10	20		500n	50	1	105 C		1	10				80	450				5		A6
KT337A	* SEN	6	4	6	30		1	150		150 E		*1	10				30	*5h				6		31
KT337B	* SEN	6	4	6	30		1	150		150 E		*1	10				50	*6h				6		31
KT337V	* SEN	6	4	6	30		1	150		150 E		*1	10				70	*6h				6		31
GT338A	* GEM	10		25	1A			100		20												2		12
GT338B	* GEM	15		25	1A			100		20												2		12
GT338V	* GEM	5			1A			100		20												2		12
KT339A	* SEN	40	4	24	25		1	250		120 E		10	7				25	*h4.5				2	*5Q	31
KT339B	* SEN	20	4	12	25		1	250		120 E		10	7				25	*h4.5				2	*25	31
KT339D	* SEN	20	4	12	25		1	250		120 E		10	7				40	*h2.5				2		31
KT339G	* SEN	20	4	12	25		1	250		120 E		10	7				15	*h4.5				2	*25	31
KT339V	* SEN	40	4	24	25		1	250		120 E		10	7				15	*h2.5				2	*50	31
KT340A	* SEP	5	3	5	50			150		85 C		1	10				1h	*3h				3	*45	34
KT340B	* SEP	20	5	20	50			150		85 C		1	10				1h	*3h				*4	*0	34
KT340D	* SEP	15	5	15	50			150		85 C		1	10				40	*3h				6	*1h	34
KT340G	* SEP	15	5	15	75			150		85 C		2	500				16	*3h				*4	*85	34
KT340V	* SEP	15	5	15	60			150		35 C		2	200				35	*3h				*4	*85	34
GT341A	* GPN	10	*1	5	10		5	35	*2	85 E		5	3	20			15	G1.5	*5			*1	*10	37
GT341B	* GPN	10	*1	5	10		5	35	*2	85 E		5	3	20			15	2G	*6			1	*10	37
GT341V	* GPN	10	*1	5	10		5	35	*2	85 E		5	3	20			15	G1.5	*6			1	*10	37

GROUP X - TRANSISTORS

TYPE NO	KIND	MAX VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP NF	MIN K _M	MAX		FIG. NO.
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a					
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho		f ₁ MAX MHz			dB	dB	
KT342B	* SEN			25 50			1	250	2 150	E		5	1				2h	*3h			8		31
KT342D	* SEN			60 50			1	250	2 150	E		5	1				50	*3h			8		31
KT342G	* SEN			15 50			*1	250	2 150	E		5	10				70	*3h			8		31
KT342V	* SEN			20 50			1	250	2 150	E		5	1				4h	*3h			8		31
KT342YE	* SEN			10 50			*1	25G	2 150	E		5	10				h1.4	*3h			8		31
KT343A	* SEN		4	17 50				150	2 150	E	*1	10					30	3h			6		31
KT343B	* SEN		4	17 50				150	2 150	E	*1	10					50	3h			6		31
KT343G	* SEN		4	17 50				150	2 150	E		1	10				20	3h			6		31
KT343V	* SEN		4	9 50				150	2 150	E	*1	10					30	3h			6		31
KT345A	* SEP	20	*4	20 200			1	100	*2 150								20	350			15		A1
KT345B	* SEP	20	*4	20 200			1	100	*2 150								50	350			15		A1
KT345V	* SEP	20	*4	20 200			1	100	*2 150								70	350			15		A1
GT346A	* GFP	15	*1	15 10			10	40	85	E	2	5					10	700	6		*2	*3	31
GT346B	* GFP	15	*1	15 10			10	40	85	E	2	5					10	550	8		*2	*4	31
GT346V	* GFP	20	*1	15 10	11		6	60	1 90	C							10	780	5 12				C2
KT348A	* SEN	5	*4	5 15			1	15	*1 100	E	1	1					25	100			11		A3
KT348B	* SEN	5	*4	5 15			1	15	*1 100	E	1	1					30	100			11		A3
KT348V	* SEN	5	*4	5 15			1	15	*1 100	E	1	1					80	100			11		A3
KT349A	* S P	20	4		40		1	200	150								20				6		12
KT349B	* S P	20	4		40		1	200	150								40				6		12
KT349V	* S P	20	4		40		1	200	150								1h				6		12
KT350A	* S P	20	4		600		1	200	150								15				15		12
KT351A	* S P	20	4		400		1	200	150								20				15		12
KT351B	* S P	20	4		400		1	200	150								50				15		12
KT352A	* S P	20	4		200		1	200	150								25				15		12
KT352B	* S P	20	4		200		1	200	150								70				15		12
KT354A	* SEN	10	4	10 10			500n	30	*1 125								40	G1.1	7		*2	*25	A6
KT354B	* SEN	10	4	10 10			500n	50	*1 125								90	G1.5			*2	*30	A6
KT355	* SEN	15	4	30 30			*1n	225	125	E	5	10	5				80	G1.8	5		*2	20	42
KT355A	* SEN	15	4	15 60			*1	225	150					10			80	G1.5			2	*60	42
KT356	* SEN	10	3	10 20			5p	100	125	E	5	10	6				80	G2.5	*5		1	20	43
KT356A	* SEN	10	3	10 40			*1	100	150	C	5	10	10				80	G1.6			*2	*20	37
KT356B	* SEN	10	3	10 40			*1	100	150	C	5	10	10				80	2G			*2	*30	37
KT357A	* SEP	6	*4	6 40			5	100	*2 120								20	300			7		49
KT357B	* SEP	6	*4	6 40			5	100	*2 120								60	300			7		49
KT357G	* SEP	20	*4	20 40			5	100	*2 120								60	300			7		49
KT357V	* SEP	20	*4	20 40			5	100	*2 120								20	300			7		49
KT358A	* SEN	15	4	15 30			10	100	*2 120	E	1	20					10	80			*5h		49
KT358B	* SEN	30	4	30 30			10	100	*2 120	E	1	20					25	120			*5h		49
KT358V	* SEN	15	4	15 30			10	100	*2 120	E	1	20					50	120			*5h		49
KT359A	* SPN	10	*4	10 20			500n	15	*1 100		1	10					30	300	6		5	*1h	A3
KT359B	* SPN	10	*4	10 20			500n	15	*1 100		1	10					50	300	6		5	*1h	A3
KT359V	* SPN	10	*4	10 20			500n	15	*1 100		1	10					70	300	6		5	*1h	A3
KT360A	* SEP	25	5	20 20			1	10	*1 120		2	10					20	300			5	*4h	A2
KT360B	* SEP	20	4	15 20			1	10	*1 120		2	10					40	400			5	*4h	A2
KT360V	* SEP	20	4	15 20			1	10	*1 120		2	10					80	400			5	*4h	A2
KT361A	* SEN	25	4	25			1	150	*2 120	E	10	1	40				20	250			9	*5h	30
KT361B	* SEN	20	4	20			1	150	*2 120	E	10	1	40				50	250			9	*5h	30
KT361D	* SEN	40	4	40			1	150	*2 120	E	10	1	40				20	250			7	*2h	30
KT361G	* SEN	35	4	35			1	150	*2 120	E	10	1	40				50	250			7	*5h	30
KT361V	* SEN	40	4	40			1	150	*2 120	E	10	1	40				20	250			7	*1h	30
KT361YE	* SEN	35	4	35			1	150	*2 120	E	10	1	40				50	230			7	*1h	30
GT362A	* GPN	5	*1	5 10			5	40	*1 85	E	3	5					10	G2.4	*5		1	*10	37
GT362B	* GPN	5	*1	5 10			5	40	*1 85	E	3	5					10	G2.4	*6		1	*20	37
KT363A	* SZP	15	4	10 30			*1	150	*2 150								20	G1.2			2	*50	31
KT363B	* SEP	15	4	10 30			*1	150	*2 150								40	G1.5			2	*75	31
KT364A	* SEP	25	5	20 200			1	30	*1 125	E	5	100					20	250			15	*5h	A2
KT364B	* SEP	25	5	20 200			1	30	*1 125	E	5	100					40	250			15	*5h	A2
KT364V	* SZP	25	5	20 200			1	30	*1 125	E	5	100					80	250			15	*5h	A2
KT366A	* SPN	15	*5	10 10			100n	15	1 100								50	1G			1	*60	A4
KT366B	* SPN	15	*5	10 20			100n	25	*2 100								50	1G			*2	*50	A4
KT366V	* SPN	15	*5	10 45			100n	50	*2 100								50	1G			*4	*40	A4
KT367A	* SEN	10	4	10 20			*1	100	150					10			40	G1.5	*5		*2	*15	43
KT368A	* SEN	15	4	15 30			*1	225	150					6			50	900	*4		*2	*15	31
KT368B	* SEN	15	4	15 30			*1	225	150					6			50	900			*2	*15	31
KT369A	* SPN	45	4	45 200			10	50	*1 85	E	2	150					20	200			15		A5
KT369A-1	* SPN	45	4	45 250			10	50	*1 85	E	2	150					20	200			15		A5
KT369B	* SPN	45	4	45 200			10	50	*1 85	E	2	150					40	200			15		A5
KT369B-1	* SPN	45	4	45 250			10	50	*1 85	E	2	150					40	200			15		A5
KT369G	* SPN	65	4	65 200			10	50	*1 85	E	3	10					40	200			10		A5

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP. NF	MIN. K _M	MAX.		FIG. NO.	
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _T						
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho	f _T MAX. MHz							
KT369G-1	* SPN	65	4	65	250		10	50	<1	85	E	3	10				40	200			10	A5		
KT369V	* SPN	65	4	65	200		10	50	<1	85	E	3	10				20	200			10	A5		
KT369V-1	* SPN	65	4	65	250		10	50	<1	85	E	3	10				20	200			10	A5		
KT370A	* SEP	15	4	10	15		500n	15	<1	125							20	1G			2	*50 A7		
KT370B	* SEP	15	4	10	15		500n	15	<1	125							40	G1.2			2	*75 A7		
KT371A	* SEN	10	3	10	15		5n	100		125	E	5	10	4			80	G4.2			<1	8 A3		
KT372A	* SEN	15	3	15	10		<1	50		150								G2.4	*4		1	*2 A5		
KT372B	* SEN	15	3	15	10		<1	50		150								3G	*6		1	*2 A5		
KT372V	* SEN	15	3	15	10		<1	50		150								G2.4	*6		1	*2 A5		
KT373A	* SEN	30	5	30	50		50n	150	<2	150	E	5	1				1h	300			8	A1		
KT373B	* SEN	25	5	25	50		50n	150	<2	150	E	5	1				2h	300			8	A1		
KT373G	* SEN	60	5	60	50		50n	150	<2	150	E	5	1				50	300			8	A1		
KT373V	* SEN	10	5	10	50		50n	150	<2	150	E	5	1				5h	300			8	A1		
KT375A	* SPN	60	5	60	100		1	200		85							10	250				B4		
KT375B	* SPN	30	5	30	100		1	200		85							50	250				B4		
GT376A	* GFP	7	<1	7	10		10	35		120							10	1G		3	<2	*10 31		
KT379A	* SPN		5	30	30		50n	25	<1	85	E	5	1				1h	250			8	A2		
KT379B	* SPN		5	25	30		50n	25	<1	85	E	5	1				2h	300			8	A2		
KT379G	* SPN		5	60	30		50n	25	<1	85	E	5	1				50	250			8	A2		
KT379V	* SPN		5	10	30		50n	25	<1	85	E	5	1				4h	300			8	A2		
KT380A	* SPP		4	17	10		1	15	<1	85	E	<1	10				30	300			6	A2		
KT380B	* SPP		4	17	10		1	15	<1	85	E	<1	10				50	300			6	A2		
KT380V	* SPP		4	9	10		1	15	<1	85	E	<1	10				30	300			6	A2		
KT382A	* SPN	15	3	10	20		500n	100		125							40	G1.8		3		A3		
KT382B	* SPN	15	3	10	20		500n	100		125							40	G1.8		<5		A3		
KT392A	* SPP	40	4	40	10		500n	120	2	85	E	5	<3				40	500			<3	A5		
KT393A	* SPP	10	4	10	10		100n	20		85	E	1	1				40	500		6	2	B5		
KT393B	* SPP	15	4	15	10		200n	20		85	E	1	1				30	500		6	2	B5		
KT394A	* SPP	45	4	45	100		500n	300	10	85	E	5	1				40	300			8	B4		
KT394B	* SPP	45	4	45	100		500n	300	10	85	E	5	1				1h	300			8	B4		
KT396A	* SPP	15	3	10	40		500n	30	<1	125	C	2	5				40	G2.1			<2	A4		
KT397A	* SPP	40	4	40	10		1	120	2	125	C	5	2				40	500			<2	A5		
P401	* GDP	10	1	10	20	10		5	100	2	85	E	5	5			5.0	16	30			10	*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
GT402D	* G P		<1	25	500		25	300	10	55	E	1	3				30							32
GT402G	* GAP		<1	40	500		25	600	10	85	E	1	3				60	<0.1						32
GT402I	* G P		<1	40	500		25	300	10	55	E	1	3				60							32
GT402V	* GAP		<1	40	500		25	600	10	85	E	1	3				30	<0.1						32
GT402YE	* G P		<1	25	500		25	300	10	55	E	1	3				60							32
GT402ZH	* G P		<1	40	500		25	300	10	55	E	1	3				30							32
P402	* GDP	10	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	600	10	85	C	5	100				20	<0.1						28
GT403B	* GAP	45	20	30	12h		50	600	10	85	C	5	100				50	<0.1						28
GT403D	* GAP	60	30	45	12h		50	600	10	85	C	5	100				50	<0.1						28
GT403G	* GAP	60	20	45	12h		50	600	10	85	C	5	100				50	<0.1						28
GT403I	* GAP	80	20	60	12h		50	600	10	85	C	5	450				50	<0.1						28
GT403IU	* GAP	45	<1	30	12h		50	600	10	85	C	5	100				30	<0.1						28
GT403V	* GAP	60	20	45	12h		50	600	10	85	C	5	100				20	<0.1						28
GT403YE	* GAP	60	20	45	12h		50	600	10	85	C	5	450				30	<0.1						28
GT403ZH	* GAP	80	20	60	12h		50	600	10	85	C	5	100				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	
GT404A	* GAN		<1	25	500		25	600	10	85	E	1	3				30	<0.1						32
GT404B	* GAN		<1	25	500		25	600	10	85	E	1	3				60	<0.1						32
GT404D	* G N		<1	25	500		25	300	10	55	E	1	3				30	1						32
GT404G	* GAN		<1	40	500		25	600	10	85	E	1	3				60	<0.1						32
GT404I	* G N		<1	40	500		25	300	10	55	E	1	3				60	1						32
GT404V	* GAN		<1	40	500		25	600	10	85	E	1	3				30	<0.1						32
GT404YE	* G N		<1	25	500		25	300	10	55	E	1	3				60	1						32
GT404ZH	* G N		<1	40	500		25	300	10	55	E	1	3				30	1						32
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
GT405A	* GAP		<1	25	500		25	600	10	85							30	1						A1
GT405B	* GAP		<1	25	500		25	600	10	85							60	1						A1
GT405G	* GAP		<1	40	500		25	600	10	85							50	1						A1
GT405V	* GAP		<1	40	500		25	500	10	85							30	1						A1
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															

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP. MIN.	MAX.		FIG. NO.		
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a						
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho		f ₁ MAX MHz	NF	K _M	C _{ob}	r _b	Ω	
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	25	50		3	100	2	85	E	5	5			5.0	20	40			8	*5h	13	
P416A	* GDP	3	20	25			3	100	2	85	E	5	5			5.0	60	60			8	*5h	13	
P416B	* GDP	3	20	25			3	100	2	85	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	
P417B	* G P	*1	8	10			3	50	2	60	E	5	5				75	200			6		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	
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	
KT501A	* SPP	16	10	15	300		350		150	C	1	30				20							B3	
KT501B	* SPP	16	10	15	300		350		150	C	1	30				40							B3	
KT501D	* SPP	30	10	30	300		350		150	C	1	30				40							B3	
KT501G	* SPP	30	10	30	300		350		150	C	1	30				20							B3	
KT501I	* SPP	45	20	45	300		350		150	C	1	30				40							B3	
KT501K	* SPP	45	20	45	300		350		150	C	1	30				80							B3	
KT501L	* SPP	60	20	60	300		350		150	C	1	30				20							B3	
KT501M	* SPP	60	20	60	300		350		150	C	1	30				40							B3	
KT501V	* SPP	16	10	15	300		350		150	C	1	30				80							B3	
KT501YE	* SPP	30	10	30	300		350		150	C	1	30				80							B3	
KT501ZH	* SPP	45	20	45	300		350		150	C	1	30				20							B3	
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		500	500	150	E	20	<1				16		*40			15	*6h	11	
P601	GDP	25	*1	25	15h		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	30	15h		100	500	65	85	E	3	<1			40		30			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		30			250	*7h	18	
P601I	* GDP	25	*1	25	15h		200	500	65	85	E	3	<1			20		*30			150	*7h	18	
KT602A	* SDN	120	5	100	75	80	70	850	20	120	E	10	10			20		150			4	*3h	33	
KT602B	* SDN	120	5	100	75	80	70	850	20	120	E	10	10			50		150			4	*3h	33	
KT602G	* SDN	30	5	70	75	80	70	850	20	120	E	10	10			50		150			4	*3h	33	
KT602V	* SDN	80	5	70	75	80	70	850	20	120	E	10	10			15		150			4	*3h	33	
P602	GDP	30	*1	30	1A		100	1W	500	35	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		*30			150	*7h	18	
P602I	* GDP	30	*1	30	15h		100	500	65	85	E	3	<1			40		*30			150	*7h	18	

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST		MAXIMUM			MINIMUM		TYP. MIN.		MAX.		FIG. NO.
		V _{CEO}	V _{EBO}	V _{CE0}	I _C	I _E	I _{CEO}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a	NF	K _M	C _{ob}	r _b	
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho		f ₁ MAX MHZ			pF	Ω	
KT603A	* SEN	30	3	30	300			10			C	2	150				10				15	*4h	13
KT603B	* SEN	30	3	30	300			10			C	2	150				60				15	*4h	13
KT603D	* SEN	10	3	10	300			1			C	2	150				20				15	*4h	13
KT603G	* SEN	15	3	15	300			5			C	2	150				60				15	*4h	13
KT603V	* SEN	15	3	15	300			5			C	2	150				10				15	*4h	13
KT603YE	* SEN	10	3	10	300			1			C	2	150				60				15	*4h	13
KT604A	SPN	300	5	250	200			50	800	25	150	E	40	20			10	*80			7		33
KT604B	SPN	300	5	250	200			50	800	25	150	E	40	20			30	*80			7		33
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	5	250	200			50	400	25	150	E	40	20			10	*80			7		18
KT605B	* SEN	300	5	250	200			50	400	25	150	E	40	20			30	*80			7		18
P605	* GDP	45	1	40	500			2m	500	65	85	E	3	500		20	20	30			130	*5h	18
P605A	* GDP	45	1	40	500			2m	500	65	85	E	3	500		40	40	30			130	*5h	18
KT606A	* SEN	60	4	60	400			2500	25	120								35.0			10	*10	42
KT606B	* SEN	60	4	60	400			2500	25	120								35.0			10	*12	42
P606	* GDP	35	*1	25	500			2m	500	65	85	E	3	500		20	20	30			130	*5h	18
P606A	* GDP	35	*1	25	500			2m	500	65	85	E	3	500		40	40	30			130	*5h	18
KT607	* SEN	40	4	35	150			1n	1500	14	150							700			4		46
KT607A	* SPN	40	4	35	150			1m	1500	14	85							700			4		46
KT607B	* SPN	30	4	30	150			1m	1500	14	85							700			4		46
P607	* GDP	30	*2	25	300			300	1500	65	85	E	10	100			20	*60			50	*2h	18
P607A	* GDP	30	*2	25	300			300	1500	65	85	E	10	100			60	*60			50	*2h	18
KT608A	* SEN	60	4	60	400			10	500	*2h	120	E	5	200			20	20.0			15		13
KT608B	* SEN	60	4	60	400			10	500	*2h	120	E	5	200			40	20.0			15		13
P608	* GDP	30	*2	25	300			300	1500	65	85	E	10	100			40	90			50	*2h	18
P608A	* GDP	30	*2	25	300			300	1500	65	85	E	10	100			30	90			50	*2h	18
P608B	GDP	50	*2	40	300			300	1500	65	85	E	10	100			40	90			50	*2h	18
P609	* GDP	30	*2	25	300			300	1500	65	85	E	10	100			40	120			50	*2h	18
P609A	* GDP	30	*2	25	300			300	1500	65	85	E	10	100			80	120			50	*2h	18
P609B	GDP	50	*2	40	300			300	1500	65	85	E	10	100			80	120			50	*2h	13
KT610A	* SEN	20	4	20	300			500n	1500	150	E	10	150				50	1G			4	*75	39
KT610B	* SEN	20	4	20	300			500n	1500	150	E	10	150				20	700			4	*25	39
KT611A	* SEN	200	3	180	100			200	800	65	150	E	40	20			10	6.0			5	*2h	33
KT611B	* SEN	200	3	180	100			200	800	65	150	E	40	20			30	6.0			5	*2h	33
KT611G	* SEN	180	3	150	100			200	800	65	150	E	40	20			30	6.0			5	*2h	33
KT611V	* SEN	180	3	150	100			200	800	65	150	E	40	20			10	6.0			5	*2h	33
QT612A	* GPN	12	*1	120				10	570	7	100							G1.5			4	*7	46
KT616A	* SEN	20	4	20	400			15	300	4	150						40	200			15		41
KT616B	* SEN	20	4	20	400			15	300	4	150						25	200			15		41
KT617A	* SEN	30	4	20	400			5	500	5	150						30	150			15		36
KT618A	* SPN	300	5	250	100			500	5	150							30	40			7		36
KT620A	* SPN	50	3	50				225	*3	85	E	10	10				1n						86
KT620B	* SPN	50	4	40				10	500	7	85	E	5	200			30	200					86
KTS622A	* SPP	45	4	600				400	5	70	E	5	200				25	200					63
KTS622B	* SPP	35	4	800				400	5	70	E	5	200				10	150					63
KT650A	* SPN	50	3	50	50			1	310	85	E	10	1				1n	40					27
KINT661A	* TRM	300		250	10			100									5						51
GT701A	* GAP		15	55	12A			5000	50W	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	60	3	80	2A			5000	40W	400	120	C	10	1A			25	4.0					21
P702A	* SDN	60	3	80	2A			2500	40W	400	120	C	10	1A			10	4.0					21
GT703A	* GAP		30	35h				100	15W	300	85	C	1	100			30	*0.1					21
GT703B	* GAP		30	35h				100	15W	300	85	C	1	100			50	*0.1					21
KT704A	* SPN		4	500	25h			5m	15W	*1	85	C	15	1A			10	3					A8
KT704B	* SPN		4	400	25h			5m	15W	*1	85	C	15	1A			10	3					A8
KT704V	* SPN		4	400	25h			5m	15W	*1	85	C	15	1A			10	3					A8
GT705A	* G N		20	35h				500	15W	*1	85	C	15	1A			30						39
GT705B	* G N		20	35h				500	15W	*1	85	E	1	50			50						39
GT705D	* G N		20	35h				500	15W	*1	85	E	1	50			90						39
GT705G	* G N		30	35h				500	15W	*1	85	E	1	50			50						39
GT705V	* G N		30	35h				500	15W	*1	85	E	1	50			30						39
KT801A	* SDN		*3	80	2A			10m	5W	50	150	E	5	1A			13	*10					33
KT801B	* SDN		*3	80	2A			10m	5W	50	150	E	5	1A			20	*10					33
KT802A	* SPN	150	3	130	5A			60m	50W	400	150	C	10	2A			15	*10					21
KT803A	* SPN		4	60	10A			5m	20W	150							10	*20					21
GT804A	GDN		45	10A				10m	15W	65							20	10					13

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM							TEST			MAXIMUM			MINIMUM		TYP. MIN.	MAX.	FIG.	
		V _{CB0}	V _{EB0}	V _{CE0}	I _C	I _E	I _{CB0}	P _C	K _θ	T _A	COMMON	V _C	I	h ₁₁	h ₁₂	h ₂₂	h ₂₁	f _a					
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10 ⁻⁵	μmho		f _t MAX MHz	NF dB				K _M dB
GT804B	GDN			55	10A		10m	15W		65							20	10					18
GT804V	GDN			75	10A		10m	15W		65							20	10					18
KT805A	• SDN		5	160	5A		60m	30W	300	150	C	10	2A				15	20					21
KT805B	• SDN		5	135	5A		60m	30W	300	150	C	10	2A				15	20					21
GT806A	• GAP	75	*2		20A		12m	30W	500	85							10	10					21
GT806B	• GAP	100	*2		20A		12m	30W	500	85							10	10					21
GT806V	• GAP	120	*2		20A		12m	30W	500	85							10	10					21
KT807A	• SEN		4	100	500		5m	10W	120	120							15	5					43
KT807B	• SEN		4	100	500		5m	10W	120	120							30	5					43
KT808A	• SEN		4	120	10A		3m	50W		100							10	7		500			21
KT809A	• SPN		4	400	35h		3m	40W	400	150							15	5					23
KT813A	• SPN	60	4	50	400		10	800	16	120	E	5	200				25	200		15			C1
KT813B	• SPN	60	4	50	400		10	800	16	120	E	5	200				40	200		15			C1
KT813G	• SPN	40	4	30	400		10	800	16	120	E	5	200				50	200		15			C1
KT813V	• SPN	40	4	30	400		10	800	16	120	E	5	200				20	200		15			C1
KT902A	SDN	65	5	110	5A		10m	P30W		120							15	*35					21
KT903A	SPN	60	4	60	3A		10m	30W	300	115							15	*1h		180			21
KT903B	• SPN	60	4	60	3A		10m	30W	300	115							40	*1h		180			21
KT904A	• SPN	60	4	60	800		1500	5W	60	120								*3h		12	15n		42
KT904B	• SPN	60	4	60	800		1500	5W	60	120								*3h		12	20n		42
GT905A	• G P	75		75	3A			6W	20	85													41
GT905B	• G P	60		60	3A			6W	20	85													41
GT906A	• G P	75	*2	75	10A			15W	*1	17	S						30						B7
KT907A	• SPN		4	60	1A		3m	*14W	60	120								*3h		20	15n		42
KT907B	• SPN		4	60	1A		3m	*14W	60	120								*3h		20	25n		42
KT908A	• SPN		5	100	10A		25m	50W	500								8	*50					21
KT908B	SPN		5	60	10A		50m	50W		150							20						21
KT909								1W										G1.8					
KT909A	• SEN	60	*4	60	2A		30	27W			C	10	3				*4	350		30	*20		47
KT909B	• SEN	60	*4	60	4A		60	54W			C	10	3				5	500		60	*20		47
KT909G	• SEN	60	*4	60	4A		60	54W			C	10	3				*5	450		60	*30		47
KT909V	• SEN	60	*4	60	2A		30	27W			C	10	3				3	300		35	*30		47
KT911								1W										G1.8					
KT911A	• SEN	55	3	40	400		5	3W	30		C	10	100				*3	1k		10	*25		48
KT911B	• SEN	55	3	40	400		5	3W	30		C	10	100				2	800		10	*25		48
KT911G	• SEN	40	3	30	400		10	3W	30		C	10	100				2	800		10	*1h		46
KT911V	• SEN	40	3	30	400		5	3W	30		C	10	100				*3	1k		10	*50		48
KT912A	• SPN		5	70	20A		50m	30W	400	150							10	90					A9
KT912B	• SPN		5	70	20A		50m	30W	400	150							20	90					A9
KT913A	• SEN		*4	55	10h			3W	50	150							9	1k.*		6			39
KT913B	• SEN		*4	55	16h			5W	100	150							9	1k.*		10			39
KT913V	• SEN		*4	55	22h			10W	100	150							9	1k.*		12			39
KT916A	• SEN		*4	55	40h			20W	220	160							9	1k.*		20			39
KT917A	• SPN	150	5	150	10A		20m	50W	500	150								50					23
KT918A	• SPN	30	*3		200		2m	2500	20	150							8	800		*5	*15		B1
KT918B	• SPN	30	*3		200		2m	2500	20	150							10	1G		*5	*4		B1
KT919A	• SPN	45	*4		700		10m	10W	80	150							5	G1.5		10	*2		B2
KT919B	• SPN	45	*4		350		5m	5W	40	150							5	G1.5		*7	*2		B2
KT919G	• SPN	45	*4		700		10m			150													B2
KT919V	• SPN	45	*4		200		2m	5W	25	150							5	G1.5		*5	*2		B2
KT927A	• SPN	70	*4	35	10A				*1	150	C	6	5A				15						B8
KT927B	• SPN	70	*4	35	10A				*1	150	C	6	5A				25						B8
KT927V	• SPN	70	*4	35	10A				*1	150	C	6	5A				40						B8
K1NT981	• TRM	20	5	15	10		100n	20									20						65
KT3102A	• SEN	50	5	50	100			250	2	100	E	5	1				Un		10		6		B3
KT3102B	• SEN	50	5	50	100			250	2	100	E	5	1				2h		10		6		B3
KT3102D	• SEN	30	5	30	100			250	2	100	E	5	1				2h		4		6		B3
KT3102G	• SEN	20	5	20	100			250	2	100	E	5	1				4h		10		6		B3
KT3102V	• SEN	30	5	20	100			250	2	100	E	5	1				2h		10		6		B3
KT3102YE	• SEN	20	5	20	100			250	2	100	E	5	1				4h		4		6		B3
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

GROUP X - TRANSISTORS

TYPE NO.	KIND	MAX. VOLTAGE			MAXIMUM						TEST			MAXIMUM			MINIMUM		TYP. MIN.		MAX.		FIG. NO.
		V_{CB0}	V_{EB0}	V_{CE0}	I_C	I_E	I_{CB0}	P_C	K_θ	T_A	COMMON	V_C	I	h_{11}	h_{12}	h_{22}	h_{21}	f_a	NF	K_M	C_{ob}	r_b	
		V	V	V	mA	mA	μA	mW	mW/°C	°C		V	mA	Ω	10^{-5}	μmho		f _T MAX MHz					
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
S3C	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
S4C	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

X-A-1 INTEGRATED CIRCUITS

TYPE NO.	KIND	NO.		LOGIC	VOLTAGE			CURRENT		MAX. P	FREQ.		INPUT	dB	FAN		DR.				
		DIODES	XISTERS		SUPPLY	IN LOGIC	OUT LOGIC	IN mA	OUT μ A		MIN. Hz	MAX. Hz	RES		IN	OUT		MAX. TIME	NO.		
													OHMS							MAX. GAIN	MAX. TIME
1KT241A,B		2										1 2					54				
1LB0610	NDR	6	TTL		5.0	0.25	2.3			7					4	10	110	51			
1LB101	NDR	6	RTL		3.0		2.4			13						5	450	51			
1LB111	NOR	2	RTL		4.0	0.2	0.95	1h		<1						4	400	62			
1LB144A	NOR	8	RTL		4.0	0.15	0.95			2						4	500	58			
1LB144B	NOR	8	RTL		4.0	0.15	0.95			2						4	500	58			
1LB145A	NOR	8	RTL		4.0	0.15	0.95			2						10	500	58			
1LB145B	NOR	8	RTL		4.0	0.15	0.95			2						10	500	58			
1LB146A	NOR	10	RTL		4.0	0.15	0.95			2						50	500	53			
1LB146B	NOR	10	RTL		4.0	0.15	0.95			2						50	500	58			
1LB211A	NDR	5	2	DTL	5.0	0.35	2.5			12						6	12	35	53		
1LB211B	NDR	5	2	DTL	5.0	0.35	2.5			12						6	10	35	53		
1LB211G	NDR	5	2	DTL	5.0	0.35	2.5			12						6	5	35	53		
1LB211V	NDR	5	2	DTL	5.0	0.35	2.5			12						6	8	35	53		
1LB212A	NDR	4	4	DTL	5.0	0.4	2.5			19						6	20	50	53		
1LB212B	NDR	4	4	DTL	5.0	0.4	2.5			19						6	16	50	53		
1LB251	MND	6	16	DTL	27.0		15			17			10 7			5	10	4k	51		
1LB331A	MND	2	8	TTL	5.0	0.4	2.4			20						4	10	22	51		
1LB331B	MND	2	8	TTL	5.0	0.4	2.4			20						4	10	35	51		
1LB332A	MND	1	4	TTL	5.0	0.4	2.4			20						3	10	25	51		
1LB332B	MND	1	4	TTL	5.0	0.4	2.4			20						8	10	35	51		
1LB341	NOR			TTL	5.0					2						10	100	51			
1LB391	ONR	6		TTL	5.0					40						9	15	10	51		
1LB392	ONR	6		RTL	5.0					40						9	15	10	51		
1LB471	MNR	6	16	DTL	12.6	2.0	13.9			25						10			51		
1LB472	MNR	8	15	DTL	12.6	2.0	14			45			10 6			10	1k	51			
1LI041	AND	3			6.3					6									51		
1LI042	AND	4			6.3					6									51		
1LI043	AND	5			6.3					6									51		
1LI044	AND	8			6.3					6									51		
1LI045	AND	10			6.3					6									51		
1LL201	MOR	14		TTL	12.6	4.0	13			8						10	80C	51			
1LP063	OR	3		TTL	5.0											6		6	51		
1LP064	OR	3		TTL	5.0											6		10	51		
1LP067	OR	4		TTL	5.0											3		6	51		

X-A-1 INTEGRATED CIRCUITS

TYPE NO.	KIND	NO.		LOGIC	VOLTAGE			CURRENT		MAX P	FREQ.		INPUT RES		FAN	MAX. TIME	DR. NO.			
		DIODES	XISTERS		SUP- PLY V	IN LOGIC V	OUT LOGIC V	IN mA	OUT μA		MIN Hz	MAX Hz	OHMS					MAX GAIN dB	IN	OUT
													NO.	EXP.						
1LP068	OR		4	TTL	5.0										3	10	51			
1LP131A	HAD		8	RTL	4.0	0.2	0.78	1h	4							4	400	51		
1LP131B	HAD		8	RTL	4.0	0.2	0.78	2h	8							4	300	51		
1LP131V	HAD		8	RTL	4.0	0.2	0.78	3h	4							4	200	51		
1LP141	OR		8														500	58		
1LP142	OR		8		4.0	0.15	0.95		2							4	500	58		
1LP201	MOS		8						12									51		
1LP211*		6			25				12								5	53		
1LP251	MOS	8	8		27				17								6	51		
1LP391			6												6			51		
1LP421	MOS		10						2							15		51		
1LP471	MOS	8	18	TTL	12.6	2.0	14		25			10	6			10	14	51		
1LR063	ADR		7	TTL	5.0	0.3	2.3		24							4	10	45	51	
1LR064	ADR		7	TTL	5.0	0.25	2.3		10							4	10	110	51	
1LR271	ADR	7	1	DTL	3.0				30		12M					4	6	30	51	
1LR331A	ADR	2	12	DTL	5.0	0.4	2.4		20							10	28	51		
1LR331B	ADR	2	12	DTL	5.0	0.4	2.4		20							4	10	40	51	
1LR341	ADR			DTL	5.0				2								10	100	51	
1LR342	ADR			DTL	5.0				2								10	100	51	
1LR421	MOS		15	TTL	12.6	3.0	10		36							15	30	500	51	
1LS271	ADR	7	2	DTL	3.0				30		12M					4	6	30	51	
1MA191A,B	AGC		4	RTL	6.3	0.5					2hk								51	
1ND041		3			4.5	0.85													51	
1ND042		4			4.5	0.85													51	
1ND043		6			4.5	0.85													51	
1ND044		8			4.5	0.85													51	
K1NT291A	DMP		2					10	15					60				62A		
K1NT291B	DMP		2					10	15					90				62A		
K1NT291D	DMP		2					10	15					60				62A		
K1NT291G	DMP		2					10	15					3h				62A		
K1NT291I	DMP		2					10	15					3h				62A		
K1NT291V	DMP		2					10	15					2h				62A		
K1NT291YE	DMP		2					10	15					90				62A		
K1NT291ZH	DMP		2					10	15					2h				62A		
K1NT591A	DMP		2			10.0			50					60				54		
K1NT591B	AMP		2			10.0			50					1h				54		
K1NT591D	AMP		2			10.0			50					60				54		
K1NT591G	AMP		2			10.0			50					3h				54		
K1NT591I	AMP		2			10.0			50					3h				54		
K1NT591V	AMP		2			10.0			50					2h				54		
K1NT591YE	AMP		2			10.0			50					1h				54		
K1NT591ZH	AMP		2			10.0			50					2h				54		
1PP191		4	TTL	10.0				10	10		20	2M	15	2					51	
1SV191	AMP	2	2	RTL	6.3	6.3	0.25	43				5hk							51	
1TK191A,B	SWI	3	2	DTL	5.0	4.6	3.5	8								4			51	
1TK251	MOS	6	18	TTL	27.0	2.0	15		17				1	7		5	10	4	51	
1TK471	MOS	8	22	TTL	12.6	2.0	14		15					7					51	
1TR063	ADR		10	TTL	5.0	0.3	2.3		36							2	10	40	51	
1TR064	ADR		10	TTL	5.0	0.3	2.3		14							2	10	100	51	
1TR421	MOS		22	TTL	12.6	3.0	10		40									500	51	
K1TSH181A	FLP		4	RTL	3.0		3.0	20μ											63	
K1TSH181B	FLP		4	RTL	4.0		4.0	40μ											63	
K1TSH181D	FLP		4	RTL	6.3		6.3	20μ											63	
K1TSH181G	FLP		4	RTL	6.3		6.3	40μ											63	
K1TSH181V	FLP		4	RTL	4.0		4.0	20μ											63	
1TSH191	SCH		4	RTL	3.0	1.5	2.0	4				1hk	8	2					51	
K1UB181A	AMP		4	RTL	6.3									900					63	
K1UB181B	AMP		4	RTL	6.3									13h					63	
K1UB181G	AMP		4	RTL	12.6									20h					63	
K1UB181V	AMP		4	RTL	12.6									15h					63	
1UB191	AMP		2		6.3	1.0	3.0	6					1	3	5			500	51	
1UE201	MXP		26		12.6	4.0	13		70								10	800	51	
K1US181A	AMP		2	RTL	6.3									250					63	
K1US181B	AMP		2	RTL	6.3									400					63	
K1US181D	AMP		2	RTL	12.6									300					63	
K1US181G	AMP		2	RTL	12.6									300					63	
K1US131V	AMP		2	RTL	12.6									350					63	
K1US182A	AMP		3	RTL	4.0									15					63	
K1US182B	AMP		3	RTL	6.3									25					63	
K1US182V	AMP		3	RTL	6.3									40					63	

X-A-1 INTEGRATED CIRCUITS

TYPE NO.	KIND	NO.		LOGIC	VOLTAGE			CURRENT		MAX P	FREQ.		INPUT RES	dB	FAN		MAX. TIME	DR. NO.	
		DIODES	XISTERS		SUPPLY V	IN LOGIC V	OUT LOGIC V	IN mA	OUT μA		MIN. HZ	MAX. HZ	OHMS		IN	OUT			
													NO. EXP.						
1US191	AMP		1		6.3	0.3	0.75	1				5	1hk	5	3			51	
1US192	AMP		2		6.3	0.5	0.8	13				5	1hk		10			51	
1US221A	AMP		2		6.3		3.8					0	7hk		8h			53	
1US221B	AMP		2		6.3		3.8					0	7hk		1k			53	
1US221D	AMP		2	RTL	12.6		9.6							15	2	2k		53	
1US221G	AMP		2	RTL	12.6		9.6							15	2	1k		53	
1US221V	AMP		2		12.6		9.6					0	7hk		1k			53	
1US222A	AMP		3		4.0	0.1						0	8M	1	3	40		53	
1US222B	AMP		3		6.3	0.1						0	8M	1	3	60		53	
1US222V	AMP		3		6.3	0.05						0	8M	1	3	90		53	
1US231A	LFA		8	RTL	6.3	0.5		15		100	20	1hk	10	3	5h			51	
1US231B	LFA		8	RTL	6.3	0.5		15		100	20	1hk	10	3	3h			51	
1US231V	LFA		8	RTL	6.3	0.5		15		100	20	1hk	10	3	1h			51	
1US481	AMP		5		3.0					50		50M						53	
K1US671	MMP		3		12.0			5		60		1hk			13h			54	
K1US731A,B	LFA		15		12.6							20k	10	3	2h			53	
K1US731V	LFA		15		12.6							20k	10	3	80			53	
1US732A,B	LFA		8	RTL	12.6						30	20k	1	3	50			53	
1US732V	LFA		8	RTL	12.6						30	20.	1	3	20			53	
1US771	AMP	5	6	RTL	12.6			7				40	3	1h				51	
K1UT181A	AMP		4	RTL	4.0			10μ							15			63	
K1UT181B	AMP		4	RTL	6.3			10μ							22			63	
K1UT181V	AMP		4	RTL	6.3			20μ							22			63	
1UT191	AMP		2	RTL	6.3	0.3	0.7	2			5	2hk	15	2	4			51	
1UT221A	AMP		4	RTL	4.0	2.0		10			0	2M	6	3	26			53	
1UT221B	AMP		4	RTL	4.0	6.3	3.0	10			0	2M	6	3	40			53	
1UT221G	AMP		4		6.3						0	2M		22				53	
1UT221V	AMP		4	RTL	6.3	3.0		1			0	2M	3	3	40	15		53	
1UT321	AMP		24		12.6					12C	0	2M	15	4				53	
1UT321A	OPA	1	9	DTL	6.3			6					4	3	4k			63	
1UT321B	OPA	1	9	DTL	12.6			12					4	3	10k			63	
1UT322A,B	OPA	1	24	DTL	12.6		10.0	8					1hk					63	
1UT771	AMP	2	5	DTL	6.3			3					40					51	
1UYE191	AMP		4		3.0	1.5	0.6	12			20	5hk	30	3				51	
2DA181	DET	1	1	DTL	6.3					14		10k					4μ	57	
2DA351	AMP	3	3	RTL	6.3					15	5hk	25M	5	2				55	
2DS191	LIM		4		5.0						500	1M						55	
K2DS241	DET		2	RTL														65	
2DS351	DET	3	3	RTL	6.3					30	5hk	25M	5	2	30			55	
2FP201	FIL																	55	
2GF131	MVB	6	2		63.0					86	50	6hk					4μ	57	
2GF182	MVB	6	2		6.3	6.0	2.8			76		2hk					300	57	
2GF201	MVB		2		7.5			2										55	
2GS191	OSC		1		5.0			2				70M						55	
2GS192	OSC		1		5.0			2				15M						55	
2GS193	OSC		1		5.0			2				15M						55	
K2GS371	REG		5	RTL	9.0			30		300								63	
2IL071			16		3.0	0.35	0.65			18						3	200	60	
2IL072			16		3.0	0.35	0.65			18						4	200	60	
2IL073			16		3.0	0.35	0.65			18						5	200	60	
2IR111			12	TTL	3.0	0.35	0.8			35						4	400	56	
2IR112			12	TTL	3.0	0.35	0.8			35						6	400	56	
2IYE111			15		3.0	0.35	0.8			30						3	300	56	
2IYE112			15		3.0	0.35	0.8			30						5	300	56	
2KD231	COM	8	2	DTL	6.3		1.7			100							20	57	
2KD282	COM	14		RDL	6.3		1.25	13									20	57	
2KD351	COM	3		RTL	6.3			13		20								55	
K2KT241	COM		6	RTL	12.0			15				6M						65	
2KT231	SWI	8	2	DTL	6.3	0.5	2.5										20	57	
2LB071	NOR		12	RTL	3.0	0.35	0.65			18						6	3	200	60
2LB072	NOR		12	RTL	3.0	0.35	0.65			18						6	4	200	60
2LB073	NOR		12	RTL	3.0	0.35	0.65			18						6	5	200	60
2LB074	NOR		16	RTL	3.0	0.35	0.65			19						6	3	200	60
2LB075	NOR		16	RTL	3.0	0.35	0.65			19						6	4	200	60
2LB076	NOR		16	RTL	3.0	0.35	0.65			19						6	5	200	60
2LB111	NND		16	RTL	3.0	0.35	0.8									10	3	400	56
2LB112	NND		16	RTL	3.0	0.35	0.8			19						10	4	400	56
2LB113	NND		16	RTL	3.0	0.35	0.8			19						10	6	400	56
2LB114	NND		10	RTL	3.0	0.35	0.3			25						10	3	400	56
2LB115	NND		10	RTL	3.0	0.35	0.8			25						10	4	400	56

X-A-1 INTEGRATED CIRCUITS

TYPE NO.	KIND	NO.		LOGIC	VOLTAGE			CURRENT		MAX P	FREQ.		INPUT RES		MAX GAIN dB	FAN		MAX. TIME ns	DR. NO.
		DIODES	XISTERS		SUP- PLY V	IN LOGIC V	OUT LOGIC V	IN mA	OUT μA		MIN Hz	MAX Hz	OHMS	EXR		IN	OUT		
2LB116	NND	10	RTL	3.0	0.35	0.8				25						10	6	400	56
2LB117	NND	9	RTL	3.0	0.35	0.8				40						10	3	400	56
2LB118	NND	9	RTL	3.0	0.35	0.8				40						10	4	400	56
2LB119	NND	9	RTL	3.0	0.35	0.8				40						10	6	400	56
2LB1110	NOR	8	RTL	3.0	0.35	0.8				35						10	3	250	56
2LB1111	NOR	8	RTL	3.0	0.35	0.8				35						10	4	250	56
2LB1112	NOR	8	RTL	3.0	0.35	0.8				35						10	6	250	56
2LB172	NND	10	2 DTL	6.0	0.3	2.6				24						3	4	25	59
2LB181		3	1 DTL	6.3	6.0	3.5				49	600	1M						5hμ	57
2LB211		10	1	4.0				7		15									57
2LB232B	NOR	20		4.0	1.45	0.85				112						4	10	15	64
2LL231		20	TTL	4.0	1.45	0.85				112						4	10	15	64
2LNG52	NND	8	RTL	4.0	0.3	1.4				25							2	250	61
2LN111	NND	5	RTL	3.0	0.35	0.8				35						10	3	500	56
2LN112	NND	5	RTL	3.0	0.35	0.8				35						10	4	500	56
2LN113	NND	5	RTL	3.0	0.35	0.8				35						10	6	500	56
2LN114	NND	5	RTL	3.0	0.35	0.8				40						10	3	250	61
2LN115	NND	5	RTL	3.0	0.35	0.8				40						10	4	250	61
2LN116	NND	5	RTL	3.0	0.35	0.8				40						10	6	250	61
2LN181	INV	3	RTL	6.3	6.0	4.0				<1						3			57
2LN182	INV	2	3 RTL	6.3	6.0	4.0				28						3			57
2LN183	INV	1	3 RTL	6.3	4.0	4.0				28						3			57
2LN211	NOR	6		4.0	0.3	2.5				50						4			57
2LR221	AND	8	3 DTL	4.0	0.3	2.3				25						10	10	250	57
2LS027	ADR	8	2 DTL	4.0	0.33	1.35				21						8	3	50	58
2LS028	ADR	8	2 DTL	4.0	0.33	1.35				21						8	5	50	58
2LS211		8		10.0					2										57
2MP351	MOD	4	RTL			0.03													55
2MS191		2		5.0				<2			300	34h							55
2MS192		3		5.0				<3			300	34h							55
2NK281		4		6.3				5											57
2NS191A		4		5.0				<3			14M								55
2NS191B		4		5.0				<3			14M								55
2NT191		5		5.0															55
2NYE281				15.0															57
2PD281	CN	14		6.3	1.0					50									57
2PD282	CN	14		6.3	1.0					50									57
2PM351	AMP	3	3 RTL	6.3		2.0				30	800k	2M	5	3					55
2PN381	AGC	12	RTL																55
K2PP241	REG	2	RTL					4											65
2PP351	AGC	4	1 RTL	6.3	2.5					20									55
2PS351	CN	7	DTL	6.3						35		40M	5	2					55
2SV381	AMP	11	RTL			11.3													55
2TK181	FLP	3	6 DTL	6.3	6.0	4.0				21		2M				4	300		57
2TR071		16		3.0	0.35	0.65				10						3	200		60
2TR072		16		3.0	0.35	0.65				10						4	200		60
2TR073		16		3.0	0.35	0.65				10						5	200		60
2TR111	NOR	12	RTL	3.0	0.35	0.8				35						3	500		56
2TR112	NOR	12	RTL	3.0	0.35	0.8				35						4	500		56
2TR113	NOR	12	RTL	3.0	0.35	0.8				35						6	500		56
2TR114	NOR	8	RTL	3.0	0.35	0.8				20						2	400		56
2TR115	NOR	8	RTL	3.0	0.35	0.8				20						3	400		56
2TR116	NOR	8	RTL	3.0	0.35	0.8				20						5	400		56
2TR164	FLP	8	RTL	3.0	0.30	2.3				25						6	500		56
2TR172		14	2 DTL	3.0	0.3	2.6				40		6M				5			59
2TR211	FLP	6	3	4.0		2.7				25								1M	57
K2UB241	AMP	3	RTL	12.0				15				6M		>2					65
2UE181	EMF	1	RTL	6.3	4.0					7			3	3					57
2UE182	EMF	1	RTL	6.3	0.8					33			3	3				100	57
2UI071	AMP	12	TTL	3.0	0.35	0.65				14						1	20	200	60
2UI111	AMP	10	TTL	3.0	0.35	0.85				30								300	56
2UI181	AMP	1	RTL	6.3	1.0					22	60	1M	3	2	3			500	57
2UI182	AMP	2	RTL	6.3	1.0					31	250	4M	6	2	3			500	57
2UI183	AMP	2	RTL	6.3	0.25					48			8	2	3			500	57
2UN021		2	5	4.0	0.33	1.35				28						3	210		58
2UN022		2	5	4.0	0.33	1.35				28						5	210		58
K2UP241	MIX	3	RTL	9.0				<4			30M	1M							65
2US181	AMP	2	RTL	6.3						62	22M	37M			7				57
2US191A	AMP	2		5.0				<3			44M	50M			35				55
2US191B	AMP	2		5.0				<3			44M	50M			70				55

X-A-1 INTEGRATED CIRCUITS

TYPE NO.	KIND	NO.		LOGIC	VOLTAGE			CURRENT		MAX P	FREQ.		INPUT RES		MAX GAIN dB	FAN		MAX. TIME ms	DR. NO.	
		DIODES	XISTERS		SUP- PLY V	IN LOGIC V	OUT LOGIC V	IN mA	OUT μA		mW	MIN Hz	MAX Hz	OHMS		EXP.	IN			OUT
2US192	AMP	3		5.0			<2			5hk	1M			6h				55		
2US193	AMP	2		5.0			<2			300	34h			2h				55		
2US194	AMP	2		5.0			<2			300	34h							55		
2US201	AMP	6		7.5			4			500	3k	7	3	1k				55		
2US202	AMP	1	1	7.5			<2			40k	1hk							55		
K2US241	AMP	2	RTL	12.0			4					2	2					65		
K2US242	AMP	1	RTL	9.0						1hk	30M	2	2					65		
K2US243	AMP	1	RTL	9.0			<2					15	1					65		
K2US244	LFA	4	RTL	9.0			6					20	3	1h				65		
K2US245	LFA	5	RTL	12.0			<6					15	3	1h				65		
K2US246	AMP	3	RTL	12.0			8			30M	45M							65		
K2US247	LFA	2	RTL	12.0			28			30M	45M							65		
K2US248	LFA	3	RTL	12.0			15			4M	10M							65		
K2US249	LFA	1	RTL	12.0			4			5hk	50M							65		
2US281	AMP	1	RTL	6.3			4		70			2	2					57		
2US282	AMP	3	RTL	6.3			5		70			2	2					57		
2US283	AMP	2	RTL	6.3			5		70			2	2					57		
2US284	AMP	2	RTL	6.3			5		85			4	2					57		
2US285	AMP	6	3	6.3	1.4	2.3			65									57		
2US351	AMP	2	3	DTL	6.3				20	150M	5	1	5					55		
2US352	AMP	4	RTL	6.3		1.5			17	5hk	25M	5	2	1h				55		
2US353	AGC	4	4	DTL	6.3	0.6			30	5hk	25M	2	3	70				55		
2US354	LFA	1	6	DTL	6.3				16	5	10M	4	3	20				55		
2US355	LFA	4	DTL	6.3					14	20	20k	4	3	4h				55		
2US356	AMP	2	2	DTL	6.3				32			18	2	10				55		
2US357	AGC	2	3	RTL	6.3				30	5hk	25M	2	2	30				55		
K2US371	LFA	9	RTL	9.0	0.03	1.8	5			60	10k							63		
K2US372	LFA	5	RTL	12.0	0.05				225	50	15k							63		
K2US373	AMP	6	RTL	5.0			<3		14					13k				63		
2US381	AMP	5	RTL									3	3	6				55		
2US382	AMP	2	RTL									75	1	55				55		
2UYE181	AMP	1		6.3	4.0				7	200	3hk	3	3				<2M	57		
K2ZHA241	MIX	2	RTL	25.0			3			65M	1hM	15	1					65		
K2ZHA242	MIX	2	RTL	9.0						1hk	30M	5	2					65		
K2ZHA243	AGC	2	RTL	3.0								5	2					65		
K2ZHA244	AMP	3	RTL	12.0			10			3M	6M							65		
K2ZHA371	CN	6	RTL	5.0			3							2h				63		
K2ZHA372	DET	8	RTL	5.0			4					1	3					63		
K2ZHA373	AMP	4	RTL	5.0			4		22					7				63		

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			Supply V	Logic 0 V	Logic 1 V	Noise mV	Cur Supply mA	Current		Switching Time				Fan Out	Dwg No
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	On Lag 1-0 ns	On to 0+1 ns	Off for Unit ns		
K1GF271	* PGN			27.0												52
11D0061	* DED	3B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
11D0062	* DED	3B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
11D0064	* *		ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
11L101A	* HAD		DTL	5.3	0.3				48μ						5	51
11L101B	* HAD		DTL	5.3	0.3				65μ						3	51
11L131A	* HAD		DCT	8	0.2					5m		400			4	51
11L131B	* HAD		DCT	8	0.2					5m		300			2	51
11L131V	* HAD		DCT	8	0.2					5m		250			1	51
11L132A	* HAD		DCT	8	0.2					5m		400			4	51
11L132B	* HAD		DCT	8	0.2					5m		300			2	51
11L132V	* HAD		DCT	8	0.2					5m		250			1	51
11L141A	* HAV	2IN	DCT	6.0	0.2						1k				4	58
11L141B	* HAV	2IN	DCT	6.0	0.2						800				2	58
11L371	* HAD		ECL	5.0	1.45	0.95	50	42					8n	6n	15	63
11L373	* HAD		ECL	5.0	1.45	0.95	50	24					8n	6n	15	63
11P0081	* *	4B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
K1R071	* SHR	8B	DCT													
11R141A	* RGS		DCT	6.0	0.2						15h				4	58
11R141B	* RGS		DCT	6.0	0.2						12h				2	58
K1R441	* SHR	16B	DCT	12.6	1.5	15.0					250	200	400n	650n	10	52
K1R442	* SHR	90B	DCT	12.6	1.5	15.0					450	200	10hn	12hn	10	52
K1R551	* *		TTL	5.0	0.4	2.4			-16hn	40n				35n	35n	66
K1R552	* *		TTL	5.0	0.4	2.4			-16hn	40n						66
K1R761	* SHR	18B	CMS													66
11YE0060	* *	12B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
K1YE551	* COU		TTL	5.0	0.4	2.4			-16hn	40n						66
K1YE552	* COU		TTL	5.0	0.4	2.4			-16hn	40n				100n	100n	66
K1YE554	* COU		TTL	5.0	0.4	2.4			-16hn	40n				100n	100n	66
K1YE555	* COU		TTL	5.0	0.4	2.4			-16hn	40n				100n	100n	66
K1YE556	* COU		TTL	5.0	0.4	2.4			-16hn	40n						66
K1YE558	* COU		TTL	5.0	0.4	2.4			-16hn	40n						66
K1YE559	* COU		TTL	5.0	0.4	2.4			-16hn	40n						66
1JAM0040	* MEM	64B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1JAM0040A	* MEM	16B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1JAM0040B	* MEM	4B	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
K1JAM351	* MEM	20B	DCT	20.0	1.2	8.0										51
K1JAM352	* MEM	16B	DCT	20.0	1.2	8.0										51
K1JAM761	* MEM	16B	CMS													66
1JAM881	* MEM	16B	DCT				0.06									51
K1KT491A	* AMP	QU4	ECL	3.0	0.7						450		150n	400n		51
K1KT491B	* AMP		ECL	5.0	0.7						450		150n	400n		51
K1KT491V	* AMP		ECL	12.6	0.7						450		150n	400n		51
K1KT701	* CDR		*5					25	16hm	200μ			50n	50n		66
K1KT702	* CDR		*5					25	32hm	400μ			50n	50n		66
K1KT703	* CDR		*5					25	32hm	400μ			50n	50n		66
K1KT704	* CDR		*5					25	32hm	400μ			80n	50n		66
K1KT901	* SWI	MOS	6													69
1LB0001	* GNR	QU2	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB0002	* NGR	QU2	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB0005	* GNR	TR2	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB0006	* NGR	TR4	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB0009	* GNR	DU4	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB0010	* OR	DU3	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB0011	* NGR	DU3	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68
1LB061	* GND	DU2	TTL	6	0.3	2.3			15hn	18m	30	60	30n	60n	10	51
1LB061A	* GND	DU2	TTL	6	0.3	2.3			15hn	18m	30	60	12n	28n	10	51
1LB062	* GND	DU2	TTL	6	0.25	2.3			6hn	18m	100	100	100n	100n		51
1LB062A	* GND	DU2	TTL	6	0.25	2.3			6hn	18m	100	100	30n	50n		51
1LB065	* GND	8IN	TTL	6	0.3	2.3			15hn	18m	45	100	45n	100n	10	51
1LB065A	* GND	8IN	TTL	6	0.3	2.3			15hn	18m	45	100	15n	30n	10	51
1LB066	* GND	8IN	TTL	6	0.25	2.3			6hn	18m	110	115	110n	115n		51
1LB066A	* GND	8IN	TTL	6	0.25	2.3			6hn	18m	110	115	40n	40n		51
1LB091A	* NND	3IN	DTL	8.0	0.35	2.5			13hn	20μ			30n	70n	5	51
1LB091B	* NND	3IN	DTL	8.0	0.35	2.5			13hn	20μ			30n	70n	4	51
1LB091G	* NND	3IN	DTL	8.0	0.35	2.5			13hn	20μ			30n	70n	2	51
1LB091V	* NND	3IN	DTL	8.0	0.35	2.5			13hn	20μ			30n	70n	3	51
1LB092A	* NND	3IN	DTL	8.0	0.4	2.5			15hn	20μ			40n	40n	16	51
1LB092B	* NND	3IN	DTL	8.0	0.4	2.5			15hn	20μ			40n	40n	12	51
1LB101A	* NRD	6IN	RCT	5.3	0.3	2.4			48μ						5	51

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			V	Logic 0 V	Logic 1 V	Noise mV	Cur. Supply mA	Current		Switching Time				Fan Out	Dwg No
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	On Lag 1-0 ns	On to Unit s	Off to Unit s		
1LB101B	* NRD	6IN	RCT	5.3	0.3	2.4			65μ						3	51
1LB102A	* NRD	3IN	RCT		0.3				48μ						5	51
1LB102B	* NRD	3IN	RCT		0.3				65μ						3	51
1LB103A	* NRD	4IN	RCT	5.3	0.3	2.4			48μ						5	51
1LB103B	* NRD	4IN	RCT	5.3	0.3	2.4			65μ						5	51
1LB104A	* NRD	5IN	RCT		0.3				48μ						5	51
1LB104B	* NRD	5IN	RCT		0.3				65μ						3	51
1LB105A	* NRD	6IN	RCT	5.3	0.3	2.4			48μ						25	51
1LB105B	* NRD	6IN	RCT	5.3	0.3	2.4			65μ						15	51
1LB105G	* NRD	6IN	RCT	5.3	0.3	2.4			65μ						15	51
1LB105V	* NRD	6IN	RCT	5.3	0.3	2.4			48μ						25	51
1LB106A	* NRD	3IN	RCT	5.3	0.3	2.4			48μ						25	51
1LB106B	* NRD	3IN	RCT	5.3	0.3	2.4			65μ						15	51
1LB106G	* NRD	3IN	RCT	5.3	0.3	2.4			65μ						15	51
1LB106V	* NRD	3IN	RCT	5.3	0.3	2.4			48μ						25	51
1LB107A	* NRD	4IN	RCT	5.3	0.3	2.4			48μ						25	51
1LB107B	* NRD	4IN	RCT	5.3	0.3	2.4			65μ						15	51
1LB107G	* NRD	4IN	RCT	5.3	0.3	2.4			65μ						15	51
1LB107V	* NRD	4IN	RCT	5.3	0.3	2.4			48μ						25	51
1LB108A	* NRD	5IN	RCT		0.3				48μ						25	51
1LB108B	* NRD	5IN	RCT		0.3				65μ						15	51
1LB108G	* NRD	5IN	RCT		0.3				65μ						15	51
1LB108V	* NRD	5IN	RCT		0.3				48μ						25	51
1LB109A	* NRD	3IN	RCT		0.3				48μ						N	51
1LB109B	* NRD	3IN	RCT		0.3				65μ						3	51
1LB1010A	* NRD	3IN	RCT		0.3				48μ						5	51
1LB1010B	* NRD	3IN	RCT		0.3				65μ						3	51
1LB1011A	* NRD	2IN	RCT		0.3				48μ						5	51
1LB1011B	* NRD	2IN	RCT		0.3				65μ						3	51
1LB1012A	* NRD	5IN	RCT		0.3				48μ						5	51
1LB1012B	* NRD	5IN	RCT		0.3				65μ						3	51
1LB1013A	* NRD	2IN	RCT		0.3				48μ						5	51
1LB1013B	* NRD	2IN	RCT		0.3				65μ						3	51
1LB1014A	* NRD	2IN	RCT		0.3				48μ						25	51
1LB1014B	* NRD	2IN	RCT		0.3				65μ						15	51
1LB1014G	* NRD	2IN	RCT		0.3				65μ						15	51
1LB1014V	* NRD	2IN	RCT		0.3				48μ						25	51
K1LB111A	* ENT	2IN	TTL													62
K1LB111B	* ENT	2IN	TTL													62
1LB131A	* NOR	QU2	DCT	8	0.2					5m	400				4	51
1LB131B	* NOR	QU2	DCT	8	0.2					5m	300				2	51
1LB131V	* NOR	QU2	DCT	8	0.2					5m	250				1	51
1LB132A	* NOR	DU4	DCT	8	0.2					5m	400				4	51
1LB132B	* NOR	DU4	DCT	8	0.2					5m	300				2	51
1LB132V	* NOR	DU4	DCT	8	0.2					5m	250				1	51
1LB133A	* NOR	P03	DCT	8	0.2	2.4			75hμ		400				2	51
1LB133B	* NOR	P03	DCT	8	0.2	2.4			75hμ		300				1	51
1LB133V	* NOR	P03	DCT	8	0.2	2.4			75hμ		250				1	51
1LB134A	* NOR	P03	DCT	8	0.2	2.4			75hμ		400				2	51
1LB134B	* NOR	P03	DCT	8	0.2	2.4			75hμ		300				1	51
1LB134V	* NOR	P03	DCT	8	0.2	2.4			75hμ		250				1	51
1LB135A	* NRY	2IN	DCT	8	0.2				5m		400				4	51
1LB135B	* NRY	2IN	DCT	8	0.2				5m		300				2	51
1LB135V	* NRY	2IN	DCT	8	0.2				5m		250				1	51
1LB136A	* NOR	QU2	DCT	8	0.2				5m		400				4	51
1LB136B	* NOR	QU2	DCT	8	0.2				5m		300				2	51
1LB136V	* NOR	QU2	DCT	8	0.2				5m		250				1	51
1LB137A	* NOR	DU4	DCT	8	0.2				5m		400				4	51
1LB137B	* NOR	DU4	DCT	8	0.2				5m		300				2	51
1LB137V	* NOR	DU4	DCT	8	0.2				5m		250				1	51
1LB138A	* NOR	P03	DCT	8	0.2	2.4			75hμ		400				2	51
1LB138B	* NOR	P03	DCT	8	0.2	2.4			75hμ		300				1	51
1LB138V	* NOR	P03	DCT	8	0.2	2.4			75hμ		250				1	51
1LB139A	* NOR	P03	DCT	8	0.2	2.4			75hμ		400				2	51
1LB139B	* NOR	P03	DCT	8	0.2	2.4			75hμ		300				1	51
1LB139V	* NOR	P03	DCT	8	0.2	2.4			75hμ		250				1	51
1LB1310A	* NRY	2IN	DCT	8	0.2				5m		400				4	51
1LB1310B	* NRY	2IN	DCT	8	0.2				5m		300				2	51
1LB1310V	* NRY	2IN	DCT	8	0.2				5m		250				1	51
1LB141A	* NOR	DU4	DCT	8.0	0.2						500				4	51

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			V	Logic 0 Out	Logic 1 Out	Noise mV	Cur Supply mA	Current		Switching Time				Fan Out	Dwg No
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	1-0 ns	0-1 ns	On to Unit s		
1LB141B	* NOR	DU4	DCT	6.0	0.2						400					2 58
1LB142A	* OR	P02	DCT	6.0	0.2						1k					4 58
1LB142B	* OR	P02	DCT	6.0	0.2						800					2 58
1LB143A	* ORN	P02	DCT	6.0	0.2	1.5					1k					4 58
1LB143B	* ORN	P02	DCT	6.0	0.2	1.7					800					2 58
1LB151	* NOR	QU2	DCT	4.0	0.2						100	180				4 51
1LB152	* NOR	DU4	DCT	4.0	0.2						100	180				4 51
1LB153	* NOR	P03	DCT	4.0	0.35	2.2						200				10 51
1LB154	* NOR	P03	DCT	4.0	0.35	2.2						200				10 51
1LB301	* NND	DU4	TTL	5.0			400									10 51
1LB302	* NND	8IN	TTL	5.0			400									10 51
1LB303	* NND	QU2	TTL	5.0			400									10 51
1LB304	* NND	3IN	TTL	5.0			400									10 51
1LB306	* NND	DU4	TTL	5.0			400									20 51
1LB307	* NND	DU4	TTL	5.0			400									10 51
1LB308	* NND	8IN	TTL	5.0			400									10 51
1LB309	* NND	QU2	TTL	5.0			400									10 51
1LB3010	* NND	3IN	TTL	5.0			400									51
1LB311	* NND	DU4	TTL	5.0	0.4	2.4	500						10n	12n		10 63
1LB312	* NND	8IN	TTL	5.0	0.4	2.4	500						12n			10 63
1LB313	* NND	QU2	TTL	5.0	0.4	2.4	500				10		10n			10 63
1LB314	* NND	3IN	TTL	5.0	0.4	2.4	500						10n	12n		10 63
1LB316	* NND	P04	TTL	5.0	0.4	2.4	500									10 63
1LB317	* NND	DU4	TTL	5.0	0.4	2.4	500									5 63
1LB318	* NND	8IN	TTL	5.0	0.4	2.4	500						12n			63
1LB319	* NND	QU2	TTL	5.0	0.4	2.4	500				10	12	10n	12n		63
1LB3110	* NND	3IN	TTL	5.0	0.4	2.4	500									5 63
1LB331	* NND	DU4	TTL	5.0	0.4		400				1m	15	30			10 51
1LB332	* NND	8IN	TTL	5.0	0.4	2.4	400				1m	15	30			10 51
1LB333	* NND	DU2	TTL	5.0	0.4		400				1m	10	30			10 51
1LB334	* NND	3IN	TTL	5.0	0.4	2.4	400				1m	15	30			10 51
1LB336	* NND	P04	TTL	5.0	0.4		400				3m	15	30			10 51
1LB337	* NND	P04	TTL	5.0	0.4	2.4	400				1m					51
1LB338	* NND	QU2	TTL	5.0	0.4	2.4	400				1m					51
1LB339	* NND	DU4	TTL	5.0	0.4	2.4	400				1m					5 51
1LB3310	* NND	8IN	TTL	5.0	0.4	2.4	400				1m					10 51
1LB3311	* NND	DU2	TTL	5.0	0.4	2.4	400				1m					10 51
1LB3312	* NND	3IN	TTL	5.0	0.4	2.4	400				1m					5 51
1LB3313	* NND	P04	TTL	5.0	0.4	2.4	400				1m	15				51
1LB3315	* NND	P04	TTL	5.0	0.4	2.4	400				1m	15	30			5 51
1LB3316	* NND	QU2	TTL	5.0	0.4	2.4	400				1m	15	30			5 51
1LB341A	* NND	QU2	TTL	5.0	0.3	2.3	500							100n	100n	3 51
1LB341B	* NND	QU2	TTL	5.0	0.3	2.3	500							50n	70n	3 51
1LB342A	* NND	DU4	TTL	5.0	0.3	2.3	500							100n	100n	3 51
1LB342B	* NND	DU4	TTL	5.0	0.3	2.3	500							50n	70n	3 51
1LB361	* NND	DU4	TTL	5.0	0.3		400				450μ	60	60			10 51
1LB362	* NND	8IN	TTL	5.0	0.3	2.4	400				450μ					10 51
1LB363	* NND	QU2	TTL	5.0	0.3		400				450μ	60	60			10 51
1LB364	* NND	3IN	TTL	5.0	0.3	2.4	400				450μ	60	60			10 51
1LB366	* NND	DU4	TTL	5.0	0.3	2.4	400				450μ					10 51
1LB367	* NND	8IN	TTL	5.0	0.3	2.4	400				450μ					10 51
1LB368	* NND	QU2	TTL	5.0	0.3	2.4	400				450μ					10 51
1LB369	* NND	3IN	TTL	5.0	0.3	2.4	400				450μ					10 51
1LB371	* ORX	N/R	ECL	5.0	1.45	0.95	50	13								15 63
1LB372	* NOR	DU3	ECL	5.0	1.45	0.95	50	22								15 63
1LB375	* N/R	P03	ECL	5.0	1.45	0.95	50	48						7n	7n	100 63
1LB376	* N/R	5IN	ECL	5.0	1.45	0.95	50	13						6n	6n	15 63
1LB378	* ORX	N/R	ECL	5.0	1.45	0.95	50	13						6n	6n	15 63
1LB379	* NOR	DU3	ECL	5.0	1.45	0.95	50	40								15 63
1LB3710	* NOR	DU3	ECL	5.0	1.45	0.95	50	22						6n		15 63
1LB3716	* N/R	P03	ECL	5.0	1.45	0.95	50	18						7n	7n	100 63
1LB3717	* N/R	5IN	ECL	5.0	1.45	0.95	50	31						6n	6n	15 63
1LB3718	* N/R	5IN	ECL	5.0	1.45	0.95	50	13						6n	6n	15 63
1LB3719	* ORX	N/R	ECL	5.0	1.45	0.95	50	31						6n	6n	15 63
1LB381	* ORN	8IN	ECL	7	1.58	0.98	130	25			300μ		3			8 66
K1LB381	* ORN	8IN	ECL	7	1.55	1.01	100	25			300μ		5			3 66
1LB382	* ORN	DU4	ECL	7	1.58	0.98	130	25			300μ		3			8 66
K1LB382	* ORN	DU4	ECL	7	1.55	1.01	100	25			300μ		5			3 66
1LB383	* NOR	QU2	ECL	7	1.58	0.98	130	25			300μ		3			3 66
K1LB383	* NOR	QU2	ECL	7	1.55	1.01	100	25			300μ		5			3 66

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			V	Logic 0 V	Logic 1 V	Noise mV	Cur Supply mA	Current		Switching Time				Fan Out	Dwg No	
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	On Lag 0+1 ns	On to Unit s	Off to Unit s			
1LB384	* OR	QU2	ECL	7	1.58	0.98	130	25		300μ			3	35hp	35hp	8	66
K1LB384	* OR	QU2	ECL	7	1.55	1.01	100	25		300μ			5	5n	35hp	8	66
1LB385	* ORD	DU2	ECL	7				40					4				66
1LB551	* NND	DU4	TTL	5.0	0.4	2.4	400			1m	15	30				10	63
K1LB551	* NND	DU4	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		10	66
1LB552	* NND	8IN	TTL	5.0	0.4	2.4	400			1m	15	29				10	63
K1LB552	* NND	8IN	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		10	66
1LB553	* NND	QU2	TTL	5.0	0.4	2.4	400			1m	15	30				10	63
K1LB553	* NND	QU2	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		10	66
1LB554	* NND	3IN	TTL	5.0	0.4	2.4	400			1m	15	30				10	63
K1LB554	* NND	TR3	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		10	66
1LB556	* NND	P04	TTL	5.0	0.4	2.4	400			1m	15	29				10	63
K1LB556	* NND	DU4	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		30	66
1LB557	* NND	P04	TTL	5.0	0.4	2.4	400			1m						10	63
K1LB557	* NND	DU4	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n			66
1LB558	* NND	QU2	TTL	5.0	0.4	2.4	400			1m						10	63
K1LB558	* NND	QU2	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n			66
1LB559	* NND	DU4	TTL	5.0	0.4	2.4	400			1m	5					10	63
K1LB559	* NND	DU4	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		5	66
1LB5510	* NND	8IN	TTL	5.0	0.4	2.4	400			1m						10	63
K1LB5510	* NND	8IN	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		5	66
1LB5511	* NND	QU2	TTL	5.0	0.4	2.4	400			1m						10	63
K1LB5511	* NND	QU2	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		5	66
1LB5512	* NND	3IN	TTL	5.0	0.4	2.4	400			1m	5					10	63
K1LB5512	* NND	TR3	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		5	66
1LB5513	* NND	P04	TTL	5.0	0.4	2.4	400			1m						10	63
K1LB5513	* NND	DU4	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n		15	66
1LB5515	* NND	P04	TTL	5.0	0.4	2.4	400			1m	15	30				5	63
K1LB5515	* NND	DU4	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n			66
1LB5516	* NND	QU2	TTL	5.0	0.4	2.4	400			1m	15	30				5	63
K1LB5516	* NND	QU2	TTL	5.0	0.4	2.4	*1		16hn	40n		18	60n	50n			66
1LB561A	* NND	6IN	DTL	5.0	0.54	2.55	400			20μ	30	40	20	150n	6	51	61
1LB561B	* NND	6IN	DTL	5.0	0.48	2.55	400			20μ	30	40	20	150n	4	51	61
1LB561V	* NND	6IN	DTL	5.0	0.54	2.55	400			20μ	30	40	20	150n	6	51	61
1LB562	* NND	P06	DTL	5.0	0.42	2.55	400			20μ	43	20	25n	30n	16	51	61
1LB563A	* NND	DU4	DTL	5.0	0.54	2.55	400			20μ	30	40	20n	150n	6	51	61
1LB563B	* NND	DU4	DTL	5.0	0.48	2.55	400			20μ	30	40	20n	150n	4	51	61
1LB563V	* NND	DU4	DTL	5.0	0.42	2.55	400			20μ	30	40	20n	150n	2	51	61
1LB564A	* ORX	DU4	DTL	5.0	0.54	2.55	400			20μ	30	40	20n	150n	0	51	61
1LB564B	* ORX	DU4	DTL	5.0	0.48	2.55	400			20μ	30	40	20n	150n	4	51	61
1LB564V	* ORX	DU4	DTL	5.0	0.42	2.55	400			20μ	30	40	20n	150n	2	51	61
1LB581	* NND	DU4	TTL	5.0	0.3	2.4	400			320μ	63	80				10	63
1LB582	* NND	8IN	TTL	5.0	0.3	2.4	400			320μ							63
1LB583	* NND	QU2	TTL	5.0	0.3	2.4	400			320μ	63	60					63
1LB584	* NND	3IN	TTL	5.0	0.3	2.4	400			320μ	63	60				10	63
1LB586	* NND	DU4	TTL	5.0	0.3	2.4	400			320μ	63	80					63
1LB587	* NND	8IN	TTL	5.0	0.3	2.4	400			320μ							63
1LB588	* NND	QU2	TTL	5.0	0.3	2.4	400			320μ	63	60					63
1LB589	* NND	3IN	TTL	5.0	0.3	2.4	400			320μ	63	60					63
K1LB721	* ONR	DU4	DCT		1.0	9.5	*1k										63
K1LB722	* ONR	10N	DCT		1.0	9.5	*1k										63
K1LB764	* MNR	DU3	CMS		0.1	8.9	*3		10n	10n	120	110	200n	220n			66
K1LB765	* MNR	QU2	CMS		0.1	8.9			10n	10n	120	110	200n	220n			66
K1LB766	* MNR	DU4	CMS		0.1	8.9			10n	10n	120	110	200n	220n			66
K1LB767	* MND	QU2	CMS		0.1	8.9			10n	10n	110	120	140n	140n			66
K1LB768	* MND	DU4	CMS		0.1	8.9			10n	10n	110	120	140n	140n			66
K1LB769	* MND	TR3	CMS		0.1	8.9			10n	10n	110	120	140n	140n			66
K1LB7610	* MNR	TR3	CMS		0.1	8.9			10n	10n	120	110	200n	200n			66
K1LB7611	* MNR	DU4	CMS		0.1	8.9			10n	10n	120	110	200n	200n			66
K1LB7612	* MND	DU4	CMS		0.1	8.9			10n	10n	110	120	140n	140n			66
K1LB781	* ONR	DU4	DCT		1.0	9.5	*1k										51
K1LB782	* ONR	10N	DCT		1.0	9.5	*1k										51
K1LB8711	* ONT	3IN			1.9	0.95	50 18						11n	9n	15	66	66
K1LB8713	* ONT	DU3			1.9	0.95	50 18						11n	9n	15	66	66
K1LB8715	* ONT	5IN			1.9	0.95	50 18						11n	9n	15	66	66
K1LB873	* ONT	3IN			1.9	0.95	50 18						11n	9n	15	66	66
K1LB874	* ONT	DU3			1.9	0.95	50 18						11n	9n	15	66	66
K1LB877	* ONT	5IN			1.9	0.95	50 18						11n	9n	15	66	66
1LI091	* AND	6IN	DTL	7.0	0.3	2.0			16hn				50n	50n	12	51	63
K1LI721	* AND	QU2	DCT		1.0	9.5	*1k										63

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			V	V	V	mV	Cur. Supply mA	Current		Switching Time				Fan Out	Dwg No	
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	1-0 ns	0-1 ns	On to Unit s			Off to Unit s
K1L1781	* AND	QU2	DCT		1.0	9.5	41k									51	
1LK0017	* ORD	DU2	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LK0018	* ORD	DU2	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LK0019	* ORD	TR3	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LK0020	* ORD		ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LK0021	* ORD	DU4	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LY381	* OND	DU2	ECL	7				35				46				66	
1LN101A	* INV		RCT		0.3				48μ						5	51	
1LN101B	* INV		RCT		0.3				65μ						3	51	
1LN102A	* INV	BMF	RCT		0.3				48μ						25	51	
1LN102B	* INV	EMF	RCT		0.3				65μ						15	51	
1LN102G	* INV	EMF	RCT		0.3				65μ						15	51	
1LN102V	* INV	BMF	RCT		0.3				48μ						25	51	
1LN103A	* DNV		RCT		0.3				48μ						5	51	
1LN103B	* DNV		RCT		0.3				65μ						3	51	
1LP0007	* TRA		ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LP0015	* QUD	REC	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LP0016	* TRI	REC	ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LP0079	*		ECL	5.2	1.85	0.96		43	500n	350μ			29hp	29hp		68	
1LP061	* ORX	8IN	TTL	6	1.4				15hn	300μ			50n	90n		51	
1LP061A	* ORX	8IN	TTL	6	1.4				15hn	300μ			20n	36n		51	
1LP062	* ORX	8IN	TTL	6	1.4				6hn	250μ			65n	90n		51	
1LP062A	* ORX	8IN	TTL	6	1.4				6hn	250μ			40n	55n		51	
1LP065	* ORX	DU4	TTL	6	1.4				15hn	300μ			50n	90n	10	51	
1LP065A	* ORX	DU4	TTL	6	1.4				15hn	300μ			20n	36n		51	
1LP066	* ORX	DU4	TTL	6	1.4				6hn	250μ			65n	90n		51	
1LP066A	* ORX	DU4	TTL	6	1.4				6hn	250μ			40n	55n		51	
1LP091	* ANX	DU3	DTL	6.0									50n	50n	12	51	
1LP141A	* NOT	QUX	DCT	6.0	0.2						500				4	58	
1LP141B	* NOT	QUX	DCT	6.0	0.2										2	58	
1LP142A	* EXP	QUX	DCT	6.0	0.2						400				4	58	
1LP142B	* EXP	QUX	DCT	6.0	0.2										2	58	
1LP143A	* OR	6IX	DCT	6.0	0.2						1k				4	58	
1LP143B	* OR	6IX	DCT	6.0	0.2						800				2	58	
1LP144A	* OR	DU2	DCT	6.0	0.2						1k				4	58	
1LP144B	* OR	DU2	DCT	6.0	0.2						800				2	58	
1LP145A	* ORX	DU4	DCT	6.0	0.2										4	58	
1LP145B	* ORX	DU4	DCT	6.0	0.2										2	58	
1LP151	* ORX	TR2	DCT	4.0							100	150			4	51	
1LP281	* AOR	ANX	DTL	3.0			400	20								51	
1LP301	* ORX	DU4	TTL	5.0	0.4	2.4	400									51	
1LP311	* ORX	DU4	TTL	5.0	0.4	2.4	500								10	63	
1LP331	* ORX	DU4	TTL	5.0	0.4		400				1m					51	
1LP333	* ORX	8IN	TTL	5.0	0.4		400				1m					51	
1LP371	* ORX	DU3	ECL	5.0	1.45	0.95	50								15	63	
1LP372	* ORX	DU3	ECL	5.0	1.45	0.95	50								15	63	
1LP381	* REC		ECL	7	1.58	0.98	130	25		300μ		3			8	66	
K1LP381	* REC		ECL	7	1.55	1.01	100	25		300μ		5			8	66	
1LP551	* ORX	DU4	TTL	5.0	0.4	2.4	400				1m				10	63	
K1LP551	* EXP	DU4	TTL	5.0	0.4	2.4	41		16hn	40n		18	60n	50n		66	
1LP553	* ORX	8IN	TTL	5.0	0.4	2.4	400				1m				10	63	
K1LP553	* EXP	8IN	TTL	5.0	0.4	2.4	41		16hn	40n		18	60n	50n		66	
1LP561	* ANX	QU2	DTL	5.0			400									51	
K1LP761	* ULE		CMS		0.1	8.9			10n	10n	80	70	120n	100n		66	
K1LP871	* ORX	DU3			1.9	0.95	50	18						11n	9n	66	
K1LP872	* ORX	DU3			1.9	0.95	50	18						11n	9n	66	
1LR061	* AOT	8IN	TTL	6	0.3	2.3			15hn	18m				45n	100n	51	
1LR061A	* AOT	8IN	TTL	6	0.3	2.3			15hn	18m				15n	35n	51	
1LR062	* AOT	8IN	TTL	6	0.25	2.3			6hn	18m				105n	115n	51	
1LR062A	* AOT	8IN	TTL	6	0.25	2.3			6hn	18m				30n	30n	10	51
K1LR071	* AOT	DU3	DCT														
1LR281A	* AOR	ORX	DTL	3.0	0.5	2.4	400	20							6	51	
1LR281B	* AOR	ORX	DTL	3.0	0.5	2.4	400	20							6	51	
1LR301	* AOT	DU2	TTL	5.0			400								10	51	
1LR303	* AOT	QU2	TTL	5.0			400								10	51	
1LR304	* AOT	DU4	TTL	5.0			400								10	51	
1LR305	* AOT	DU2	TTL	5.0			400								5	51	
1LR306	* AOT	QU2	TTL	5.0			400									51	
1LR307	* AOT	DU4	TTL	5.0			400								5	51	
1LR311	* AOT	DU2	TTL	5.0	0.4	2.4	500						12n	15n	10	63	

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No	Description			V	Logic 0 Out V	Logic 1 Out V	Noise mV	Cur. Supply mA	Current		Switching Time				Fan Out	Dwg No	
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	On 1-0 ns	On Lay 0+1 ns	On to Unit s			Off for Unit s
1LR313	* AOT	QU2	TTL	5.0	0.4	2.4	500							12n	15n		63
1LR314	* AOT	DU2	TTL	5.0	0.4	2.4	500							12n	15n	10	63
1LR315	* AOT	DU2	TTL	5.0	0.4	2.4	500							12n	15n	5	63
1LR316	* AOT	QU2	TTL	5.0	0.4	2.4	500							12n	15n		63
1LR317	* AOT	DU2	TTL	5.0	0.4	2.4	500							12n	15n	5	63
1LR331	* AOT	DU2	TTL	5.0	0.4	2.4	400			1B	18	33					51
1LR333	* AOT	QU2	TTL	5.0	0.4	2.4	400			1B	18	33					51
1LR334	* AOT	DU2	TTL	5.0	0.4	2.4	400			1B							51
1LR335	* AOT	DU2	TTL	5.0	0.4	2.4	400			1B						5	51
1LR336	* AOT	QU2	TTL	5.0	0.4	2.4	400			1B						5	51
1LR338	* AOT	DU2	TTL	5.0	0.4	2.4	400			1m							51
1LR341A	* AOT	DU2	TTL	5.0	0.3	2.3	500							100n	100n	3	51
1LR341B	* AOT	DU2	TTL	5.0	0.3	2.3	500							50n	70n	3	51
1LR342A	* AOT	QU2	TTL	5.0	0.3	2.3	500							100n	100n	3	51
1LR342B	* AOT	QU2	TTL	5.0	0.3	2.3	500							50n	70n	3	51
1LR361	* AOT	DU2	TTL	5.0	0.3	2.4	400			450μ	80	80				10	51
1LR363	* AOT	QU2	TTL	5.0	0.3	2.4	400			450μ	80	140				10	51
1LR364	* AOT	DU2	TTL	5.0	0.3	2.4	400			450μ	18	33				10	51
1LR365	* AOT	DU2	TTL	5.0	0.3	2.4	400			450μ						10	51
1LR366	* AOT	QU2	TTL	5.0	0.3	2.4	400			450μ						10	51
1LR367	* AOT	DU2	TTL	5.0	0.3	2.4	400			450μ						10	51
1LR551	* AOT	DU2	TTL	5.0	0.4	2.4	400			1m	18	35				10	63
K1LR551	* AOT	DU2	TTL	5.0	0.4	2.4	<1	16hn	40n		18		60n	50n		10	66
1LR553	* AOT	QU2	TTL	5.0	0.4	2.4	400			1m	18	35				10	63
K1LR553	* AOT	QU2	TTL	5.0	0.4	2.4	<1	16hn	40n		18		60n	50n		10	66
1LR554	* AOT	DU2	TTL	5.0	0.4	2.4	400			1m	18	35				10	63
K1LR554	* ANR		TTL	5.0	0.4	2.4	<1	16hn	40n		18		60n	50n		10	66
1LR555	* AOT	DU2	TTL	5.0	0.4	2.4	400			1m						5	63
K1LR555	* AOT	DU2	TTL	5.0	0.4	2.4	<1	16hn	40n		18		60n	50n		5	66
1LR556	* AOT	QU2	TTL	5.0	0.4	2.4	400			1m						5	63
K1LR556	* AOT	QU2	TTL	5.0	0.4	2.4	<1	16hn	40n		18		60n	50n		5	66
1LR558	* AOT	DU2	TTL	5.0	0.4	2.4	400			1m	18	35				5	63
K1LR558	* ANR		TTL	5.0	0.4	2.4	<1	16hn	40n		18		60n	50n		5	66
1LR581	* AOT	DU2	TTL	5.0	0.3	2.4	400			320μ	60	80				10	63
1LR583	* AOT	QU2	TTL	5.0	0.3	2.4	400			320μ	60	100				10	63
1LR584	* AOT	DU2	TTL	5.0	0.3	2.4	400			320μ	60	80				10	63
1LR585	* AOT	DU2	TTL	5.0	0.3	2.4	400			320μ	60	80				63	
1LR586	* AOT	QU2	TTL	5.0	0.3	2.4	400			320μ	60	100				63	
1LR587	* AOT	DU2	TTL	5.0	0.3	2.4	400			320μ	60	80				63	
K1LR721	* AOT	DU2	DCT		1.0	9.5	<1k										63
K1LR781	* AOT	DU2	DCT		1.0	9.5	<1k										51
1LS131A	* ORD	4IN	DCT	8	0.2					5m		400				4	51
1LS131B	* ORD	4IN	DCT	8	0.2					5m		300				2	51
1LS131V	* ORD	4IN	DCT	8	0.2					5m		250				1	51
1LS132A	* ORD	4IN	DCT	8	0.2					5m		400				4	51
1LS132B	* ORD	4IN	DCT	8	0.2					5m		300				2	51
1LS132V	* ORD	4IN	DCT	8	0.2					5m		250				1	51
1LS151	* ORD	4IN	DCT	4.0	0.2						100					4	51
1LS281A	* AOR	ORX	DTL	3.0	0.5	2.4	400	20								6	51
1LS281B	* AOR	ORX	DTL	3.0	0.5	2.4	400	20								6	51
1LS381	* ORD		ECL	7				48					5				66
1LS382	* ORD	DU2	ECL	7				40					<6				66
1NS0000	* REM		ECL	5.2	1.85	0.96		<3	500n	350μ				29hp	29hp		68
K1PU871	* LCV	TEL		6	1.9	0.95	40	18						30n	25n	10	66
K1PU872	* LCV	RTL		6			50	18						30n	90n	10	66
K1PU873	* LCV			6	0.7		30	18									66
K1PU874	* LCV			6			50	18						30n	90n		66
1TK101A	* FLP		RCT	5.3												4	51
1TK101B	* FLP		RCT	5.3												2	51
1TK102A	* FLP	EMF	RCT	5.3	0.3	2.4										20	51
1TK102B	* FLP	EMF	RCT	5.3	0.3	2.4										10	51
1TK102D	* FLP	EMF	RCT	5.3	0.3	2.4										20	51
1TK102G	* FLP	EMF	RCT	5.3	0.3	2.4										10	51
1TK102V	* FLP	EMF	RCT	5.3	0.3	2.4										20	51
1TK102YZ	* FLP	EMF	RCT	5.3	0.3	2.4										10	51
1TK383	* FLP	DUD	ECL	7				40					7				66
K1TK551	* FLP	JK	TTL	5.0	0.4	2.4	<1		16hn	40n		18		60n	50n	10	66
K1TK552	* FLP	DUD	TTL	5.0	0.4	2.4	<1		16hn	40n		18		50n	50n	10	66
K1TK553	* FLP	JK	TTL	5.0	0.4	2.4	<1		16hn	40n		18		60n	50n	5	66
K1TK554	* FLP	DUD	TTL	5.0	0.4	2.4	<1		16hn	40n		18		60n	50n	5	66

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			Supply V	Logic 0 Out V	Logic 1 Out V	Noise mV	Cur. Supply mA	Current		Switching Time				Fan Out	Dwg No.
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	Off ns	On to Unit s	Off for Unit s		
K1TK555	* FLP	D	TTL	5.0	0.4	2.4			16hn	40n			30n	15n		66
K1TK556	* FLP	D	TTL	5.0	0.4	2.4			16hn	40n						66
K1TK761	* FLP	DUD	CMS		0.1	8.9			10n	10n						66
K1TK762	* FLP	DUD	CMS		0.1	8.9			10n	10n						66
1TR0030	* FLP	DUD	ECL	5.2	1.85	0.96		3	500n	350μ			29hp	29hp		68
1TR0031	* FLP	DUD	ECL	5.2	1.85	0.96		3	500n	350μ			29hp	29hp		68
1TR0033	* FLP	QUD	ECL	5.2	1.85	0.96		3	500n	350μ			29hp	29hp		68
1TR0034	* FLP	QUD	ECL	5.2	1.85	0.96		3	500n	350μ			29hp	29hp		68
1TR061	* GND	JK	TTL	6	0.3	2.3			15hn	18m					9	51
1TR061A	* GND	JK	TTL	6	0.3	2.3			15hn	18m					9	51
1TR062	* GND	JK	TTL	6	0.3	2.3			15hn	18m						51
1TR062A	* GND	JK	TTL	6	0.3	2.3			15hn	18m						51
1TR131A	* FLP	2IN	DCT	8	0.2					5m		400			4	51
1TR131B	* FLP	2IN	DCT	8	0.2					5m		300			2	51
1TR131V	* FLP	2IN	DCT	8	0.2					5m		250			1	51
1TR132A	* FLP	2IN	DCT	8	0.2					5m		400			4	51
1TR132B	* FLP	2IN	DCT	8	0.2					5m		300			2	51
1TR132V	* FLP	2IN	DCT	8	0.2					5m		250			1	51
1TR141A	* FLP	RS	DCT	6.0	0.2							1k			4	58
1TR141B	* FLP	RS	DCT	6.0	0.2							800			2	58
1TR151	* NGR	FLP	DCT	4.0	0.2							100			4	51
1TR371	* FLP		ECL	5.0	1.45	0.95	50	53					7n	7n	15	63
1TR373	* FLP		ECL	5.0	1.45	0.95	50	35					7n	7n	15	63
1TR381	* FLP	RS	ECL	7	1.58	0.98	130	25		300μ		3	10n	10n	8	66
K1TR381	* FLP	RS	ECL	7	1.55	1.01	100	25		300μ		5	10n	10n	8	66
1TR382	* FLP	D	ECL	7	1.58	0.98	130	25		300μ		3	10n	10n	8	66
K1TR382	* FLP	D	ECL	7	1.55	1.01	100	25		300μ		5	10n	10n	8	66
K1TR721	* FLP	2PH	DCT		1.0	9.5	1k									63
K1TR781	* FLP	2PH	DCT		1.0	9.5	1k									51
K1TR872	* TRG				1.9	0.95	50	18					14n	10n	15	66
K1TR875	* TRG				1.9	0.95	50	18					14n	10n	15	66
K1UI271	* PGN	AMP		27.7												52
K1UI701	* CVA	4CH		5	0.4	2.4		36	16hμ	100μ			50n			66
K1UI702	* CVA	2CH		5	0.4	2.4		36	16hμ	100μ			50n			66
K1UI704	* CVA			5	0.4	2.4		36	16hμ	100μ			50n			66
2ID231	* DED		DTL	4	1.45	0.85							15n	15n	10	64
2ID291	* DED		TTL	5											5	70
2IL231	* HAD		DTL	4	1.45	0.85							20n	15n	10	64
2IL291	* HAD	QUD	TTL	5											5	70
2IL401B	* HAD		DTL	5			400		35hn				190n	190n	4	65
2IL401V	* HAD		DTL	5			400		35hn				190n	190n	2	65
2IP301	* CDR		TTL		0.4	2.5									70	
2IR161	*		DTL	3			100								6	56
2IR162	*		DTL	3			100								56	
2IR201	* RGS		TTL		0.4	2.5									70	
2IR302	* SHR		TTL		0.4	2.5									70	
2IR401A	* RGS		DTL	5			400		38hn						6	65
2IR401B	* RGS		DTL	5			400		38hn						4	65
2IR402A	* RGS		DTL	5			400		38hn						6	65
2IR402B	* RGS		DTL	5			400		38hn						4	65
2IR403A	* SHR		DTL	5			400		57hn						6	65
2IR403B	* SHR		DTL	5			400		57hn						4	65
2IS401A	* FAD		DTL	5			400		38hn						6	65
2IS401B	* FAD		DTL	5			400		38hn						4	65
2IYE161	* C0U		DTL	3			100								6	56
2IYE162	* C0U		DTL	3			100								20	56
2IYE231	* C0U	SHR	DTL	4	1.45	0.85							50n	35n	10	64
2IYE301	* C0U		TTL		0.4	2.5									70	
2IYE302	* C0U		TTL		0.4	2.5									70	
2IYE303	* C0U		TTL		0.4	2.5									70	
2IYE311	* C0U		RTL	4	0.2	0.94									70	
2IYE401A	* C0U		DTL	5			400		38hn						6	65
2IYE401B	* C0U		DTL	5			400		38hn						4	65
2LB011	* NRT	4IN	RTL	5				4						270n	2	58
2LB012	* NRT	4IN	RTL	5				5							5	58
2LB013	* NRT	4IN	RTL	5				8							8	58
2LB014	* NRT	6IN	RTL	5				4							2	58
2LB015	* NRT	5IN	RTL	5				4							2	58
2LB016	* NRT	5IN	RTL	5				5							5	58
2LB017	* NRT	5IN	RTL	5				8						270n	8	58

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			V Supply	Logic 0 Out	Logic 1 Out	Noise mV	Cur Supply mA	Current		Switching Time				Fan Out	Dwg No	
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	On 1-0 ns	On 0-1 ns	On to Unit s			Off to Unit s
2LB041	* NRD	6IN	RCT	4										100n	100n		61
2LB042	* NRT	3IN	RCT	4										100n	150n		61
2LB051	* NOR	4IN	RTL	5	0.3	1.4								250n		2	61
2LB052	* NOR	2IN	RTL	5	0.3	1.4								250n		2	61
2LB053	* NOR	2IN	RTL	5	0.3	1.4								250n		2	61
2LB161	* NOR		DTL	3			100	18								3	56
2LB162	* NOR		DTL	3			100	18								4	56
2LB163	* NOR		DTL	3			100	18									56
2LB164	* NOR	DUS	DTL	3			100	18								3	56
2LB165	* NOR	DUS	DTL	3			100	18								4	56
2LB166	* NOR	DUS	DTL	3			100	18									56
2LB167	* NRT	QU2	DTL	3			100									3	56
2LB168	* NRT	QU2	DTL	3			100									4	56
2LB169	* NRT	QU2	DTL	3			100										56
2LB1610	* NOR	QU2	DTL	3			100									3	56
2LB1611	* NOR	QU2	DTL	3			100									4	56
2LB1612	* NOR	QU2	DTL	3			100										56
2LB171A	* NRD	8IN	DTL	6	0.5						12	35				4	59
2LB171B	* NRD	8IN	DTL	6	0.5						12	35				6	59
2LB172A	* NRD	TR2	DTL	6	0.5						12	35				4	59
2LB172B	* NRD	TR2	DTL	6	0.5						12	35				6	59
2LB173	* NRD	6IN	DTL	6	0.5						20	35				8	59
2LB173A	* NRD	6IN	DTL	6	0.5						20	60				8	59
2LB174A	* NRD	DUS	DTL	6	0.5						12	35				4	59
2LB174B	* NRD	DUS	DTL	6	0.5						12	35				6	59
2LB231	* NOR	QU2	DTL	4	1.45	0.85								15n	15n	10	64
2LB232	* NOR	DU4	DTL	4	1.45	0.85								15n	15n	10	64
2LB401A	* NND		DTL	5	0.3	2.5	400							50n	250n	6	65
2LB401B	* NND		DTL	5	0.3	2.5	400							50n	250n	4	65
2LB401V	* NND		DTL	5	0.3	2.5	400							50n	250n	2	65
2LB402	* NND	P0	DTL	5			400							70n	60n	16	65
2LB403A	* NND		DTL	5			400							70n	60n	6	65
2LB403B	* NND		DTL	5			400							70n	60n	4	65
2LB403V	* NND		DTL	5			400							50n	150n	2	65
2LB404A	* NND		DTL	5			400							50n	150n	6	65
2LB404B	* NND		DTL	5			400							50n	150n	4	65
2LB404V	* NND		DTL	5			400							50n	150n	2	65
2LB405	* NND	P0	DTL	5			400							50n	150n	8	65
2LB406A	* NND		DTL	5			400							50n	150n	6	65
2LB406B	* NND		DTL	5			400							50n	150n	4	65
2LB406V	* NND		DTL	5			400							50n	150n	2	65
2LI041	* AND	3IN	RCT														61
2LN021	* NOT	DU2	DTL		1.35	0.33								200n	220n		58
2LN022	* NOT	DU2	DTL		1.35	0.33								200n	220n		58
2LN051	* NOT	4IN	RTL	5	0.4	3.0								250n		4	61
2LN151	* NOT	2IN	DTL	5.5	1.4	0.33		12						80n	60n	5	61
2LN161	* NOT		DTL	3			100									3	56
2LN162	* NOT		DTL	3			100									4	56
2LN163	* NOT		DTL	3			100										56
2LN164	* NOT		DTL	3			100									3	56
2LN165	* NOT		DTL	3			100									4	56
2LN166	* NOT		DTL	3			100										56
2LP021	* DIA	TR2	DTL												180n		58
2LP022	* DIA	DU3	DTL														58
2LP171	* EXP	DU4	DTL	6	0.3	5.3				2μ			12n	40n		59	
2LP172	* EXP	8IN	DTL	6	0.3	5.3				1μ			12n	35n		59	
2LP173	* DIA	8IN	DTL	6													59
2LP401	* ANX		DTL	5			400										65
2LR171	* AOT	8IN	DTL	6	0.3	2.6								100n	100n	8	59
2LS011	* AOR	4IN	RTL	5				8						350n	350n	8	58
2LS021	* AOR	DU2	DTL	5.5	1.35	0.33								220n	180n	3	58
2LS022	* AOR	DU2	DTL	5.5	1.35	0.33								220n	160n	5	58
2LS023	* AOR	DU2	DTL	5.5	1.35	0.33								220n	180n	3	58
2LS024	* AOR	DU2	DTL	5.5	1.35	0.33								220n	180n	5	58
2LS025	* AOR	DU2	DTL	5.5	1.35	0.33								150n	150n	3	58
2LS026	* AOR	DU2	DTL	5.5	1.35	0.33								150n	150n	5	58
2LS151	* AOR	DU2	DTL	5.5	1.4	0.33		12						30n	60n	5	61
2LS152	* AOR	DU2	DTL	5.5	1.4	0.33		12						30n	60n	5	61
2ND021	* DIA	6IN	DTL														58
2ND022	* DIA	TR3	DTL														58

Group X-A-2- INTEGRATED CIRCUITS - (Computer)

Type No.	Description			V	Logic 0 Out	Logic 1 Out	Noise mV	Cur. Supply mA	Current		Switching Time				Fan Out	Dwg No.
	Kind	Type	Logic						Logic in 0 A Unit	Logic 1 Out A Unit	On Lag ns	On Lag 1-0 ns	On to Unit s	Off to Unit s		
2NK041	* DIA	4IN	RCT													61
2NK051	* AND	4IN	RTL	5												61
2NT171	* TRM		DTL	5												59
2NT172	* TRM		DTL	6												59
2NT173	* TRM		DTL	6												59
2PK301	* GDR		TTL		0.4	2.5										70
2PN151	* VCN	6IN	DTL	5.5	0.33			20				100 n	150 n			61
2PN152	* VCN	3IN	DTL	5.5	1.8	0.33		18					150 n			61
2TK041	* FLP	JK	RCT	4								250 n	400 n			61
2TK171A	* FLP	JK	DTL	6	0.3	2.6				2μ					4	59
2TK171B	* FLP	JK	DTL	6	0.3	2.6				2μ					4	59
2TK291	* FLP	QUD	TTL	5											5	70
2TR161	* FLP	NOR	DTL	3			100								3	56
2TR162	* FLP	NOR	DTL	3			100								6	56
2TR163	* FLP	NOR	DTL	3			100									56
2TR164	* FLP	RS	DTL	3			100								3	56
2TR165	* FLP	RS	DTL	3			100								6	56
2TR166	* FLP	RS	DTL	3			100									56
2TR171A	* FLP	RS	DTL	6	0.3	2.6				2μ					4	59
2TR171B	* FLP	RS	DTL	6	0.3	2.6				2μ					6	59
2TR231	* FLP	RS	DTL	4	1.45	0.85						35 n	35 n	10	64	
2TS051	* FLP	4IN	RTL	5	0.3	1.4						250 n		2	61	
2UI021	* PA	TR2	DTL		1.35	0.33						220 n	180 n	15	58	
2UI151	* PA		DTL	5.5				12						5	61	
2UP161	* PA		DTL	3	0.3	2.3	100							20	56	
2ZHL291	*		TTL	5	1.5	0.7									5	70
5IDG061	* DED	3B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5ID0062	* DED	3B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5ID0064	*		ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5IP0081	*	4B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5IYE0060	*	12B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5JAM0040	* MEM	64B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5JAM0040A	* MEM	16B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5JAP0040B	* MEM	4B	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0001	* ONR	QU2	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0002	* NOR	QU2	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0005	* ONR	TR2	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0006	* NOR	TR4	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0009	* ONR	DU4	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0010	* OR	DU3	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LB0011	* NOR	DU3	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LK0017	* ORD	DU2	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LK0018	* ORD	DU2	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LK0019	* ORD	TR3	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LK0020	* ORD		ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LK0021	* ORD	DU4	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LP0007	* TRA		ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LP0015	* QUD	REC	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LP0016	* TRI	REC	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5LP0079	*		ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5NS0000	* REM		ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5TRO030	* FLP	DUD	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5TRO031	* FLP	DUD	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5TRO033	* FLP	QUD	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66
5TRO034	* FLP	QUD	ECL	5.2	1.85	0.96		13	500 n	350μ		29hp	29hp			66

Group X-A-3 INTEGRATED CIRCUITS - (Driver)

Type No.	Kind	Type	Voltage			Max Current		V _n @ I _{Out}		Max Swth Time		Dwg No
			Threshold V	E ₁ V	E ₂ V	E ₃ or E _{cm}	I _{in} mA	I _{Leak} μ A	2 mA 150 μ A	on ns	off ns	
1KT461	* DCD			+10	+6.3	-6.3	15	100		140	310	67
1KT462A	* CDR ADI	30	+5				15	200		25	95	67
1KT462B	* CDR ADI	22	+5				15	200		25	95	67
1KT462V	* CDR ADI	15	+5				15	200		25	95	67
1KT463A	* CDR ADI	30	+5				15	200		25	95	67
1KT463B	* CDR ADI	22	+5				15	200		25	95	67
1KT463V	* CDR ADI	15	+5				15	200		25	95	67
1KT464A	* CDR ADI	30	+5				15	200		25	95	67
1KT464B	* CDR ADI	22	+5				15	200		25	95	67
1KT464V	* CDR ADI	15	+5				15	200		25	95	67
1KT465A	* CDR AD ϕ	30	+5				15	200		25	95	67
1KT465B	* CDR AD ϕ	22	+5				15	200		25	95	67
1KT465V	* CDR AD ϕ	15	+5				15	200		25	95	67
1KT466A	* CDR AD ϕ	30	+5				15	200		25	95	67
1KT466B	* CDR AD ϕ	22	+5				15	200		25	95	67
1KT466V	* CDR AD ϕ	15	+5				15	200		25	95	67
1KT467A	* CDR AD ϕ	30	+5				15	200		25	95	67
1KT467B	* CDR AD ϕ	22	+5				15	200		25	95	67
1KT467V	* CDR AD ϕ	15	+5				15	200		25	95	67
1UI461A	* SMP		-5	+5	-10	-5	9.5		10 22			67
1UI461B	* SMP		0	+5	-10	-5	9.5		16 30			67
1UI462A	* SMP		-5	+5	-10	-5	14		4 8			67
1UI462B	* SMP		0	+5	-10	-5	14		7 14			67
1UI463A	* SMP		-5	+5	-10	-5	9.5		10 22			67
1UI463B	* SMP		0	+5	-10	-5	9.5		16 30			67
1UI464A	SMP		-5	+5	-10	-5	14		4 8			67
1UI464B	SMP		0	+5	-10	-5	14		7 14			67

Group X-A-4- INTEGRATED CIRCUITS - (Linear)

Type No.	Kind	Voltage				Current			Resis- tance		Max Amp Factor	Max Temp Drift μ V/ $^{\circ}$ C	Dwg No
		+E ₁ V	-E ₂ V	E _{out} Max V	Null Displace mV	I _{in1} Supply μ A	I _{in2} μ A	I _{in} μ A	In Min Ω	Out Max Ω			
K1US771	* AMV			6.0					40	50	80		69
K1UT771A	* DMP			5.5	15				1h		35		69
K1UT771B	* DMP			5.5	15				5h				69
1UT401A	* ϕ PA	6.3	6.3	3.5	7	6	5.0	1.5	4	7h	8h	20	67
K1UT401A	* ϕ PA	6.3	6.3	2.8	10		8.0	3.0			4h		67
1UT401B	* ϕ PA	6.3	6.3	8.0	7	12	8.0	1.5	4	7h	2k	20	67
K1UT401B	* ϕ PA	6.3	6.3	5.8	10		12.0	3.0			13h		67
1UT402	* ϕ PA	12.6	12.6	10.0	5	8	0.7	0.7	0.2		35k	20	67
K1UT402A	* ϕ PA			10.0	10	12	1.5	1.5	0.5		20k		67
K1UT402B	* ϕ PA	6.3	6.3	3.0	10	7	1.5	1.5	0.5		3k		67

GROUP X-B- FIELD EFFECT

Type	Kind	T _{Amb} °C	Max						I _{oss}		Max	Min	Max				Fig
			P _D	I _D	I _G	V _{GS}	V _{DS}	V _{GS}	Min	Max	I _{GS}	mA/V	V _{GS} off	C _{in}	C _{out}	Noise	
			mW	mA	mA	V	V	V	mA	mA	nA		V	pF	pF	dB	
K5NT041A*	SFP	85							0.1	0.7	2	0.3		4	2	2	54
K5NT041B*	SFP	85							0.4	1.5	2	0.5		4	2	2	54
K5NT041V*	SFP	85							1.0	2.0	2	0.8		4	2	2	54
K5NT043A*	SFP	85							1.5	7.5	2	1.5					54
K5NT043B*	SFP	85							5	15	2	3.0					54
K5NT043V*	SFP	85							10	20	2	5.0					54
K5US041A*	SFP	85										10					54
K5US041B*	SFP	85										40					54
K5US041V*	SFP	85										80					54
KP101D *	SFP	80					10		0.3	5	50	0.3	10	12		10	34
KP101G *	SFP	80					10		0.2	2	10	0.2	5	12			34
KP101YE*	SFP	80					10		0.3	5	50	0.3	10	12			34
KP102I *	SFP	70				15	15	10	0.7	1.8	15	0.4	5.3	10	5		30
KP102K *	SFP	70				15	15	10	1.3	3.0	15	0.5	7.5	10	5		30
KP102L *	SFP	70				15	15	10	2.4	6.0	15	0.7	10.0	10	5		30
KP102YE*	SFP	70				15	15	10	0.2	0.5	15	0.3	2.8	10	5		30
KP102ZH*	SFP	70				15	15	10	0.4	1.0	15	0.3	4.0	10	5		30
KP103I *	SFP	70				15	10		1.0	2.1	20	0.8	3.0	20	8	3	30
KP103K *	SFP	70				15	10		1.7	3.8	20	1.4	4.0	20	8	3	30
KP103L *	SFP	70				17	10		3.0	6.6	20	1.8	6.0	20	8	3	30
KP103M *	SFP	70				17	10		5.4	12.0	20	2.0	7.0	20	8	3	30
KP103YE*	SFP	70				15	10		0.3	0.7	20	0.4	1.5	20	8	3	30
KP103ZH*	SFP	70				15	10		0.6	1.2	20	0.7	2.2	20	8	3	30
KPS202A *	SFN	70	40			20	15		0.3	1.5	<1	0.5	2	6	2		
KPS202B *	SFN	70	40			20	15		0.3	1.5	<1	0.5	2	6	2		
KP202D *	SFN	70	40			20	15		0.4	1.5		0.7	2	6	2		
KPS202G *	SFN	70	40			20	15		1.1	3.0	1	1.0	3	6	2		
KPS202V *	SFN	70	40			20	15		0.4	1.5	1	0.7	2	6	2		
KP202YE*	SFN	70	40			20	15		1.1	3.0		1.0	3	6	2		
KP301B *	SFP	70				20	30	μ0.5			<1	1.0		<4	1		
KP302A *	SFN	100	300	24	6	20	20	10	3	24	10	5	5	20	8		44
KP302B *	SFN	100	300	43	6	20	20	10	18	43	10	7	7	20	8		44
KP302G *	SFN	100	300	360	6	10	20	10	15		10	5.0	7	20	8		
KP302V *	SPN	100	300	43	6	20	20	12	33		10		10	20	8		44
KP303A *	SFN	125	200	20	5	30	25	30	0.5	2.5	1	1	3	6	2		31
KP303B *	SFN	125	200	20	5	30	25	30	0.5	2.5	1	1	3	6	2		31
KP303D *	SFN	125	200	20	5	30	25	30	3	9	1	<3	8	6	2	4	31
KP303G *	SFN	125	200	20	5	30	25	30	3	12	<1	3	8	6	2		31
KP303I *	SFN	125	200	20	5	30	25	30	1.5	5.0	5	2	2	6	2		31
KP303V *	SFN	125	200	20	5	30	25	30	1.5	5	1	2	4	6	2		31
KP303YE*	SFN	125	200	20	5	30	25	30	5	20	1	4	8	6	2	4	31
KP303ZH*	SFN	125	200	20	5	30	25	30	0.3	3.0	5	1	3	6	2		31
KP304A *	SGP	125	200	30		30	25	30	μ0.2		20	4	5	9	6		31
KP305D *	SGN	125	150	15		15	15	15			1	5.2	6	5		7	31
KP305I *	SGN	125	150	15		15	15	15			1	4	6	5			31
KP305YE*	SGN	125	150	15		15	15	15			Sp	4	6	5			31
KP305ZH*	SGN	125	150	15		15	15	15			1	5.2	6	5		7	31
KP306A *	SG2	125	150	20n		20	25				5	3	0.5	5		7	31
KP306B *	SG2	125	150	20n		20	25				5	3	2	5		7	31
KP306V *	SG2	125	150	20n		20	25				5	3	3.5	5		7	31
KP307A *	SFN	85	250	25	5	27	27	27	3	9	1	4	3	5	<2		31
KP307B *	SFN	85	250	25	5	27	27	27	5	15	1	5	5	5	<2		31
KP307D *	SFN	85	250	25	5	27	27	27	8	24	1	6	6	5	<2		31
KP307G *	SFN	85	250	25	5	27	27	27	8	24	1	6	6	5	<2		31
KP307V *	SFN	85	250	25	5	27	27	27	5	15	1	5	5	5	<2		31
KP307YE*	SFN	85	250	25	5	27	27	27	1.5	5	1	3	2.5	5	<2		31
KP307ZH*	SFN	85	250	25	5	27	27	27	3	25	<1	4	7	5	<2		31
KP308A *	SFN	85	60	20	5	30	25	30	0.4	1	1	1	1.2	6	2		
KP308B *	SFN	85	60	20	5	30	25	30	0.8	1.6	1	1	1.8	6	2		
KP308D *	SFN	85	60	20	5	30	25	30			1		3	6	2		
KP308G *	SFN	85	60	20	5	30	25	30			1		6	6	2		
KP308V *	SFN	85	60	20	5	30	25	30	1.4	3	1	2	2.4	6	2		
KP312A *	SFN	85	100	25		25	20	25			10	4		4	1		45
KP312B *	SFN	85	100	25		25	20	25			10	2		6	4	1	45
KP313A *	SGN	85	75	15		15	15	10			10	4.5	6	7	<1		31
KP313B *	SGN	85	75	15		15	15	10			10	4.5	5	7	<1		31
KP313V *	SGN	85	75	15		15	15	10			10	4.5	5	7	<1		31
KP350V *	SF2	70	200	30		15	15		6	5	5	5	5	<1		31	
KP501A *	SFN	70		20		1h	50				50		50	50	50		40

Group XI- DIODES-RECTIFIERS

Type No.	Type	Maximum			Max @ 25 °C			Max			Recovery			f _{Max}	Fig
		I _F	T _{Op}	I _S	E _R	E _F @	I _F	I _R	E _R	T	τ _{rr} @	I _F	E _R		
		mA	°C	mA	V	V	mA	μA	V	°C	μs	mA	V		
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	75	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	125	10	1.0	90	250	10	20				1hk	1B
D9D	GEP	30	70	98	30	1.0	60	250	30	20				1hk	1B
D9G	GEP	30	70	98	30	1.0	30	250	30	20				1hk	1B
D9I	GEP	30	70	98	30	1.0	30	120	30	20				1hk	1B
D9K	GEP	30	70	98	30	1.0	60	60	30	20				1hk	1B
D9L	GEP	15	70	48	100	1.0	30	250	100	25				1hk	1B
D9M	GEP	30	70		30	1.0	60	250	50	20					1
D9V	GEP	20	70	62	30	1.0	10	250	30	25				1hk	1B
D9YE	GEP	20	70	62	50	1.0	30	250	50	25				1hk	1B
D9ZH	GEP	15	70	48	100	1.0	10	250	100	20				1hk	1B
D10	GEP	50	70		10	1.5	3	100	10	20				100M	2
D10A	GEP	50	70		10	1.5	5	200	10	20				100M	2
D10B	GEP	50	70		10	1.5	8	200	10	20				100M	2
D11	GEP	20	70		30	1.0	100	250	30	20				50M	2
D12	GEP	20	70		50	1.0	50	250	50	20				50M	2
D12A	GEP	20	70		50	1.0	100	250	50	20				50M	2
D13	GEP	20	70		75	1.0	100	250	75	20				50M	2
D14	GEP	20	70		100	1.0	30	250	100	20				50M	2
D14A	GEP	20	70		100	1.0	100	250	100	20				50M	2
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
D19B	GEP	45	70		20	1.0	45	100	20	50					1
D20	GEP	16	70		10	1.0	20	1m	20	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	2
D101A	SIP	30	150	100	75	1.0	1	10	75	125				600M	2
D102	SIP	30	150	100	50	2.0	2	10	50	125				600M	2
D102A	SIP	30	150	100	50	1.0	1	10	50	125				600M	2
KD102A	SID	100	100	2A	250	1.0	50	50	250	100					1A
KD102B	SID	100	100		300	1.0	50	100	300	100					1A
D103	SIP	30	150	100	30	2.0	2	30	30	125				100M	2
D103A	SIP	30	150	100	30	1.0	1	30	30	125				100M	2
KD103A	SID	100	100	2A	50	1.0	50	50	50	100	4.0	50	20		1A
KD103B	SID	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

Group XI- DIODES-RECTIFIERS

Type No.	Type	Maximum			Max @ 25 °C			Max			Recovery			f _{Max}	Fig
		I _F	T _{Op}	I _S	E _R	E _F @	I _F	I _R	E _R	T	r _{rr} @	I _F	E _R		
		mA	°C	mA	V	V	mA	μA	V	°C	μs	mA	V		
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				1k	7A
KD105B	* SIA	300		85	400	1.0	300	300	300	85				1k	7A
KD105G	* SID	300		85	800	1.0	300	300	800	85				1k	7A
KD105V	* SIA	300		85	600	1.0	300	300	450	85				1k	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	10	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
KD108G	SID	300		85	1k	1.0	300	300	1k	85				1k	7A
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				12h	13
KD202B	* SID	1A	130		50	1.0	1A	1000	50	120				12h	13
KD202D	* SID	3A	120		200	1.0	3000	1000	200	120				12h	13
KD202G	* SID	1A	120		100	1.0	1000	1000	100	120				12h	13
KD202I	* SID	1A	120		300	1.0	1000	1000	300	120				12h	13
KD202K	* SID	3A	120		400	1.0	3000	1000	400	120				12h	13
KD202L	* SID	1A	120		400	1.0	1000	1000	400	120				12h	13
KD202M	* SID	3A	120		500	1.0	3000	1000	500	120				12h	13
KD202N	* SID	1A	120		500	1.0	1000	1000	500	120				12h	13
KD202R	* SID	3A	120		600	1.0	3000	1000	600	120				12h	13
KD202S	* SID	1A	120		600	1.0	1000	1000	600	120				12h	13
KD202V	* SID	3A	120		100	1.0	3000	1000	100	120				12h	13
KD202YE	* SID	1A	120		200	1.0	1000	1000	200	120				12h	13
KD202ZH	* SID	3A	120		300	1.0	3000	1000	300	120				12h	13
D203	SIA	400	125		200	1.0	400	500	200	85				100k	13
KD203A	* SID	10A	100		600	1.0	10A	15h	600	100				1k	14
KD203B	* SID	10A	100		800	1.0	10A	15h	800	100				1k	14
KD203D	* SID	10A	100		1k	1.0	10A	15h	1k	100				1k	14
KD203G	* SID	10A	100		1k	1.0	10A	15h	1k	100				1k	14
KD203V	* SID	10A	100		800	1.0	10A	15h	800	100				1k	14
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
KD205A	* SIA	500	70		500	1.0	500	200	500	70				1k	19D
KD205B	* SIA	500	70		400	1.0	500	200	400	70				1k	19D
KD205D	* SIA	500	70		100	1.0	500	200	100	70				1k	19D
KD205G	* SIA	500	70		200	1.0	500	200	200	70				1k	19D
KD205V	* SIA	500	70		300	1.0	500	200	300	70				1k	19D
KD205YE	SIA	300	70		500	1.5	300	200	500	70				1k	19D
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
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	150	800	100				1k	9
KD217	* SID	100	100		800	1.0	100	150	800	100				1k	9
D218	* SIA	100	100		1000	1.0	100	150	1000	100				1k	9
D219A	* SIA	50	100	500	70	1.0	50	30	70	100	0.5	30	30		2
D219S	* SIA	50	120	500	100	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

Group XI- DIODES-RECTIFIERS

Type No.	Type	Maximum			Max @ 25 °C			Max			Recovery			f _{Max}	Fig
		I _F	T _{OP}	I _S	E _R	E _F @	I _F	I _R	E _R	T	τ _{rr} @	I _F	E _R		
		mA	°C	mA	V	V	mA	μA	V	°C	μs	mA	V		
D220S	* SIA	50	120	500		1.5	50								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	300	80				1k	9
D226D	* SIA	300	80		100	1.0	300	300	70	80				1k	9
D226G	* SIA	300	80		200	1.0	300	300	150	80				1k	9
D226V	* SIA	300	80		300	1.0	300	300	200	80				1k	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	* SID	400	85		300	1.0	400	500	300	85				1k	13
D229YE	* SID	400	85		400	1.0	400	500	400	85				1k	13
D229G	* SID	400	85		200	1.0	400	500	200	85				1k	13
D229V	* SID	400	85		100	1.0	400	500	100	85				1k	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	* SID	10A	130		100	1.25	10A	3m	100	120				1k	14
D242A, P*	SID	10A	130		100	1.0	10A	3m	100	120				1k	14
D242B, P*	SID	5A	130		100	1.5	5A	3m	100	120				1k	14
D243, P	* SID	10A	130		200	1.25	10A	3m	200	120				1k	14
D243A, P*	SID	10A	130		200	1.0	10A	3m	200	120				1k	14
D243B, P*	SID	5A	130		200	1.5	5A	3m	200	120				1k	14
D244, P	SID	10A	130		50	1.25	10A	3m	50	120				1k	14
D244A, P	SID	10A	130		50	1.0	10A	3m	50	120				1k	14
D244B, P	SID	5A	130		50	1.5	5A	3m	50	120				1k	14
D245	* SID	10A	130		300	1.25	10A	3m	300	120				1k	14
D245A	* SID	10A	130		300	1.0	10A	3m	300	120				1k	14
D245B	* SID	5A	130		300	1.5	5A	3m	300	120				1k	14
D246	* SID	10A	130		400	1.25	10A	3m	400	120				1k	14
D246A	* SID	10A	130		400	1.0	10A	3m	400	120				1k	14
D246B	* SID	5A	130		400	1.5	5A	3m	400	120				1k	14
D247	* SID	10A	130		500	1.25	10A	3m	500	120				1k	14
D247B	* SID	5A	130		500	1.5	5A	3m	500	120				1k	14
D248B	* SID	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	* GEM	250	60	800	20	0.5	500	100	20	70	0.3	500	20		2
D311	* GEM	40	70	500	30	0.4	10	100	30	25	0.05	50	10		2
D311A	* GEM	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	50	500	100	0.5	10	100	100	20	0.5	50	10		2
D312A	* GEM	50	60	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	SIM	30	100		75	1.0	5	5	75	25	2.0	10	30		2
ED401B	SIM	30	100		75	1.0	5	5	75	25	2.0	10	30		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

Group XI- DIODES-RECTIFIERS

Type No.	Type	Maximum			Max @ 25 °C			Max			Recovery			f _{Max}	Fig
		I _F	T _{Op}	I _S	E _R	E _F @	I _F	I _R	E _R	T	τ _{rr} @	I _F	E _R		
		mA	°C	mA	V	V	mA	μA	V	°C	μs	mA	V		
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
GD405A	* GEA	30	72		18	1.0	4	40	10						1A
GD406A	* GEA	30	72		25	1.0	7	100	18						1A
KD503A	* SPN	20	70	200	30	1.0	10				0.01	10	10		1
KD503B	* SPN	20	70	200	30	1.2	10				0.01	10	10		1
KD503V	SPN	10			10	1.3	10	1			0.05	10	10		2
KD504A	* SIA	240	100		40	1.2	100	2			0.01	300	30		5
GD507A	* GEB	16	60	100	20	0.5	16	50	20	25	0.1	20	10		2
KD509A	* SEN	150	85	15h	50	1.1	100				4.0n	10	10		5
KD510A	* SEN	250	85	15h	50	1.1	200				4.0n	10	10		5
KD512A	* SEN	20	100	200	15	1.0	10	100	15	100	1.0n	10	10		1
KD513A	* SEN	100	85	15h	50	1.1	100	100	50	85	4.0n	10	10		33A
KD514A	* SEN	50	85		10	1.0	10				0.1n				1C
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	600	2000	6.0	100	250	2000	100				1k	20A
D1005A	* SIA	50	100	300	4000	6.0	100	250	4000	100				1k	20A
D1005B	* SIA	100	100	600	4000	11.0	100	250	4000	100				1k	20B
D1006	* SIA	100	100	600	6000	11.0	100	250	6000	100				1k	20B
D1006A	* SIA	500	100	3A	6k	11.0	500	250	6k	100				1k	20B
D1007	* SIA	75	100	450	8000	11.0	100	250	8000	100				1k	20B
D1007A	* SIA	500	100	3A	8k	11.0	500	250	8k	100				1k	20B
D1008	* SIA	50	100	300	10k	11.0	500	250	10k	100				1k	20B
D1008A	* SIA	500	100	3A	10k	11.0	500	250	10k	100				1k	20B
D1009	* SIA	100	125	600	2000	4.0	100	300	2000	70				1k	18A
D1009A	* SIA	100	125	600	1000	3.0	100	300	1000	70				1k	19B
D1010	* SIA	300	125	18h	2000	8.0	300	300	2000	70				1k	18B
D1010A	* SIA	300	125	18h	1000	5.0	300	300	1000	70				1k	19C
D1011A	* SIA	300	125	18h	500	2.5	300	300	500	70				1k	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				50k	3
DGTS22	GEA	300	70		100	0.5	300	300	100	20				50k	3
DGTS23	GEA	300	70		150	0.5	300	300	150	20				50k	3
DGTS24	GEA	300	70		200	0.5	300	300	200	20				50k	3
DGTS25	GEA	100	70		300	0.3	100	300	300	20				50k	3
DGTS26	GEA	100	70		350	0.3	100	300	350	20				50k	3
DGTS27	GEA	100	70		400	0.3	100	300	400	20				50k	3

Group XI-A- DIODES-SWITCHING

Type	Nq.	Kind	Type	Switch range		Maximum current				Switchtime		Capacity pF	Fig No.
				Min	Max	Switch		I _F	Leak- age	Off	On		
						Off	On						
				V	V	mA	mA	mA	μA	μs	μs		
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	SI4	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	SI4	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}		Capacity pF	Fig No.	
			I _p mA	I _p /I _v		V _p mV	Min mV			Max mV
AI-101A	•	TUN GAS	1	5	160			4	23D	
AI-101B	•	TUN GAS	1	5	160			8	23D	
AI-101D	•	TUN GAS	2	6	160			10	23D	
AI-101G		TUN GAS	2	6	160			4	23D	
AI-101I	•	TUN GAS	5	6	180			13	23D	
AI-101V	•	TUN GAS	2	6	160			5	23D	
AI-101YE	•	TUN GAS	5	6	180			8	23D	
AI-101ZH		TUN GAS	5	6	180			6	23D	
AI-201A	•	TUN GAS	10	10	180			3	23D	
AI-201B		TUN GAS	10	10	180			6	23D	
AI-201D		TUN GAS	20	10	200			7	23D	
AI-201G	•	TUN GAS	20	10	200			10	23D	
AI-201I	•	TUN GAS	50	10	260			30	23D	
AI-201K	•	TUN GAS	n1	10	330			20	23D	
AI-201L	•	TUN GAS	n1	10	330			50	23D	
AI-201V	•	TUN GAS	10	10	180			15	23D	
AI-201YE	•	TUN GAS	20	10	200			20	23D	
AI-201ZH	•	TUN GAS	50	10	260			15	23D	
AI-301A	•	TUN GAS	2	8	180	650		12	23D	
AI-301B	•	TUN GAS	5	8	180	850	1150	25	23D	
AI-301G	•	TUN GAS	10	8	180	800		50	23D	
AI-301V	•	TUN GAS	5	8	180	1000	1300	25	23D	
1I-302A		TUN GE	2.3	4.5	60		400	80	23A	
1I-302B		TUN GE	5.3	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	
GI304A	•	TUN GEA	5.1	5	75	420		20	23A	
GI304B	•	TUN GEA	5.5	5	75	420		20	23A	
GI305A	•	TUN GEA	10.1	5	85	430		30	23A	
GI305B	•	TUN GEA	11.0	5	85	430		30	23A	
GI307A	•	TUN GEA	2	7	400			4	23A	
GI401A	•	TUN GEA						13	23C	
GI401B	•	TUN GEA						5	23C	
AT402B	•	TUN GAS	0.1					4	23D	
AT402G	•	TUN GAS	0.1					3	23D	
AT402YE	•	TUN GAS	0.2					2	23D	
GI403A	•	TUN GEA	1n					8	23A	

Group XI-C- DIODES-SWITCH CONTROL

Type No.	Kind	Type	Voltage		Maximum currents				Power		Time max		Temp		Fig No.
			Switch	Res	Cont	Switch	On	Leak	Max	K _θ	Off	On	Min	Max	
			Max V	Max V	Max mA	Max mA	mA	mA	W	mW/°C	μs	μs	(-) °C	(+) °C	
D235A	CØN	SI	40	2	20	100	2	1	4	120	5	35	60	125	15
D235B	CØN	SI	100	2	20	100	2	1	4	120	5	35	60	125	15
D235G	CØN	SI	100	2	20	100	2	1	4	120	5	35	60	125	15
D235V	CØN	SI	40	2	20	100	2	1	4	120	5	35	60	125	15
D238A	CØN	SI	50	2			10		20	330	10	35	50	100	33
D238B	CØN	SI	100	2			10		20	330	10	35	50	100	33
D238D	CØN	SI	100	2			10		20	330	10	35	50	100	33
D238G	CØN	SI	50	2			10		20	330	10	35	50	100	33
D238V	CØN	SI	150	2			10		20	330	10	35	50	100	33
D238YE	CØN	SI	150	2			10		20	330	10	35	50	100	33

Group XI-D- DIODES-VARACTORS

Type No.	Kind	Type	Maximum		Capacity @ 4V				Q	Power Max mW	Temp		Fig No.
			Volts	I _R	Min	Max	TC	Exp			Min	Max	
			V	μA	pF	pF		(-)			(-) °C	(+) °C	
KV101A	* VAR	SID	4		160	240			12		10	55	23D
KV102A	* VAR	SID	45	1	14	23	3	4	40	90	40	85	1A
KV102B	* VAR	SID	45	1	19	30	3	4	40	90	40	85	1A
KV102D	* VAR	SID	45	1	19	30	4	4	40	90	40	85	1A
KV102G	* VAR	SID	45	1	19	30	3	4	100	90	40	85	1A
KV102V	* VAR	SID	80	1	25	40	3	4	40	90	40	85	1A
KV103A	* VAR	SID	80		18	32			50	5W	40	85	1A
KV103B	* VAR	SID	80		28	48			40	5W	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
KV106A	* VAR	SID	120		20	50			40	5W	55	100	13
KV106B	* VAR	SID	90		15	35			60	5W	55	100	13
KA602A	VAR	SEN	60	100	<5	<9				25h	60	100	30A
KA602B	VAR	SEN	60	100	<3	<5				15h	60	100	30A
D901A	* VAR	SIA	80	1	22	32	4	4	25	250	55	85	8
D901B	* VAR	SIA	45	1	22	32	3	4	30	250	55	85	8
D901D	* VAR	SIA	80	1	34	44	4	4	25	250	55	85	8
D901G	* VAR	SIA	45	1	28	38	3	4	30	250	55	85	8
D901V	* VAR	SIA	80	1	28	38	4	4	25	250	55	85	8
D901YE	* VAR	SIA	45	1	34	44	3	4	30	250	55	85	8
D902	* VAR	SIA	25	10	6	12			30	250	40	100	2

Group XI-E- LIGHT EMITTING DIODES

Type No.	Kind	Type	Output Cd/m ² *mW	I _F Typ mA	E _F Typ V	I _F Max mA	Temp- ature		Fig No.
							Min -°C	Max +°C	
KL101A	* LED	SCD	10	10	5.5	10	10	70	39
KL101B	* LED	SCD	15	20	5.5	20	10	70	39
KL101V	* LED	SCD	20	40	5.5	40	10	70	39
AL102A	* LED	GPE	5	5	3.2	10	60	70	40
AL102B	* LED	GPE	40	20	4.5	20	60	70	40
AL102V	* LED	GPE	50	30	5.0	30	60	70	40
AL103A	* LED	GAE	*1	50	1.6		60	85	41
AL103B	* LED	GAE	*0.6	50	1.6		60	85	41
KL104A	* DIN	SCD	15	10	5.5		10	70	42

Group XI-F- HALL TRANSDUCERS

Type No.	Kind	I max mA	Mean Sens mV/mA T	TC Sens %/°C	Impedance		TC Res %/°C	Non- Equi Potential x 10 ⁻³ Ω	Active Area mm ²	Max	
					In Ω	Out Ω				Lgth mm	Width mm
DKHG-05	* GE	30	.085	0.03	40	90	0.6	3.0	20	10	7
DKHG-05M	* GE	12	.085	0.03	40	120	0.6	3.0	4.2	3	3
DKHG-05S	* GE	50	.085	0.03	40	110	0.6	1.1	72	15	10
DKHG-1	* GE	20	.17	0.3	120	200	0.5	2.1	20	10	7
DKHG-2	* GE	13	.35	0.3	200	320	0.5	2.0	18	10	7
DKHG-2S	* GE	22	.35	0.3	220	360	0.5	1.1	72	15	10
DKHG-2M	* GE	6	.35	0.3	200	350	0.5	1.1	4.2	3	3
K-7	* SI	10	45	0.08	500	1000	1.3	1.0	18	10	7
K-7M	* SI	5	45	0.08	500	1000	1.3	1.0	4.2	3	3
K-7S	* SI	20	45	0.08	500	1000	1.3	1.0	72	15	10
K-14	* SI	5	90	0.15	1100	2100	1.0	1.0	18	10	7

Group XI-G- MISCELLANEOUS DIODES

Type No.	Kind	Type	Current			Voltage		Max cap	Switching			Power mW	Fig No.
			I_F	I_S	I_R	V_F	V_R		Ratio	Damp	t_{rr}		
			mA	mA	μA	V	V	pF		dB	ns		
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
403A	BWD	GEA	100			0.12	<0.4	8					23A
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	5G		6.0	1.0		6.0			6		37
KD907A	* 1DA	SEN	10	700	6.0	1.0	40	4.0			4		37
KD907B	* 2DA	SEN	10	700	6.0	1.0	40	4.0			4		37
KD907G	* 4DA	SEN	10	700	6.0	1.0	40	4.0			4		37
KD907V	* 3DA	SEN	10	700	6.0	1.0	40	4.0			4		37
KD908A	* 8DA	SEN	200	15h	10.0	1.2	40	5.0			6		36
KD909	* 8DA	SI	200	800			40	5.0			50		38
KD909A	* 8DA	SEN					40	5.0			50		38
KD910A	* 1DA	SPN	2		0.5	0.5	5.0	1.5			5		39
KD910B	* 2DA	SPN	2		0.5	0.5	5.0	1.5			5		39
KD910V	* 3DA	SPN	2		0.5	0.5	5.0	1.5			5		39
KD911A	* 3DA	SPN	200	800	0.5	0.62	5.0				30		39

Group XII- DIODES- POWER RECTIFIERS

Type No.	Kind	Type	I _F @ 25°C	Mfg. Range		E _F V	I _g Max @ 140°C mA	I _s @		t _{dt} @ 25°C ms	θ °C/W	Temp		Cooling Rate	
								25°C	Time			Min	Max	Med	m/s or l/s
				From V	To V			A	ms			°C	°C		
V2=500	* REC SI		500	800	2k		5	6000	12	180		40	140		
V2=320	* REC SI		320	100	22h		10	5500		211		50	140	AF	12
V6=500	* REC SI		500	16h	4k		18	11h		500		50	140	AF	12
V=500	* REC SI		500	100	22h		10	8h		320		50	140	AF	12
V=800	* REC SI		800	100	1k		10	12h		720		50	140	AF	12
V=320	* REC SI		320	100	1k		10	5h		125		50	140	AF	12
VL=10	* REC SI		10	700	15h	0.6	1	10	5S		1.5			AN	
VL=25	* REC SI		25	700	15h	0.6	2	100	5S		1.2			AN	
VL=50	* REC SI		50	700	15h	0.6	3	200	5S		0.7			AN	
VL=200	* REC SI		200	700	15h	0.7	5	260	1S		0.18			FA	12
VL=320	* REC SI		320	700	15h	0.8	5	410	1S		0.14			FA	12
VLV=500	* REC SI		500	700	15h	0.8	5	650	1S		0.14			W	4
VLV=320	* REC SI		320	700	15h	0.75	5	410	1S		0.14			W	4
VK2=10	* REC SI		10	150	1k	0.7	2	62	10			40	120	FA	5
VK2=25	* REC SI		25	150	1k	0.7	5	94	10			40	120	FA	3
VK2=50	* REC SI		50	150	1k	0.7	10	460	10			40	120	FA	5
VK2=100	* REC SI		100	100	700	0.7	10					40	120		
VK2=200	* REC SI		200	100	700	0.7	20	950				40	120	FA	12
VK2V=350	* REC SI		350	50	900	0.75	35					40	120		
VK2V=500	* REC SI		500	50	900	0.9	50					40	120		
VK=10	* REC SI		10	50	800	0.9						200		AN	
VK=25	* REC SI		25	50	600	0.9								FA	
VK=50	* REC SI		50	50	600	0.9								FA	
VK=100	* REC SI		100	50	600	0.9								FA	
VK=200	* REC SI		200	50	500	0.9								FA	
VKV=200	* REC SI		200	50	500	0.9								W	4
VKV=1000	* REC SI		1000	50	200	0.9								W	4
VKV=500	* REC SI		500	50	300	0.9								W	4

Group XII-A- SILICON CONTROLLED DIODES-HIGH POWER

Type No.	Kind	Type	Mfg. Range		Ratings			Time		Control		Min Rise Rate		t_1 @ Pulse (w 10 ms) kA^2/s	Cooling		Fig No
			Min	Max	V_F	I_F	I_R	Turn		V_g	I_g	$V/\mu s$ dv/dt	$A/\mu s$ di/dt				
								on μs	off μs								
															V	A	
VKDU=25	* THY	SI4	50	1k	0.8	25	10								FA	10 25	
VKDU=50	* THY	SI4	50	1k	0.8	50	10								FA	6 26A	
VKDU=100	* THY	SI4	50	1k	0.9	100	20								FA	12 26B	
VKDU=150	* THY	SI4	50	1k	0.75	150	20								FA	12 26B	
VKDUV=200	* THY	SI4	50	1k	0.9	200	20								W	4 27B	
VKDUS=50	* THY	SIS	50	600	1.0	50	20	20	70	420					FA	10	
VKDUS=75	* THY	SIS	50	600	0.9	75	20	20	70	420					FA	10	
VKDUS=100	* THY	SIS	50	600	0.75	100	20	20	70	420					FA	10	
VKDUS=150	* THY	SIS	50	600	0.75	150	20	20	70	10 420					FA	12	
VKDUSV=150	* THY	SIS	50	600	0.9	150	20	20	70	10 420					W	3	
TL=160	* THY	SI4	400	1k	0.9	160	10			8 400					FA	12	
TL=250	* THY	SI4	500	800	0.8	250	10			8 400					FA	12 26B	
TLV=200	* THY	SI4	500	800	0.9	200	10			8 400					W	4	
TLV=320	* THY	SI4	500	800	0.9	320	10			8 400					W	4	
T=500	* THY	SI4	80	12h	1.0	500	15	15	250	8 600	10	20	245	FA	12		
T=320	* THY	SI4	80	12h	1.0	320	15	15	250	8 600	10	20	125	FA	12		
TL=250	* THY	SI4	300	800	0.8	250	10	20	100	8 400	100	20	80	FA	12		
T6=250	* THY			900		250	30	7	50	8 500	50	100	80	FA	12		
TV7=320	* THY			900		320	30	7	50	8 500	50	100		W	6		
TV=400	* THY			900		400	30	7	50	8 500	50	100	80	W	6		
TS=125	* THY	SIS		1k		125	60	20	250	7 400	20	10		FA	10		
TS=160	* THY	SIS		1k		160	60	20	250	7 400	20	10		FA	12		
VKU=10	THY		50	600	1.4	10	20			20 1A				FA	10 24		
VKU=20	THY		50	600	1.4	20	20			20 1A				FA	10 25		
VKU=50	THY		50	600	1.4	50	20			20 1A				FA	15 25		
VKU=100	THY		50	600	1.4	100	20			20 2A				FA	15 26A		
VKUV=100	THY		50	600	1.4	100	20			20 2A				W	5 27A		

Group XII-B- SILICON CONTROLLED DIODES-LOW POWER

Type No.	Kind	Voltages					Currents					Time t_q μs	Temp max °C	Fig No
		E_F		V_{BO} V	E_F V	E_R V	I_F mA	I_{Sat} mA	max I_S mA	I Holding				
		max V	Surge V							min mA	max mA			
KN102A	* SIA	5	10	20	1.5	0.5	200	250	2k	0.1	15	40	70	11
KN102B	* SIA	7	10	28	1.5	0.5	200	250	2k	0.1	15	40	70	11
KN102D	* SIA	20	10	80	1.5	0.5	200	250	2k	0.1	15	40	70	11
KN102G	* SIA	14	10	56	1.5	0.5	200	250	2k	0.1	15	40	70	11
KN102I	* SIA	50	10	150	1.5	0.5	20	250	2k	0.1	15	40	70	11
KN102V	* SIA	10	10	40	1.5	0.5	200	250	2k	0.1	15	40	70	11
KN102ZH	* SIA	30	10	120	1.5	0.5	200	250	2k	0.1	15	40	70	11

Group XII-C- SILICON CONTROLLED RECTIFIERS

Type No.	Kind	Forward		Gate		Maximum control			Time		Maximum						Fig No	
		Operating		Trigger		V_{GQ} V	I_{GQ} mA	I_Q mA	t_t μs	t_q μs	I_F mA	P mW	I_{GF} mA	V_{GF} V	I_{GR} mA	V_{GR} V		Gate Power mW
		E_F V	I_F mA	V_{GT} V	I_{GT} mA													
KU101A	* TRI	50	75		<8				25	2	35	1A	150	15	2			500 13
KU101B	* TRI	50	75		<8				25	2	35	1A	150	15	2			500 13
KU101G	* TRI	80	75		<8				25	2	35	1A	150	15	2			500 13
KU101YE	* TRI	100	75		<8				25	2	35	1A	150	15	2			500 13
KU201A	* TRI	25	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201B	* TRI	25	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201D	* TRI	100	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201G	* TRI	50	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201I	* TRI	200	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201K	* TRI	300	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201L	* TRI	300	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201V	* TRI	50	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201YE	* TRI	100	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU201ZH	* TRI	200	2A	7	100				1h	10	100	10A	4W	200	10	5	10	1W 15
KU202A	* TRI	25	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202B	* TRI	25	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202D	* TRI	100	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202G	* TRI	50	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202I	* TRI	200	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202K	* TRI	300	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202L	* TRI	300	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202M	* TRI	400	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202N	* TRI	400	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202V	* TRI	50	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202YE	* TRI	100	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU202ZH	* TRI	200	10A	5	100				3h	10	150	30A	20W	300	10	5	10	15h 15
KU204A	* TRI	50	5	5	150	36	400					8W	600			100	17h 14	
KU204B	* TRI	100	5	5	150	36	400					8W	600			100	17h 14	
KU204V	* TRI	200	5	5	150	36	400					8W	600			100	17h 14	
T=320V	* TRI	15h							15		5kA		600	8				
TCH=10	* TRI	1k	10A	2					6	15			800					
TCH=25	* TRI	1k	25A	2					6	15			800					
TCH=50	* TRI	1k	50A	<2					6	15			900					
TCH100	* TRI	1k	1hA	<2					6	15			1k					
TCH125	* TRI	1k	1hA	<2					6	15			1k					
TD=20	* TRI	16h	20A								20	3hA			3			
TD=25	* TRI	16h	25A								20	6hA			3			
TD=40	* TRI	16h	40A								20	8hA			4			
TD=63	* TRI	16h	63A								20	11hA			4			
TD=80	* TRI	16h	80A								20	14hA			4			
TD=100	* TRI	16h	1hA								20	16hA			4			
TD=125	* TRI	16h	1hA								20	19hA			4			
TD=160	* TRI	16h	1hA								20	23hA			4			
TD=200	* TRI	16h	2hA								20	28hA			4			
TD=250	* TRI	16h	2hA								20	35hA			5			
TD=320A	* TRI	16h	3hA								20	40hA			5			
TD=320B	* TRI	16h	3hA								20	40hA			5			
TI=800	* TRI	600		4	15,				3	10	8hA		5A	40				
TI1600	* TRI	500		4	15,				5	10	1chA		5A	40				
TS=10	* TRI	12h	10A						10	200	1hA		150	7				

Group XIII- REGULATORS

Type No.	Kind	Type	Maximum			Typical			Max Z Ω	TC %/°C	K _g mW/°C	Fig No.
			I _z	T _{opr}	P _Z	E _Z	ΔE_z	I _z				
			mA	°C	mW	V	%	mA				
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	SIA	81	100	300	3.3	10	10.0	65	.1		12
KS139A	* REG	SIA	70	100	300	3.9	10	10.0	60	.1		12
KS147A	* REG	SIA	58	100	300	4.7	10	10.0	56	.08		12
KS156A	* REG	SIA	55	100	300	5.6	10	10.0	46	.05		12
KS162A	* REG	SIA	22	100	500	6.2	7	10.0	150	.06		33B
KS162B	* REG	SIA	20	100	500	6.8	7	10.0	120	.05		33B
KS168A	* REG	SIA	45	100	300	6.8	10	10.0	28	.06		12
KS170A	* REG	SIA	20	100	500	7.0	4	10.0	90	.01		33B
KS175A	* REG	SIA	18	100	500	7.5	7	5.0	70	.04		33B
KS182A	* REG	SIA	17	100	500	8.2	7	5.0	30	.05		33B
KS191A	* REG	SIA	15	100	500	9.1	7	5.0	30	.06		33B
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		
KS196A	* REG	SIA	20	100	500	9.4	5	10.0	70	.5		12
KS196B	* REG	SIA	20	100	500	9.4	5	10.0	70	.25		12
KS196G	* REG	SIA	20	100	500	9.4	5	10.0	70	.05		12
KS196V	* REG	SIA	20	100	500	9.4	5	10.0	70	.10		12
KS210B	* REG	SIA	14	100	500	10.0	7	5.0	35	.07		33B
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
KS213B	* REG	SIA	10	100	500	13.0	7	5.0	45	.08		33B
KS433A	* REG	SIA	191	125	1W	3.3	10	60	180	.10		12
KS439A	* REG	SIA	176	125	1W	3.9	10	51	180	.10		12
KS447A	* REG	SIA	159	125	1W	4.7	10	43	180	.08		12
KS456A	* REG	SIA	139	125	1W	5.6	10	36	145	.05		12
KS468A	* REG	SIA	119	125	1W	6.8	10	29	70	.05		12
KS482A	* REG	SIA	96	125	1W	8.2	10	24	32	.08		12
KS515A	* REG	SIA	53	125	1W	15.0	10	13	35	.10		12
KS518A	* REG	SIA	45	125	1W	18.0	10	11	48	.11		12
KS522A	* REG	SIA	37	125	1W	22	10	9.0	60	.11		12
KS527A	* REG	SIA	30	125	1W	27	10	7.5	72	.11		12
KS620A	* REG	SIA	84	100	5W	120	15	50	150	.2		33
KS630A	* REG	SIA	72	100	5W	130	15	50	180	.2		33
KS650A	* REG	SIA	66	100	5W	150	15	25	235	.2		33
KS680A	* REG	SIA	56	100	5W	180	15	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	SIA	40	100	340	7.8	10	5.0	6	.07		8
D814-B	* REG	SIA	36	100	340	8.8	10	5.0	10	.08		8
D814-D	* REG	SIA	24	100	340	12.8	10	5.0	18	.095		8
D814-G	* REG	SIA	29	100	340	11.0	10	5.0	15	.095		8
D814-V	* REG	SIA	32	100	340	9.8	10	5.0	12	.09		8
D815A,P	* REG	SIA	14H	125	8W	5.6	15	50.0	.1	.056		13
D815B,P	* REG	SIA	11H	125	8W	6.8	15	50.0	1	.062		13
D815D,P	* REG	SIA	650	125	8W	12.0	15	25.0	3	.11		13
D815G,P	* REG	SIA	800	125	8W	10.0	15	25.0	.3	.10		13
D815I	* REG	SIA	14H	125	8W	4.7	15	50.0	.1	.056		13
D815V,P	* REG	SIA	950	125	8W	8.2	15	50.0	1	.088		13
D815ZE,P	* REG	SIA	550	125	8W	15.0	15	25.0	.4	.13		13
D815ZH,P	* REG	SIA	450	125	8W	18.0	15	25.0	.5	.14		13
D816A,P	* REG	SI	230	125	5W	22	10	10.0	7	.12		13
D816B,P	* REG	SIA	180	100	5W	27	15	15.0	12	.15		13
D816D,P	* REG	SIA	110	100	5W	47	15	15.0	22	.15		13
D816G,P	* REG	SIA	130	100	5W	39	15	15.0	18	.15		13
D816V,P	* REG	SIA	150	100	5W	33	15	15.0	15	.15		13
D817A,P	* REG	SIA	90	100	5W	56	15	50.0	52	.18		13
D817B,P	* REG	SIA	75	100	5W	68	15	50.0	60	.18		13
D817G,P	* REG	SIA	50	100	5W	100	15	50.0	60	.18		13
D817V,P	* REG	SIA	60	100	5W	52	15	50.0	75	.18		13
D818A	* REG	SID	33	100	300	9.0	10	11.0	25	.02	70	12

Group XIII- DIODES-REGULATORS

Type No.	Kind	Type	Maximum			Typical			Max Z Ω	TC $\%/^{\circ}\text{C}$	K _B mW/ $^{\circ}\text{C}$	Fig No.
			I _Z	T _{OPR}	P _Z	E _Z	ΔE_z	I _Z				
			mA	C	mW	V	%	mA				
D818B	* REG	SID	33	100	300	9.0	10	11.0	25	-.002	70	12
D818D	REG	SI	33	120	300	9.0		11.0	25	.002	70	8
D818G	* REG	SID	33	100	300	9.0	10	11.0	25	.005	70	12
D818V	* REG	SID	33	100	300	9.0	10	11.0	25	.01	70	12
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
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

Group XIV- DIODES-MIXERS AND DETECTORS

Type No.	Kind	Type	Typical wavelength cm	Maximum								I Sens A/W	Opr temp		Fig No.
				Res Ω	Lc dB	NF _o dB	VSWR	Pulse pwr		Pulse energy			Min (-) °C	Max (+) °C	
								Cont mW	Peak mW	Cont erg	Peak erg				
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	SIP	3.0	400	7.0		2.0	20	300	0.6	0.3		60	100	30
D405A	* MIX	SIP	3.0	500	6.5		1.7	20	300	1.0	0.3		60	100	30
D405AP	* MIX	SIP	3.0	500	6.5		1.7		80	1.0	0.3		60	100	30
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	7.5	1.3	100	500		0.5		60	125	30
D409A	* MIX	SI	9.8	575	7.5	21	1.7		300		0.7			30	
D409AP	* MIX	SI	9.8	575	7.5	21	1.7		300		0.7			30	
D501	* MUL	SIP		n.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			2.0		200			4.0	60	100	30
D604	* VID	SI	3.2	900		8.0	4.0	10	300			2.5	60	100	30
D605	* DET	SIP	3.2		14.0			600	2k				60	100	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	SIP	9.8						200			0.5	60	100	30
DK-I2M	* DET	SIP	3.2						200			0.2	60	100	30
DK-S1M	* MIX	SIP	9.8	400	8.5	2.7	3.5	80	300	0.3	2.0		60	100	30
DK-S2M	* MIX	SIP	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	2.0		100	0.3			60	80	29
DK-V1	* DET	SIP	9.8	15k				50	200			0.8	50	70	29
DK-V2	* DET	SIP	9.8	10k				50	100			1.2	50	70	29
DK-V3	* DET	SIP	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	* DET	SI	9.8	10k				50	200			0.8	60	100	30
DK-V6M	* DET	SI	9.8	25k				50	200			0.8	60	100	30
DK-V7M	* VID	SIP	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

Group XV- DIODES-PHOTOCONDUCTIVE DEVICES

Type No.	Kind	Maximum			Dark		Sensitivity			T.C.	Time constant μs	Temp		Weight gm	K area mm ²
		Volts V	Cur μA	Power mW	Resistance MΩ	Current μA	μA/lmV	Max μ	Cut off μ	%/°C		Min (-)°C	Max (+)°C		
FS=A0	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=A7	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=EG	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
SF=2=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		3
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
SF3=2A	CDSE	10	3k	50	5	2						60	70		
SF3=2B	CDSE	10	15h	50	1k	10m						60	70		
SF3=4A	CDSE	<2	2k	25	1	<2						60	70		
SF3=4B	CDSE	<2	12h	25	1h	15m						60	70		
SF=3=5	CDSE	6		50	2.0			0.74	1.1	1.5	10				8
SF3=7A	CDSE	20	2k	50	20	1						60	70		
SF3=7B	CDSE	20	12h	50	2k	10m						60	70		
SF=3=8	CDSE	50	750	50	20	<1		0.74	1.2	1.5	10				<2
SF3=16	CDSE	10	500	10	10	1						60	70		
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		50	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	30		15

Group XVI- PHOTO AND PHOTOMULTIPLIER TUBES

Type No.	Kind	Type	Bulb dimen			Cathode			Maximum			Output sens		Dynodes			Amplification	
			Shape	Diam mm	Lth mm	Area cm ²	Surl	Sens μ A/lm	E _b V	I _k μ A	Dark I		Min Amp/L	Opr E _b V	Design	Mat'l		No
											Amp	(-) Exp						
F-1	*PHO	VC T	39	93	43	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							
F13	* PHO		40	67			50	100		1	13							
F14	* PHO	T	19	55			80	90		1	7							
F15	* PHO	G	40	88			145	100										
F16	* PHO	T	55	55			100	20		1	13							
F17	* PHO	T	45	60				100		1	12							
F18	* PHO	T	26	26				100		1	8							
F21	* PHO		40	35			8	100		3	10							
F22	* PHO	T	37	40			50	100		1	13							
F23	* PHO	T	33	48			10	100		5	11							
F25	* PHO	T	31	45			120	100		8	14							
FEU-1	*PHM	G	40	124		S4	400	350		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	400	250		1	7		1	220				
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	42	S13	90	1500	100	5	8		1		L AMK	8 5		
FEU-4	*PHM	G	38	110	2	S20	600	240		1	14							
FEU-5	*PHM	T	34	100	2	S5	400	240		1	14							
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	*PHM	T	34	115	5	S10	40	2000	5m	1	7		30	1700	L CAM	12		
FEU-15A	*PHM	T	34	113	5	S10	40	2000		1	7		30	1700	V		12	
FEU-15B	*PHM	T	34	113	5	S10	20	2000		6	8		20	1700	V		12	
FEU-16	*PHM	T	34	115	5	S4	25	2000	5m	4	7		5	1700	L CAM	12		
FEU-16A	*PHM	T	34	113	5	S4	40	2000		1	7		30	1700	V		12	
FEU-17	*PHM	T	48	181	41	S2	20	1400	100	3	7		10	900	L		13	
FEU-17A	*PHM	T	48	181	41	S4	20	1400	100	3	7		10	900	L		13	
FEU-18	PHM	T	48	181	41	S5	20	1400	100	3	7		10	900	L		13	
FEU-18A	*PHM	T	48	181	41	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-19M	*PHM	T	34	200	19		10	2600		12	6		1	1100	V		12	
FEU-20	*PHM	T	34	95	42	S4	20	900	100	8	9		1	900	L		8	
FEU-22	*PHM	T	48	181	41	S1	25	2000	300	2	8		3	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	41	S4	20	900	75	5	8		11	900			7	
FEU-27	*PHM	T	30	108	5	S10	30	2000		5	9		1	1100			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 5		
FEU-33	*SCC	T	48	195	9	S4	30	2900		1	6		100	2100	L		13 7	
FEU-34	PHM					S13	30	2700		1	5		1000		L		13	
FEU-35	*PHM	T	31	143	5	S4	40	1750	50	2	9		1	1700	L		8	
FEU-36	*PHM	T	48	195	9	S4	40	2900	200	2	5		100	1500	L		13	
FEU-37	*PHM	T	48	193	11	S4	30	2000	200	5	6		1000	2000	L		11	
FEU-38	*PHM	T	48	200	9	S20	100	2900	400	5	6			1500	L		13	

Group XVI- PHOTO AND PHOTOMULTIPLIER TUBES

Type No.	Kind	Type	Bulb dimen			Cathode		Maximum				Output sens		Dynodes			Amplification	
			Shape	Diam mm	Lth mm	Area cm ²	Surf	Sens μ A/lm	E _b V	I _k μ A	Dark I		Min Amp/L	Opr E _b V	Design	Mat'l		No.
											Amp	(-) Exp						
FEU-39	*PHM	T	48	178		9		10	2600		12	6	1	1100	V		11	
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	202	180	S20		50	2500	10B	3	6	10	1650	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	28	S20		50	2500	10B	5	8	10	1700	V	CAM	12	7
FEU-53	*PHM	T	51	110	16	S4		25	2500	10B	1	7	2000	2500	V	CAM	14	7
FEU-54	*PHM	T	22	90	2	S4		20	1800	500	8	7	25	1700	V		14	
FEU-55	*PHM	T	22	90	2	S10		20	1800	500	8	7	25	1700	V		14	
FEU-56	*PHM	B	80	120	28	S4		30	2500	10B	8	8	10	1700	V		12	
FEU-57	*PHM	T																
FEU-58	*PHM	T	22	90	2	S4		15	2100	500	2	7	30	2000	V		14	
FEU-59	*PHM	T	51	107	15	S4		20		10B	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-69	*PHM	T	22	75	*1	S20		90	1350				10					
FEU-70	*PHM	T	34	125		S10		50	1800		6	9	100	1800				
FEU-74	*PHM	T	3	30	4			40	1500		3	10	10					
FEU-75	*PHM		15	70				60			4	10	1	1200				
FEU-77	*PHM	T	49	187	*1			100	2100	3hm	25	8	300					
FEU-78	*PHM	T	52	100	12			40	1900		1	9	100					
FEU-79	*PHM	T	44	155	*1			190	1950		2	8	1000					
FEU-80	*PHM																	
FEU-81	*PHM	T	52	122		S10		50	1800		8	8	100	1800				
FEU-82	*PHM	T	80	152		S10		50	2500		2	7	100	1800				
FEU-84	*PHM	T	34	118						5m			100					
FEU-85	*PHM	T	30	90	5	S4		80			3	8	100	900				
FEU-86	*PHM	T	20	87	*1			90	1050		7	9	100					
FEU-87	*PHM	T	30	110	12			43	2000		3	7	3000					
FEU-88	*PHM	T	30	85	*1			120	1500				10					
FEU-91	*PHM	T	35	110	*1			50	1800		5	7	100		V		12	
FEU-92	*PHM	T	35	110	*1			60	1900		5	8	100		V		12	
FEU-93	*PHM	T	52	120	13	S4		30	2500		5	8	10	1600	V		12	
FEU-96	*PHM	T			*1						3	10						
FEU-97	*PHM	T	52	110		S4		2000			7	9	30	1350				
FEU113	*PHM	T																
FEU114	*PHM	T																
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	5	S4		80	300	1	8	1	240				
STSV-4	*PHO	VC	G	39	129	114	S4		80	300	1	7	1	240				
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	240				
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- THERMOCOUPLES

Type No.	Kind	Dimen - sions		Typical		Response s	f _{max} MHz
		Diam mm	Lth mm	I _T mA	Thermo - elec mV		
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	43	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

Group XIX- THERMISTORS

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	
TCS=M	TMS	CEN	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			42	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	
ST1=27	TMS	IHT	48	10	CYL		33k		60	85			
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			
TSH=2	TMS	MEA					150	3.4			13.5	18	
ST3=14	TMS	MEA	26	2	PRB	42	22hk	4.2	60	125		30	
ST3=17	TMS	MEA				33	340	4.5	60	100		5h	
ST3=18			41			41	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	CEN				2	5	3.7	0	125		5h	
ST=3=24	TMS		41		DSC	680	33h	3.0	60	85			
ST=3=25	TMS		41		DSC	15h	33h	3.3	100	125	0.1	8	
ST=3=26	TMS					100	680	3.0	60	125			
ST3=32	TMS	MMC	20	4	DSC	13hk	26hk		40	70	12.4	19	25
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	
KMT=4	TMS	MEA	24	7	CYL	1	200	2.9	70	120			
ST=4=15	TMS	MEA	42	10		1500	1800	3.6	60	180		10	
KMT=5	TMS	MEA	5	14	CYL	1k	200k	2.9	70	120		4h	
KMT=6	TMS					10	1000	2.9	70	120		50	
KMT=8	TMS					100	10k	4.6	40	60			
KMT=8	TMS	CEN	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
KMT=9	TMS	CEN	43	19	DSC	10	5000	2.9	60	120		10	
T9	TMS		8	3	CYL	125					7	19	10
KMT10	TMS	CEN	30	6	CYL	100k	3M	5.1	0	120		2h	
KMT=11	TMS	CEN	44	41	CYL	100k	3M	5.1	0	120		2h	
KMT=12	TMS					100	10k	4.6	40	120			
KMT=12	TMS					5	5k	2.9	40	120		3	
KMT=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	

Group XX- STROBOTRONS

Type No.	Dimensions			Voltage			Power		Inter res Ω	Flash conditions				Light output			Life	
	Shape	Diam	Lth	MIN. Drop V	Oper V	Firing V	Avg W	Peak kW		Dischg Cap pF	Time μ s	Flash freq pps	Energy J	Freq cd/s	Avg cd	Peak cd	No. of flash	Hrs
		mm	mm															
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	7 μ	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	50 μ	5	3k		500
ISP70	T 0.5	70	900	1200	3000		70	10	1h	0.2	18	400	0.2	100 μ	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
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	P30	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	G85		2k	6k	20k	55h	10M	3.5	550	11h	0.55	10k	34k		30M	7k		
IFK80000	G1h		3k	6k	20k	18k	13M	2.5	39h	5k	0.25	70k	240k		36M	5k		

Group XXI- COUNTERS

Type No.	Kind	Radiation	Quenching	Cathode	Dimen sions		Plateau		Maximum Temp				Cap pF	Min R ₁ MΩ	
					Lth mm	Diam mm	Min V	Max V	Rate 10 ³ / mm	Plateau		Min (-) ^o C			Max (+) ^o C
										Width V	Slope %V				
AS=1	CØU	BAG			132	18	830	940		80	0.2	0	35		
SFK=1	CØU	UV	CU		177	32	1100	1350	3	200		10	40		
AS=2	CØU	BAG	AL		160	25	750	860		100	0.15	0	35		
GS=4	CØU	GAM	SQ	GR	180	23	1250	1450		200	0.1			25	8
GS=6	CØU	GAM	SQ	GR	266	23	1250	1450		200	0.1			25	8
GS=7	CØU	GAM	SQ	GR	145	16	1200	1300		150	0.1			25	30
GS=8	CØU	GAM	SQ	GR	185	16	1200	1300		150	0.1			25	30
GS=9	CØU	GAM	SQ	GR	367	33	1250	1450		250	0.1			25	8
GS=10	CØU	GAM	SQ	GR	225	16	1250	1450		150	0.1			25	30
GS=11	CØU	GAM	SQ	GR	185	33	1250	1450		200	0.1			25	8
GS=12	CØU	GAM	SQ	GR	145	16	1200	1300		150	0.1			25	30
GS=30	CØU	GAM	SQ	GR	662	33	1250	1450		150	0.1			25	8
GS=60	CØU	GAM	SQ	GR	667	63	1250	1450		150	0.1			25	8
MS=4	CØU	GAM	SQ	CU	180	23	820	880	65	200	0.1	40	50	25	8
MS=6	CØU	GAM	SQ	CU	266	23	820	880	20	200	0.1	40	50	25	8
MS=7	CØU	GAM	SQ	CU	145	16	800	860	28	100	0.15	25	30	25	30
MS=8	CØU	GAM	SQ	CU	185	16	800	860	55	100	0.15	25	30	25	30
MS=9	CØU	GAM	SQ	CU	367	33	870	930	280	250	0.10	40	50	25	8
MS=11	CØU	GAM	SQ	CU	185	33	870	930	105	200	0.10	40	50	25	8
MS=12	CØU	GAM	SQ	CU	145	16	790	850	15	100	0.15	25	30	25	30
MS=13	CØU	GAM	SQ	CU	100	23	870	930	30	200	0.15	40	50	25	8
MS=14	CØU	GAM	SQ	CU	160	23	870	930	70	200	0.15	40	50	25	8
MS=16	CØU	GAM	SQ	CU	250	23	870	930	120	200	0.10	40	50	25	8
MST=17	CØU	BET	SQ	CU	100	40	1600		10	150	0.05	30	50	10	7
MST=18	CØU	BET	SQ	CU	90	40	1650		10	150	0.03	20	40	10	7
MSTR=4	CØU	BET	SQ	CU	180	40	1350		25	200	0.05	5	35	25	8
SAT=7	CØU	ALP		NI	70	44	330	400		60	0.12	40	50		
SAT=8	CØU	AAB			48	15	500	1000		300	0.03	40	50		
SBM=7	CØU	BET	SQ	SS	335	26	800	2400		200	0.05		50		
SBM=8	CØU	BET	SQ	SS	335	26	800	2400		200	0.05		50		
SBS=1	CØU	BAG	SQ	SN	125	14	800	1200	2	150	0.03	50	50		
SBS=4	CØU	BET	SQ	GR	362	23	800	1200	2	150	0.03	50	50		
SBS=5	CØU	BET	SQ	GR	255	23	800	1200	2	150	0.03	50	50		
SBT=3	CØU	AAB			93	50	1800	2100		150	0.05	30	50		
SBT=7	CØU	BET		SS	72	20	320	420		80	0.12	40	50		
SBT=8	CØU	AAB		CU	75	20	1100	1700		150	0.03	30	30		
SBT=9	* CØU	BET	SQ	SS	72	11	320	420	100	80	0.12	30	50		
SBT=10	* CØU	AAB		LD	88	51	340	460	*1	80		30	50		
SGS=5	CØU	GAM	SQ	SS	60	8	320	440	2k	60	0.25	50	50		
SGS=6	CØU	GAM	SQ	SS	90	8	340	440		80	0.15	40	80		
SI=18G	CØU	BAG	SQ	NI	60	15	375	410		35		40	50	5	*1
SI=28	CØU	BET	SQ	SN	90	70	1350	1750	8	150	0.05	30	50	10	7
SI=28G	CØU	BAG	SQ	NI	60	15	375	410		35		40	50	5	3
SI=38G	* CØU	BAG	SQ		60	10	290	330	72	80	0.25	40	50		
SI=48G	CØU	BAG	SQ	NI	60	14	380	460		80	0.25	40	50		
SI=98G	CØU	BAG	SQ	FE	25	10				60	0.15	40	50		
SI=108G	CØU	BAG	SQ	NI	76	17	375	400		80	0.25	40	50		
SI=118G	* CØU	BAG	SQ	NI	75	17	375	400		80	1.25	40	50		
SI=128G	CØU	BAG	SQ	FE	73	12		900		80	0.2	50	100		
SI=13G	* CØU	GAM	SQ	NI	66	10	290	330		80	0.25	50	60		
SI=198G	* CØU	BET			18	9		390		80	0.3				
SI=19G	CØU	GAM	SQ	FE	94	11	280	320		100	0.13	40	50		
SI=20G	CØU	GAM	SQ	FE	180	19	285	335		100	0.13	40	50		
SI=21G	CØU	GAM	SQ	FE	265	19	285	335		100	0.13	40	50		
SI=22G	CØU	GAM	SQ	FE	220	19	285	335		100	0.13	40	50		
SNM=3	* CØU	NEU	SQ	SS	130	42	1400	1800		100	0.01	10	30	10G	
SNM=5	CØU	NEU	SQ	SS	300	35	1200	1800		100	0.05	20	30		
SNM=7	CØU	NEU	SQ	SS	650	35	1800	2500		100	0.05	0	30		
SNM=8	* CØU	NEU	SQ	SS	10h	94	2000	2500		150	0.05	0	30	10G	
SNM=9	* CØU	NEU	SQ	SS	133	1	1100	1500		1k	0.05	0	50		
STS=1	CØU	GAM	SQ	FE	94	16	280	320	60	80	0.12	40	50	10	5
STS=2	CØU	GAM	SQ	FE	180	24	285	335	40	80	0.12	40	50	10	5
STS=3	CØU	GAM	SQ	FE	265	23	285	335	30	80	0.12	40	50	10	5
STS=5	CØU	BET	SQ	FE	113	12	285	335	200	80	0.12	40	50	10	5
STS=6	CØU	BET	SQ	FE	200	22	285	335	60	80	0.12	40	50	10	5
STS=8	CØU	GAM	SQ	FE	220	23	285	335	40	80	0.12	40	50	10	5
T20BFL	CØU	AAB			7	20	1200	1300		300	0.01	20	40		
T25BFL	CØU	AAB			7	25	1300	1400		300	0.01	20	40		
T30BFL	CØU	AAB			7	30	1400	1500		300	0.01	20	40		
T40BFL	CØU	AAB			7	40	1500	1600		300	0.01	20	40		

Group XXI- COUNTERS

Type No.	Kind	Radiation	Quenching	Cathode	Dimen sions		Plateau		Maximum			Temp		Cap pF	Min M	R ₁ Ω
					Lth mm	Diam mm	Min V	Max V	Rate 10 ³ / mm	Plateau		°C Min (-)	°C Max (+)			
										Width V	Slope %V					
T50BFL	C8U	AAB			7	50	1500	1600		300	0.01	20	40			
T60BFL	C8U	AAB			7	60	1900	2000		300	0.01	20	40			
T80BFL	C8U	AAB			80	90	2000	2100		300	0.01	20	40			
VS=4	C8U	GAM	SQ W		180	23	720	800	25	200	0.07	40	50	25	8	
VS=6	C8U	GAM	SQ W		266	23	720	800	25	200	0.07	40	50	25	8	
VS=8	C8U	GAM	SQ W		185	16	720	800	25	150	0.07	40	50	25	30	
VS=9	C8U	GAM	SQ W		367	33	720	800	25	250	0.07	40	50	25	8	
VS=9T	C8U	GAM	SQ W		367	33	720	800	25	200	0.1	40	150	25	8	
VS=11	C8U	GAM	SQ W		185	33	720	800	25	200	0.07	40	50	25	8	
VS=13	C8U	GAM	SQ W		100	23	720	800	25	150	0.07	40	50	25	8	
VS=14	C8U	GAM	SQ W		160	23	720	800	25	200	0.07	40	50	25	8	
VS=16	C8U	GAM	SQ W		250	23	720	800	25	200	0.07	40	50	25	8	
SI10N	* C8U	NEU	SS		270	420	2850	2950		100	0.1	10	100			1G
SNMU=5	* C8U	NEU	SQ		300	429	1700	2200		100	0.05	20	30			10G
SNM=10	* C8U	NEU	SS		336	18	1500	3000			0.02	50	150			
SNM=11	* C8U	NEU	SS		336	18	1500	3000			0.01	50	150			
SNM=12	* C8U	NEU	SS		215	8	500	700			0.05	50	100			
SNM=13	* C8U	NEU	SS		85	8	450	600			0.05	50	100			
SNM=14	* C8U	NEU	SS		153	18	1500	3000			0.02	50	150			
SNM=15	* C8U	NEU	SS		21h	150	1800	2300	5		0.03	30	40			
SNM=16	* C8U	NEU	SS				2000	2800			0.03	50	150			
SNM=17	* C8U	NEU	SS				2000	2800			0.03	50	150			
SNM=18	* C8U	NEU	SS		320	32	1350				0.01	40	50	7		
SNM=20	* C8U	NEU	SS		270	420	1700	2200			0.05	10	100			1G
SNM=30	* C8U	NEU	SS				1800	2800			0.02	50	150			
SNM=31	* C8U	NEU	SS				1800	2800			0.02	50	150			
SNM=32	* C8U	NEU	SS		323	19	1500	3000			0.02	50	150			
SI=9A	* C8U	ALP			70	44	360	400		60	0.2					
SI=11N	* C8U	NEU			314			2950		200	0.05					
SRM=1N	* C8U				274	52		300								

Group XXII- DISCHARGE DIODES

Type No.	Dimen		Gas	Cath		Firing		Pulse			Min inter res	Max cap	Temp		
	Lth	Diam		Type	Kind	Min	Max	I-amp J-joule	Time s	Operating frequency pps			Min (-)°C	Max (+)°C	
															mm
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	BA6		600	140	8μ	300		100	1	60	70
R-4	• 20	7.5		C	BA6		75							60	50
R-5	• 41	22		C	BA6	160	250					100		60	100
R-6	• 110	55		C	WNB		800	2kW		200M		100	•3	60	100
R-7	• 50	18		HK	C BA6	270	330			2		20	10	60	100
R-8	• 50	20		HK	C BA6	450	550			2		20	10	60	100
R-9	• 55	20		HK	C BA6	900	1100			2		20	10	60	100
R-10	• 55	24		HK	C BA6	1350	1650			2		20	10	60	100
R-11	• 137	40		C	NI	2250	2750	2hμ						60	100
R-12	• 30	12		AR	C K	128	192	20	1μ	100		1000		60	70
R-18	• 36	14		AR	C K		1500	5hW		650M			•1	60	70
R-21	• 100	24		NA	C	1100	1500	500	30μ	40				60	100
R-24	• 112	24		NA	C	2000	6700	300	1hμ					60	100
R-54						7200	9800								
R-350	• 62	20		AR	C NI	310	390	3	2	0.002		5k	10	50	70
R-450	62	20		AR	C BA	440	480	3	2	0.002		5k	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	85
RB-3	• 41	22		C	BA	220	235	30	1hμ	7		100		60	100
RB-5	• 60	16		C	BA	340	460	10J		1		200		60	70
RB-5A	60	16		C	BA	370	510	•1J		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	80	100					100		60	70

Group XXIII- DECATRONS

Type No.	Kind	Voltages					I _K	Pulse	Counting Rate				Dimen		
		Ep	Typ	Typ	Typ	Pulse			Max	Min	Min	Max		Lth	Diam
		Firing	Oper	K-K	Reel	Unit						Exp			
		Min			Min										
		V	V	V	V	V	mA	μs	Hz			mm	mm		
Δ101	• DEC	420	375	150	40	150	0.45	200		.01	10	3	76	34	
Δ102	• DEC		430	210		165	1.5			.01	10	3	76	34	
Δ103	• DEC		430	275		140	0.85		50		10	3	76	34	
Δ106	• DEC		420	295		110	1.4				10	5	76	34	
Δ107	• DEC		440	290		50	1.75				10	6	38	18	
A108	• DEC		250	135		18	0.75		15		10	3	38	18	
OG=1	DEC	450	300	150	50		1.3	40			8	3	76	34	
OG=2	DEC	450	300	150	50		1.3	60			3	3	76	34	
OG=3	DEC	460	420	190	40		0.7	18			20	3	83	30	
OG=4	• DEC	425	420	175	35		0.5	160		.01	2	3	76	30	
OG=5	DEC	400	350	175	60		1.3	35			10	3	76	34	

Group XXIII-A - CHARACTER AND NUMERICAL INDICATORS

Type No.	Characters				Start- ing Voltage V	Current		Bulb			
	Alpha	Num	Symbol	Height		Max mA	Min mA	Shape	Height mm	Diam mm	Thick mm
IN=1	*	X	18	END	200	3.0	2.5	CIR	65.0	30.5	
IN=2	*	X	9	END	200	2.0	1.5	CIR	35.5	17.0	
IN=4	*	X	17	END	170	3.0	2.5	CIR	46.0	31.0	
IN=7	*	X	X 16	END	170	4.0	2.5	CIR	46.0	31.0	
IN=7A	*	X	X 16	END	170	4.0	2.5	CIR	46.0	31.0	
IN=7B	*		X 16	END	170	4.0	2.5	CIR	46.0	31.0	
IN=8	*		18	SIDE	140	3.0					
IN=8=2	*		18	SIDE	140	3.0					
IN=11	*	X	X 14	END	170	3.5	3.0	REC	36.0	31.0	28
IN=12A	*	X	X 18	END	170	3.0	2.5	REC	35.0	31.0	21
IN=12B	*	X	X 18	END	170	3.0	2.5	REC	35.0	31.0	21
IN=14	*	X	X 18	SIDE	170	3.0	2.5	CIR	54.5	19.0	
IN=15A	*	X	X 18	END	170	3.5	2.5	REC	31.0	28.0	21
IN=15B	*	X	X 18	END	170	3.5	2.5	REC	31.0	28.0	21

Group XXIV- LIGHT AMPLIFIERS

Type No.	Kind	K	Screen Color	Max dimen			Amp μ E _s V	Type X 10	Resol	
				K	Screen				Line per mm	
					mm	mm				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	

Group XXV- BASES

Base No	Section 1										Section 2										Sec 4		Deflection															
	H	H	K	g ₁	g ₂	g ₃	g ₄	A	Sh	H	H	K	g ₁	g ₂	g ₃	A	A ₁	K	A	A ₃	1					2												
																					D ₁	D ₂	D ₃	D ₄	D ₁	D ₂	D ₃	D ₄										
▲4	2	4	3	1	CP																																	
▲7	1	7	6	5	2										3CP																							
▲8	2	8	7	5	3										CP																							
▲9	2	7	6	4	CP																																	
▲12	11	2	3	8										4										6		9107												
▲14	11	4	2	3	9										5CP										CPCPCPCP													
▲20	12	3	5	16	11										CP										CPCPCPCP													
▲25	125	22	4	6	23										131415126										11		205421179818											
B7	3	4	2	5	7	6										CP																						
BT7	1	7	4	2	3	CP										63										CP												
B8	1	8	3	6	CP																																	
B9	3	9	1	8	6																																	
B12	11	21	1	210	6										CP																							
B14	11	4	2	3	9										5CP										CPCP107811													
C8	1	8	7	2	6	4										CP																						
C14	11	41	3	12CP	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	11	4	2	3	4	5										CPCP										CPCPCPCPCPCP												
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										57																								
DS6	2	5																																				
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	24										6																								
DW4	2	8	8	4										6																								
DW5	2	6	3	14										5										7														
DW6	3	4	5	7										1																								
DW7	2	7	8	3										5																								
DW8	1	3	2	4										5																								
DW9	3	4	1	7										5										2														
F8	1	8	7	6	3	5																																
G8	1	8	6	CP																																		
ID1	4	5	2	1	7										2										3													
ID2	4	5	3	1	7										2																							
ID3	4	5	7	8	1										6										39													
P1S	4	5	3	2	9	1	71																															
P3S	1	7	8	6	3	4	25																															
P4S	1	7	4	6	1	CP																																
P5S	1	8	2	3	5	67																																
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	67																															
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																															
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	5	1	7	3	8	4																															

Group XXV- BASES

Base No	Section 1									Section 2						1 st Sec		Deflection											
	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	A ₃	A ₄	A ₅	1				2				
																						D ₁	D ₂	D ₃	D ₄	D ₁	D ₂	D ₃	D 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																				
P42	1	2		6	5	4			CP	3																			
P43	1	2		6	5	2			CP	2																			
P44	4	5	1	7	2	1			CP																				
PD3	4	5	1	2	9	7			6									8											
PD5	2	7	1	5	4	1			3				8																
PD6	2	7	8	CP	6	1			3																				
PD7	4	5	2	1	7	2			6																				
PD8	6	8	3	1	2	3			CP																				
PD9	4	5	6	7	3	6			1																				
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																				
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															
PT2	7	8	6	CP	3	6			2																				
PT3	2	7	8	1	4	8			6																				
PT4	4	5	7	8	9	7			6	7																			
PT5	4	5	2	3	7	2			6	2																			
PT6	4	5	8	9	7	8			6																				
PT7	4	5	7	6	8	7			3	7																			
PT8	4	5	7	2	3	7			6																				
T1E	4	5	1	2	9				7	8																			
T1S	1	4		3					CP																				
T2E	4	5	1	8	CP				9																				
T3E	10	12	7	4	1				CP																				
T2S	4	5	1	2					7																				
T3S	1	4	5	3					2																				
T4E	4	5	2	1	7	2			6																				
T4S	4	5	1	8					CP																				
T5E	6	8	3	1	2	3			CP																				
T6E	1	7	4	6	3	4			CP																				
T7E	1	6	1	2	3				CP																				
T8E	3	7	2		1	5			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																			
T20	3	9	1	2	4				5	6																			
T21	5	10	1	3					4	2																			
T22	3	4	2	5	1				6																				
T23	3	4	2	1					6																				

Group XXV- BASES

Base No	Section 1										Section 2					A ₃	Sec 4		Deflection										
	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	A ₃	1				2			
																						D ₁	D ₂	D ₃	D ₄	D ₁	D ₂	D ₃	D ₄
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		2	3							5									
TD3	2	7	8	CP						3										4	5								
TD6	3	8	2	4						1		7	9							6									
TE1	1	6	4	8	5					2																			
TE2	1	7		2	CP					4																			
TE3	4	5		8	2					3			CP							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		1							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	3	4	CP													
7BQ	3	4	2	1						7																			
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																			

Group XXV- BASES

Base No.	Section 1								Section 2								A ₃	Sec 4	A ₃	Deflection 1				Deflection 2					
	H	H	K	g ₁	g ₂	g ₃	g ₄	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
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			8				5													
8B	2	7	8	4				3				5				6													
8BD	7	8	3	1				2				6	4			5													
8BS	7	8	2	1				3				4	5			6													
8BK	2	7	3	4	6	3		8																					
8CJ	1	9	2	3				4	5			8	7			6													
8E	2	7	8	CP	6	8		3								4	5												
8ES	2	7																											
8EC	2	7						CP																					
8N	2	7	5	4	6	3		8																					
8Q	7	8	3	2				6																					
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				8	9			1													
9AJ	4	5	3	2				1	9			8	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				7	6			9													
9EQ	4	5	1	2	9	8		7																					
10T	110	5	2	6				8																					
11L	111	210						7								4								3	6	9	8		
14A	114	2	3					4								9											1011	7	8
14G	114	2	3					9								5											11	7	810
14J	114	2	3					9								SCP											10	7	811

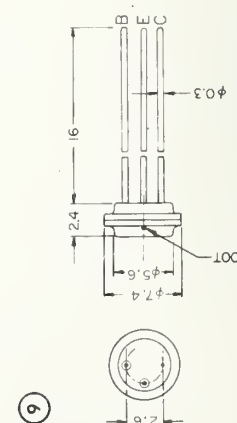
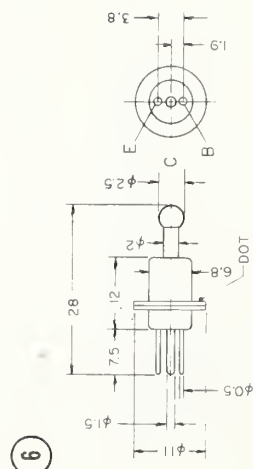
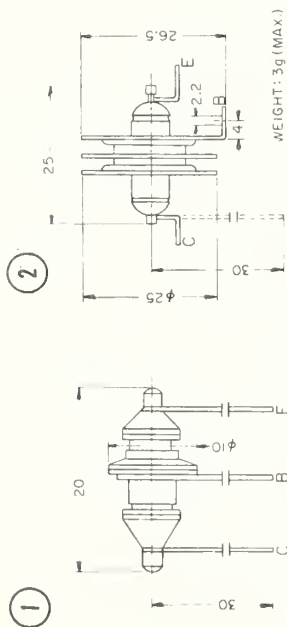


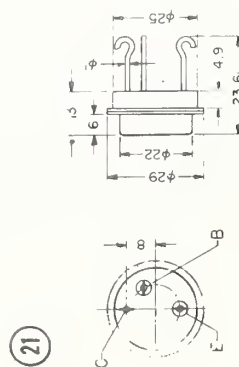
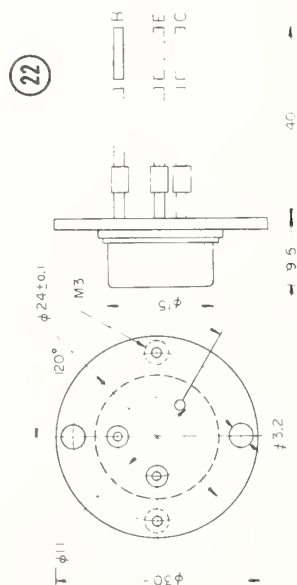
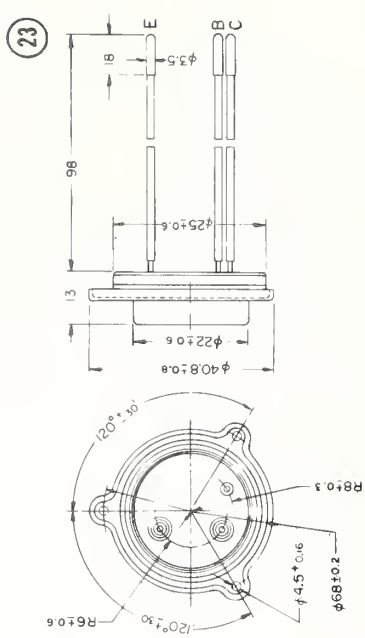
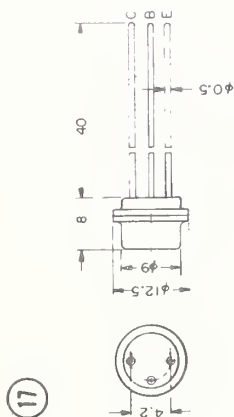
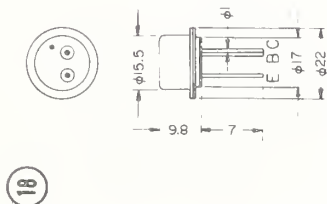
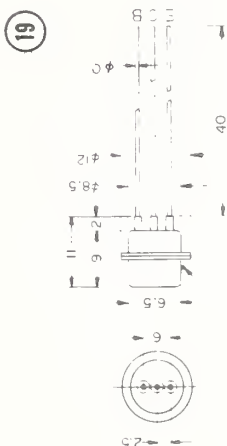
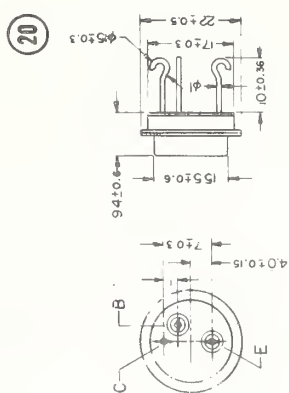
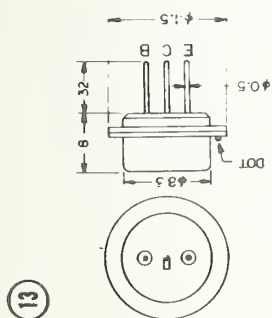
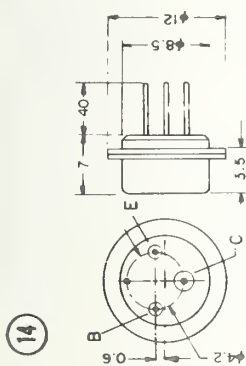
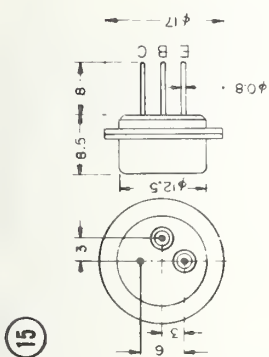
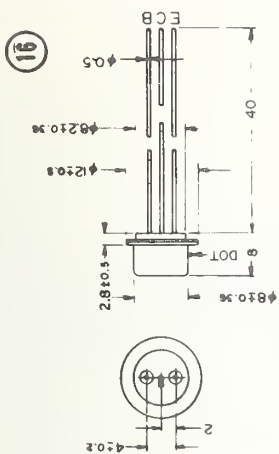
FIG. 9A LEADS ARE ARRANGED
E, C AND B DOWNWARD

NOTE: TYPE GT308
GT 313, GT323 &
GT 338 LEADS ARE

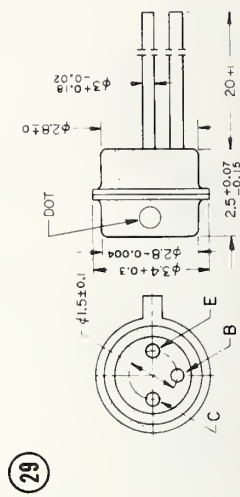
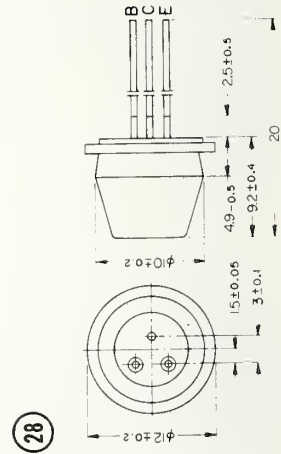
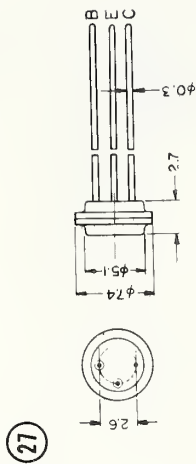
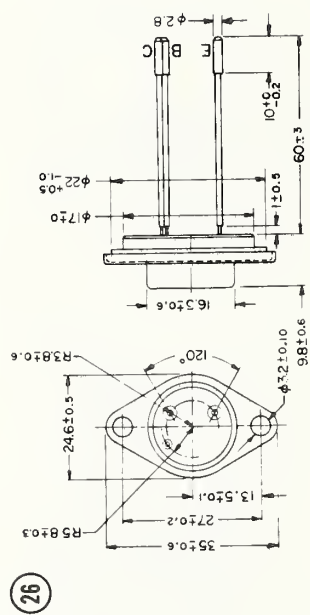
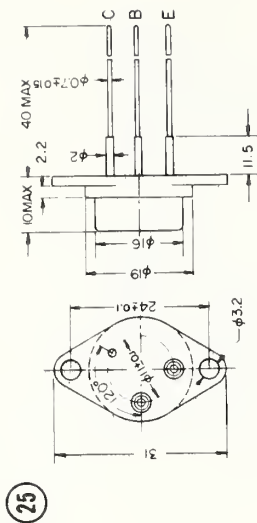
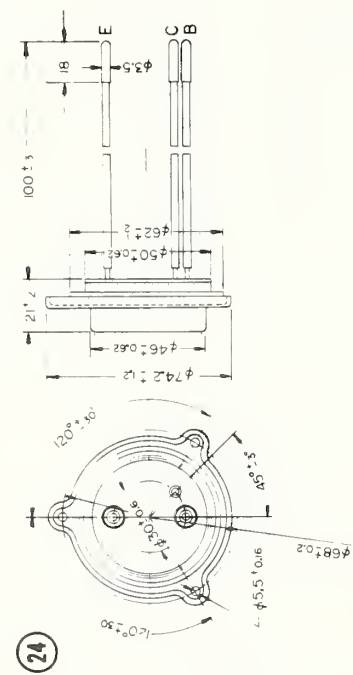
NOTE: TYPES GT 308, GT 311
AND GT 313
LEADS ARE ARRANGED
E, C AND B

TRANSISTOR OUTLINE DRAWINGS

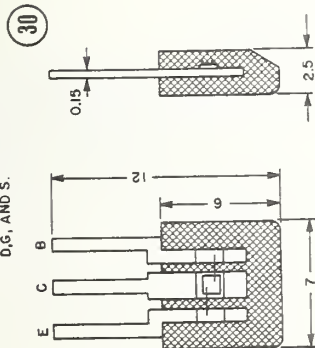
GROUP X



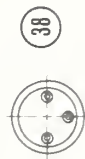
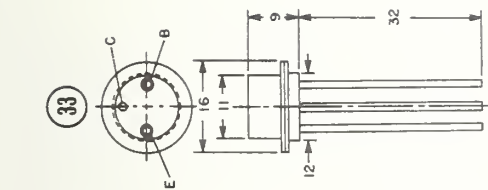
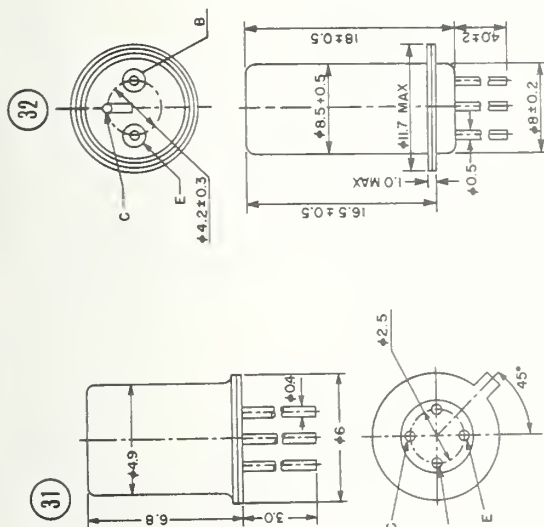
TRANSISTOR OUTLINE DRAWINGS



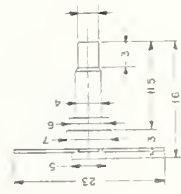
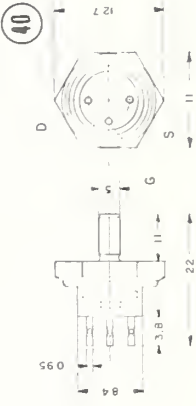
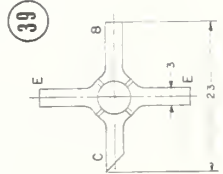
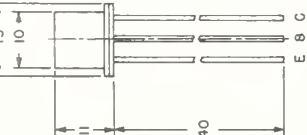
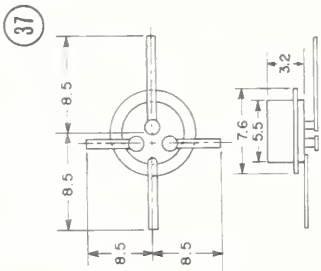
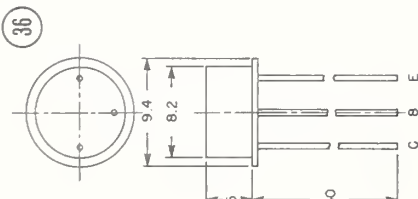
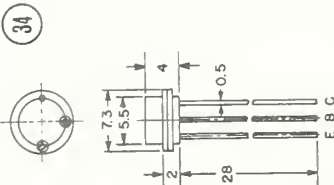
NOTE: TYPES KP102 AND KP103
LEADS ARE ARRANGED
D, G, AND S.



NOTE: TYPE KT339 LEADS ARE
B, E, C.
TYPE KP301 LEADS ARE
D, G, S.

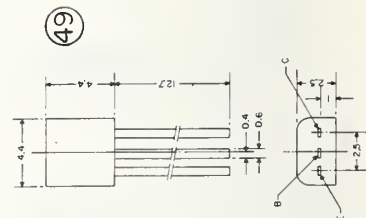
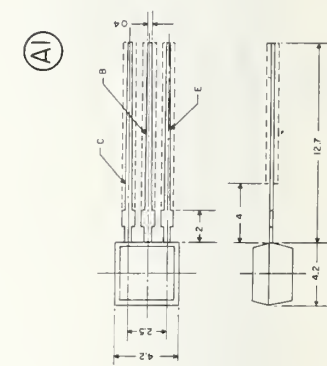
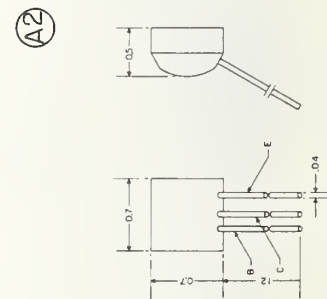
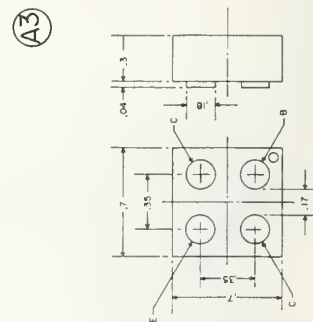
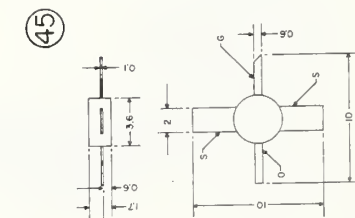
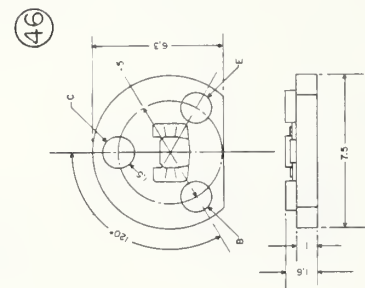
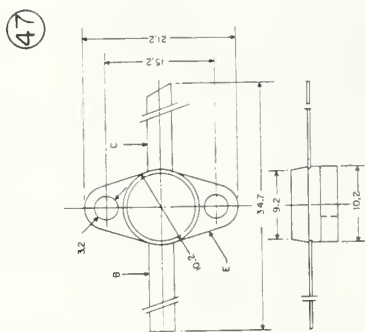
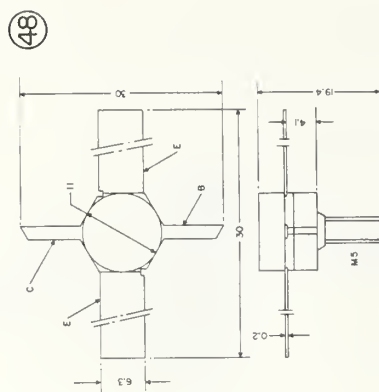
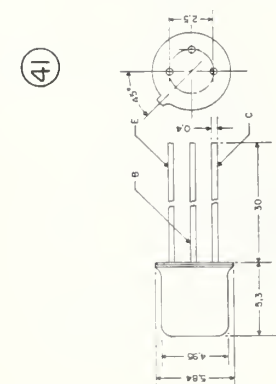
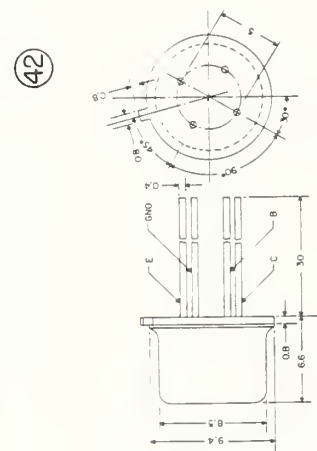
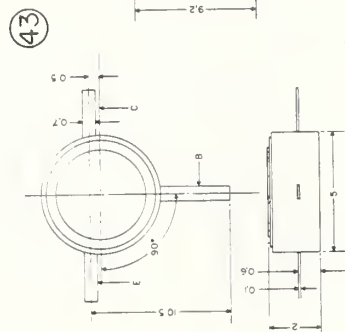
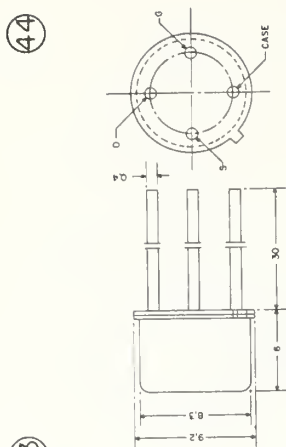


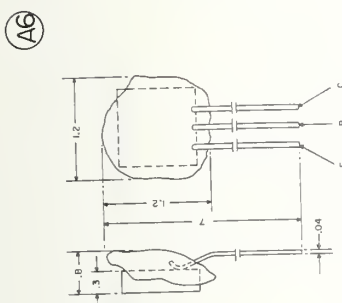
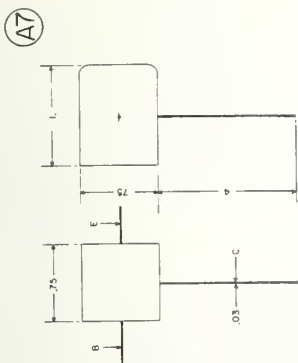
NOTE: TYPE KP101 LEADS
ARE GSD



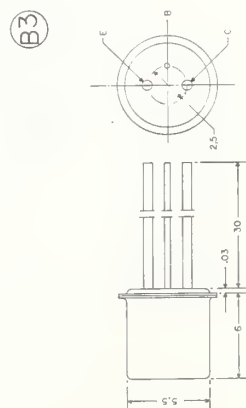
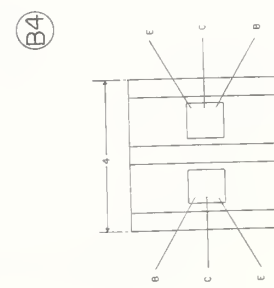
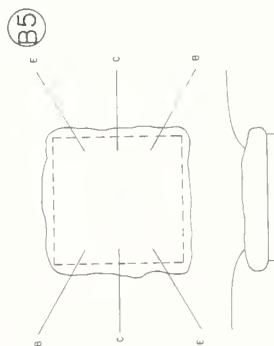
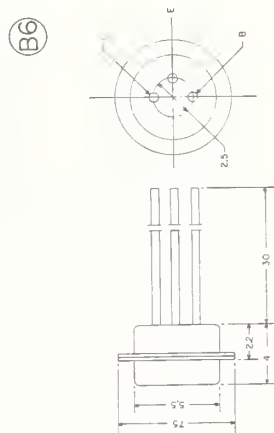
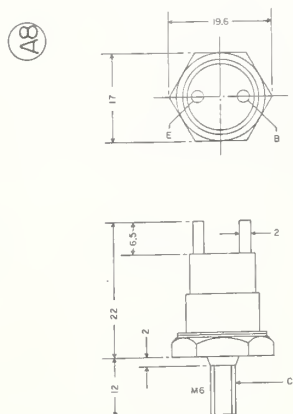
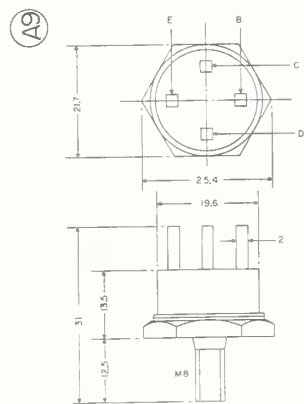
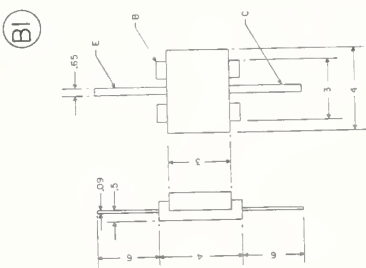
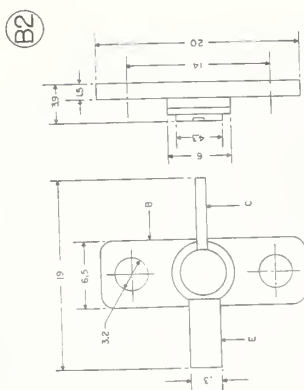
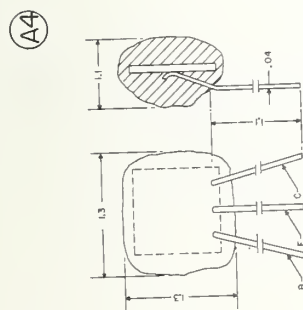
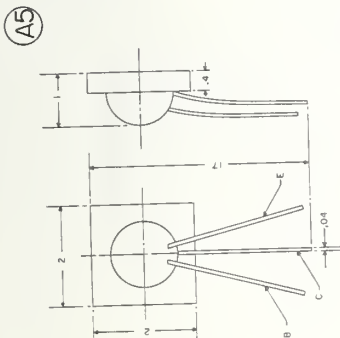
TRANSISTOR OUTLINE DRAWINGS

TRANSISTOR OUTLINE DRAWINGS

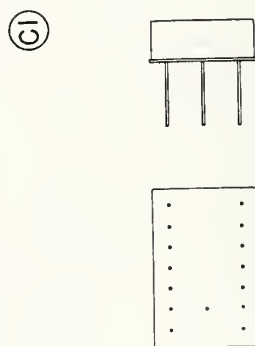
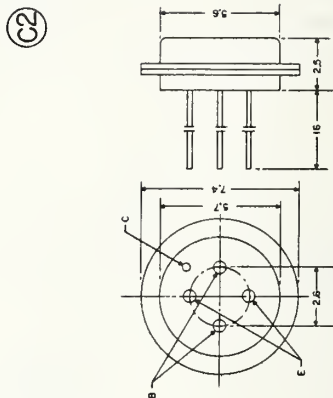
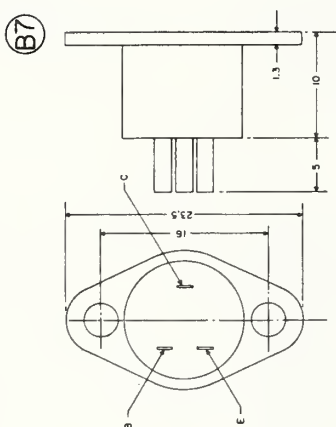
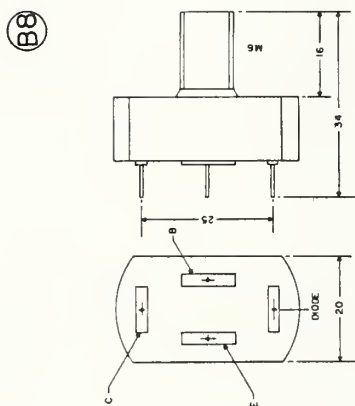
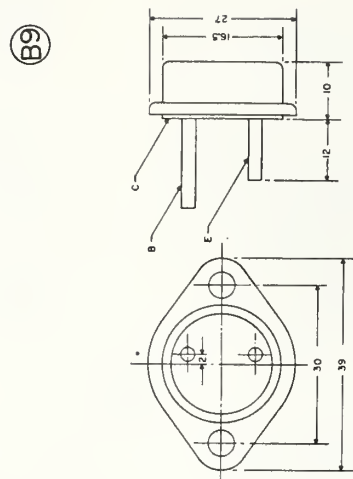




NOTE FOR KY336, KY354, LEADS ARE B C E

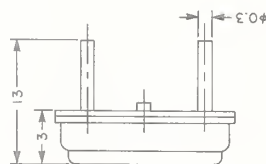
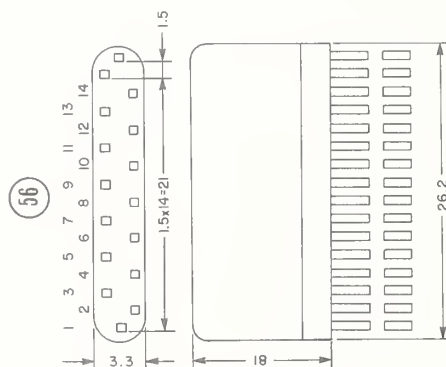
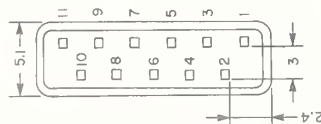
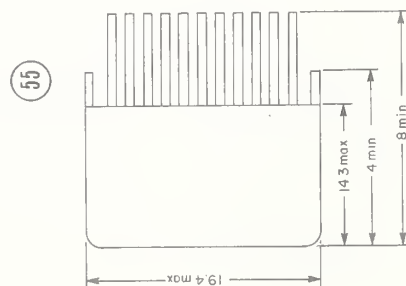
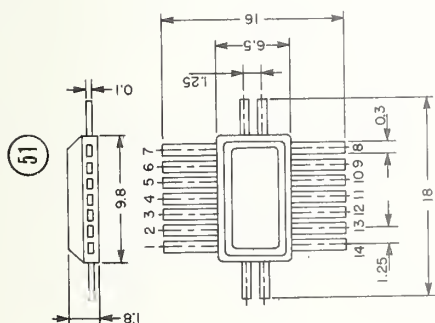


TRANSISTOR OUTLINE DRAWINGS

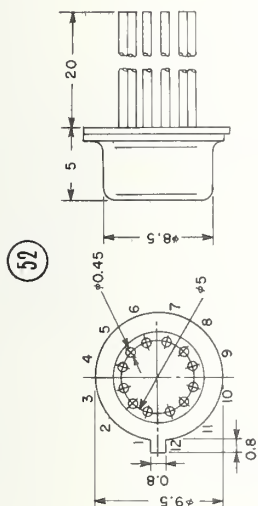
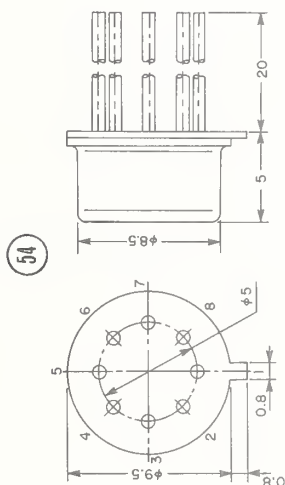


TRANSISTOR OUTLINE DRAWINGS

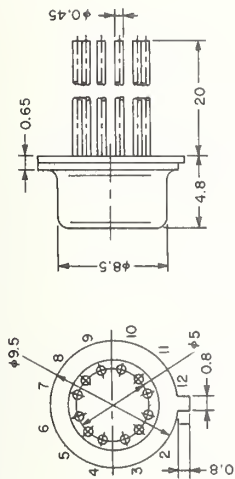
INTEGRATED CIRCUITS

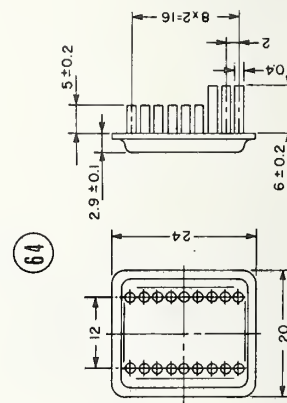
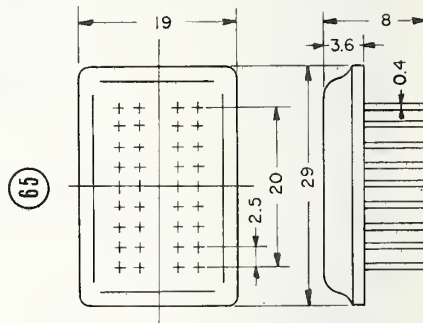
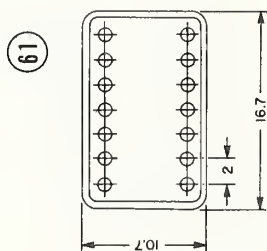
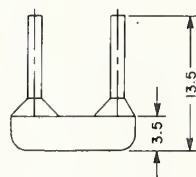
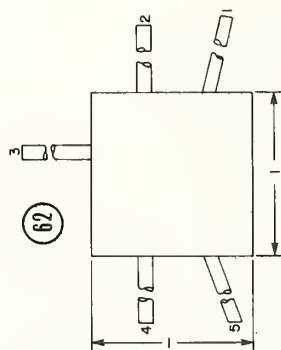
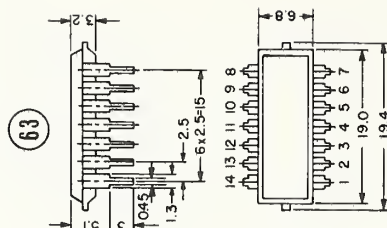
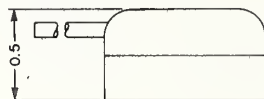
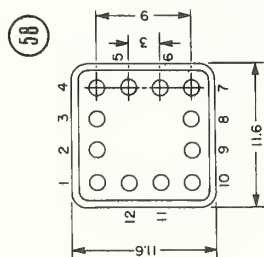
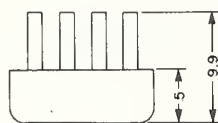
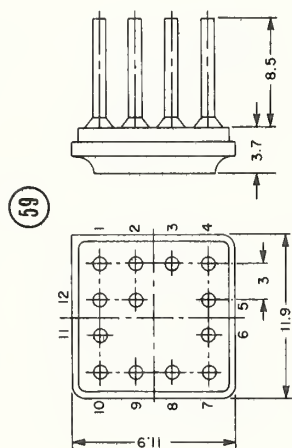
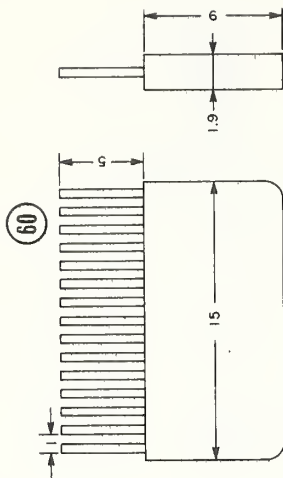


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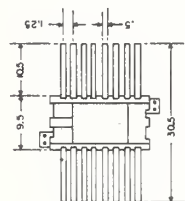
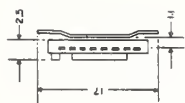
53



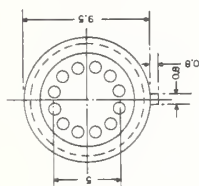
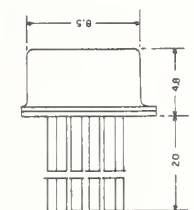


INTEGRATED CIRCUITS

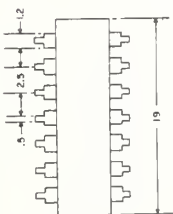
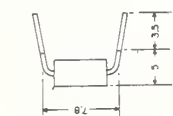
68



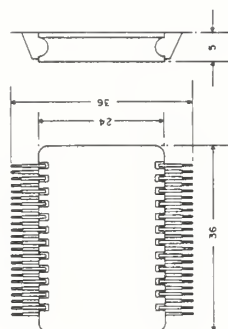
67



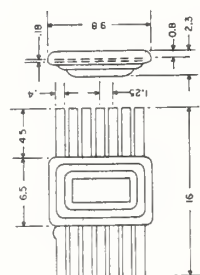
69



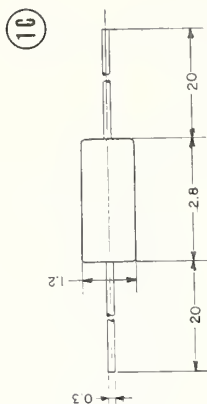
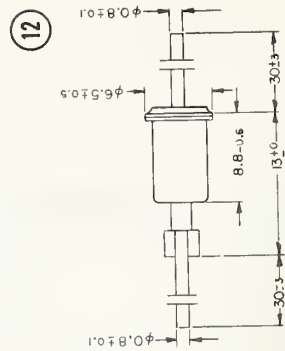
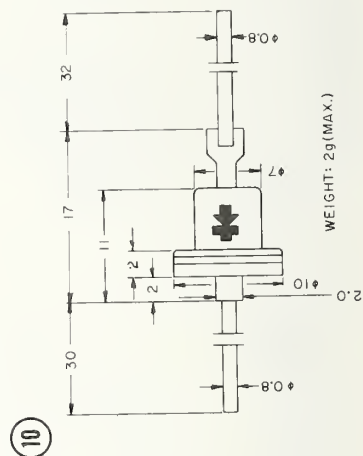
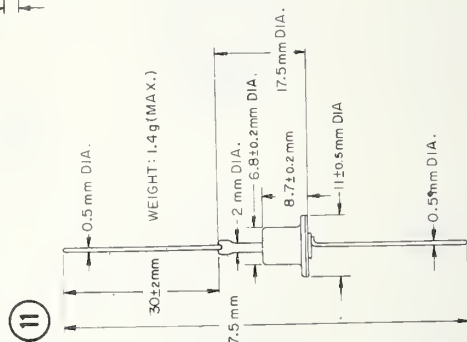
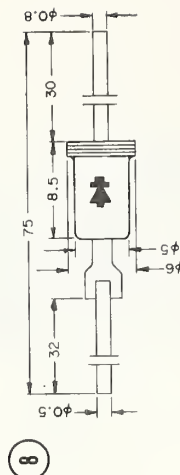
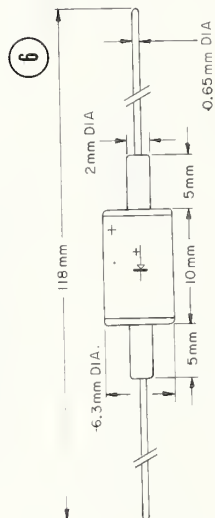
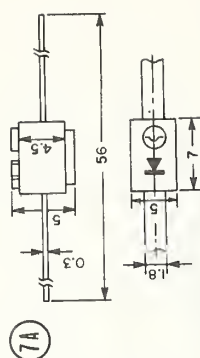
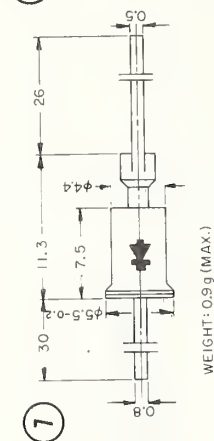
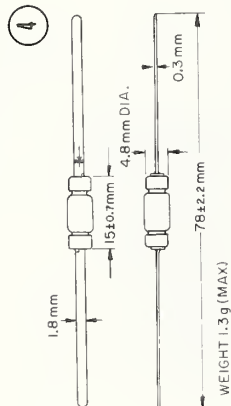
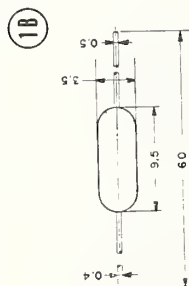
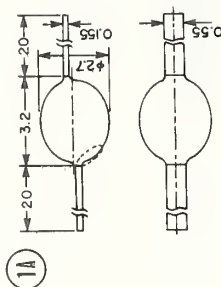
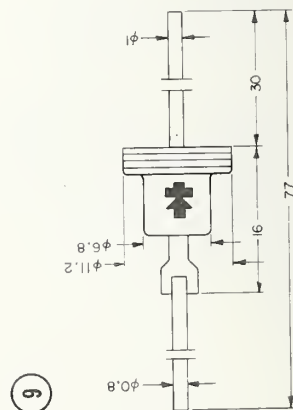
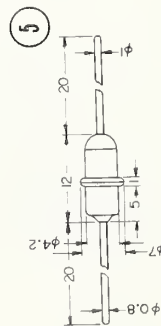
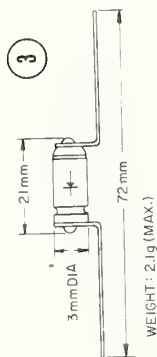
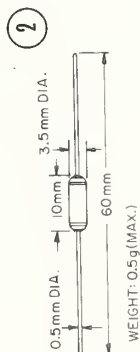
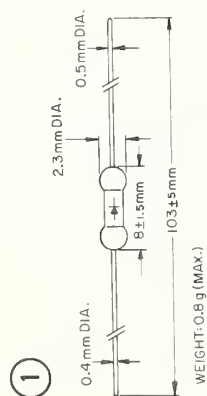
70

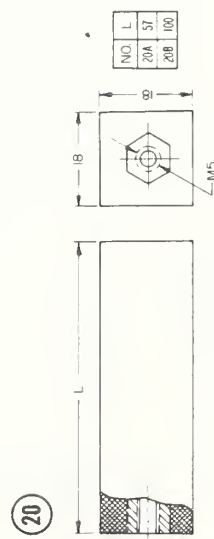
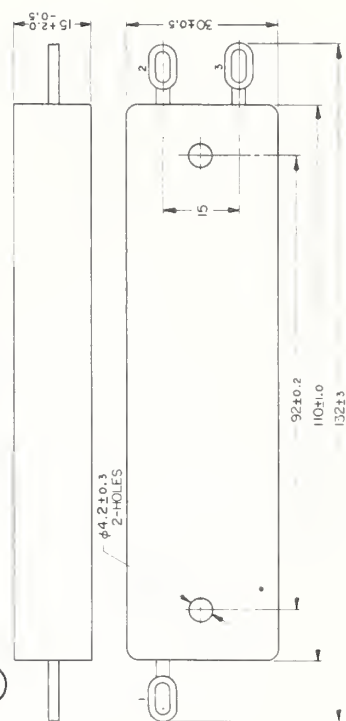
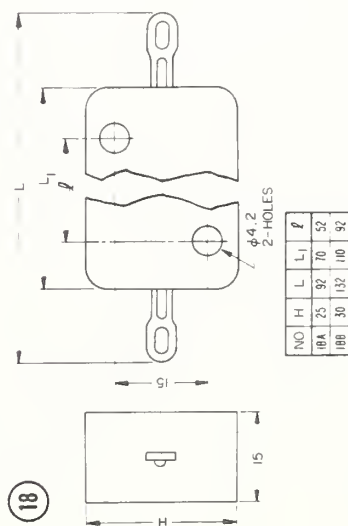
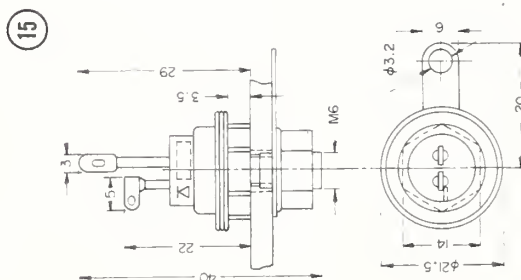
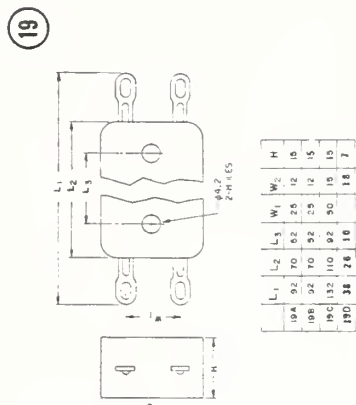
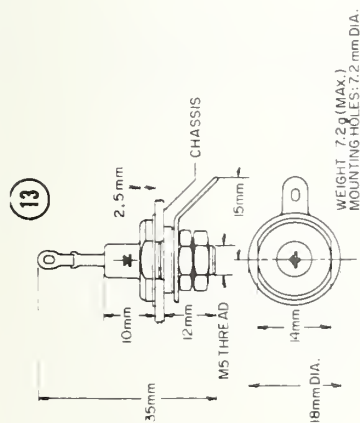
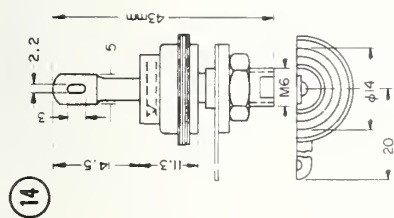
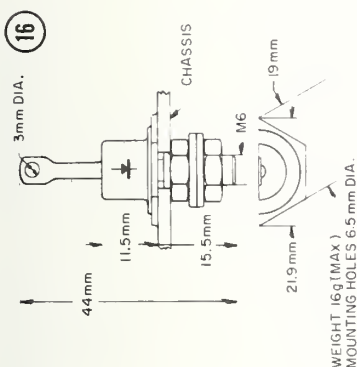
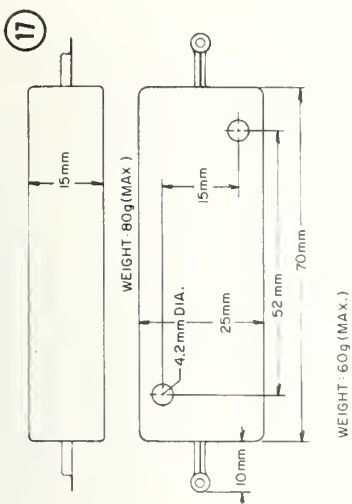


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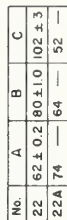


DIODE OUTLINE DRAWINGS GROUPS XI, XII, XIII & XIV





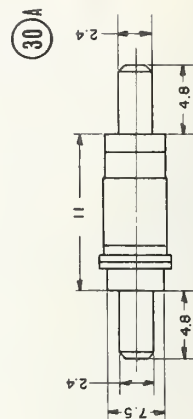
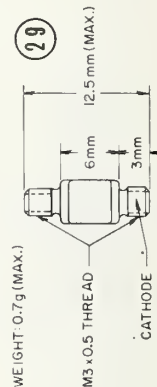
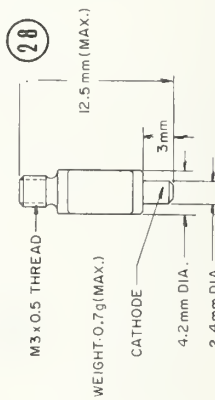
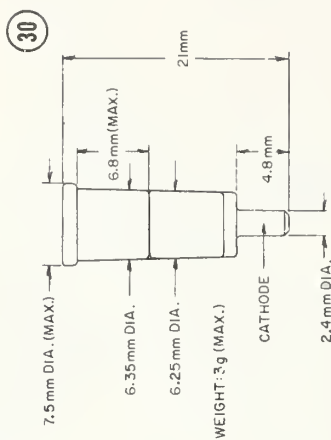
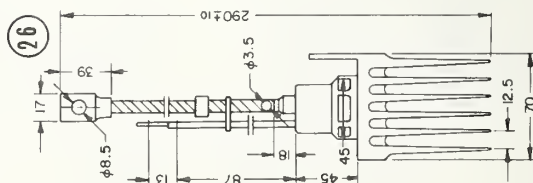
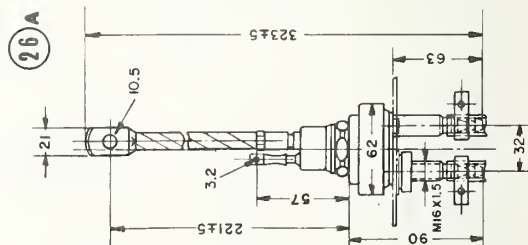
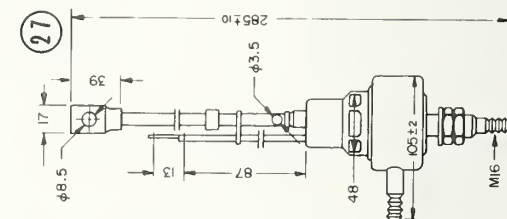
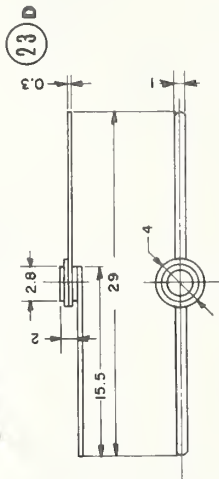
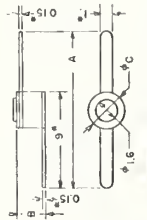
DIODE OUTLINE DRAWINGS

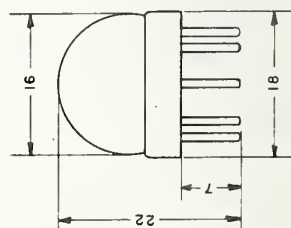
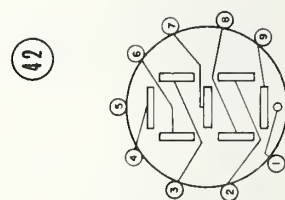
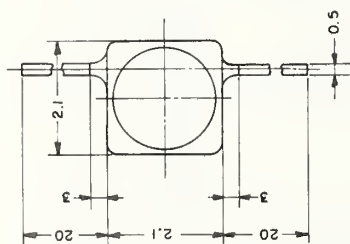
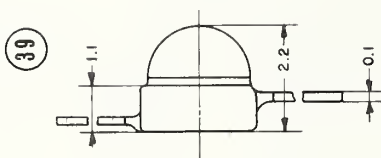
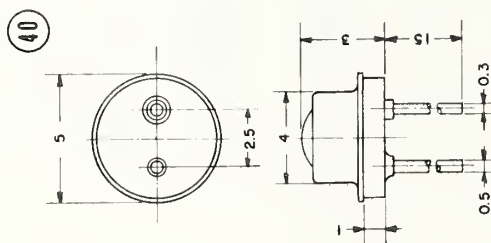
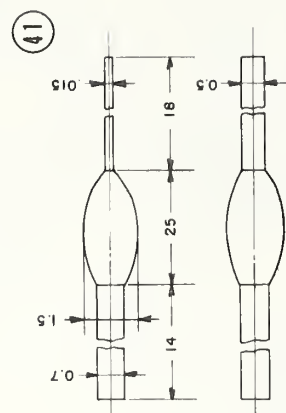


No.	A	B	C
22	62 ± 0.2	80 ± 1.0	102 ± 3
22A	74	64	52



No.	A	B	C
23B	17	1.9 ± 0.3	2.8 ± 0.2
23C	18	2.0	4.7
23D	29	2.8	4.0 ± 0.2





DIODE OUTLINE DRAWINGS

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16. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.) 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.				
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