



Technical Note

265

**TABULATION OF PUBLISHED DATA
ON SOVIET ELECTRON DEVICES
THROUGH JUNE 1965**

CHARLES P. MARSDEN



U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

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NATIONAL BUREAU OF STANDARDS

Technical Note 265

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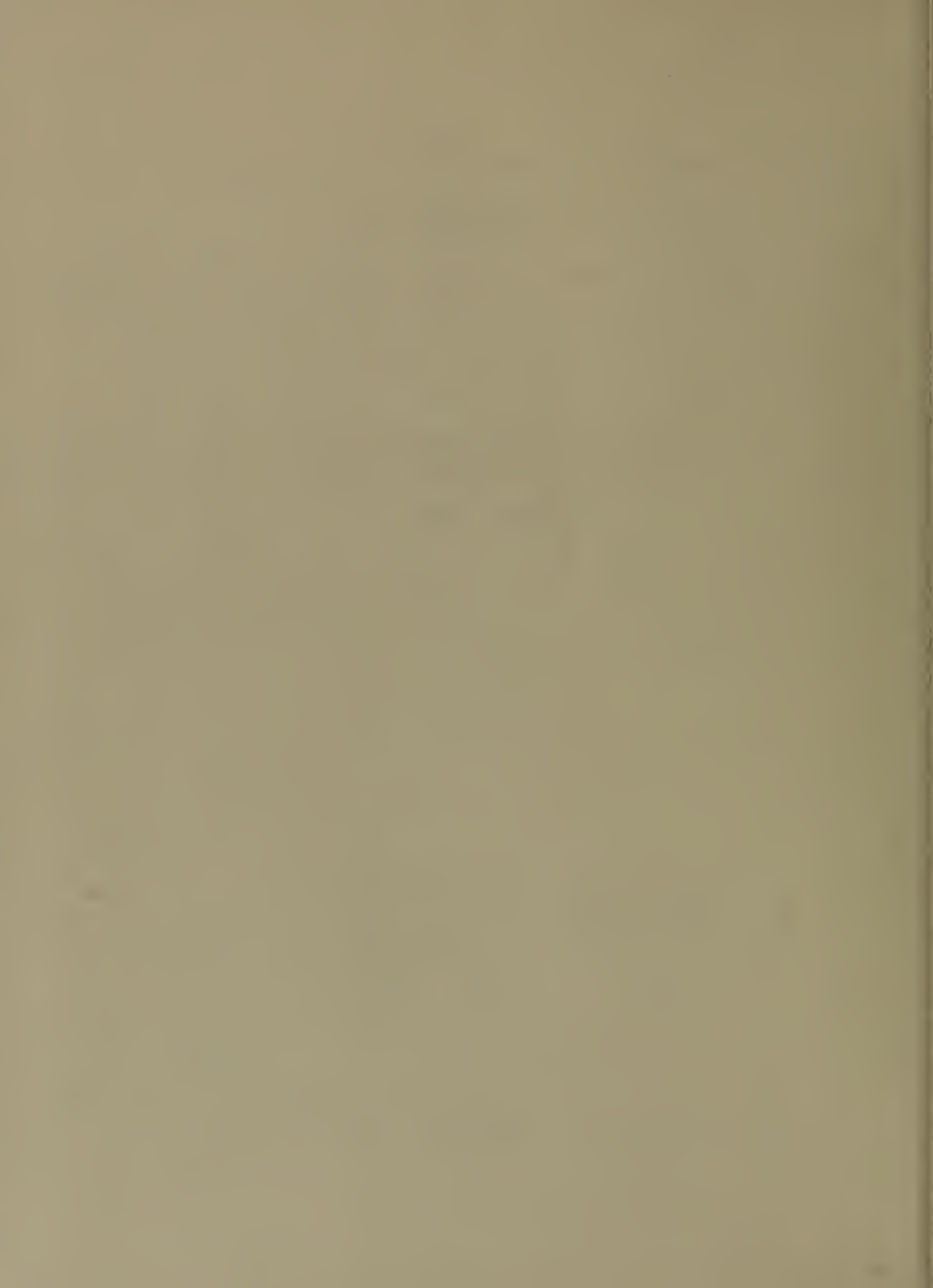
(Supersedes Technical Note 186)

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FOREWORD

This tabulation of published data on Soviet electron devices has been prepared as part of the National Bureau of Standards Electron Devices Data Service. Established in 1948 to provide technical data on radio tubes to members of the Bureau staff, the service has since been extended to other scientists and engineers in government and industry. In the course of the program, a large volume of information on tubes, transistors, diodes, and other electron devices has been accumulated on punched cards. To make this information more readily available, a system has been worked out for automatically tabulating the data in handbook form. Previous tabulations include Tabulation on Data on Microwave Tubes, NBS Handbook 70 (1961); Diode Source Book (published by Semiconductor Products magazine, (1961); and Tabulation of Data on Receiving Tubes, NBS Handbook 83 (1963).

The present tabulation is a revision of Technical Note 186 and is the result of compilation efforts extending over the past six years. All the included information was taken from published specifications, and every effort has been made to ensure accuracy and completeness. However, the Bureau cannot assume responsibility for omissions nor for results obtained with these data.

A. V. Astin, Director.

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Tabulation of Published Data on Soviet Electron Devices

Charles P. Marsden

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

1. Introduction

The increased circulation of published literature from the USSR and the importation of Soviet equipment has created a need for factual information on Soviet electron devices. To satisfy this need, the National Bureau of Standards Electron Devices Data Service has prepared the present tabulation in a format that could be reproduced directly from punched cards.

This publication is a revision and expansion of Technical Note No. 186 published in June, 1963. The format of several tabulations has been rearranged to include more information and five new semiconductor diode groups have been included. Finally, more than 400 new types have been added.

The sources of the data are the various publications produced in the USSR and include books published by the various ministries, and technical magazines. This information has been intercompared and correlated to eliminate errors and thus assure that this tabulation is as accurate as possible. Because of this intercomparison, references for the data are not given, as data for any one type of device may have been derived from several sources.

2. Description of the Tabulation

In each group the type numbers are arranged in alpha-numerical order in which the first numerical part of the type number is the prime sorting means. Alphabetical prefixes are the secondary sorting means and alphabetical postfixes are the tertiary means. For example in the numerical list, these type numbers will be found in the following order:

V1-0.1/40	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	K	K	T	T
Б	B	Л	L	У	U
В	V	М	M	Ф	F
Г	G	Н	N	Х	Kh
Д	D	О	O	Ц	Ts
Е	Ye	П	P	Ш	Sh
Ж	Zh	Р	R	З	E
И	I	С	S		

This transliteration was necessary to put the information on punched cards and it is believed that it will cause little difficulty in use.

3. Organization of the Tabulation

The tabulation is divided into 24 groups, each with a different format and different columnar headings so that the maximum pertinent data may be included.

Group I is a numerical listing of all type numbers in the complete tabulation and also includes discontinued and obsolete types. All these types are defined by the same three-letter code to indicate the kind and type of tube. 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. In the last column, the GOST (State National Standard) Specification Number (followed by the year of publication of the specification) is shown for the type number. These specifications include the information in and follow the format of the domestic military specifications.

This group is also an interchangeability list and known similar types are shown. Further, by means of the following symbol code, the manufacturing area and the obsolescence of the type are indicated.

\$	Domestic manufacture
=	European "
+	Russian "
*	Obsolete or inactive

The above definitions of these symbols are pertinent only to their use in Group I. Due to the limitation of available symbols on listing equipment, these same symbols are used in the other groups but are then defined as shown at the end of the definitions under the paragraph entitled "Code" (p. 4).

The other groups have titles describing the particular class of

devices listed therein. As mentioned previously, the individual type numbers are arranged in the same alpha-numerical order.

Under each heading of the group format, the unit of measurement most common for the characteristic is shown. 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 these changes of units are included in the list of alphabetical symbols under code on pages 4 to 7.

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

Group XXIV, "Bases", lists the basing connections for the particular "Base No." of the previous groups by a system compatible with punched cards.

Instead of the usual base diagram or line drawing, the number of each base pin is given in the column under the symbol of the electrode. 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 the semiconductor diodes and transistors.

4. Terminology used in the Tabulation

4.1 Column Headings

The headings used in the various formats are the standard symbols as defined by the Institute of Radio Engineers or descriptive words for the characteristics. They are not further defined due either to the difficulties of translation or lack of definite information.

4.2 Bulb Size

This column heading, which is used in the Receiving, Power, Rectifier, etc. Groups, uses a special code to describe the bulb shape and size. The numerical part of the code indicates the diameter of the glass bulb or metal anode (power tubes) in eighths of an inch according to the American Standard. The alphabetical part of the code is explained on the following page.

PREFIX

A - Air-cooled anode
 B - Bell-shape
 C - Ceramic construction
 G - Globe-shaped bulb
 F - Flat top of Soviet design
 H - Helix-shaped flash tube
 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
 W - Water-cooled anode

POSTFIX

B - Button glass stem
 F - Flat press glass stem

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

4.3 Special Symbols

Receiving tubes have postfixed letters with the following meaning:

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

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

4.4 Code

Due to the limitations of available columns in the punched card, one- to three-letter codes have been liberally developed and used in the tabulation. These have been chosen to be readily understood. The following table lists the definitions of this code for all groups in alphabetical order.

Code	
A	Change of unit to amperes
AAB	Alpha and Beta radiation
ACO	Acorn tube
AF	Audio frequency Forced air cooling
AHE	Argon-Helium gas-filled
AHN	Argon-helium-neon gas-filled
AKN	Argon-krypton gas-filled
AL	Aluminum cathode; countertube
ALP	Alpha radiation
AMK	Aluminum-Magnesium alloy with potassium surface

AN	Natural air cooling	DBA	Double anode beam pentode
AO	Argon-oxygen gas-filled	DEC	Decatron
AR	Argon gas-filled	DET	Detector operation
ARC	Arc rectifier - Mercury pool	DIO	{ Diode With diode, e.g., triode diode
BA	Barium (metal) cathode	DSC	Disc shape
BAG	Beta and gamma radiation	DUO	Double, e.g., double diode with same cathode
BAL	Ballast or current regulator	DWD	{ Duo diode (single cathode) With duodiode, e.g., triode duodiode
BAO	Barium oxide cathode	E	Common emitter operation
BEA	{ Beam pentode With beam pentode, e.g., triode beam pentode	EL	Electrometer tube
BET	Beta radiation	ELM	Electromagnetic focus of deflection
BIS	Bismuth sulphide	ELS	Electrostatic focus or deflection
BL	Blue luminescence	F	Filamentary cathode
C	{ Circular dynode arrangement Common collector operation Cold cathode Continuous wave operation	FE	Iron cathode; counter tube
CAM	Copper-aluminum-magnesium	FLS	Flash tube (photographic)
CDS	Cadmium sulphide	G	Giga (10^9)
CDSE	Cadmium selenide	GAM	Gamma radiation
CN	Converter	GAN	Germanium alloy, n-type
COM	{ Comutator tubes Compensation of temperature thermistors	GAP	Germanium alloy, p-type
CON	{ Control Switch Temperature control	GDN	Germanium diffused junction, n-type
COU	Counter tube	GDP	Germanium diffused junction, p-type
CP	Cap, external in tabulation of bases	GE	Germanium
CS	Cesium photo surface	GEA	Germanium alloy junction
CSB	Cesium antimony photo surface	GEP	Germanium point-contact
CU	Copper cathode; counter tube	GPP	Germanium point-contact, p-type
CYL	Cylindrical shape (Thermistors)	GR	{ Green luminescence Graphite cathode; counter tube

Code

GS	Gas-filled	MX	} Mixer
GSP	Germanium surface-barrier, p-type	MIX	
GTB	Gated beam pentode	MO	Molybdenum cathode
H	{ Heater type cathode Hecto (10^2)	MOD	Modulator
HE		NA	Neon-argon gas-filled
HG	Mercury vapor-filled	NE	Neon gas-filled
HH	Mercury-argon-hydrogen gas-filled	NEH	Neon-helium gas-filled
HK	Hydrogen-krypton gas-filled	NI	Nickel cathode
HY	Hydrogen gas-filled	NK	Neon-krypton gas-filled
IC	Iconoscope	NSP	Nuclear Spectrometry
ID	Indicator tube	OD	Double beam oscilloscope
IF	Intermediate frequency	OS	Oscilloscope
IGN	Ignitron tube	P	Pulse operation
IM	Image orthicon	PA	Power amplifier
J	Joules	PB	Purple-blue luminescence
K	{ Kilo (10^3) Potassium	PBS	Lead sulphide
KLY		PEN	Pencil tube
KX	Krypton-xenon gas-filled	PHC	Photoconductive diode
L	Linear dynode arrangement	PHM	Photomultiplier
LAM	Light Amplifier	PHO	Phototube
LD	Lead cathode; counter tube	PND	Pentode
LIT	Lighthouse	POW	{ Pentode With pentode e.g., triode, pentode
LO	Long persistence screen	PR	Projection Kinescope
M	{ Mega (10^6) Milli (10^{-3})	PTG	Pentagrid
MAG		REC	Rectifier
MD	Medium persistence screen	REG	Regulator (voltage)
MEA	Temperature measurement	RD	Red luminescence
MG	Magnesium cathode	RF	Radio frequency
		ROC	Rocket tube

Sl-S7	Spectral sensitivity of photo surface	TWN	Twin with separate cathodes, e.g., twin triode
S	Max. dimension of cathode ray tube face	TWT	Traveling-wave tube
SM	Secondary emission pentode	U	{ Micro (10 ⁻⁶) U-shaped
SAN	Silicon alloy, n-type	UF	Ultra high frequency
SAP	Silicon alloy, p-type	V	Venetian-blind dynode arrangement
SCC	Scintillation Counters	VC	Vacuum
SDN	Silicon diffused junction, n-type	VB	Violet-blue luminescence
SH	Short persistence screen	VI	Vidicon
SI	Silicon	VID	Video detector
SIA	Silicon alloy junction	VR	Voltage regulator
SIN	Single e.g., single triode	W	{ Change of units to watts Tungsten cathode Water-cooled
SIP	Silicon, point contact	WG	Wave guide coupling
SI4	Silicon, 4-layer rectifier	WH	White luminescence
SM	Secondary emission pentode	X	Smallest dimension-rectangular photocathode
SN	Tin cathode; counter tube	XE	Xenon gas-filled
SQ	Self-quenching type of counter tube	YO	Yellow-orange luminescence
SWI	Switching diode	3C	Three color screen for television
T	Thoriated tungsten cathode	*	The meaning of these symbols
TET	Tetrode	#	indicated in the column heading
THM	Thermocouple tube	/	Less than (before digits)
THY	Thyratron	*	Obsolete type
TMS	Thermistor		
TRD	With triple diode		
TRI	{ Triode With triode e.g., pentode-triode		
TTR	Triode twin		
TUN	Tunnel diode		
TV	Television tube		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
0.24812-18	BAL	SIN	VI		
0.3817-35	BAL	SIN	VI		
0.3865-135	BAL	SIN	VI		
0.425855-12	BAL	SIN	VI		
0.6P2B	PND	SIN	II	CK505Ax	
0.62H6B	PND	SIN	II		
0.85B55-12	BAL	SIN	VI		
FS-AG	PHC		XV		
FS-A0	PHC		XV		
FS-AV	PHC		XV		
FS-D0	PHC		XV		
FS-KG	PHC		XV		
FS-K0	PHC		XV		
FS-KV	PHC		XV		
GR-0.8/1.6	DWD	SIN		GR1-0.25/1.5+	
TG-0.3/0.3	TRI	THY		TG1-0.1/0.3+, 884\$	
VG0251500	DIO	SIN		GR1-0.25/1.5+	
TG-0.5/1.3	TET	THY		TG1-0.1/1.3+, 2050\$	
AS-1	COU		XXI		
D1A	REC		XI		
D1B	REC		XI		
D1D	REC		XI		
D1G	REC		XI		
D1V	REC		XI		
D1YE	REC		XI		
D1ZH	REC		XI		
DG-S1	MIX		XIV		
DG-TS1	REC		XI	D2G+	
DK-I1	MIX		XIV		
DK-S1	MIX		XIV		
DK-V1	DET		XIV		
DL-S1	MIX				
F-1	PHO		XVI		
FD-1	PHC		XV		
FDK-1	PHC		XV		
FEU-1	PHM		XVI		
FEU-1B	PHM		XVI		
FEU-1B1V	PHM		XVI		
FEU-1B2V	PHM		XVI		
FEU-1S	PHM		XVI		
FEU-1V	PHM		XVI		
FS-A1	PHC		XV		
FS-D1	PHC		XV		
FS-K1	PHC		XV		
FT-1	PHC		XV		
FTG-1	PHC		XV		
GE-1	TET	SIN	III	GKE-100*	
GR1-0.25/1.5	DWD	SIN	IV		
GG-1 0.3/8	DIO	SIN	IV		
GG1-0.5/5	DIO	SIN	IV	VG1.5/5000+	
GG-1-0.5/20	DIO	SIN	IV		
GG-1-1/22	DIO	SIN	IV		
GG-1-2/5	DIO	SIN	IV		
GG-1-2/16	DIO	SIN	IV		
GG-1.5/15	DIO	SIN		GG1-0.5/5+	
GK1A	TRI	SIN	III		
GM1A	TRI	SIN	III		
GMI-1B	TRI	SIN	III		
GR1-02/15	DIO	SIN	IV		
GR-1-0.3/8.5	DIO	SIN	IV		
GR-1-25/15	DWD	SIN	IV		
GS-1B	TRI	SIN	III		
GUZH-1	PND	SIN		G411+	
I-1-70/0.8	TRI	IGN	IV		
I-1-100/1.5	TRI	IGN	IV		
I-1-140/0.8	TRI	IGN	IV		
I-1-350/0.8	TRI	IGN	IV		
KF-1	TET	TWN		GU-29+, 829B\$	
KMT-1	TMS		XIX		
KZH1	*PND	SIN		G411*	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
LD1	*TRI	SIN		12S3S+	
LG-1	DWD	SIN		12KH3S+	
L1-1	IC		VIII		
MMT-1	TMS		XIX		
MS1	TRI	SIN		GM-60+	
OG-1	DEC		XXIII		
P1A			X		
P1B			X		
P1D			X		
P1G			X		
P1I			X		
P1V			X		
P1YE			X		
P1ZH			X		
RB-1			XXII		
S1A			X		
S1B			X		
S1D			X		
S1G			X		
S1V			X		
S1YE			X		
SBS-1	COU		XXI		
SG1B	DIO	SIN		0A2\$	
SG1P	DIO	SIN	V	0A2\$	
SG1P-V	REG		V		
SG1P-YE	REG		V		
S1-1BG	COU		XXI		
S1-1G	COU		XXI		
T-1B	TRI	THY		TG-1B+	
TG1B	TRI	THY	VII		
TG1B-V	TRI	THY	VII		
TG1-01/03	TRI	THY	VII	884\$	
TG1-01/13	TET	THY	VII	2050\$	7843-55
TG1-02/05	TET	THY	VII		
TG1-05/12	TRI	THY	VII		
TG1-1.0/0.8	TET	THY	VII		
TG1-1.5/2	TRI	THY	VII		
TG1-1.6/1.3	TRI	THY	VII		
TG1-2.5/3	TRI	THY		TG1-2.5/4**	
TG1-2.5/4	TRI	THY	VII	TG8/3, TG1-2.5/3**	7952-56
TG1-2.5/10	TRI	THY	VII		
TG1-3.2/1.3	TRI	THY	VII		
TG1-5/3	TRI	THY	VII		
TG1-6.4/1.3	TRI	THY	VII		
TG1-12.5/1.3	TRI	THY	VII		
TG1-25/10	TRI	THY			
TG1-125/1	TRI	THY			
TG1-0.1/0.3	TRI	THY			
TG1-1B	TRI	THY	VII		
TG1-1-3/1	TET	THY	VII		
TG1-1-10/1	TRI	THY	VII		
TG1-1-35/3	TRI	THY	VII		
TG1-1-50/5	TRI	THY	VII		
TG1-1-90/8	TRI	THY	VII	MT1-4**	
TG1-1-130/8	TRI	THY	VII		
TG1-1-130/10	TRI	THY	VII		
TG1-1-325/16	TRI	THY	VII	MT1-5+, TG1-325/16+	
TG1-1-400/3.5	TRI	THY	VII		
TG1-1-400/16	TRI	THY	VII		
TG1-1-700/25	TRI	THY	VII		
TKH1	TRI	THY	VII		
TKH1B	TRI	THY	VII		
TM-1	TRI	SIN		655D+, 2C40\$	
PND	SIN			102H12S+	
TR1-5/2	TRI	THY	VII	VT-3	7954-56
TR1-6/15	TRI	THY	VII		7955-56
TR1-15/15	TRI	THY	VII		
TR1-40/15	TRI	THY	VII		7956-56
TR1-85/15	TRI	THY	VII		
TR1-130/15	TRI	THY	VII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
TSG-1	PHO	XVI			
TSV-1	PHO	XVI			
TVB-1	THM	XVII			
V1-00313	DIO	SIM	IV	V13/30+	
V1-02/20	DIO	SIM	IV		
V1-03/13	DIO	SIM	IV		
V1-05/70	DIO	SIM	IV		
V1-06/30	DIO	SIM	IV		
V1-1/2.5	DIO	SIM	IV		
V1-1/30	DIO	SIM	IV		
V1-1/40	DIO	SIM	IV		
V1-2/40	DIO	SIM	IV		
V1-3/16	DIO	SIM	IV		
V1-3/70	DIO	SIM	IV		
V1-4/40	DIO	SIM	IV		
V1-15/55	DIO	SIM	IV		
VD1	DIO	SIM		V1-1/40+	
VDI-10	DIO	SIM		V1-1-100/50+	
VGI/8500	DIO	SIM	IV		
VGI.5/5000	DIO	SIM	IV	GG2-0.5/5+	
VI-1-5/20	DIO	SIM	IV		
VI-1-5/30	DIO	SIM	IV		
VI-1-18/32	DIO	SIM	IV		
VI-1-27/35	DIO	SIM	IV		
VI-1-30/25	DIO	SIM	IV		
VI-1-70/32	DIO	SIM	IV		
VI-1-100/50	DIO	SIM	IV		
VO-1	DIO	SIM	IV		
VSTS-1	PHO	XVI		F-3+	
VT-1	TRI	THY		TG-2.5/5+	
1A1P	PTG	SIM	II	1R5\$, DK91, DK192	
1A2P	PTG	SIM	II	DK96=, 1R5\$	
1B1P	PND	DIO	II	1S5\$, DAF91=, DAF191	8006-56
1B2P	PND	DIO	II	DAF96=, 1S5\$	
1B5-9	BAL	SIM	VI		
1B10-17	BAL	SIM	VI		
1E1P	TET	SIM	II		
1E3P	*TRI	SIM	II	EM-4+	
1I2P	PND	TRI	II		
1K1P	PND	SIM	II	1T4\$, DF91=	7707-55
1K2P	PND	SIM	II	DF96=, 1T4\$	
1N1	*TRI	TWN		1N3\$=	
1N3S	TRI	TWN	II	1N1+, 1G6-GT\$	
1P2B	PND	SIM	II	CK507AX	
1P3B	PND	SIM	II		
1P4B	PND	SIM	II		
1P5B	PND	SIM	II		
1P22B	PND	SIM	II		
1P24B	PND	SIM	II		
1P32P	PND	SIM	II		
1S12P	TRI	SIM	II	DC96=	
1TS1	*DIO	SIM		1TS15+, 1VD1+	
1TS15	DIO	SIM	II	1TS1+, 1VD1+	
1TS75	DIO	SIM	II	DY30=, 1B3/8016\$	8359-57
1TS11P	DIO	SIM	II		
1TS21P	DIO	SIM	II		
1V3/8016	*DIO	SIM		1TS75+, 1B3/8016\$	
1VD1	*DIO	SIM		1TS1, 1TS15+	
1VD2	*DIO	SIM		1TS75+, 1B3/8016\$	
1ZH12H	PND	SIM	II		
1ZH2	*PND	SIM		1ZH2M+	
1ZH2M	PND	SIM	II	1ZH2*	
1ZH17B	PND	SIM	II		
1ZH18B	PND	SIM	II		
1ZH24B	PND	SIM	II		
1ZH29B	PND	SIM	II		
1ZH30B	PND	SIM	II		
1ZH36B	PND	SIM	II		
AS-2	COU	XXI			
D2A	*REC	XI		DG-TS9**	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D2B	*REC	XI		DG-TS10**	
D2D	*REC	XI		DG-TS2**	
D2G	*REC	XI		DG-TS1**	
D2I	REC	GEP	XI		
D2K	REC	XI		DG-TS6**	
D2M	REC	XI		DG-TS7**	
D2N	REC	XI		DG-TS15**	
D2P	REC	XI		DG-TS16**	
D2R	REC	XI			
D2V	*REC	XI		DG-TS8+	
D2YE	*REC	XI		DG-TS4**	
D2ZH	*REC	XI		DG-TS5**	
DG-S2	MIX	XIV			
DG-TS2	REC	XI		D2D+	
D1-2-10	*DIO	SIM		2D15+	
DK-12	MIX	XIV			
DK-S2	MIX	XIV			
DK-V2	DET	XIV			
DL-S2	MIX				
DSH2-10	*DIO	SIM		2D25+	
F-2	PHO	XVI			
FD-2	PHC	XV			
FEU-2	PHM	XVI			
FEU-2B	PHM	XVI			
FEU-2B1V	PHM	XVI			
FEU-2M	PHM	XVI			
FEU-2V	PHM	XVI			
FS-B2	PHC	XV			
FS-K2	PHC	XV			
FS-2A	PHC	XV			
GE-2	TET	SIM	III	GKE-150=	
GMI-2B	TET	SIM	III		
GS-2B	TRI	SIM	III		
GU-2	BEA	SIM	II		
GUZH-2	BEA	SIM		G807+, 807\$	
GZH2	*PND	SIM		G413+	
I-2-50/1.5	TRI	IGN	IV		
KF-2	BEA	TWN		GU-32+, 832-A\$	
KS-2	TRI	SIM		GU-4+	
KZH-2	BEA	SIM		G-807+, 807\$	
MTI-2	TRI	THY		TGI-200+	
OG-2	DEC	XXIII			
P2A		X			
P2B		X		OC821=	
PT-2	TRI	THY		TG-213*	
R-2		XXII			
RB-2		XXII			
S2A		X			
S2B		X			
S2G		X			
S2V		X			
SG2P	DIO	SIM	V	OB2\$	
SG2S	DIO	SIM	V	OA3\$	
SI-2B	COU	XXI			
SI-2BG	COU	XXI			
ST2S	BAL	TWN	VI		
STS-2	COU	XXI			
STSV-2A	PHO	XVI		F-2+	
TG2-01/01	TRI	THY	VII		
TG2-0.5/12	TRI	THY	VII		
TG-2.5/5	TRI	THY	VII	VT-1	
TGI-2-260/12	TRI	THY	VII		
TGI-2-32516	TRI	THY	VII		
TGI-2-40035	TRI	THY	VII		
TKH-2	TRI	THY	VII		
TO-2	PND	SIM		10P125+	
TV-2	THM	XVIII			
TVB-2	THM	XVIII			
VD2	DIO	SIM		V1-2/40+	
V1-2-27/35	DIO	SIM	IV		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
VI-2-70/32	DIO	SIN	IV		
VI-2-100/50	DIO	SIN	IV		
2A1	PTG	SIN	II	S0242** 2A1M	
2A1M	*PTG	SIN		S0242**	
2A3	TRI	SIN		2S4S+, 2A3S	
2D1L	DWD	SIN	II		
2D1S	DIO	SIN	II	D1-2-10+	
2D2S	DIO	SIN	II	DSH2-10+	
2D3B	DIO	SIN	II		
2D3S	DIO	SIN	II		
2D7S	DIO	SIN	II		
2D9S	DIO	SIN	II		
2D21	TET	THY		TG3-0.1/1.3+, 2D21S	
2E1	*TET	SIN	II		
2E2	*TET	SIN	II	UB155+	
2E2P	TET	TWN	II		
2F2M	TRI	SIN			
2J5S	MAG		IX		
2K1	*PND		II	2K1M+	
2K1M	*PND	SIN	II	2K1*, SB241*	
2K2	PND	SIN		2K2M*	
2K2M	*PND	SIN	II	2K2*, S0241*	
2KH1	*DWD	SIN		2KH1L+	
2KH1L	DWD	SIN	II	2KH1*	
2KH2	*DIO	SIN		2VD8A+, 2TS2S+, 2X2S	
2N1	TRI	DUO	II	SB243, S0243, 2N1M*	
2N1M	*TRI	DUO		2N1+, SB243+, S0243+	
2P1	BEA	SIN	II	SB244+, S0244+	
2P1M	*BEA	SIN		2P1P+, SB244	
2P1P	BEA	SIN	II	DL94+, 2P1M	8005-56
2P2	*BEA	SIN	II		
2P2P	BEA	SIN	II	DL96+, 3S4S	
2P3	BEA	SIN	II	SB258+, S0258+, 2P2M+	
2P5B	PND	SIN	II		
2P9	*BEA	SIN		2P9M+, 2P9S	
2P9M	*BEA	SIN	II	2P9+, 2P9S, 6AK7	
2P9S	BEA	SIN		2P9M+, 2P9	
2P19B	PND	SIN	II		
2P21S	BEA	SIN			
2P29	*PND	SIN		2P29L+	
2P29L	PND	SIN	II		
2P29P	PND	SIN	II		
2S1	TRI	SIN	II	UB152+	
2S2	TRI	SIN	II	UB240+	
2S3	*TRI	SIN		2S4S+, 2A3S	
2S3A	TRI	SIN			
2S3M	*TRI	SIN		2S2+	
2S4S	TRI	SIN	II	2A3S	
2S14B	TRI	SIN	II		
2S22	TRI	SIN		6S8S+, 2C22S	
2TM-20	TRI	SIN	III		
2TM-100	TRI	TWN	III		
2TS2S	DIO	SIN	II	2X2S	8527-57
2V6	DIO	ARC	IV		
2V12	DIO	ARC	IV		
2V20	DIO	ARC	IV		
2VD8	DIO	SIN	II		
2VN12	DIO	ARC	IV		
2VN20	DIO	ARC	IV		
2ZH1M	*PND	SIN	II	SB245+	
2ZH2B	PND	SIN			
2ZH2M	PND	SIN	II		
2ZH4	*PND	SIN	II	S0257+	
2ZH14B	PND	SIN	II		
2ZH15B	PND	SIN	II		
2ZH27	*PND	SIN		2ZH27L+	
2ZH27L	PND	SIN	II	2ZH27+	
2ZH27P	PND	SIN	II		
2ZH28L	PND	SIN	II		
D3A	DET		XIV		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D3B	DET		XIV		
DG-S3	MIX		XIV		
DG-TS3	REC		XI		
DK-S3	MIX		XIV		
DK-V3	DET		XIV		
DL-S3	MIX				
EM-3	TET	SIN	II		
F-3	PHO		XVI		
FD-3	PHC		XV		
FEU-3B	PHM		XVI		
FEU-3M	PHM		XVI		
FEU-R3	PHM		XVI		
FS-3A	PHC		XV		
FS-K3	PHC		XV		
GI-3	TRI	SIN	III	2C26AS	
GI-3/100	TRI	SIN		GI-3+	
GK3A	TRI	SIN	III		
GMI-3	TET	SIN	III		
GS-3B	TET	SIN	III		
GU-3	BEA	SIN	II		
GUZH-3	BEA	SIN		G1625+, 1625S	
KF-3	BEA	SIN		GU-13+, 813S	
KZH-3	BEA	SIN		G-1625+, 1625S	
LI-3	IC		VIII		
LIM-3	LAM		XXIII		
MS3	*TRI	SIN		GM57+, UB180+, M457+	
OG-3	DEC		XXIII		
P3A			X		
P3B			X		
P3V			X		
PIM-3	IC		VIII		
PT-3	TRI	THY		TG-235**	
R-3			XXII		
RB-3			XXII		
S3A			X		
S3B			X		
S3D			X		
S3G			X		
S3V			X		
S3YE			X		
SBT-3	COU		XXI		
SG3P	REG		V		
SG2S	DIO	SIN	V	OC3S	
SI-3B	COU		XXI		
SMM-3	COU		XXI		
ST3P	DIO	SIN	VI		
STS-3	COU		XXI		
STSV-3	PHO		XVI		
TG3-01/13	TET	THY	VII	2D21S	
TG3-2.5/10	TRI	THY	VII		
TKH3B	TET	THY	VII		
TO-3	PND	SIN		7ZH12S+	
TSG-3	PHO		XVI		
TSV-3	PHO		XVI		
TVB-3	THM		XXVII		
VDI-3D	DIO	SIN		VI-1-30/25+	
VT-3	TRI	THY		TRI-5/2**	
3A4S	PND	SIN	II		
3B4S	BEA	SIN	II		
3E29	*BEA	TWN		GI-30+, 3E29S	
3J21	MAG		IX		
3L01-I			VIII		
3S1	TRI	SIN	II	TO-141+	
3S2	TRI	SIN	II	TO-142+	
3S9	*TRI	SIN	II		
3TS16S	DIO		II		
3TS18P	*DIO	SIN			
3V30	DIO	ARC	IV		
3VN30	DIO	ARC	IV		
3VN60	DIO	ARC	IV		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
3VN100 3VP1	DIO	ARC IV	*OS	8L029+, 3BP1A\$	
DG-S4	MIX	XIV			
DG-TS4	REC	XI		D2YE**	
DK-S4	MIX	XIV			
DK-V4	DET	XIV			
DL-S4	MIX				
EM-4	TRI	SIN II		1E3P+	
F-4	PHO	XVI			
FS-A4	PHC	XV			
FS-K4	PHC	XV			
GI-4A	TRI	SIN III			
GKV-4	TRI	SIN		GU-4+	
GMI-4B	TET	SIN III			
GS-4	TRI	SIN III			
GS-4	COU	XXI			
GS-4B	TRI	SIN		G431A+	
GS4D	TRI	SIN III			
GU4	TRI	SIN III			
GU4A	TRI	SIN III			
KMT-4	TMS	XIX			
KS-4	TRI	SIN		GU-150+	
LIM-4	LAM	XXIII			
LP-4	COM	VII			
MMT-4	TMS	XIX			
MS-4	COU	XXI			
MSTR-4	COU	XXI			
MTI-4	TRI	THY		TGI-1-90/8+	
P4		X		2N68\$	
P4A		X			
P4B		X			
P4D		X			
P4G		X			
P4L		X			
P4V		X			
PIM-4	IC	VIII			
R-4		XXII			
S4A		X			
S4B		X			
S4G		X			
S4V		X			
SBS-4	COU	XXI			
SG4S	DIO	SIN V		OD3\$	
SI-4G	COU	XXI			
STSV-4	PHO	XVI			
TGI-4	TRI	THY		TGI-1-130/10+	
TKH-4B	TET	THY VII			
TO-4	PND	SIN		7P12S+	
TSG-4	PHO	XVI			
TSV-4	PHO	XVI			
TV-4	THM	XVIII			
TVB-4	THM	XVIII			
VDI-4D	DIO	SIN		VI-1-70/32+	
VS-4	COU	XXI			
4D2	*DIO	SIN		4TS6S+	
4D5S	*DIO	SIN II			
4E1	*TET	SIN II			
4E2	*TET	SIN II			
4E3	*TET	SIN II			
4F6S	BEA	SIN II			
4J26-30	MAG	IX			
4J45	MAG	IX			
4J50	MAG	IX			
4N1	TRI	DUO II		SB259+, S0259+	
4P1	*PND	SIN II			
4P1L	PND	SIN II			
4P2	PND	SIN			
4P6L	PND	SIN			
4P10S	PND	SIN II			
4S1	TRI	SIN II		UB107+	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
4S2	TRI	SIN II		UB110+	
4S3	*TRI	SIN II			
4S3S	TRI	SIN II			
4S4	*TRI	SIN II			
4S5	TRI	SIN II		50-185+	
4TS1M	*DIO	SIN		4TS6S+	
4TS6S	DIO	SIN II			
4TS14S	DIO	SIN II			
4VD1	DIO	SIN II			
4VKH1	*DIO	TWN II		VO-188**	
4VKH2	*DIO	SIN II		VO-188**	
42H1L	PND	SIN II			
42H1P	PND	SIN II			
42H4	PND	SIN		S0124+	
42H5	*TET	SIN II		42H5S+	
42H5S	PND	SIN II			
DG-TS5	REC	XI		D22H**	
DK-S5	MIX				
DK-V5	DET	XIV			
F-5	PHO	XVI			
FEU-R5	PHM	XVI			
FS-K5	PHC	XV			
G-5	TRI	SIN		M39+	
G-5A	TRI	SIN		GU5A+	
G-5RA	TRI	SIN		GU-5B+	
GI-5B	TRI	SIN III			
GK5A	TRI	SIN III			
GMI-5	TET	SIN III			
GS-5B	TRI	SIN		G433A+	
GU5A	TRI	SIN III			
GU5B	TRI	SIN III			
GUO-5	TRI	SIN		G120+	
LP-5	COM	VII			
MTI-5	*TRI	THY		TGI-1-32516+	
OG-5	DEC	XXIII			
P5A		X			
P5B		X		2N107\$	
P5D		X		CK727\$	
P5G		X		2N65\$	
P5V		X			
P5YE		X			
R-5		XXII			
RB-5		XXII			
RB-5A		XXII			
SBS-5	COU	XXI			
SG5B	DIO	SIN V			
SG5B-V	REG	V			
SGS-5	COU	XXI			
SNM-5	COU	XXI			
STS-5	COU	XXI			
TKH-5A	TRI	THY VII			
TV-5	THM	XVIII			
TVB-5	THM	XVIII			
UV-5	TWT	IX			
VG-5	POW	XII			
5L01B	*OS			5L038+, 2AP1\$	
5L038I	OS	VIII		2AP1\$	
5SR1	*OS			5CP1A\$	
5SR7	*OS			5CP7A\$	
5TS3S	DWD	SIN II		5U4G\$	8360-57
5TS4	DIO	DUO		5TS4S+, 5Z4G\$	
5TS4M	DIO	DUO II			
5TS4S	DIO	DUO II		524\$	8079-56
5TS8S	DWD	SIN II			8361-57
5TS9S	DWD	SIN II		1502+	8362-57
5TS9SE	DWD	SIN II			
5TS12P	DIO	SIN II			
5VKH1	*DWD	SIN		5Z4G\$	
5VKH2	*DWD	SIN II		5U4G\$	
5VKH3	*DWD	SIN II		5Y3G\$	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D6	REG		XIII	D2K+	
DG-TS6	REC		XI		
DK-V6	DET		XIV		
F-6	PHO		XVI		
FS-A6	PHC		XV		
FS-D6	PHC		XV		
FS-K6	PHC		XV		
GI-6B	TRI	SIN	III		
GK6A	TRI	SIN	III		
GMI-6	BEA	TWN	III		
GS6	TRI	SIN	III		
GS-6	COU		XXI	GI-6B+	
LD-6	TRI	SIN			
LI-6	IC		VIII		
MMT-6	TMS		XIX		
MS-6	COU		XXI		
P6A			X		
P6B			X	OC821=	
P6D			X	OC812=	
P6G			X		
P6V			X	OC814=	
R6			XXII		
SGS-6	COU		XXI		
STS-6	COU		XXI		
STSV-6	PHO		XVI	F-4+	
TSV-6	PHO		XVI	F-5+	
TVB-6	THM		XVII		
UV-6	TWT		IX		
VS-6	COU		XXI		
6A1B	*PTG	SIN		6SA7\$	
6A2P	PTG	SIN	II	6BE6\$, EK90=	8354-57
6A3P	*GTB	SIN	II	6BN6\$	
6A5B	*PTG	SIN		6L7\$	
6A6A	*DIO				
6A7	PTG	SIN	II	6SA7\$	8086-56
6A8	PTG	SIN	II	6A8B+, 6A8\$	8367-57
6A8B	*PTG	SIN		6A8\$	
6A8M	*PTG	SIN		6A8\$+	
6A10S	PTG	SIN	II	6SA7\$	8087-56
6A15B	*PTG	SIN		6SA7\$	
6AG7	*BEA	SIN		6P9+, 6AG7\$	
6AZH5	*PND	SIN		6AG5\$ EF96=	
6B1P	PND	DIO	II		
6B2P	PND	DIO	II	L100++	
6B4	*TRI	SIN		6A3\$	
6B8	*PND	DWD		6B8\$, 6B8G\$, 6B8M*	
6B8M	*PND	DWD		6B8\$+, 6B8G\$	
6B8S	PND	DWD	II	6B8G\$, 6B8M*	8369-57
6BKH1	*DIO	DUO		6KH5\$+	
6D1A	*DIO	SIN		6D6A*, 5704\$	
6D1ZH	*DIO	SIN		6D4ZH*, 9004\$	
6D3D	DIO	SIN	II	559\$	
6D4ZH	DIO	SIN	II	9004\$	
6D6A	DIO	SIN	II	5704\$, *6D1A+	
6D8D	DIO	SIN	II		
6D10D	DIO		II		
6D13D	DIO	SIN	II		
6D14P	DIO	SIN	II		
6D20P	DIO	SIN	II		
6E5P	TET	SIN	II		
6E6P	BEA	SIN			
6E6P-YE	BEA	SIN	II	E7119+	
6F1P	PND	TRI	II	EF8D=, 6U8\$	
6F3P	TRI	PND	II		
6F4P	PND	TRI	II		
6F5	TRI	SIN		6S4B+, 6F5\$	
6F5B	TRI	SIN		6S4B+, 6F5\$	
6F5M	*TRI		II	6F5G\$, 6S4+	8372-57
6F5P	TRI	PND	II		
6F6	PND	SIN		6P6B+, 6F6\$	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6F6S	PND	SIN	II	6F6-GT\$	8082-56
6F7	PND	TRI	II		
6G1	TRI	DWD	II	6SR7\$	
6G2	TRI	DWD	II	6S07\$	8370-57
6G2P-K	TRI	DWD	II		
6G2S	*TRI	DWD		6S07G\$	
6G3P	TRI	TRD	II	6T8\$	
6G3S	*TRI	DWD			
6G7	TRI	DWD	II	6Q7=	8371-57
6I1P	PTG	TRI	II	ECH81=, 6AJ8\$	
6I14P	PTG	TRI	II	ECH81=, 6I1P+	
6K1B	PND	SIN	II	5702\$	
6K1L	PND	SIN	II		
6K1P	PND	SIN	II	9003\$	
6K1ZH	PND	SIN	II	956\$	
6K2P	*PND	SIN		6K4P+	
6K3	PND	SIN	II	6SK7\$	8084-56
6K4	PND	SIN	II	6SG7\$	8083-56
6K4P	PND	SIN	II	EF93=, 6BA6\$	8352-57
6K4P-E	DWD	SIN		6K4P	
6K6A	PND	SIN	II		
6K7	PND	SIN	II	6K7S*, 6K7G\$, 6K9S+	8363-57
6K7S	*PND	SIN		6K9S+, 6K7G\$, 6K7	
6K9S	PND	SIN	II	6K7G\$, 6SK7\$	
6K11B-K	PND	SIN	II	6K1B+	
6K12	*PND	SIN		6SG7	
6K13P	PND	SIN	II		
6K15B	*PND	SIN		6AB7\$	
6K17B	*PND	SIN		6SK7\$	
6K19B	*PND	SIN		9D03\$	
6K19P	*PND	SIN		6K1P+, 9003\$	
6KH1ZH	*DIO	SIN		6D4ZH+, 9004\$	
6KH2P	DIO	TWN	II	EAA91=, 6AL5\$	8348-57
6KH2P-E	DIO	TWN		6KH2P-E7099+	
6KH4P	DWD	SIN		6TS4P+	
6KH5	DWD	SIN		6VKH1+, 6X5GT\$	
6KH5S	DWD	SIN		6VKH1+, 6X5GT\$	
6KH6	DIO	TWN		6KH6B+, 6H6\$	
6KH6B	DIO	TWN	II	6H6-G\$	
6KH6M	DIO	TWN		6KH6S+, 6H6G\$	
6KH6S	DIO	TWN	II	6H6-G\$	8080-56
6KH7B	DIO	TWN	II		
6L7	PTG	SIN	II	6L7\$	
6LK1B	TV		VIII		
6N1P	TRI	TWN	II	6BK7\$	8355-57
6N1P-E	TRI	TWN		6N1P-E7100+	
6N2P	TRI	TWN	II	ECC83=, 6AX7\$	8356-57
6N2P-E	TRI	TWN		6N2P-E7101+	
6N3P	TRI	TWN	II	ECH42=, 2C51\$	8357-57
6N3P-E	TRI	TWN		6N3P-E7102+	
6N4P	TRI	TWN	II	12AY7\$	
6N5P	TRI	TWN	II		
6N5S	TRI	TWN	II	6AS7G\$	
6N6	DIO	TWN		6KH6B+, 6H6\$	
6N6P	TRI	TWN	II		
6N7	TRI	TWN	II	6N7\$, 6N7S+	
6N7S	TRI	TWN	II	6N7-GT\$	8374-57
6N8	TRI	TWN		6N8S+, 6SN7GT\$	
6N8M	TRI	TWN		6N8S+, 6SN7GT\$	
6N8S	TRI	TWN	II	6SN7-GT\$	
6N9	TRI	TWN		6N9S+, 6SL7GT\$	
6N9M	TRI	TWN		6N9S+, 6SL7GT\$	
6N9S	TRI	TWN	II	6SL7GT\$	
6N10	TRI	TWN		6N10S+, 6SC7GT\$	
6N10M	TRI	TWN		6N10S+, 6SC7GT\$	
6N10S	TRI	TWN	II	6SC7GT\$	
6N11	TRI	TWN		6N5S+, 6AS7G\$	
6N12S	TRI	TWN	II	6DN7\$	
6N13S	TRI	TWN	II	6O80\$	8378-57
6N14P	TRI	TWN	II	ECC84=, 6BX8\$	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6N15	*TRI	TWN II		6J6\$, 6N15P+	
6N15P	TRI	TWN II		6J6\$, ECC91=	
6N16B	TRI	TWN II			
6N17B	TRI	TWN II			
6N18B	TRI	TWN II			
6N19P	TTR	DWD II			
6N23P	TRI	TWN II			
6N24P	TRI	DUO II			
6P1P	BEA	SIN II		EL90=, 6AQ5\$	8358-57
6P2	BEA	SIN		6P6S+, 6V6GT\$	
6P2P	PND	SIN II			
6P3	BEA	SIN		6P3S+, 6L6G\$	
6P3B	BEA	SIN		6P3S+, 6L6G\$	
6P3S	BEA	SIN II		6L6G\$	8376-57
6P3S-YE	BEA	SIN		6P3S-E7121+	
6P4	*PND	SIN II		6G6G\$	
6P6	BEA	SIN		6P6S+, 6V6GT\$	
6P6B	*PND	SIN II		6F6\$	
6P6P	*BEA	SIN			
6P6S	BEA	SIN II		6V6-GT\$	8375-57
6P7	*BEA	SIN		6P7S+*, 6BG6GA\$	
6P7S	BEA	SIN II		6P7*+, 6BG6GA\$	
6P8P	TRI	SIN		6S1P+, 9002\$	
6P8S	*PND	SIN II		6G6G\$	
6P9	BEA	SIN II		6AG7\$	8377-57
6P9E	BEA	SIN II			
6P13S	BEA	SIN II			
6P14P	BEA	SIN II		EL84=, 6BQ5\$	
6P15P	BEA	SIN II			
6P17S	BEA	SIN II			
6P18P	BEA	SIN II		EL82=	
6P20S	*BEA	SIN II			
6P21S	*BEA	SIN II			
6P25B	PND	SIN II			
6P31S	BEA	SIN II			
6P36S	BEA	SIN II			
6R1B	TRI	DWD		6G1+, 6SR7\$	
6R7	TRI	DWD		6G7+, 6Q7\$	
6R7B	TRI	DWD		6G7+, 6Q7\$	
6R17B	TRI	DWD		6G2+, 6SQ7\$	
6S1B	TRI	SIN		6S6B+, 5703\$	
6S1P	TRI	SIN II		9002\$	
6S1ZH	TRI	SIN II		4671\$, 955\$	
6S2	TRI	SIN		6J5-GT\$	
6S2B	TRI	SIN II		6S7B+, 5744\$	
6S2P	TRI	SIN II		6J4\$	8353-57
6S2S	TRI	SIN II		6J5-GT\$	8081-56
6S3B	TRI	SIN II		6K4A\$	
6S3P	TRI	SIN II			
6S4	*TRI	SIN		6F5\$	
6S4B	TRI	SIN II		6F5\$	
6S4P	TRI	SIN II			
6S4S	TRI	SIN II		6B4-G\$	8373-57
6S5	TRI	SIN II		6S5S+, 6C5GT\$	
6S5B	TRI	SIN		6C5-GT\$	
6S5D	TRI	SIN II		TM1*+, 2C40\$	
6S5S	TRI	SIN II		6C5-GT\$	8368-57
6S6B	TRI	SIN II		5703\$	
6S7B	TRI	SIN II		5744\$	
6S8P	TRI	SIN		6S1P+, 9002\$	
6S8S	TRI	SIN II		2C22\$	
6S9D	TRI	SIN II			
6S10D	TRI	SIN II			
6S11D	TRI	SIN II			
6S13D	TRI	SIN II			
6S15P	TRI	SIN II			
6S16D	TRI	SIN II			
6S17K	TRI	SIN II			
6S18S	TRI	SIN II			
6S19P	TRI	SIN II			

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6S20S	TRI	SIN II			
6S21D	*TRI	SIN II			
6S25B	TRI	SIN II			
6S26B	TRI	SIN II		6S6B+	
6S27B	TRI	SIN II		6S7B+	
6S28B	TRI	SIN II			
6S29B	TRI	SIN II			
6S30B	TRI	SIN II			
6S33S	TRI	SIN II			
6S34A-V	TRI	SIN II			
6S35A-V	TRI	SIN II			
6S36K	TRI	SIN II			
6S37B	TRI	SIN II			
6S39S	TRI	SIN II			
6SK7	PND	TRI II			
6TS4P	DWD	SIN II		6X4\$	
6TS4S	DIO	SIN II			8347-57
6TS5S	DWD	SIN II		6X5GT\$	8528-57
6TS10P	DIO	SIN II		6B3\$	
6TS13P	DIO	SIN II			
6TS15S	DIO	TWN II			
6TS17S	DIO	SIN II			
6V1P	PND	SIN II			
6VKH1	DWD	SIN II			
6YE1P	TRI	SIN II		EM80=, 6BR5\$	
6YE5	*TRI	SIN		6YE5S+	
6YE5S	TRI	SIN II		6YE5*	8379-57
6ZH1B	PND	SIN II		5702\$	
6ZH1L	PND	SIN II			
6ZH1P	PND	SIN II		6AK5\$, EF95=	
6ZH1P-E	PND	SIN		6ZH1P-E7112+	
6ZH1ZH	PND	SIN II		954\$	
6ZH2B	PND	SIN II		5784\$, 5639\$	
6ZH2M	PND	SIN II		1851\$	
6ZH2P	PND	SIN		6ZH2P-E, E7113+	
6ZH2P-E	PND	SIN		6ZH2P-E7113+	
6ZH3	PND	SIN II		6SH7\$	8085-56
6ZH3M	*PND	SIN II		6AB7/1853\$	
6ZH3P	PND	SIN II		6AG5\$, EF96=	8350-57
6ZH4	PND	SIN II		6AC7\$	8364-57
6ZH4B	*PND	SIN		6AG7\$	
6ZH4E	PND	SIN II			
6ZH4P	PND	SIN II		6AU6\$, EF94=	
6ZH5	*TRI	SIN		6J5\$	
6ZH5A	*PND	SIN II			
6ZH5B	PND	SIN II			
6ZH5P	BEA	SIN II		6AH6\$	8351-57
6ZH6M	*PND	SIN		6J7\$	
6ZH6P	*PND	SIN		6J7\$	
6ZH6S	PND	SIN II		Z62=	
6ZH7	PND	SIN II		6J7	8365-57
6ZH7B	*PND	SIN		6W7G\$	
6ZH8	PND	SIN II		6SJ7\$	8366-57
6ZH8S	PND	SIN II			
6ZH9B	PND	SIN II			
6ZH9P	PND	SIN II			
6ZH9P-E	PND	SIN		6ZH9P-E7114+	
6ZH10B	PND	SIN II			
6ZH10P	PND	SIN II			
6ZH11B	*PND	SIN		6SH7\$	
6ZH11P	PND	SIN II		6B05\$	
6ZH11P-EPND	SIN			6ZH11P+, E7115+	
6ZH12B	*PND	SIN		6SG7\$	
6ZH13	PND	SIN		6ZH13L+	
6ZH13L	PND	SIN II		6ZH13	
6ZH20P	BEA	DIO II			
6ZH21P	BEA	DIO II			
6ZH22P	DIO	BEA II			
6ZH23P	PND	DBA II			
6ZH31BK	PND	SIN II		EF95=	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6ZH32P	PND	SIM	II		
6ZH33A	PND	SIM	II		
6ZH33AV	PND	SIM	II		
6ZH35BV	PND	SIM	II		
D7	REG		XIII		
D7A	REC		XI	DG-TS21**	
D7B	REC		XI	DG-TS22**	
D7D	REC		XI	DG-TS25**	
D7G	REC		XI	DG-TS24**	
D7V	REC		XI	DG-TS23**	
D7YE	REC		XI		
D7ZH	REC		XI	DG-TS27**	
DG-TS7	REC		XI	D2M+	
DK-S7	MIX		XIV		
DK-V7	DET		XIV		
EM-7	TRI	SIM	II		
FS-K7	PHC		XV		
G1-7B	TRI	SIM	III		
GMI-7	TET	SIM	III		
GS-7	COU		XXI		
GS-7	TRI	SIM		GK-3000+	
GS-7A	TRI	SIM	III		
GS-7B	TRI	SIM	III		
KS-7	TRI	SIM		G-811+, 811-A5	
LD-7	TRI	SIM		G1-7B+	
LI-7	IC		VIII		
MS-7	COU		XXI		
P7			X		
R-7			XXII		
SAT-7	COU		XXI		
SBM-7	COU		XXI		
SBT-7	COU		XXI		
SG7S	DIO	SIM	V		
SMM-7	COU		XXI		
TVB-7	THM		XVIII		
UV-7	TWT		IX		
7LO1M	OS		VIII		
7LO551	OS		VIII	3MP1s	
7P12S	PND	SIM	II		
7ZH12S	PND	SIM	II	328A5	
D8	REG		XIII		
DG-TS8	REC		XI	D2V+	
F-8	PHO		XVI		
G1-8	PND	SIM	III		
FS-K8	PHC		XV		
GS-8	COU		XXI		
GU8	TRI	SIM	III		
KMT-8	TMS		XIX		
MMT-8	TMS		XIX		
MS-8	COU		XXI		
P8			X		
P8A			X		
R-8			XXII		
SAT-8	COU		XXI		
SBM-8	COU		XXI		
SBT-8	COU		XXI		
SG8S	DIO	SIM	V		
SMM-8	COU		XXI		
STS-8	COU		XXI		
T8D	TMS		XIX		
T8E	TMS		XIX		
T8M	TMS		XIX		
T8R	TMS		XIX		
T8S1	TMS		XIX		
T8S1M	TMS		XIX		
T8S2	TMS		XIX		
T8S2M	TMS		XIX		
T8S3	TMS		XIX		
T8S3M	TMS		XIX		
TG8/3	TRI	THY		TG1-2.5/4+	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
TVB-8	THM		XVIII		
VS-8	COU		XXI		
8LM3V	OS		VIII		
8LO2B	OS			8LO29+, 3BP1A5	
8LO29I	OS		VIII	3BP1s	
8LO29M	OS		VIII		
8LO30I	OS		VIII	3DP1s	
8LO30M	OS		VIII		
8LO39V	OS		VIII	3JP7s	
D9A	REC		XI		
D9B	REC		XI		
D9D	REC		XI		
D9G	REC		XI		
D9I	REC		XI		
D9K	REC		XI		
D9L	REC		XI		
D9M	GEP		XI		
D9V	REC		XI		
D9YE	REC		XI		
D9ZH	REC		XI		
DG-TS9	REC		XI	D2A+	
G-9	TRI	SIM		GU65+	
GS-9	COU		XXI		
GS9B	TRI	SIM	III		
LD-9	TRI	SIM		GS-9B+	
MMT-9	TMS		XIX		
MS-9	COU		XXI		
P9			X	2N35s	
P9A			X		
R-9			XXII		
SG9S	DIO	SIM	V		
SMM-9	COU		XXI		
STSV-9	PHO		XVI	F-1+	
T9	TMS		XIX		
TVB-9	THM		XVIII		
VS-9	COU		XXI		
D10	REC		XI		
D10A	REC		XI		
D10B	REC		XI		
DGTS10	REC		XI	D2B+	
G10	TRI	SIM	III		
G-10A	TRI	SIM		GU-10A+	
G-10RA	TRI	SIM		GU-10B+	
GK0-10	TRI	SIM		GK-2000+	
GS-10	COU		XXI		
GT-10	TRI	SIM		G46+	
GU10A	TRI	SIM	III		
GU10B	TRI	SIM	III		
ISK10			XX		
ISP10			XX		
IST10			XX		
KMT-10	TMS		XIX		
MO-10	TRI	SIM	III		
P10			X	2N35s	
P10A	GAP		X		
P10B	GAP		X		
R-10			XXII		
SBT-10	COU		XXI		
SG10S	REG		V		
TO-10	PND	SIM		10P12S	
VG-10	POW		XII		
VG-10-30	POW		XII		
VG-10-45	POW		XII		
VG-10-55	POW		XII		
VG-10-80	POW		XII		
VG-10-110	POW		XII		
VG-10-150	POW		XII		
VK-10	POW		XII		
VKU-10-0.25	SCR	S14	XII-A		
VKU-10-0.5	SCR	S14	XII-A		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
VKU-10-0.75	SCR	SI4	XII-A		
VKU-10-1.0	SCR	SI4	XII-A		
VKU-10-1.5	SCR	SI4	XII-A		
VKU-10-2.0	SCR	SI4	XII-A		
VKU-10-2.5	SCR	SI4	XII-A		
VKU-10-3.0	SCR	SI4	XII-A		
10LK2B	PR	VIII			
10LO43I	OD	VIII			
10P12S	PND	SIM	II		
102H1L	PND	SIM	II	102H3L+	
102H3L	PND	SIM	II	102H1L+	
102H3P	PND	SIM	II	310AS	
102H12S	PND	SIM	II		
D11	REC	XI			
FEU-11	PHM	XVI			
GI-11B	TRI	SIM	III		
GS-11	COU	XXI			
GU11A	TRI	SIM	III		
GU11B	TRI	SIM	III		
KMT-11	TMS	XIX			
LD11	TRI	SIM		GI-11B+	
MS-11	COU	XXI			
P11		X		2N94S	
P11A	GAP	X			
R-11		XXII			
VS-11	COU	XXI			
D12	REC	XI			
D12A	REC	XI			
DGTS12	REC	XI			
FEU-12	PHM	XVI			
GI-12B	TRI	SIM	III		
GS-12	COU	XXI			
GU12A	TRI	SIM	III	880S	
KMT-12	TMS	XIX			
LD12	TRI	SIM		GI-12B\$	
MMT-12	TMS	XIX			
MS-12	COU	XXI			
OS12/500	*PND	SIM		G837+	
P12		X			
P12A	GAP	X			
R-12		XXII			
12B1M	PND	DWD	II		
12B2M	PND	DWD	II		
12G1	TRI	DWD	II	12SR7\$	
12G2	TRI	DWD	II	12SQ7\$	
12K1M	PND	SIM	II		
12K3	PND	SIM	II	12SK7\$	
12K4	PND	SIM	II	12SG7\$	
12K12B	*PND	SIM		12SG7\$	
12K17B	*PND	SIM		12SK7\$	
12KH3S	DWD	SIM	II	LG1	
12M1M	PND	TRI	II		
12N1	TRI	TWN		12N11S+, 12AH7GT\$	
12N4P	TRI	TWN	II	12AY7\$	
12N10	TRI	TWN		12N10S+, 12SC7GT\$	
12N10M	TRI	TWN		12N10S+, 12SC7GT\$	
12N10S	TRI	DUO	II	12SC7\$	
12N11S	TRI	TWN	II	12AH7GT\$	
12P4S	PND	SIM	II		
12P14S	BEA	SIM	II		
12PI7L	PND	SIM	II		
12R1B	TRI	DWD		12G1+, 12SR7\$	
12R17B	TRI	DWD		12G2+, 12SQ7\$	
12S2	*TRI	SIM	II		
12S3S	*TRI	SIM	II	LD1+	
12ZH1	*PND	SIM		12ZH1L+	
12ZH1L	PND	SIM	II	12ZH1	
12ZH1M	PND	SIM	II		
12ZH3L	PND	SIM	II		
12ZH8	PND	SIM	II	12SJ7\$	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
12ZH8B	*PND	SIM		12SJ7\$	
12ZH17B	*PND	SIM		12SJ7\$	
D13	REC	XI			
DGTS13	REC	XI			
FEU-13	PHM	XVI			
G-13	TRI	SIM	III		
GI-13	TRI	SIM	III		
GI-13B	TRI	SIM	III		
GM13	TET	SIM	III		
GU13	BEA	SIM	III	813\$	
LI-13	IM	VIII			
MS-13	COU	XXI			
P13		X		2N43\$	
P13A		X		2N34\$	
P13B		X			
SG13P	DIO	SIM	V		
V13/30	*DIO	SIM	IV	V1-003/13+	
VS-13	COU	XXI			
13LK1B	TV	VIII		5FP4\$	
13LK2B	TV	VIII			
13LM4V	OS	VIII			
13LM31M	OS	VIII		5FP7\$	
13LM31V	OS	VIII			
13LM56I	OS	VIII		5FP1\$	
13LM57	OS	VIII		5FP7\$	
13LM57D	OS	VIII			
13LM58K	OS	VIII			
13LO1B	*	VIII			
13LO2B	*	VIII		5CP1-A*\$	
13LO3I	OS	VIII			
13LO4I	OS	VIII			
13LO5P	*	VIII		5CP7-AS	
13LO6P	*	VIII		5FP7-AS	
13LO36	OS	VIII		5FP7\$, L0736+	
13LO36V	OS	VIII			
13LO37A	OS	VIII			
13LO37I	OS	VIII		5CP1\$, L0737+	
13LO37M	OS	VIII			
13LO48A	OD	VIII		L0748+	
13LO48I	OD	VIII		5SP1\$	
13LO48M	OD	VIII			
13LO54A	OS	VIII		L0754	
13LO54M	OS	VIII			
13LO54V	OS	VIII			
13LO101M		VIII			
13LO102M		VIII			
13LO104A	TV	VIII			
13P1	*BEA	SIM		13P1M+, 13P1S+	
13P1M	BEA	SIM		13P1+, 13P1S+	
13P1S	BEA	SIM	II	13P1+, 13P1M+	
D14	REC	XI			
D14A	REC	XI			
DGTS14	REC	XI			
FEU-14	PHM	XVI			
GI-14B	TRI	SIM	III		
LI-14	IM	VIII			
MS-14	COU	XXI			
P14		X		2N65\$	
P14A		X			
P14B		X			
TV-14	TWM	XVIII			
VS-14	COU	XXI			
D15	REC	XI			
DGTS15	REC	XI		D2N+	
FEU-15	PHM	XVI			
G-15A	TRI	SIM		GU-11A+	
G-15RA	TRI	SIM		GU-16B+	
GDO-15	TRI	SIM		G-61+	
GU15	BEA	SIM	III		
IFK15-1		XX			

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
ISSH15			XX		
LI-15	IM		VIII		
P15			X	2N435, OC604=	
P15A	GAP		X		
SG15P	DIO	SIN	V		
SG15P1	DIO	SIN	V		
TG-15/3	TRI	THY		TG1-5/3+	
TR-15/2	TRI	THY		TR-1-5/2+	
TV-15	THM		XVIII		
VG15/5000	DIO	SIN		GG1-0.5/5+	
15A6S	PND	SIN	II		
D16	REC		XI		
D16A	REC		XI		
DGTS16	REC		XI	D2P+	
FEU-16	PHM		XVI		
GI-16B	TET	SIN	III		
GU16B	TRI	SIN	III		
LG-16	DIO	SIN		2D25+	
MS-16	COU		XXI		
P16			X	2N555, OC604=	
P16A			X		
P16B			X		
SG16P	DIO	SIN	V		
TV-16	THM		XVIII		
VS-16	COU		XXI		
D17	REC		XI		
DGTS17	REC		XI		
FEU-17	PHM		XVI		
FEU-17A	PHM		XVI		
G-17B	TRI	SIN	III		
GI-17	TRI	SIN	III	G480*	
GU-17	BEA	TWN	III		
LI-17	IM		VIII		
MST-17	COU		XXI		
P17			X		
P17A			X		
P17B			X		
SG17S	DIO	SIN	V		
D18	GEP		XI		
FEU-18	PHM		XVI		
FEU-18A	PHM		XVI		
GI-18B	TRI	SIN	III	GK-2000+	
GS-18	TRI	SIN			
GU-18	BEA	TWN	III		
LI-18	VI		VIII		
P18			X		
P18A			X		
P18B			X		
SG18S	DIO	SIN	V		
18LK1B	TV		VIII		
18LK2B	TV		VIII	70P4S	
18LK3V	*		VIII		
18LK4B	TV		VIII		
18LK5B	TV		VIII		
18LK7B	TV		VIII		
18LK15	TV		VIII		
18LM35	OS		VIII	7BP7AS	
18LM35V	OS		VIII		
18LO1P	*		VIII	7BP7AS	
18LO40B	TV		VIII	7JP4S, LK740+	
18LO47A	OD		VIII		
18LO47V	OD		VIII		
D19	GEP		XI		
D19A	GEP		XI		
D19B	GEP		XI		
FEU-19M	PHM		XVI		
GI-19B	TRI	SIN	III		
GU-19	BEA	TWN	III		
P19			X		
SG19S	DIO	SIN	V		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
19LK4B	TV		VIII		
D20	GEP		XI		
FEU-20	PHM		XVI		
GK20	TRI	SIN	III		
I-20/1.5	TRI	IGN	IV		
IFK20			XX		
M-20/35	TRI	SIN		GM-1A+	
MO20	TRI	SIN	III		
P20			X		
QV20-P18	*TET	SIN		GM1-83=	
SG20G	DIO	SIN	V		
T-20BFL	COU		XXI		
TR-20/15	TRI	THY		TR-1-6/15+	
V20/20	*DIO	SIN		V1-0.02/20+	
VKU-20-0.25	SCR	S14	XII-A		
VKU-20-0.5	SCR	S14	XII-A		
VKU-20-0.75	SCR	S14	XII-A		
VKU-20-1.0	SCR	S14	XII-A		
VKU-20-1.5	SCR	S14	XII-A		
VKU-20-2.0	SCR	S14	XII-A		
VKU-20-2.5	SCR	S14	XII-A		
VKU-20-3.0	SCR	S14	XII-A		
20LM1YE			VIII		
D21	REC		XI		
DGTS21	REC		XI	D7A+	
GI-21B	TRI	SIN	III		
GU21B	TRI	SIN	III		
P21			X		
P21A			X		
DGTS22	REC		XI	D7B+	
FEU-22	PHM		XVI		
GI-22	TRI	SIN	III		
GU22A	TRI	SIN	III		
P22			X		
DGTS23	REC		XI	D7V+	
FEU-23	PHM		XVI		
GU23A	TRI	SIN	III		
GU-23B	TRI	SIN	III		
LI-23			VIII		
P23			X		
23LK1B	TV		VIII	9CP4S	
23LK2B	TV		VIII		
23LK7B	TV		VIII		
23LK8B	TV		VIII		
23LM34	OS		VIII	9GP7S	
23LM34V	OS		VIII		
23LO1P	OS		VIII	9GP7S	
23LO51A	OS		VIII		
DGTS24	REC		XI	D7G+	
FEU-24	PHM		XVI		
GI-24A	TRI	SIN	III		
GU24A			III		
DGTS25	REC		XI	D7D+	
FEU-25	PHM		XVI		
GI-25	TRI	SIN	III		
GU25B	TRI	SIN	III		
ISK25			XX		
P25			X		
P25A			X		
P25B			X		
T-25BFL	COU		XXI		
VK-25	POW		XII		
25P1	BEA	SIN	II	25L6S	
25P1S	BEA	SIN	II	25L6S	
DGTS26	REC		XI	D7E+	
FEU-26L	PHM		XVI		
GU26A	TRI	SIN	III		
GU26B	TRI	SIN	III		
P26			X		
P26A			X		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P26B			X		
DGTS27	REC		XI	D7ZH+	
FEU-27	PHM		XVI		
GU27A	TET	SIN	III		
GU27B	TET	SIN	III	827-RS	
P27			X		
P27A			X		
GU28A	TET	SIN	III		
GU28B	TET	SIN	III		
M28	TRI	SIN	III		
P28			X		
FEU-29	PHM		XVI		
G29	TRI	SIN	III		
GU29	TET	TWN	III	829-B5	
K-29	KLY		IX		
P29			X		
P29A			X		
GDO-30	TRI	SIN		GS-3B+	
GI-30	BEA	TWN	III	3E29S	
GMI-30	TRI	SIN	III		
GS-30	COU		XXI		
GU30A	TRI	SIN	III		
K-30	KLY		IX		
M-30/450	TRI	SIN		GMI-30+	
P30			X		
T-30BFL	COU		XXI		
VG-30	POW		XII		
30LK1B	TV		VIII	31LK1B+	
30P1	BEA	SIN		30P1S+	
30P1M	*BEA	SIN		30P1S+	
30P1S	BEA	SIN	II	30P1M	
30TS1M	DIO	SIN	II	30VKH1+, 30TS6S+	
30TS6S	DIO	TWN	II	30VKH1+, 30TS14*	
30VD1	DIO	SIN	II	30TS1M+	
30VKH1	DIO	SIN	II	30TS6S+	
FEU-31	PHM		XVI		
GU31	TET	SIN	III		
K-31	KLY		IX		
31LK1B	TV		VIII		
31LK2B	TV		VIII	12LP4S	
31LM32	OS		VIII	12DP7AS	
31LM32V	OS		VIII		
31LO1P			VIII	12DP7S	
31LO33	OS		VIII	126P7S	
31LO33V	OS		VIII		
FEU-32	PHM		XVI		
G32	TRI	SIN	III		
GU32	BEA	TWN	III	832S	
K-32	KLY		IX		
FEU-33	PHM		XVI		
GU33B	TET	SIN	III		
K-33	KLY		IX		
FEU-34	PHM		XVI		
GU34B	TET	SIN	III		
K-34	KLY		IX		
FEU-35	PHM		XVI		
GU-35B	TET	SIN	III		
K-35	KLY		IX		
35LK2B	TV		VIII		
FEU-36	PHM		XVI		
G36	TRI	SIN	III		
GK36	TRI	SIN		GK-20+	
GU-36B	TET	SIN	III		
FEU-37	PHM		XVI		
GU-37B	TRI	SIN	III		
FEU-38	PHM		XVI		
FEU-39	PHM		XVI		
GU-39A	TET	SIN	III		
GU-39B	TET	SIN	III		
M39	TRI	SIN	III		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
FEU-40	NSP		XVI		
GU-40B	TET	SIN	III		
T-40BFL	COU		XXI		
V40/100	DIO	SIN		V1-0.1/40+	
40LK1B	TV		VIII	16AP4S	
K-41	KLY		IX		
FEU-42	NSP		XVI		
K42	KLY		IX		
P42A			X		
P42B			X		
42LM2YE			VIII		
FEU-43	NSP		XVI		
43LK2B	TV		VIII		
43LK3B	TV		VIII		
43LK6B	TV		VIII		
43LK7B	TV		VIII		
43LK8B	TV		VIII		
43LK9B	TV		VIII		
FEU-44	NSP		XVI		
FEU-45	NSP		XVI		
45LM1B			VIII		
FEU-46	NSP		XVI		
G46	TRI	SIN	III		
47LK1B	TV		VIII		
FEU-47	NSP		XVI		
G47	TRI	SIN	III		
SB-47	PND	SIN	II		
FEU-48	NSP		XVI		
K48	KLY		IX		
FEU-49	PHM		XVI		
G-49	TRI	SIN		GS-4+	
GD-50	TRI	SIN		G-46+	
GU50	PND	SIN	III	LS50=	
I-50/1.5	TRI	IGN	IV		
I-50/1500	DIO	IGN	IV		
IFK50			XX		
LS50	*PND	SIN		GU50=	
M50	TRI	SIN	III		
T-50BFL	COU		XXI		
VG-50	POW		XII		
VK-50	POW		XII		
VKU-50-0.25	SCR	S14	XII-A		
VKU-50-0.5	SCR	S14	XII-A		
VKU-50-0.75	SCR	S14	XII-A		
VKU-50-1.0	SCR	S14	XII-A		
VKU-50-1.5	SCR	S14	XII-A		
VKU-50-2.0	SCR	S14	XII-A		
VKU-50-2.5	SCR	S14	XII-A		
VKU-50-3.0	SCR	S14	XII-A		
GM51A	TRI	SIN	III		
SB-51	PND	SIN	II		
STSV51	PHO		XVI		
FEU-52	PHM		XVI		
FEU-53	PHM		XVI		
M53	TRI	SIN	III		
53LK2B	TV		VIII		
53LK3B	TV		VIII		
53LK4TS			VIII		
53LK5B	TV		VIII		
53LK6B	TV		VIII		
G-54	TRI	SIN		GS-6+	
R-54			XXII		
G-56	TRI	SIN		G29+	
GM57	TRI	SIN	III	MS50*+, M457+, UB180=	
M57	TRI	SIN	III		
SO-57	PND	SIN	II		
G-58	TRI	SIN		GK-3000+	
59LK1B	TV		VIII		
GM60	TRI	SIN	III	M600**	
GS-60	COU		XXI		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
T-608FL	COU		XXI		
G61	TRI	SIN	III		
G62	TRI	SIN	III		
G-64	TRI	SIN		GS-38+	
G65	TRI	SIN	III		
G68	TRI	SIN	III		
GI-708	TRI	SIN	III		
GM-70	TRI	SIN	III		
GM708	TRI	SIN	III		
ISP70			XX		
LD70	TRI	SIN		GI-708+	
V70/1000	DIO	SIN		V1-0.3/70+	
GK71	PND	SIN	III	G471+	
GU72	PND	SIN	III		
M74	TRI	SIN	III		
75S5-30	*DIO	SIN		SG2S+, OA3S	
GI-768	TRI	SIN	III		
GU80	PND	SIN	III	OS450+, P800**	
M80	TRI	SIN	III		
T-808FL	COU		XXI		
GU81	PND	SIN	III		
GMI-83	TET	SIN	III	QV20-P18=	
G88	TRI	SIN	III		
VO-88	DIO	TWN		4VKH1+	
GMI-89	TET	SIN	III	G-489**	
GU89A	TRI	SIN	III	889AS	
GU89B	TRI	SIN	III	889R-AS	
M89	TRI	SIN	III		
GMI-90	TET	SIN	III	G-490**	
GS908	TRI	SIN	III		
LD-90	TRI	SIN		GS-90B+	
MTKH90	TRI	THY	VII		
RB-90			XXII		
TGI-90/8	TRI	THY		TGI-1-90/8+	
G91	TRI	SIN	III		
G-92	TRI	SIN		GK-2000+	
L-99	PTG	SIN		6A2P+, 68E6S	
G-100	TRI	SIN		G-29+	
G-100A	TRI	SIN		GK-3A+	
GD-100	TRI	SIN		G-47+	
GKE100	*TET	SIN	III	GE-1=	
GM100	TRI	SIN	III		
I-100/1.0	TRI	IGN	IV		
I-100/5.0	TRI	IGN	IV		
ISSH100-1			XX		
ISSH100-3			XX		
L100	*PND	DIO		682P*	
VG-100	POW		XII		
VK-100	POW		XII		
VKU100-0.25	SCR	S14	XII-A		
VKU100-0.5	SCR	S14	XII-A		
VKU100-0.75	SCR	S14	XII-A		
VKU100-1.0	SCR	S14	XII-A		
VKU100-1.5	SCR	S14	XII-A		
VKU100-2.0	SCR	S14	XII-A		
VKU100-2.5	SCR	S14	XII-A		
VKU100-3.0	SCR	S14	XII-A		
VKUV-100-0.25	SCR	S14	XII-A		
VKUV-100-0.5	SCR	S14	XII-A		
VKUV-100-0.75	SCR	S14	XII-A		
VKUV-100-1.0	SCR	S14	XII-A		
VKUV-100-1.5	SCR	S14	XII-A		
VKUV-100-2.0	SCR	S14	XII-A		
VKUV-100-2.5	SCR	S14	XII-A		
VKUV-100-3.0	SCR	S14	XII-A		
D101	REC		XI		
D101A	REC		XI		
LI-101	IC		VIII		
P101			X		
P101A			X		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P101B			X		
D102	REC		XI		
D102A	REC		XI		
P102			X		
D103	REC		XI		
D103A	REC		XI		
P103			X		
S-103	TET	SIN		GKE-1000+	
D104	REC		XI		
D104A	REC		XI		
L-104	PND	SIN		6K4P+, 6BA6S	
P104			X		
D105	REC		XI		
D105A	REC		XI		
P105			X		
105S5-30	DIO	SIN		SG3S+, OC3S	
D106	REC		XI		
D106A	REC		XI		
P106			X		
S-106	TET	SIN		GKE-150+	
D107	REC	SIP	XI		
D107A	REC	SIP	XI		
P107			X		
UB107	*TRI	SIN		4S1+	
D108	REC	SIP	XI		
GT108A			X		
GT108B			X		
GT108G			X		
GT108V			X		
D109	REC	SIP	XI		
GT109A			X		
GT109B			X		
GT109G			X		
GT109V			X		
S-109	TET	SIN		GKE-300+	
UB110	*TRI	SIN		4S2+	
VU-111D	DIO	SIN	IV		
S8-112	PND	SIN	II	4E1+	
SO-118	TRI	SIN		4S5+	
G120	TRI	SIN	III		
IFK120			XX		
TR-120/15	TRI	THY		TR-1-40/15+	
SO-122	PND	SIN		4P1+	
SO-124	PND	SIN	II	4ZH5+	
VO-125	DIO	SIN	IV		
SK-127			XXII		
VG-129	DIO	SIN	IV		
UB-132	*TRI	SIN	II	4S3+	
P135			X		
TO-141	*TRI	SIN	II	3S1+	
TO-142	*TRI	SIN	II	3S2+, 3S9+	
S8-147	TET	SIN		4E2+	
SO-148	PND	SIN	II	4E3+	
GI-150	TRI	SIN	III		
GKE150	*TET	SIN	III	GE-2=	
GU150	TRI	SIN	III		
I-150/1.0	TRI	IGN	IV		
M150	TRI	SIN	III		
150S5-30	*DIO	SIN		SG4S+, OD3S	
S8-152	TRI	SIN	II		
UB-152	TRI	SIN	II	2S1+	
UB-153	TRI	SIN	II		
S8-154	PND	SIN	II	2E1+	
S8-155	BEA	SIN		2P2+	
UB-155	*8EA	SIN	II	2E2+	
2S-156A	REG		XIII		
VG-161	DIO	SIN	IV		
VG-163	DIO	SIN	IV		
2S-168A	REG		XIII		
VG-176	DIO	SIN	IV		

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GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
UB-178	TRI	SIN	II		
SO-182	PND	SIN	II		
UB-182	*TRI	SIN	II		
SO-185	TRI	SIN		4S5+	
U0186	*TRI	SIN	II	4S4+	
US-186	TRI	SIN		4S4+	
VO-188	DWD	SIN	IV	4VKH1*	
SB-190	PND	SIN	II		
191P	TET	SIN	II		
VO-196	DIO	SIN	IV		
VO-197	DWD	SIN	IV		
GD-200	TRI	SIN		GS-4+	
I-200/1.5	TRI	IGN			
IFP200			XX		
IVS200/2		IGN	IV		
TGI-200	TRI	THY	VII	MTI-2+	
VG200	POW		XII		
VK-200	POW		XII		
VKV200	POW		XII		
D201A	REC		XI		
D201B	REC		XI		
D201D	REC		XI		
D201G	REC		XI		
D201TS	REC		XI		
D201V	REC		XI		
D201YE	REC		XI		
D201ZH	REC		XI		
LI-201	IM		VIII		
P201			X		
P201A			X		
SG201S	DIO	SIN	V		
D202	REC		XI		
P202			X	2N68S	
SG202B	DIO	SIN	V		
VO-202	DWD	SIN	IV		
D203	REC		XI		
LI-203			VIII		
P203			X	2N68S	
SG203K	DIO	SIN	V		
D204	REC		XI		
D205	REC		XI		
D206	REC		XI		
D207	REC		XI		
P207			X		
P207A			X		
D208	REC		XI		
P208			X		
P208A			X		
D209	REC		XI		
P209			X		
P209A			X		
D210	REC		XI		
P210			X		
P210A			X		
D211	REC		XI		
P211			X		
P212			X		
P212A			X		
TG212M	TRI	THY	VII		
P213			X		
TG-213	TRI	THY	VII	PT-2**	
D214	REC	SIA	XI		
D214A	REC	SIA	XI		
D214B	REC		XI		
P214			X		
P214A			X		
P214B			X		
D215	REC	SIA	XI		
D215A	REC	SIA	XI		
D215B	REC	SIA	XI		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P215			X		
P216			X		
P216A			X		
D217	REC	SIA	XI		
P217			X		
P217A			X		
P217B			X		
D218	REC	SIA	XI		
D219A	REC	SIA	XI		
D220	REC	SIA	XI		
D220A	REC	SIA	XI		
D220B	REC	SIA	XI		
SK-220			XXII		
D221	REC	SIA	XI		
D222	REC	SIA	XI		
D223	REC	SIA	XI		
D223A	REC	SIA	XI		
D223B	REC	SIA	XI		
D224	REC	SIA	XI		
D224A	REC	SIA	XI		
D224B	REC	SIA	XI		
D225	REC	SIA	XI		
D226	REC	SIA	XI		
D226A	REC	SIA	XI		
D226D	SIA		XI		
D226G	SIA		XI		
D226V	SIA		XI		
D226YE	SIA		XI		
SG226	DIO	SIN	V		
D227-A	SWI	SIA	XI-A		
D227-B	SWI	SIA	XI-A		
D227-D	SWI	SIA	XI-A		
D227-G	SWI	SIA	XI-A		
D227-I	SWI	SIA	XI-A		
D227-V	SWI	SIA	XI-A		
D227YE	SWI	SIA	XI-A		
D227-ZH	SWI	SIA	XI-A		
SG227	DIO	SIN	V		
D228-A	SWI	SIA	XI-A		
D228-B	SWI	SIA	XI-A		
D228-D	SWI	SIA	XI-A		
D228-G	SWI	SIA	XI-A		
D228-I	SWI	SIA	XI-A		
D228-V	SWI	SIA	XI-A		
D228YE	SWI	SIA	XI-A		
D228-ZH	SWI	SIA	XI-A		
D229A	SIA		XI		
D229B	SIA		XI		
D230A	SIA		XI		
D230B	SIA		XI		
VO-230	DIO	SIN	IV		
D231	REC	SIA	XI		
D231A	REC	SIA	XI		
D231B	REC	SIA	XI		
D232	REC	SIA	XI		
D232A	REC	SIA	XI		
D232B	REC	SIA	XI		
D233(P1)	SIA		XI		
D233A	REC	SIA	XI		
D233B	REC	SIA	XI		
D234B	REC	SIA	XI		
D235A	CON	SI	XI-C		
D235B	CON	SI	XI-C		
D235G	CON	SI	XI-C		
D235V	CON	SI	XI-C		
TG-235	TRI	THY	VII	PT-3**	
VG-236	DIO	SIN	IV		
VG-237	DIO	SIN	IV		
D238A	CON	SI	XI-C		
D238B	CON	SI	XI-C		

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
02380	CON	SI	XI-C		
0238G	CON	SI	XI-C		
D238V	CON	SI	XI-C		
0238YE	CON	SI	XI-C		
VO-239	OIO	SIN	IV		
UB-240	TRI	SIN	II	2S2+	
SB241	*PNO	SIN		2K1*, 2K1M+, S0241*	
S0241	*PNO	SIN		2K1*, 2K1M+, S0241*	
0242	REC	XI			
D242A	REC	XI			
0242B	REC	XI			
SB-242	PTG	SIN		2A1+	
S0-242	PTG	SIN	II	SB242, 2A1, 2A1M	
0243	REC	XI			
0243A	REC	XI			
0243B	REC	XI			
SB243	*TRI	DUO		2N1*, 2N1M*, S0243*	
S0-243	*TRI	TWM	II	2N1+	
0244	REC	XI			
0244A	REC	XI			
0244B	REC	XI			
SB244	*BEA	SIN		2P1+, S0244+	
S0-244	PND	SIN	II	2P1+	
D245	REC	XI			
0245A	REC	XI			
0245B	REC	XI			
SB245	*PNO	SIN		2ZH1M+	
0246	REC	XI			
D246B	REC	XI			
0247	REC	XI			
D247B	REC	XI			
LO-247	OS	VIII			
0248B	REC	XI			
LO-248	OS	VIII			
LO-249	OS	VIII			
GKO-250	TRI	SIN		GK-1A+	
VG-252	DIO	SIN	IV		
G256	TRI	SIN	III		
S0257	*PND	SIN	II	2ZH4+	
SB258	*BEA	SIN		2P3+, 2P2M+, S0258+	
S0-258	*PND	SIN	II	2P3+	
SB259	*TRI	OIO		4N1+	
S0259	*TRI	OIO		4N1+	
RB-280		XXII			
G-300	TRI	SIN		G68	
GI-300	TRI	SIN		GI-18B+	
GK-300	TRI	SIN		GU-8+	
GKE300	TET	SIN	III		
IFB300		XX			
SG301S	DIO	SIN	V		9103-59
2T301		X			
2T301A		X			
2T301B		X			
2T301D		X			
2T301G		X			
2T301V		X			
2T301YE		X			
2T301ZH		X			
3I-301A	TUN	GAS	XI-B		
3I-301B	TUN	GAS	XI-B		
3I-301G	TUN	GAS	XI-B		
3I-301V	TUN	GAS	XI-B		
D302	REC	XI			
P302		X			
SG302S	OIO	SIN	V		9103-59
1I-302A	TUN	GAS	XI-B		
1I-302B	TUN	GAS	XI-B		
1I-302G	TUN	GAS	XI-B		
1I-302V	TUN	GAS	XI-B		
D303	REC	XI			

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P303			X		
P303A			X		
SG303S	OIO	SIN	V		9103-59
1T303A			X		
1T303B			X		
1T303O			X		
1T303G			X		
1T303V			X		
1T303YE			X		
0304	REC	XI			
P304			X		
SG304S	OIO	SIN	V		
0305	REC	XI			
SG305K	REG	V			
P306			X		
P306A			X		
SG306K	REG	V			
P307			X		
P308			X		
1T308A			X		
1T308B			X		
1T308G			X		
1T308V			X		
GT309A			X		
GT309B			X		
GT309D			X		
GT309G			X		
GT309V			X		
GT309YE			X		
0310	GEA	XI			
GT310A			X		
GT310B			X		
GT310D			X		
GT310G			X		
GT310V			X		
GT310YE			X		
P314A			X		
P314B			X		
P314C			X		
P322			X		
TGI-325/16	TRI	THY		MTI-5+, TGI-1-325/16+	
I-1-350/0.8	TRI	THY	IV		
R-350			XXII		
RB-350			XXII		
VO-360	DIO	SIN	IV		
GO-400	TRI	SIN		GS-6+	
M400	TRI	SIN	III		
TG-400/15	TRI	THY		TRI-130/15+	
TGI400/3.5	TRI	THY		TGI-2-400/3.5+	
0401	MOD	XIV			
KTS401A	REC	XI			
KTS401B	REC	XI			
LI-401		VIII			
M401	TRI	SIN	III		
P401		X		2N112S	
P402		X		SB-100S	
D403A	MIX	XIV			
D403B	MIX	XIV			
D403V	MIX	XIV			
P403		X		OC614=	
P403A		X		OC614=	
1T403A		X			
1T403B		X			
1T403O		X			
1T403G		X			
1T403I		X			
1T403V		X			
1T403YE		X			
1T403ZH		X			
P404		X			

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
P404A			X		
D405	DET		XIV		
D405A	DET		XIV		
D405AP	DET		XIV		
D405B	DET		XIV		
D405BP	DET		XIV		
P405			X		
P405A			X		
P406			X	GT-60=	
P407			X		
P408			X		
P409			X		
T-409		DIO IGM	IV		
G410		TRI SIN	III		
P410			X		
P410A			X		
T-410		DIO IGM	IV		
410R		KLY	IX		
G411		PND SIN	III	KZH1**	
P411			X	AF114=	
P411A			X	AF114=	
T-411		DID IGM	IV		
G412		PND SIN	III		
G413		PND SIN	III	GZH2**	
G414		PND SIN	III		
P414			X		
P414A			X		
P414B			X		
P415			X		
P415A			X		
P415B			X		
P416			X		
P416A			X		
P416B			X		
P416V			X		
G417		TRI SIN	III		
P417			X		
P417A			X		
G418		PND SIN	III		
P418			X		
P418A			X		
P418B			X		
P418V			X		
P420			X		
P421			X		
G422		PND SIN	III		
P422			X		
P422A			X		
P423			X		
P423A			X		
G424		PND SIN	III		
G425		PND SIN	III		
G430		TRI SIN	III		
RB-430			XXII		
G431		TRI SIN	III	G431A+	
G431A		TRI SIN	III	G431	
G-431R		TRI SIN		GS-4D+	
G433		TRI SIN	III	G433A+	
G433A		TRI SIN	III	G433	
M435		TRI SIN	III		
G441		TRI SIN	III		
G-450		TRI SIN	III		
DS450		*PND SIN		GU80, P800**	
R-450			XXII		
M-451		TRI SIN		GM-51A+	
G-452		TRI SIN	III	G-431A+	
G-454		TRI SIN	III	GS-3B+	
M457		*TRI SIN	II	MS3**+, UB180=, GM57+	
M-470		TRI SIN		GM-70+	
G471		*PND SIN		GK71+	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
G472		TRI SIN	III		
G480		*TRI SIN		GI-17**	
G-483		TET SIN		GMI-83+	
G484		TRI SIN	III		
G-489		*TET SIN		GMI-89+	
G-490		*TET SIN		GMI-90**	
IFK500			XX		
IFP500			XX		
ISSH500			XX		
VGV500		POW	XII		
P501			X		
P501A			X		
P502			X		
P502A			X		
P502B			X		
P502V			X		
2D503A		SI	XI		
2D503B		SI	XI		
P503			X		
P503A			X		
P504			X		
P504A			X		
P505			X		
P505A			X		
M600		*TRI SIN		GM60+	
P601			X		
P601A			X		
P601B			X		
D602A		VID	XIV		
D602B		VID	XIV		
D602V		DET	XIV		
P602			X		
P602A			X		
D603		VIO	XIV		
P604			X		
P604A			X		
P604B			X		
P605			X		
P605A			X		
P606			X		
P606A			X		
P607			X		
P607A			X		
P608			X		
P608A			X		
P609			X		
P609A			X		
700AD		MAG	IX		
P701			X		
P701A			X		
P702			X		
P702A			X		
706AU		MAG	IX		
707A/B		KLY	IX		
LO-709A		OS	VIII		
714AU		MAG	IX		
LK-715		*TV		18LK15+	
720AYE		MAG	IX		
723A/B		KLY	IX		
725A		MAG	IX		
LK-726		TV		18LK3B+	
726		KLY	IX		
LO-729		*OS		8LO29+, 3BP1As	
LO-730		OS		8LD30+	
LO-731		OS		13LM31+	
LO-732		OS		31LM32+	
LD-733		*OS		31LO33+	
LO-734		OS		23LM34+	
LD-735		OS		18LM35+	
LO-736		*OS		13LO36+	

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
LO-737	*OS			13L037+	
LO-738	*OS			5L038+, 2AP1\$	
LO-739	OS			8L039+	
LK-740	*TV			18L04DB+, 7JP4\$	
LO-743	*OD			1DL043+	
LO-747	*OD			18L047+	
LO-748	*OD			13L048+	
LO-749	*OS			13L049+	
GK750	TRI SIN	III			7709-55
LO751	OS			23L051+	
LO-754	*OS			13L054+	
P800	*PMD SIN			GU8D**+, OS45D=	
M800	TRI SIN	III			
G807	BEA SIN	III		807\$	838D-57
D808	REG	XIII			
D8D9	REG	XIII			
D810	REG	XIII			
D811	REG	XIII		811-A\$	
G811	TRI SIN	III			
D813	REG	XIII			
G-813	BEA SIN			GU-13+, 813\$	
D814-A	REG SI	XIII			
D814-B	REG SI	XIII			
D814-D	REG SI	XIII			
D814-G	REG SI	XIII			
D814-V	REG SI	XIII			
D815A(P)	REG SI	XIII			
D815B(P)	REG SI	XIII			
D815D(P)	REG SI	XIII			
D815G(P)	REG SI	XIII			
D815V(P)	REG SI	XIII			
D815YE(P)	REG SI	XIII			
D815ZH(P)	REG SI	XIII			
D816A(P)	REG SI	XIII			
D816B(P)	REG SI	XIII			
D816D(P)	REG SI	XIII			
D816G(P)	REG SI	XIII			
D816V(P)	REG SI	XIII			
D817A(P)	REG SI	XIII			
D817B(P)	REG SI	XIII			
D817G(P)	REG SI	XIII			
D817V(P)	REG SI	XIII			
D818A	REG SI	XIII			
D818B	REG SI	XIII			
D818D	REG SI	XIII			
D818G	REG SI	XIII			
D818V	REG SI	XIII			
D818YE	REG SI	XIII			
G-827	TET SIN			GU-27B+, 827R\$	
G-829	TET TWN			GU-29+, 829-B\$	
G-832	BEA TWN			GU-32+, 832A\$	
G837	*PND SIN	III		OS12/500=, 837\$	
G-880	TRI TWN			GU-12A+, 880\$	
G889	TRI SIN	III		889-A\$	
TG-884	TRI THY			TG1-D.1/D.3+, 884*	
G891	TRI SIN	III		891\$	
D901A	VAR SI	XI-D			
D901B	VAR SI	XI-D			
D901D	VAR SI	XI-D			
D901G	VAR SI	XI-D			
D901V	VAR SI	XI-D			
D901YE	VAR SI	XI-D			
2S920A(P)	REG SI	XIII			
2S930A(P)	REG SI	XIII			
2S950A(P)	REG SI	XIII			
2S980A(P)	REG SI	XIII			
GD1000	TRI SIN			G-29+	
GKE1000	TET SIN	III			
M-1000	TRI SIN			GM-100+	
VGVI000	POW	XII			

GROUP I, NUMERICAL					
TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
VKV1000	POW	XII			
D10D1	REC	XI			
D1001A	REC	XI			
D1002	REC	XI			
D1DD2A	REC	XI			
D1003A	REC	XI			
D1004	SIA	XI			
D1D05A	SIA	XI			
D1005B	SIA	XI			
D1006	SIA	XI			
D1007	SIA	XI			
D1008	SIA	XI			
D10D9	SIA	XI			
D1D09A	SIA	XI			
D1010	SIA	XI			
D1010A	SIA	XI			
D1011A	SIA	XI			
TG1D50	TRI THY			TG2-0.1/0.1+	
IFP1500		XX			
1502	DIO SIN	IV		5TS9S	
1504	TRI SIN	II			
1506	BEA TWN	II			
1509	BEA TWN	II			
1511	PND SIN	II			
1512	PND SIN	II			
1514	PND SIN	II			
1515	BEA SIN	II		6KH2P+, EAA91=, 6AL5\$	
1536	DIO TWN	II			
1538	BEA SIN	II			
1539	TRI SIN	II			
1540	BEA SIN	II			
1550	DWD SIN	II			
D1602A	REC	XI			
D1602B	REC	XI			
D1602V	REC	XI			
G1625	BEA SIN	III		1625\$	
GK200D	TRI SIN	III			
IFK2000		XX			
TG2050	TET THY			TG1-0.1/I.3+, 2050\$	
GK3000	TRI SIN	III			771D-55
M-3000	TRI SIN			GM1-1B+	
PI-30D0	*PND SIN			GI-8*+	
GI-3100	TRI SIN	III			
IFP4000		XX			
4671	*TRI SIN			6S1ZH+	
G-5000	TRI TWN			GS-3B+	
IFP15000		XX			
IFK20000		XX			
G40011	TRI SIN	III			
IFK80000		XX			

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _f V	I _f mA	MAXIMUM				TYPICAL							CAPACITY		f _{max} MHz	BASE
								E _b V	I _b mA	P _p W	E _b V	E _{q2} V	E _{q1} V	I _b mA	I _{q2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF		
06P2B	PND	SIN	T3F	AF	F	0.6	30	35	350U	/0.1	30	30	0	90U	/0.1	.1	1M				5CL	
06ZH6B	PND	SIN	T3F	AF	F	0.6	20	35	350U	8M	30	30	0	150U	0.1	.1	900K	5.0	3.0		5CL	
1A1P	PTG	SIN	T6		F	1.2	60	100		0.3	90	45	0	/1	.3		500K	7.0	7.0		7AT	
1A2P	PTG	SIN	T6		F	1.2	30	90		0.3	90	45	0	/1	1.1	.2		5.1	6.3		7AT	
1B1P	PND	DIO	T6		F	1.2	60	100	4	0.2	67	67	0	2	0.3	.6	1M	2.2	2.4		6AU	
1B2P	PND	DIO	T6		F	1.2	30	90	2	0.1	60	45	0	900U	0.2	.5	1M	1.8	2.1		6AU	
1E1P	TET	SIN	T5	EL	F	1.0	46				6	4	3	100U	0.4	/1	1	3.5			TE2	
1E3P	TRI	SIN			F	1.3	24				8		3	300U	/1	2		3.5				
1I2P	TRI	PND			F	1.2	60	90	2	0.2	60		0	1	.1		25K	0.7	3.0		PT1	
1I2P	PND	TRI			F	1.2	60	90	2	0.2	60	45	0	1	0.3	.2	650K	3.5	4.7		PT1	
1K1P	PND	SIN	T6		F	1.2	60	100		0.6	90	67	0	3	1.2	.9	1M	3.5	7.5		6AR	
1K2P	PND	SIN	T6		F	1.2	30	90	3	0.3	60	45	0	1	0.3	.7	1M	3.0	4.9		6AR	
1N3S	TRI	DUO	T10		F	1.2	120	150		1.0	120		5	/3	.8	11	14K				7AB	
1P2B	PND	SIN	T3F	AF	F	1.3	50	50		8M	45	45	2	1	0.5	.4	50K	3.0	6.0		5CL	
1P3B	PND	SIN	T3F	AF	F	1.3	28	50		5M	45	45	2	1	0.3	.3	50K	3.0	6.0		5CL	
1P4B	PND	SIN	T3F	AF	F	1.3	20	50	/2	4M	45	45	2	1	0.3	.3	200K	3.0	6.0		5CL	
1P5B	PND	SIN	T3B		F	1.2	120	150	10		90	90	/5	12	1.0	1.9		3.9	2.6	100		
1P22BB	PND	SIN	T3B		F	1.2	115	400	400		90	90	/5	13	1.0	1.9		6.9	4.7	100		
1P24B	PND	SIN	T3B		F	1.2	12				150	125	14	10	1.2	2.7		7.3	4.0			
1P24BB	PND	SIN	T3B		F	1.2	255	400	800	2.5	150	125	14	17	3.0	2.8		7.1	4.0	60		
1P32BB	PND	SIN	T3B		F	1.2	215	200	20	3.0	150	150	14	12	1.5	2.3		6.3	5.8	60		
1S12P	TRI	SIN			F	1.2	30	90	/3	0.2	60		1	1		.9	16	19K	0.8	0.7	300	
1TS1S	DIO	SIN	T10		F	0.7	185	15K	5				/1					2.0			TS1	
1TS7S	DIO	SIN	T10		F	1.3	200	30K	17				2								8HC	
1TS11P	DIO	SIN	T6		F	1.2	200	20K	2				300U					1.5			DS3	
1TS21P	DIO	SIN	T7		H	1.4	690	25K	40				/1								DS5	
1ZH1ZH	PND	SIN	ACO		F	1.2	50	145			135	68	3	/2	0.4	.6	800K	1.8	2.5			
1ZH2M	PND	SIN			F	1.2	30				70	70	0	1	0.6	/5						
1ZH17B	PND	SIN	T3B		F	1.2	60	90	5	0.5	60	45	0	2	0.1	1.4	25K	3.7	2.7			
1ZH18B	PND	SIN	T3B		F	1.2	21	90	3	0.3	60	45	0	1	0.2	.8	60K	3.7	2.7			
1ZH24B	PND	SIN	T3B		F	1.2	12				60	45	0	1	0.2	.8	40K	3.6	2.4			
1ZH29B	PND	SIN	T3B		F	1.2	60				60	45	0	5	0.2	2.0	35K	4.9	3.3			
1ZH30B	PND	SIN	T3		F	1.2	15	20	1		12	12	0	1		.8	13K	8.5	3.5			
1ZH36B	PND	SIN	T3B		F	1.3	75	200			150	45	1	3	0.4	1.5		4.2	3.0			
GU-2	BEA	SIN	S18		H	6.3	900	750	120	30.0	250	250			10.0						60	

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _r V	I _r mA	MAXIMUM			TYPICAL										CAPACITY		f _{max} MHz	BASE
								E _b V	I _b mA	P _p W	E _b V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF					
2A1	PTG	SIN		CN	H	2.0	160	160		0.7	120	70	4	2		150K	9.6	11.4	8A					
2D1L	DWD	SIN	F10		H	2.2	130				50			2					DW3					
2D1S	DIO	SIN	LIT		H	2.3	400	100		/0.1				100U					3G					
2D2S	DIO	SIN	F10		F	1.5	1500	200	40	5.0									3G					
2D3B	DIO	SIN	T3F		F	2.2	110				150			5			2.4							
2D3S	DIO	SIN																						
2D7S	DIO	SIN	T6		W	1.4	2			300			3											
2D9S	DIO	SIN	T10		F	3.7	550	500								1M	9.0	9.0	TE5					
2E1	TET	SIN			F	2.0	110	160	1	1.0	100	40	0	1	0.5	300K	8.3	9.0	TE6					
2E2	* TET	SIN			F	1.8	320			1.5	160	80	2	7	4.0									
2E2P	TET	DUO	T8	EL	F	2.0	55			6	4		3	45U	0.7		4.0		TE3					
2K1	PND					2.0	120	120			120	70	1	/4	1.2	750K								
2K1M	* PND	SIN			F	2.0	120				150	70	1	3	1.1	1M			5Y					
2K2M	PND	SIN	T9		F	2.0	60	160		0.5	120	70	/1	2	0.5	1M	5.4	8.1	5Y					
2KH1L	DWD	SIN			H	2.2	130				50			2			2.2							
2N1	TRI	DUO			F	2.0	240	160		1.5	120		0	3					7AB					
2P1	BEA	SIN			F	2.0	185			0.2	120	120	2	4	0.7	150K	2.8	5.7	6X					
2P1P	BEA	SIN	T5		F	1.2	120	90	15	0.8	90	90	4	10	2.2	100K	5.5	4.0	7AV					
2P2	* BEA	SIN			F	2.0	220			0.3	120	100	4	10	1.8	90K								
2P2P	BEA	SIN	T5		F	1.2	60	90	7	0.4	90	60	4	3	0.8	170K	3.7	3.8	7BA					
2P3	BEA	SIN			F	2.0	230			0.5	160	120	6	10	1.7	80K			6X					
2P5B	PND	SIN	T3B		F	1.2	180	400	800	2.3	90	90	4	18	.1		7.1	4.7	100					
2P9M	BEA	SIN	T10		F	2.0	1000	300		8.0	250	150	5	35	1.5	40K	8.5	8.5	6X					
2P19B	PND	SIN	T3B		F	2.2	70	200	15	1.0	120	90	5	8	3.5		4.5	7.0	PS6					
2P29L	PND	SIN	T9		F	2.2	120	200	20	2.0	160	120	6	10	2.0	50K	4.3	5.5	PS2					
2P29P	PND	SIN	T5		F	2.2	110	200	5	1.0	120	45	0	/2	0.4	100K	4.9	2.0	PS8					
2S1	TRI	SIN			F	2.0	110	120		2.0	80		0	/6		14	3.6	3.0						
2S2	TRI	SIN	T8		F	2.0	120	160		0.6	120			1		22	2.8	2.7	5S					
2S4S	TRI	SIN		PA	F	2.5	2500	360		15.0	250	45		62	5.2	4	800K	7.5	5.5	4D				
2S14B	TRI	SIN	T3F		F	2.2	60	250	5	0.7	90		3	/4	1.8	15	8400	2.8	2.1	TS2				
2TS2S	DIO	SIN	S12		H	2.5	1750	12K	100		4K			7					4AC					
2VD8	DIO	SIN			F	2.5	1750	12K	100															
2ZH1M	* PND	SIN			F	2.0	320			0.5	160	80	2	7	1.5	1.8			PS8					
2ZH2M	PND	SIN	T9		F	2.0	60	160		0.5	120	70	/1	2	0.5	.9	5.4	8.1	5Y					
2ZH4	* PND	SIN			F	2.0	275			1.2	200	100	7	14	2.4	1.8			PS8					

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _f V	I _f mA	MAXIMUM				TYPICAL										CAPACITY		f _{max} MHz	BASE
								E _b V	I _b mA	P _p W	E _{b2} V	E _{b1} V	I _{b2} mA	I _{b1} mA	I _{q2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF					
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	90	3	0.2	60	45	0	1	1.1	7.0			4.0	5.0		P4S			
2ZH27L	PND SIN	F10			F	2.2	57	200	5	1.0	120	45	0	2	0.5	1.2		700K	5.3	4.9		PS3			
2ZH27P	PND SIN	T5			F	2.2	57	120	5	1.0	120	45	0	1	0.5	1.0		/2M	4.5	2.0		PS4			
2ZH28L	PND SIN				F	2.2	28			1.0	120	45	0	2	0.5	1.2		/2M	5.4	4.8		PS3			
EM-3	TET SIN	T16			F	3.0	120				6	4	3	70U	0.4	0.1	1		5.0						
GU-3	BEA SIN	S18			H	12.6	450	750	120	30.0	250	250				10.0						60			
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			
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							
3S9	TRI SIN				F	2.5	1000			6.0	220		10	17		2.4	11		5.0	2.5					
3TS16S	DIO SIN				H	3.2	220	25K	80													4F			
EM4	TRI SIN	T6			F	1.3	24				8		3	300U		1.1	2		3.5			4AC			
4D5S	DIO SIN	T4			H	4.0	240				10			5											
4E1	TET SIN				F	4.0	75	200		2.0	160	80	0	3		.8	350		8.0	6.3		TE5			
4E2	TET SIN				F	4.0	150	200		2.0	160	80	0	8		1.8	400		10.5	8.0		TE5			
4E3	TET SIN				H	4.0	1000	250			160	60	1	8	1.5	3.0		200K	6.5	4.5					
4F6S	BEA SIN		PA		H	4.0	1100			10.0	250		16	34	6.0	2.5	200	80K							
4N1	TRI DUO				F	4.0	2A			6.0	120		0	30	3.2										
4P1	* PND SIN					4.0	1A				240	140	11	22	6.0	2.1									
4P1L	PND SIN	T10			F	4.2	325	250	50	7.5	200	150	20	50	10.0	6.0		30K	8.5	9.4	100	PS2			
4P10S	PND SIN					4.0	1750				315	210	7	63	1.4	8.5									
4S1	TRI SIN				F	4.0	70				120		0	8		1.3	11	8K							
4S2	TRI SIN				F	4.0	70				160		0	4		1.3	25	18K							
4S3	TRI SIN				F	4.0	155	200		3.0	160		6	15		2.1	9		3.8	2.4					
4S3S	TRI SIN				H	4.4	330			5.0	100		4	18		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	T10			F	4.0	1750			1.0	50			7								DS4			
4TS14S	DIO SIN	T11			F	4.0	1750	60	20	1.2	60			7								DS4			
4VD1	DIO SIN				F	4.0	700				350			50											
4VKH1	DIO TWN				F	4.0	2300	1K	560																
4VKH2	DIO SIN					4.0	2000	/2K	1200																
4ZH1L	PND SIN	F10			H	4.2	225	250	11	2.0	150	75	2	2	0.5	1.6		1M	4.0	4.2	200	PS1			

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	MAXIMUM			TYPICAL										CAPACITY			BASE				
						E _f V	I _f mA	E _b V	I _b mA	P _p W	E _b V	E _{q2} V	E _{q1} V	I _b mA	I _{q2} mA	S _m mmho	μ	R _p Ω	OUT		f _{max} MHz					
																			IN	pF						
4ZH1P	PND	SIN	F10		H	4.2	225	250	11	2.0	150	75	0	7												
4ZH5	TET	SIN			H	4.0	1000	250			120	40	1	/3	1.7	1.3		770K	14.0	4.5						
4ZH5S	PND	SIN		RF	H	4.0	1000				160	60		5	3.5	2.0			11.0	4.5						
5TS3S	DWD	SIN	S16		F	5.0	3000	/2K	750		500			230												DW1
5TS4M	DIO	DUO	T11		H	5.0	2000	/2K	415		400			70												DW4
5TS4S	DIO	DUO	T14		H	5.0	2000	1K	375		500			62												DW4
5TS8S	DWD	SIN	T17		H	5.0	5000	/2K	1200	30.0	500			400												DW2
5TS9S	DWD	SIN	F13		H	5.0	3000	/2K	600	12.0	500			190												DW2
5TS9SE	DWD	SIN	F13		H	5.0	3000	/2K	600	12.0	500			190												DW2
5TS12P	DIO	SIN	T7		H	5.0	770	5K	350	5.0	2K			50												DS1
5VKH2	DWD	SIN				5.0	2000	14H	375																	
5VKH3	DWD	SIN				5.0	3000	15H	675																	
6A2P	PTG	SIN	T5	CN	H	6.3	300	330	14	1.1	250	100		3	1.0	.5		100K	7.0	8.6						7CH
6A3P	GTB	SIN			H	6.3	300	150		1.2	75	75	4	/5	7.0	1.2			4.7	4.0						7DF
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	S11	CN	H	6.3	300	330	15	1.0	250	100	0	4	2.7	.5		360K	12.5	12.5						8A
6A10S	PTG	SIN	S11	CN	H	6.3	300	330	15	1.1	250	100	0	4	9.0	.4		1M	9.0	10.0						8R
6B1P	DIO	PND			H	6.3	400				150			15					9.0	4.0						
6B1P	PND	DIO			H	6.3	400				250	250	2	26	2.7	29.0			9.0	4.0						PD4
6B2P	PND	DIO	T5	RF	H	6.3	300			2.1	250	100	1	6	1.6	2.7		700K	4.2	4.1						
6B8S	PND	DWD	S12	RF	H	6.3	300	275		2.5	250	125	3	10	2.4	1.3		600K	4.0	9.0						8E
6D3D	DIO	SIN	LIT		H	6.3	770	200	150					27												DS2
6D4ZH	DIO	SIN	ACO		H	6.3	150	365	30		165			5					0.9							4G
6D6A	DIO	SIN	T2F		H	6.3	150	450	70	0.2	165			8					3.0							
6D8D	DIO	SIN	PEN		H	6.3	450	450	1800	/0.1																5G
6D10D	DIO				H	6.3	750		30		100			10					3.5							
6D13D	DIO	SIN	PEN		F	6.3	200	450			150															48H
6D14P	DIO	SIN	T7		H	6.3	1100	750	600		20			175												9CB
6D20P	DIO	SIN			H	6.3	1800	6K	600					220												9BD
6E5P	TET	SIN	T6		H	6.3	600	150	70	8.3	150	150	2	45	14.0	27.0		8K	16.0	2.3						TE1
6E6P-YE	BEA	SIN	T7		H	6.3	600	250	100	8.3	150	150		44	10.0	30.5		15K	15.0	2.7						9CV
6F1P	TRI	PND	T7		H	6.3	430	250	14	1.5	100		2	13			20	4K	3.0	5.0						9AE
6F1P	PND	TRI	T7		H	6.3	430	250	14	1.7	170	170	2	10	4.0	6.0		400K	0.5	3.4						9AE
6F3P	TRI	PND	T7		H	6.3	850	250	15	1.0	170		1	2			75		2.2	0.4						PT5
6F3P	PND	TRI	T7		H	6.3	850	275	60	8.0	170	170	11	41	14.0	.7		15K	9.3	8.5						PT5

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _f V	I _f mA	MAXIMUM				TYPICAL						CAPACITY			f _{max} MHz	BASE
								E _b V	I _b mA	P _p W	E _b V	E _{q2} V	E _{q1} V	I _b mA	I _{q2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF		
6F4P	TRI PND	T9			H	6.3	720	250	12	1.0	200			3		4.0	65	16K	4.0	0.6		PT4
6F4P	PND TRI	T9			H	6.3	720	250	40	4.5	170	170		18	7.0	11.0		100K	9.5	4.0		PT4
6F5M	TRI SIN	T10			H	6.3	300	350			250		2	1		2.0	100					5M
6F5P	TRI PND	T7			H	6.3	900			0.5	100			5		7.0	70		3.5	0.3		PT6
6F5P	PND TRI	T7			H	6.3	900			9.0	185	185		41	2.7	7.5		23K	11.7	8.8		PT6
6F6S	PND SIN			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
6G1	TRI DWD	M10			H	6.3	300	275		2.7	250		9	9		1.9	16	8500	3.6	2.8		8Q
6G2	TRI DWD	M10			H	6.3	300	330		0.9	250		2	1		1.1	100		3.2	3.0		8Q
6G2P-K	TRI DWD	T6			H	6.3	300				250		2	1		1.8	100					TT1
6G3P	TRI TRD				H	6.3	450	300		1.0	250		3	1		1.3	63	48K	2.0	1.2		TD3
6G7	TRI DWD				H	6.3	300	330		1.0	250		3	1		1.3	70	54K	5.0	3.8		9CA
6I1P	TRI PTG	T6			H	6.3	300	250	12	0.8	100		0	11		4.0	23	6K	2.6	2.0		9CA
6I1P	PTG TRI	T6			H	6.3	300	300	6	1.7	250	100	2	7	3.5	.8		1M	5.1	7.4		9CA
6I14P	TRI PTG	T6			H	6.3	300	250	12	0.8	100		2	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	11	4.0	4.8		200K	4.8	3.8		PS1
6K1L	PND SIN	T9			H	6.3	150			1.0	150	75	2	3	0.9	1.3		700K	3.8	4.2		7CM
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	ACO			H	6.3	150	275		1.8	250	100	3	7	2.7	1.8		400K	3.0	3.0		8N
6K3	PND SIN	M8			H	6.3	300	330		4.4	250	100	3	9	2.5	2.0		800K	6.0	7.0		8BK
6K4	PND SIN	M8			H	6.3	300	330		3.3	250	125	1	12	4.4	4.7		900K	8.5	7.0		7BD
6K4P	PND SIN	T6			H	6.3	300	300	20	3.0	250	100	1	11	4.4	4.4		800K	6.5	5.5		7BD
6K6A	PND SIN	T2B			H	6.3	127	150	15	1.3	120	100		9	4.0	4.5			2.8	2.5		
6K7	PND SIN	M10			H	6.3	300	330		3.0	250	100	3	7	1.7	1.6		830K	7.0	12.0		7R
6K9S	PND SIN	M10			H	6.3	300	330		4.4	250	100	3	9	2.5	2.0		800K	4.8	11.0		7R
6K11B-K	PND SIN	T3B			H	6.3	200	150	15	1.2	120	120		8	4.0	4.8			3.9	2.8		
6K13P	PND SIN	T7			H	6.3	300				200	90		12	4.5	12.5		500K	11.7	3.9		P20
6KH2P	DIO TWN	T9			H	6.3	300	450	90	0.5	150			10					3.8			6BT
6KH6B	DIO TWN				H	6.3	300	100	4													DW9
6KH6S	DIO TWN				H	6.3	300	465	50		165			9					4.0			8AN
6KH7B	DIO TWN	T3B			H	6.3	300	450	10	0.2	165			8					5.8			DW5
6L7	PTG SIN	M11		MX	H	6.3	300	330		1.5	250	100	3	5	6.6	1.1		1M	7.5	11.0		7T
6N1P	TRI TWN	T6			H	6.3	600	300	25	2.2	250		4	8		3.2	35	11K	3.1	1.8		9AJ

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _r V	I _r mA	MAXIMUM				TYPICAL							CAPACITY		f _{max} MHz	BASE		
								E _b V	I _b mA	P _p W	E _b V	E _{o2} V	E _{o1} V	I _b mA	I _{o2} mA	S _m mmho	μ	R _p Ω	IN				OUT	
																			pF	pF			pF	pF
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		4.9	37	6K	2.7	1.4		8CJ			
6N4P	TRI	TWN	T6		H	6.3	300	300	10	1.5	250	4	3		1.7	41	23K	1.5	1.6		9AJ			
6N5P	TRI	TWN	T6		H	6.3	600	200	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	60		4.5	3	460	9.5	5.0		8BD			
6N6P	TRI	TWN	T7		H	6.3	600	300	45	4.8	120	2	30		10.5	20	1800	4.4	1.9		9AJ			
6N7	TRI	TWN	M9		H	6.3	800	300		1.0	250		7		2.0	32	16K							
6N7S	TRI	DUO	T9		H	6.3	810	300		6.0	300	6	/4		1.6	35	2200	1.6	3.2		8B			
6N8S	TRI	TWN	T8		H	6.3	600	330	20	2.7	250	8	9		2.6	20	8K	2.8	3.8		8BD			
6N9S	TRI	TWN	T8		H	6.3	300	275		1.1	250	2	2		1.6	70	44K	3.0	2.8		8BD			
6N10S	TRI	DUO	T11		H	6.3	300	275		11.0	250	2	2		1.3	70	54K	1.4	0.2		8S			
6N12S	TRI	TWN	T11		H	6.3	900	300		4.2	180	7	23		6.4	17	2700				8BD			
6N13S	TRI	TWN	S16		H	6.3	2500	250	130	13.0	90	30	80		5.0	2	460	7.0	9.0		8BD			
6N14P	TRI	TWN	T5		H	6.3	350	180		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	DUO	T5		H	6.3	450	300		1.6	100	/1	9		5.6	38	6800	2.0	1.4		7BF			
6N16B	TRI	TWN	T3B		H	6.3	400	200	14	0.9	100	2	6		5.0	25	5K	2.5	1.6		TD1			
6N17B	TRI	TWN	T3B		H	6.3	400	250	10	0.9	200	1	3		3.8	75	20K	2.8	1.5		TD1			
6N18B	TRI	TWN	T3B		H	6.3	330	200	14	0.9	100		6		5.0	25	325K	2.6	1.5		TD1			
6N19P	TTR	DWD	T7		H	6.3	650	250	50	2.0	150		14		13.5		25K	3.8	1.2					
6N23P	TRI	TWN	T7		H	6.3	300	300	20	1.8	120		15		12.7	32		3.6	2.1		9AJ			
6N24P	TRI	TWN	T7		H	6.3	300				90	9	15		12.5	33		6.3	3.2		9DD			
6P1P	BEA	SIN	T7		H	6.3	500	250	70	12.0	250	12	44		4.9		50K	7.8	5.7		PS9			
6P2P	PND	SIN			H	6.3	450				120	5	35		8.0						6CC			
6P3S	BEA	SIN	T14		H	6.3	900	400	90	20.0	250	14	72		6.0		22K	11.0	8.2		7S			
6P4	PND	SIN			H	6.3	300				180	9	15		2.3									
6P6B	PND	SIN			H	6.3	700	375			250	16	34		6.5			5.5	7.0		7S			
6P6S	BEA	SIN	T9	PA	H	6.3	450	350	100	13.2	250	12	45		4.5		52K	9.5	9.5		7S			
6P7S	BEA	SIN	T16		H	6.3	900	6K	100	20.0	250	14	72		8.0		32K	11.5	6.0		5BT			
6P8S	PND	SIN	T11		H	6.3	300				180	9	15		2.4						7S			
6P9	BEA	SIN	M10	PA	H	6.3	650	330		9.0	300	150	3		6.5		80K	13.0	7.5		8Y			
6P9E	BEA	SIN	M10	PA	H	6.3	560	330		9.0	300	150	3		5.8		100K				8Y			
6P13S	BEA	SIN	T10		H	6.3	1300	450	130	14.0	200	200	19		8.0		25K	14.0	18.0		5BT			
6P14P	BEA	SIN	T6		H	6.3	760	300	66	12.0	250	250	6		5.0		20K	11.0	7.0		9CV			
6P15P	BEA	SIN	T6		H	6.3	760	330	90	12.0	300	150	2		4.5		100K	14.0	7.0		PLS			

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	MAXIMUM					TYPICAL										CAPACITY			BASE
						E _f V	I _f mA	E _b V	I _b mA	P _p W	E _b V	E _{q2} V	E _{q1} V	I _b mA	I _{q2} mA	S _m mmho	μ	R _p Ω	IN		OUT			
																			pF	pF				
6P17S	BEA	SIN			H	6.3	900	500		20.0	250	250	14	72	8.0	5.9	32K	11.5	6.0	9CV				
6P18P	BEA	SIN	T6		H	6.3	760	250	75	12.0	170	170	6	53	8.0	11.0	23K	11.5	6.0	5BT				
6P20S	BEA	SIN	T16		H	6.3	2500	700	200	23.0	175	175	30	90	6.0	8.5		24.0	10.0	80				
6P21S	BEA	SIN			F	6.3	750	600	100	18.0	600	200	16	36	5.0	4.0	20K	8.2	6.5	P14				
6P25B	PND	SIN	T3		H	6.3	450	170		4.1	110	110	8	30	5.0	4.2		7.5	8.5					
6P31S	BEA	SIN	T11		H	6.3	1300	300		10.0	100	100	9	80	8.5	12.5		18.0	8.5	PS7				
6P36S	BEA	SIN	T13		H	6.3	2000				100	100	7	120	20.0		4500	36.0	21.0	P21				
6S1P	TRI	SIN	T5	RF	H	6.3	150	275		1.8	250		7	6	2.2	26	11K	1.4	1.1	7BS				
6S1ZH	TRI	SIN	ACO		H	6.3	150	275		1.8	250		7	6	2.2	26	11K	1.0	0.6	T3S				
6S2B	TRI	SIN	M9		H	6.3	300	300		2.5	250			9	2.6	20	7K	3.4	3.6	6Q				
6S2P	TRI	SIN	T5		H	6.3	400	165		2.5	150		1	14	11.5	48	4200	5.3	4.2	7BQ				
6S2S	TRI	SIN	T9		H	6.3	300	330	20	2.7	250		8	9	2.5	20	8000	3.0	4.5	6Q				
6S3B	TRI	SIN	T3F		H	6.3	150	300	12	2.5	270			8	2.2	14	6400	2.5	3.9					
6S3P	TRI	SIN	T6		H	6.3	300	160	35	3.0	150		1	16	20.0	50	2600	6.5	1.5	TS4				
6S4B	TRI	SIN	M9		H	6.3	300			0.4	250			1	1.5	100	66K	2.0	12.0	5M				
6S4P	TRI	SIN	T6		H	6.3	300	160	35	3.0	150		1	16	20.0	50	2600	11.5	3.7	TS4				
6S4S	TRI	SIN	S16	PA	F	6.3	1000	360		15.0	250		45	60	5.4	4	840			5S				
6S5	TRI	SIN			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	/1	25	25	4.7	42	9K	2.3	0.5	3G				
6S5S	TRI	SIN	M9		H	6.3	300	350		2.7	250		6	8	2.2	20	9K	3.8	12.0	6Q				
6S6B	TRI	SIN	T3F		H	6.3	200	250	14	1.4	120		2	9	5.0	25	5K	3.3	3.5	500				
6S7B	TRI	SIN	T3F		H	6.3	200	300	7	1.4	250		2	/5	4.0	65	16K	3.3	3.4					
6S8S	TRI	SIN	T10		H	6.3	300	500		3.6	300		10	11	3.0	20	6700	2.2	0.6	TS5				
6S9D	TRI	SIN	LIT		H	6.3	570	300	25	5.5	250		1	15	10.0	100	10K	2.9	/0.1	900				
6S10D	TRI	SIN	LIT		H	6.3	920	5K	8500	9.0										3G				
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	ROC		H	6.3	770	350		9.0	300		4	21	5.2	32	6200	2.7	/0.1	36H				
6S15P	TRI	SIN	T6		H	6.3	440	160		7.5	150		40	40	4.5			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	ROC		H	6.3	400	200		2.0	175		1	10	12.0	125	10K	3.5	/0.1					
6S18S	TRI	SIN	T20		H	6.3	6600	450		60.0	120		20	550	40.0	2	60			TS6				
6S19P	TRI	SIN	T7		H	6.3	1000	350	110	11.0	100		20	95	7.5	4	500	6.5	6.0	TS7				
6S20S	TRI	SIN	T13		H	6.3	200	25K	/2	25.0	25K		8	1	.2	2K	10M			TS8				
6S21D	TRI	SIN	PEN		H	6.3	176			3.6	110		2	20	6.5	16	2500	2.5	0.1					
6S25B	TRI	SIN	T3B		H	6.3	220	250	15	1.4	120			8	5.0	29	220K	3.3	3.5					

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _r V	I _r mA	MAXIMUM				TYPICAL							CAPACITY		f _{max} MHz	BASE
								E _b V	I _b mA	P _p W	E _b V	E _{g1} V	E _{g2} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF		
6S26B-K	TRI SIN	T3B			H	6.3	200	250	15	1.4	120	2		9		5.0	25	220K	3.3	3.5		
6S27B-K	TRI SIN	T3B			H	6.3	200	300	7	1.4	250			/5		4.0	65	16K	3.3	3.4		
6S28B-V	TRI SIN	T4B			H	6.3	310	150	35	2.4	120			16		19.0	40	2500	5.8	2.2		
6S29B-V	TRI SIN	T4B			H	6.3	310	150	35	2.4	120			16		19.0	40	2500	9.5	3.9		
6S30B	TRI SIN	T3B			H	6.3	425	200	60	5.0	50			40		21.0	17	800K	7.0	1.5		
6S33S	TRI SIN				H	6.3																
6S34A-V	TRI SIN	T2B			H	6.3	127	200	15	1.4	100			8		4.6	25		2.0	2.3		
6S35A-V	TRI SIN	T2B			H	6.3	127	300	7	0.9	200			3		4.0	70	17K	2.0	3.3		
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	300	70	4.5	120			40		16.5	13	800K	6.0	4.7		
6S39S	TRI SIN	T20 VR			H	6.3	200	30K	/3							.2						
6SK7	TRI PND				H	6.3	300				100	3		3		.5	8		2.5	3.0		DW6
6SK7	PND TRI				H	6.3	300				250	100		6		1.1			3.2	12.5		
6TS4P	DWD SIN	T6			H	6.3	600	1K	300	3.0	350			37								
6TS4S	DIO SIN				H	6.3	600	1K	300					75								
6TS5S	DWD SIN	T10			H	6.3	600	1K	300		400			37								DW7
6TS10P	DIO SIN	T6			H	6.3	1050	4K	450		1K			120					5.0			9BD
6TS13P	DIO SIN	T7			H	6.3	950	/2K	900	8.0	650			120								6BY
6TS15S	DIO TWN	T13			H	6.3	1430	1K	375		350			62								8AN
6TS17S	DIO SIN	T10			H	6.3	3000	4K	1200													
6V1P	PND SIN	T6	SM		H	6.3	400			4.5	250	250		26	2.7	29.0			9.0	4.6		PS5
6VKH1	DWD SIN				H	6.3	600	1K	200					70								DW7
6YE1P	TRI SIN	T5	ID		H	6.3	300	250		0.2	250	4		5		1.2	24					ID1
6YE5S	TRI SIN	T11 ID			H	6.3	300	250			250	4		5		1.2	24					8B
6ZH1B	PND SIN	T3F			H	6.3	200	150	14	1.2	120	120		/8	3.5	4.8		200K	4.8	3.8		
6ZH1L	PND SIN	F10			H	6.3	150			2.0	150	75		2	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	3.0	5.2		300K	4.3	2.4	120	7BD
6ZH1ZH	PND SIN	ACO			H	6.3	150	250		0.5	250	100		3	0.7	1.6		1M	3.5	3.0		
6ZH2B	PND SIN	T3F	RF		H	6.3	200	150	14	0.9	120	120		2	6.0	3.2		500K	4.9	4.1		
6ZH2M	PND SIN	T6	RF		H	2.0	60			0.5	120	70	/1	2	0.5	.9			5.4	8.1		
6ZH2P	PND SIN	T6	RF		H	6.3	170	200	20	1.8	120	120		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		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	T5	UF		H	6.3	300	330		2.5	250	150	/2	7	2.0	5.0		800K	6.5	1.5		7BD
6ZH4	PND SIN	M10			H	6.3	450	330		3.3	300	150		0	2.2	9.0		900K	11.0	5.0		8N

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _f V	I _f mA	MAXIMUM			TYPICAL								CAPACITY			f _{max} MHz	BASE
								E _b V	I _b mA	P _p 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			
6ZH4E	PND	SIN	M10		H	6.3	450	330		2.5	300	150	0	9	2.2	8.5							8N
6ZH4P	PND	SIN	T5		H	6.3	300	300	20	3.5	250	150	1	11	4.3	5.7	900K	6.3	6.3				7BK
6ZH5A *	PND	SIN			H	6.3	450				250	100		10	2.5	9.0							7BK
6ZH5B	PND	SIN	T3F		H	6.3	250	150	28	2.6	120	120	2	15	6.0	10.0	100K	6.0	4.0				
6ZH5P	BEA	SIN	T6		H	6.3	450	300	20	3.6	300	150	2	10	2.0	9.0	350K	8.5	2.2				7BK
6ZH6S	PND	SIN	M10		H	6.3	500			2.5	250	100	2	10	2.5	7.5	2M	9.5	6.2				7R
6ZH7	PND	SIN	M10	RF	H	6.3	300	330		0.8	250	100	3	2	0.6	1.2	1M	7.0	12.0				7R
6ZH8	PND	SIN	S11	RF	H	6.3	300	330		2.8	250	100	3	3	0.8	1.6	2M	6.0	7.0				8N
6ZH8S	PND	SIN			H	6.3	300			100	100		3	3	0.9	1.6							8Y
6ZH9B	PND	SIN	T4F		H	6.3	310				120	120		15	17.0			7.5	3.3				
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	0.8	120	120	1	11	9.0	5.0	100K	6.5	4.5				
6ZH10P	PND	SIN	T6		H	6.3	300	250	35	3.0	200	100	1	6	5.5	9.5	100K	8.9	3.9				9EQ
6ZH11P	PND	SIN	T6		H	6.3	440	150	40	4.9	150	150	2	25	5.0	2.8	30K	14.0	3.5				9EQ
6ZH13L	PND	SIN	M12		H	6.3	300				250	250	17	10	1.4	7.7							P18
6ZH20P	DIO	BEA	T6		H	6.3	450			6				31									PD1
6ZH20P	BEA	DIO	T6		H	6.3	450			3.0	150	150	1	18	4.0	17.0	600K	8.5	2.5	245			PD1
6ZH21P	DIO	BEA	T6		H	6.3	350			12				35									PD2
6ZH21P	BEA	DIO	T6		H	6.3	350	200		3.0	150	150	1	17	4.0	17.0	60K	5.0	1.8	400			PD2
6ZH22P	DIO	BEA	T6		H	6.3	480			12				65									PD2
6ZH22P	BEA	DIO	T6		H	6.3	480	200		5.5	150	150	1	28	7.0	30.0	60K	8.5	2.4	440			PD2
6ZH23P	PND	DBA			H	6.3	440	150	40	2.4	150	150	2	12	7.5	14.0		14.0	3.5				PD3
6ZH31B-	PND	SIN	T6		H	6.3	175	200	20	1.8	120	120	2	7	2.5	5.0	340K	4.0	2.1				7BD
6ZH32P	PND	SIN	T6		H	6.3	200	300	6	1.0	250	140	2	3	1.0	1.8	3M	4.0	5.5				P17
6ZH33A	PND	SIN	T2B		H	6.3	127	150		1.3	120	100		8	4.0	4.5		3.6	3.3				
6ZH33A-	PND	SIN	T2		H	6.3	127	150	15	1.3	120	100		8	4.0	4.5	120K	3.6	3.3				
6ZH35B-	PND	SIN	T3		H	6.3	127	150	15	0.9	120	110	2	6	6.5	3.1		4.6	3.5				PS5
EM7	TRI	SIN	T3B		F	1.0	18				7		2	200U	/0.1	/2							
7P12S	PND	SIN	S12		H	7.3	850	200	60	8.0	135	135	15	31	7.0	2.8		7.7	9.5				5F
7ZH12S	PND	SIN	S12		H	7.3	425	250		1.9	250	135	3	5	1.1	1.8	500K	6.1	15.0				6F
10P12S	PND	SIN	S12		H	10.0	640	200	60	8.0	180	135	15	31	7.0	2.1	20M	7.7	9.7				5F
10ZH1L	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	7	0.5	1.6	1M	4.0	4.2	200			PS1
10ZH3L	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	7	0.5	1.6	1300	4.0	4.2	200			PS1
10ZH12S	PND	SIN	S12		H	10.0	320	250		1.9	250	135	3	6	1.0	1.8	500M	6.1	15.0				6F
12B1M	PND	DWD			H	12.5	220				25	25	1	1	0.4	1.9	7500						PD5

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	MAXIMUM			TYPICAL										CAPACITY		f _{max} MHz	BASE
						E _f V	I _f mA	E _b V	E _b V	I _b mA	P _p W	E _b V	E _{q1} V	I _b mA	I _{q2} mA	S _m mmho	μ	R _p Ω	IN pF	OUT pF		
12B2M	PND	DWD			H	12.5	150			25	25	1	0.3	.8		150K			PD6			
12G1	TRI	DWD			H	12.6	150	275		2.7	250	9		1.9	16	8500	3.6	2.8	8Q			
12G2	TRI	DWD			H	12.6	150	330		0.9	250	2	1	1.1	100	90K	3.2	3.0	8Q			
12K1M	PND	SIN			H	12.5	225				25	/2	0.5	1.4		200K			7R			
12K3	PND	SIN			H	12.6	150	330		4.4	250	100	1	9	2.5	800K	6.0	7.0	8N			
12K4	PND	SIN			H	12.6	150	330		3.3	250	125	1	11	4.4	900K	3.3	8.5	8N			
12KH3S	DWD	SIN	F10		H	12.6	73	250	20	0.1			1				0.5		1G			
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	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		
12ZH1L	PND	SIN	F10		H	12.6	75	250	11	2.0	150	75	2	7	0.5	1.6	1M	4.0	4.2	200	PS1	
12ZH1M	PND	SIN			H	12.5	225				25	25	/2	2	0.5	1.4	200K				7R	
12ZH3L	PND	SIN	F10		H	12.6	75	250	11	2.0	150	75	2	7	0.5	1.6	1300	4.0	4.2		PS1	
12ZH8	PND	SIN	F10		H	12.6	150	330		2.8	250	100	3	3	0.8	1.6	2M	6.0	7.0		8N	
13P1S	BEA	SIN		PA	H	13.0	765			6.0	110	80	2	52	7.5		15.5	10.5				
15A6S	PND	SIN			H	15.0	300				180	135		48	2.5		30K					
25P1	BEA	SIN			H	25.0	300			10.0	110	110		80	8.5							
25P1S	BEA	SIN			H	25.0	300			10.0	110	110		80	8.5							
30P1S	BEA	SIN	T11	PA	H	30.0	300	110		7.0	110	110	7	70	12.0	10.0	9K	19.0	11.0		7S	
30TS1M	DIO	SIN			H	30.0	300	300	500				250	90			2500				5AA	
30TS6S	DIO	TWN			H	30.0	300	300	500		150		60								8AN	
30VD1	DIO	SIN				25.0	300	500	500												4BQ	
30VKH1	DIO	TWN			H	30.0	300	500	500		150		60				250K				8AN	
SB-47	PND	SIN			H	4.0	150				160	120	1	5	0.7	1.6						
SB-51	PND	SIN			H	4.0	80				240	80	1	3	0.6	1.0						
SO-57	PND	SIN			H	4.0	1A				240	100	1	3	0.8	3.0						
SB-112	PND	SIN			H	4.0	80				160	80	1	2	0.6	.6						
SO-124	PND	SIN			H	4.0	1A				160	60	2	5	3.5	2.0						
UB-132	* TRI	SIN			F	4.0	150			3.0	160		6	15	2.1	9	4K					

GROUP II, RECEIVING

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	MAXIMUM			TYPICAL										CAPACITY			f _{max} MHz	BASE
						E _b V	I _b mA	P _p 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					
TO-141	TRI SIN	S17		F	2.6	1000		220		3		14			2.6					4F			
TO-142	TRI SIN	S17		F	2.6	1000		220		7		23			2.5					4F			
SO-148	PND SIN		H	4.0	1A		240	80		2		7	1.0		1.6	200K							
SB-152	TRI SIN		F	2.0	120		100		/2	/5					1.5	14	10K						
UB-152	TRI SIN		F	2.0	120		120			4		6			3.0	14	5K						
UB-153	TRI SIN		F	2.0	200		100			6		8			2.5	10	4K						
SB-154	PND SIN		F	2.0	90		160	60		1		3	0.4		1.2	290K							
UB-155	* BEA SIN		F	2.0	230		0.2	100	60	2		6	1.5		2.1	100K							
UB-178	TRI SIN		F	2.0	120		100		/1			2			1.1	33	30K						
SO-182	PND SIN		H	4.0	1100		240	100		1		7	2.0		2.5	800K							
UB-182	* TRI SIN		F	4.0	150		3.0	240		6		12			2.4	9	4K				4F		
UO186	TRI SIN	S16		F	4.0	1000		250	37			57			3.2	4	1K				5Y		
SB-190	PND SIN		F	2.0	100		160	120		1		1	0.4		1.2	420K					TE2		
191P	TET SIN	T6	EL	H	1.0	46		6	3	4		100			50.0						5S		
UB-240	TRI SIN		F	2.0	120		0.6	120				3			1.5	22	14K	2.8	2.8				
SO-242	PTG SIN	S9	CN	H	2.0	160	300								.1			7.0	8.6		7Z		
SO-243	TRI TWN		F	2.0	240		1.5	120				3			2.1	32	16K	2.8	3.4		7AB		
SO-244	PND SIN		F	2.0	185		1.5	120				4			1.8	270	150K	55.0	7.0		6X		
SO-257	PND SIN	S10		F	2.0	300		200	100	7		18			1.3						P19		
SO-258	PND SIN		F	1.8	320		2.0	160				10			2.0	160	80K	5.4	7.5		6X		
M-457	* TRI SIN		F	4.0	2100		50.0	1K		72		70			7.0	8	1K						
1504	TRI SIN	LIT		H	6.3	770	300					25			4.7	42	9K	2.3	0.5	36			
1506	BEA TWN	T19		H	12.6	1120	500					110									7BP		
1509	BEA TWN	T19		H	12.6	800	500					72									7BP		
1511	PND SIN	M10		H	6.3	450	330					10	2.2		9.0	900K					8N		
1512	PND SIN	M10		H	6.3	650	330					30			11.7	80K					8Y		
1514	PND SIN	M10		H	6.3	300	330					3			1.7	2M					8Y		
1515	BEA SIN	M10		H	6.3	450	350					12			4.3	52K		9.5	9.5				
1536	DIO TWN	T9		H	6.3	300	450					10									6BT		
1538	BEA SIN	T6		H	6.3	350	330					7	2.0		5.0	500K		6.5	2.4		6CC		
1539	TRI		T9		H	6.3	600	300													9AJ		
1540	BEA SIN	T13		H	6.3	900	400					14				7900		3.3	1.7				
1550	DWD SIN			H	6.3	600	1K					72	8.0		6.0			11.0	6.7		DW6		
							300					37											

GROUP III, POWER

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _r V	I _r mA	MAXIMUM			TYPICAL							CAPACITY			f _{max} MHz	BASE	
								E _b V	I _b mA	P _p 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			
GE-1 GK1A GM1A GMI-1B GS-1B	TET	SIN			F	11.0	2A			80.0	15H	250	100			2.5			15.5	10.0	20		
	TRI	SIN	W46		W	31.5	580A	10K	30A	2H.K	8K		8A			80.0	45		2H	1H	22		
	TRI	SIN	W22		T	10.5	195A	6K	100A	30.K	3K		8A			20.0	5						
	TRI	SIN				9.0	26A			H3.2	22K				5.0								
	TRI	SIN	A		H	12.6	3200	2K		1.K	2K		1	250		30.0						1G	
GE-2 GMI-2B GS-2B 2TM-20 2TM-100	TET	SIN			F	11.0	6300			1.H	3K	500	130			2.0			17.0	11.0	20		TE7
	TET	SIN	A70		H	25.0	7500	32K	90A	H9.0			140										
	TRI	SIN	W22		H	12.6	3200	2K		1.K	2K		1	250		30.0						1G	
	TRI	TWN				20.0	450	750		20.0					4.0	30							
	TRI	TWN				20.0	2200	1K		70.0					2.5	28							
GI-3 GK3A GMI-3 GS-3B GI-4A	TRI	SIN	T11		H	6.3	1100	2K	15A	10.0	400		15	16		2.2	16		2.6	1.1	300		48E
	TRI	SIN	W43		W	17.0	430A	12K	50A	1H.K	5K		6A			35.0	40		1H	65.0	25		
	TET	SIN	T32		H	26.0	4750	28K	4500	80.0													
	TET	SIN	A30		H	1H	865	2K		2.K	2K	500			40.0							1G	
GMI-4B GS-4 GS4D GU4 GU4A	TRI	SIN	W		T	10.0	215A	35K	220A	20.K	3K		4A			38.0						150	
	TET	SIN	A		H	6.3	14A	18K	15A	1.H													
	TRI	SIN	C8		H	6.3	610	250		15.0	200		1	30		18.0	60					600	
	TRI	SIN				22.0	105A			10.K	15K				12.0	50							
	TRI	SIN				7.0	1800		107	35.0	700		55		1.4	12						85	
GI-5B GK5A GMI-5 GU5A GU5B	TRI	SIN	W25		T	8.3	145A	6K	30A	20.K	3K		4A			30.0	50		40.0	35.0	100		
	TRI	SIN		PA	T	6.3	425	27K	250A	5.K	1K		1A			25.0						200	
	TRI	SIN	W44		T	17.0	580A	10K		2H.K								2H	40.0	25			
	TET	SIN			H	26.0	1750	20K	12A														
	TRI	SIN	W14		T	12.6	23A	5K	7A	3.K	3K		600		15.0	80		19.0	16.0	110			
GI-6B GK6A GMI-6 GS6 GI-7B	TRI	SIN	A14		T	12.6	23A	5K	7A	2.K	3K		600		15.0	80		19.0	16.0	110			
	TRI	SIN	C11		H	12.6	2100	9K	20A	H3.5	1K		150		22.0			11.4	4.8	2G			
	TRI	SIN	W30							M0.5													
	BEA	TWN	T16		H	6.3	2200	4K	8A	15.0													
	TRI	SIN				17.0	8500			5.H	3K				3.5	95		11.4	4.8	2G			
GMI-7 GS-7A GS-7B GI-8 GU8	TRI	SIN	C11		H	12.6	2100	9K	20A	H3.5	1K		150		22.0								
	TET	SIN	T40		H	26.0	6300	22K	52A	H1.2													
	TRI	SIN	W22		H	12.6	3100	/3K		2.K	2K		1	400		30.5						1G	
	TRI	SIN	A22		H	12.6	3100	/3K		H1.5	2K		1	400		30.0						1G	
	PND	SIN	T35		T	12.6	10A	8K	4A	H2.0	1K	600		200		5.5			30.0	25.0			P11
GU8	TRI	SIN				5.0	6500				3K				5.5				3.0	2.0			

GROUP III, POWER

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _f V	I _f mA	MAXIMUM					TYPICAL							CAPACITY			f _{max} MHz	BASE		
								E _b V	I _b mA	P _p W	E _b V	E _{g₁} V	E _{g₂} V	I _b mA	I _{g₂} mA	S _m mmho	μ	R _p Ω	IN			OUT				
																			pF	pF	pF	pF			pF	pF
GS9B	TRI	SIN	C11		H	12.6	1100	1K	4A	3.0H	1K		120	19.5				8.4	31.5		2G					
G10	TRI	SIN				4.1	900			20.0	400		25	.6		19	35K									
GU10A	TRI	SIN	W21		T	7.0	75A	8K	15A	10.0K	2K		3A	20.0		50		40.0	34.0		25					
GU10B	TRI	SIN	A21		T	7.0	75A	6K	15A	7.0K	2K		2500	20.0		50		40.0	34.0		25					
MO-10	TRI	SIN				16.5	52A		10A	10.0K	10K			7.0		18										
GI-11B	TRI	SIN	C8		H	12.6	815	2K	1A	8.0	400		15	10.0				11.0	2.6		3G					
GU11A	TRI	SIN	W27		W	12.7	240A	10K	20A	20.0K	5K		3A	20.0		55		55.0	45.0		25					
GU11B	TRI	SIN	C8		H	12.6	815	2K	1A	80.0	400		15	10.0				11.0	2.6		/3G					
GI-12B	TRI	SIN	C8		H	12.6	815	2K	1A	80.0	400		15	10.0				11.0	2.6		3G					
GU12A	TRI	SIN	W25		W	12.6	315A	10K	30A	20.0K	4K		3A	23.0		20		35.0	24.0		50					
G-13	TRI	SIN	T11		H	6.3	1100	2K		1.0			16	2.2		16		2.6	1.1		4BB					
GI-13	TRI	SIN	C9		H	12.6	650	800	/4A	80.0											3G					
GI-13B	TRI	SIN	C8		H	12.6	650	800		80.0											3G					
GM13	TET	SIN	T34		H	26.0	4750	28K	45A	80.0	28K															
GU13	BEA	SIN	T20		T	10.0	5A	2K		1.0H	2K	400	35	70	4.0			16.2	14.0		30	P13				
GI-14B	TRI	SIN				12.6	3400	21K		5.0H	2K		250	35.0							1G					
GU15	BEA	SIN	F16		F	4.4	680	400	85	15.0	220	200	14	7.5	4.7			10.5	12.5		60	P55				
GI-16B	TET	SIN	A60		W	8.3	115A	8K		H8.0																
GU16B	TRI	SIN	A23		W	13.5	200A	8K	15A	10.0K	5K		1500	25.0		47		55.0	42.0		25					
G-17B	TRI	SIN	C11		H	12.6	2A	9K		3.0	1K		150	22.0				11.3	4.8							
GI-17	TRI	SIN	A16		H	6.3	750	8K		1.0H	2K		10A	45.0		15		11.0	8.0		500					
GU-17	BEA	TWN	T7		H	6.3	800	400	100	12.0	200	200	16	6.0	2.8			6.5	2.7		250	PD7				
GI-18B	TRI	SIN	A50		T	12.5	190A	16K	150A	6.0K	10K		1A	25.0		45		75.0	50.0		/1					
GU-18	BEA	TWN	T13		H	6.3	1200	600	130	20.0	250	200	35	6.0	1.5			7.0	2.6		600	PD8				
GI-19B	TRI	SIN	W33		H	7.3	20A	14K	100A	1.0K	1K		500	20.0				50.0	12.0		150					
GU-19	BEA	TWN	T16		H	6.3	2000	750	280	40.0	350	250	17	8.0	4.5			10.0	3.5		500	PD8				
GK20	TRI	SIN				5.6	850		200	20.0	750		40	1.7		53										
MO20	TRI	SIN				22.0	61A		10A	20.0K	10K		75	7.0		13					3G					
GI-21B	TRI	SIN	C8		H	12.6	900	800	/4A	H1.1	600		3700	26.0		48		55.0	45.0		26					
GU21B	TRI	SIN	A30		T	8.3	150A	9K	30A	10.0K	9K			30.0												
GI-22	TRI	SIN	C8		H	6.3	640		/2A	10.0	200		30	18.0				55.0	45.0		6G					
GU22A	TRI	SIN	W25		T	8.3	150A	10K	30A	20.0K	10K		2730	27.0		48					26					
GU23A	TRI	SIN	W44		T	12.0	210A	11K		60.0K	10K		7900	49.5		28					26					
GU-23B	TRI	SIN	A		W	12.0	210A	11K		50.0K				42.0		55					26					
GI-24A	TRI	SIN	W30		W	6.3	425A	27K	250A	25.0K	4K		150A	40.0							200					

GROUP III, POWER

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _r V	I _r mA	MAXIMUM				TYPICAL					CAPACITY		f _{max} MHz	BASE	
								E _b V	I _b mA	P _p 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
M57	TRI	SIN				16.0	10A							1200		2.9	52	18K			
GM60	TRI	SIN	T32		W	17.0	8A	10K	550	6.4	1K			100	2.2	1.6					
G61	TRI	SIN				16.5	52A		11A	10.4							47				
G62	TRI	SIN				16.5	51A			10.4				10A		7.0	47	7K			
G65	TRI	SIN				5.2	1300			12.0				60		1.0	60	60K			
G68	TRI	SIN				17.0	18A							2A		5.0	180	36K			
GI-70B	TRI	SIN	C11		H	12.6	2100	9K	20A	1.4	1K			150		22.0			11.4	4.9	3G
GM-70	TRI	SIN	T21		T	20.0	3A	1K	800	1.4	600			200		6.0	7		8.0	12.0	
GM-70B	TRI	SIN	T21		T	20.0	3A	1K	800	1.4	600			200		6.0	7		8.0	12.0	1F
GK71	PND	SIN	T21		T	20.0	3A	1K		11.2	600	400		200	62.0	4.2			18.0	17.0	20 P12
GU72	PND	SIN	T25		T	20.0	3A	1K	900	11.5	750	400		150		4.2			18.0	17.0	40 P14
M74	TRI	SIN									450			150		.1	63				
GI-76B	TRI	SIN	C			12.6	2100	9K	1K					150		22.0			11.3		3G
GU80	PND	SIN	T30		T	12.6	10A	3K		4.4	2K	600	140	200		5.5			28.5	22.5	50 P6S
M80	TRI	SIN				11.0	3500		260	80.0	1K					1.4	10				
GU81	PND	SIN	T38		F	12.6	10A	3K		4.4	2K	600									
GMI-83	TET	SIN	T20		H	25.0	2000	20K	15A	65.0	15K	1K		120		.9	15	17K	50.0	5.0	TS5
G88	TRI	SIN				6.0	4A				600					22.0			60.0	12.0	
GMI-89	TET	SIN	T32		H	25.0	4000	25K	20A	1.4	25K	1K		3A		10.0	20		23.3	17.5	100
GU89A	TRI	SIN	W24		W	11.0	124A	8K	9A	5.4	1K										
GU89B	TRI	SIN	A24		W	11.0	124A	8K	9A	5.4	1K			3A		10.0	20		23.3	17.5	100
M89	TRI	SIN				11.0	6300			44.5	1K					5.0	9	1800			
GMI-90	TET	SIN	T46		H	25.0	7800	33K	40A	1.4	33K					4.0			14.	16.0	
GS90B	TRI	SIN	C12		H	12.6	1100	2K	4500	15.0	1K			175		19.5					3G
G91	TRI	SIN				11.0	6200				600			400		.9	10	5K			P10
GKE100	* TET	SIN	T20		H	11.0	2A	2K	500	1.4	15K	250	2	500	6.5	2.8	225		15.5		20 TE4
GM100	TRI	SIN	T60		W	17.0	18A	5K	1600	1.4	1K			600		6.5	18				IF
G120	TRI	SIN				16.5	52A		11A	5.4	4K			700			14				
GI-150	TRI	SIN	C8		H	12.6	815	800	75A	20.0	400			15		10.0					4G
GKE150	* TET	SIN			H	11.0	6300		420	1.4	3K	500				2.0	350				TE4
GU150	TRI	SIN				11.0	10A		710	11.5	2K					2.2	17				85
M150	TRI	SIN				11.0	6300		420	11.5	3K					1.4	11				
G256	TRI	SIN							30.0	450											500
GKE300	TET	SIN			H	17.0	10A		750	4.4	3K	500				3.9	400				
M400	TRI	SIN				17.0	18A		2300	4.4	1K					6.0	10				

GROUP III, POWER

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _f V	I _f mA	MAXIMUM			TYPICAL							CAPACITY		f _{max} MHz	BASE	
								E _b V	I _b mA	P _p 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
GU24A						3.3	/2KA	6K	25.K												273	
GI-25	TRI	SIN	C8		H	6.3	1145	/2K	12.0	250						24.0					5G	
GU25B	TRI	SIN	W30		T	8.3	150A	12K	12.K							30.0	48				26	
GU26A	TRI	SIN	W		H	30.0	17A	6K	10.K							20.0					330	
GU26B	TRI	SIN			T	12.0	210A	12K	60A	50.K												
GU27A	TET	SIN	W13		T	7.5	25A	4K	5A	2.K	2K	1K		300		6.0	16		25.0	17.0	110	
GU27B	TET	SIN	A24		T	7.5	25A	3K	5A	8.H	3K	1K		300		6.0	16		21.0	13.0	110	
GU-28A	TET	SIN	W20		T	6.3	98A	10K	98A	8.K	3K	850				16.0	9				24	
GU28B	TET	SIN	A		T	6.3	98A	10K		10.K	3K	2K				16.0					30	
M28	TRI	SIN				11.0	6400			H1.5	1K			375		2.4	11	/5K				
G29	TRI	SIN				16.0	10A		1200	4.H	10K			1200		3.2	250				100	
GU29	TET	TWN	T16		H	6.3	2250	750	250	40.0	600	200	70	150	30.0	8.0			15.0	7.0	200	7BP
GI-30	BEA	TWN	T16		H	6.3	2250	5K	9A	15.0	250			58		8.0			15.0	7.0	7BP	
GMI-30	TRI	SIN	G44		T	8.2	17A	27K	15A	3.H	2K			100		5.8			9.5	2.0		
GU30A	TRI	SIN	W		T	10.5	220A	7K	50A	60.K						38.0	28					
GU31	TET	SIN				6.3					450	200										
G32	TRI	SIN				3.2	3500			15.0	800			60		.8	18	22K		2.4		
GU32	BEA	TWN	T14		H	6.3	1600	750		15.0	250	130	10	30	5.5	3.5			7.8	3.8	200	BT7
GU33B	TET	SIN			H	6.3	5A	1K		1.H	15H	400				20.0					500	
GU34B	TET	SIN	T20		H	12.6	4A	4K		5.H	2K	600				28.0					250	
GU-35B	TET	SIN	A		W	6.3	65A	5K		K3.5	5K	800				24.0	20				250	
G36	TRI	SIN				5.6	860			20.0	600			200		1.8	60	35K				
GU-36B	TET	SIN	A		W	8.3	100A	6K		14.K	6K	1K				80.0					250	
GU-37B	TRI	SIN	A		W	3.4	110A	3K		K3.5						25.0	35				330	
GU-39A	TET	SIN	W		W	6.3	98A	10K		8.K	2K					22.0					100	
GU-39B	TET	SIN	A		W	6.3	98A	10K		6.K		2K				22.0					100	
M39	TRI	SIN				11.0	3500			30.0	1K			200		1.4	10	7K				
GU-40B	TET	SIN	A		W	6.3	33A	/3K		2.K	2K	900				16.0					250	
G46	TRI	SIN				11.0	4100		250	80.0	1K					2.0	55				250	
G47	TRI	SIN				11.5	3800		215	H1.5	3K					1.4	70					
GU50	PND	SIN	F12		H	12.6	765	1K	230	40.0	800	250	100	150	20.0	4.0			14.0	9.2	120	P9S
M50	TRI	SIN				11.0	6300		270	50.0	1K					1.4	10					
GM51A	TRI	SIN	W19		W	22.0	102A	12K	10A	15.K	5K			2A	10.0	.7					12	
M53	TRI	SIN				11.0	6300			H1.5	3K			375		1.4	11	7K				
GM57	TRI	SIN				4.0	2100				750					5.0	9		8.5	3.5		

GROUP III, POWER

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E _r		I _r mA	MAXIMUM				TYPICAL							CAPACITY		f _{max} MHz	BASE
						V	mA		E _b V	I _b mA	P _p W	E _b V	E _{g2} V	E _{g1} V	I _b mA	I _{g2} mA	S _m mmho	μ	R _p Ω	CAPACITY			
																				IN pF	OUT pF		
M401	TRI	SIN				16.0	10A		1200	4.0H	10K					2.9	52						
G410	TRI	SIN				10.0	450			10.0	400					4.0	23		2.9	2.7			
G411	PND	SIN				10.0	600	400		20.0	400	200	55	112	5.0	5.5			11.0	7.0			
G412	PND	SIN				20.0	220	750		20.0	750	250	40	57	11.0	3.0			6.5	6.0		P10	
G413	PND	SIN				20.0	500	750		40.0	750	250	55	90	15.0	4.5			11.0	10.5		P10	
G414	PND	SIN				20.0	1400	1K		1.0H	1K	250	50	65	10.0	6.0			21.0	19.0		P15	
G417	TRI	SIN				5.0	1150			20.0	400					1.0	19		1.9	1.0		TS9	
G418	PND	SIN			F	5.0	900	400		20.0	400	225	50	85	20.0	4.0			12.5	10.0			
G422	PND	SIN				20.0	3250	1K		1.0H	750	300	60	180	40.0	3.0			15.5	15.5			
G424	PND	SIN				20.0	4600	1K		2.0H	1K	400	140	300	80.0	5.0			27.0	33.0			
G425	PND	SIN				20.0	22A	4K		H7.5	4K	1K	100	350	70.0	4.0			21.0	18.0			
G430	TRI	SIN				22.0	51A	12K		10.0K							45						
G431	TRI	SIN	W16		W	22.0	102A	15K		20.0K	5K			3A		12.0	50		25.0	1.5	25		
G431A	TRI	SIN	W		W	22.0	102A	15K		12A	20.0K	5K		3A		12.0	50		25.0	1.5	25		
G433	TRI	SIN	T46		W	33.0	210A	15K		60.0K	6K			5A		32.0	45		80.0	67.0	20		
G433A	TRI	SIN				33.0	210A	15K		50A	60.0K	6K		5A		32.0	45		80.0	6.0	20		
M435	TRI	SIN				20.0	24A			1.0K	5K					6.0	9						
G441	TRI	SIN				11.0	51A			K2.5	7K			4A		7.0	44				20		
G-450	TRI	SIN	W38		W	16.0	51A	10K		10.0K	5K			4A		12.5	40				25		
G-452	TRI	SIN	W40		W	22.0	102A	15K		20.0K	5K			4A									
G-454	TRI	SIN	W38		W	22.5	71A	10K		20.0K	5K			4A		10.0	45				20		
G472	TRI	SIN				2.5	14A			1.0H		18K				2.5	140						
G484	TRI	SIN	A30		W	22.0	60A	9K		5.0K	3K			1A			9						
GK750	TRI	SIN				5.0	10A			H2.5	3K					6.6	37		5.8	2.9	40		
M800	TRI	SIN				17.0	8A		800	8.0H	10K					2.2	16						
G807	BEA	SIN	S16		H	6.3	900	750		120	30.0	600	275	90	100	6.5	6.0		12.0	7.0	60	5AW	
G811	TRI	SIN				6.3	400			50.0	1K						160		5.6	5.5	100	T1S	
G837	* PND	SIN				12.6	700		200	500	200	85			30.0	3.4			16.0	10.0			
G889	TRI	SIN				11.0	125A			5.0K	7K						21		23.3	3.0	100		
G891	TRI	SIN				11.0	60A			K3.5	8K						8						
GKE1000	TET	SIN				17.0	18A			H7.5	4K	500				3.0	150		22.0	0.2			
G1625	BEA	SIN				12.6	450			25.0	600					6.0			11.0	7.0			
GK2000	TRI	SIN				16.0	51A		1A	10.0K	8K					7.0							
GK3000	TRI	SIN				17.0	18A		1600	1.0K	10K					5.2	200						
GI-3100	TRI	SIN				6.3	1100			10.0	2K					2.2	16		2.6	1.1	300		
G40011	TRI	SIN				15.0	70A			3.0H	4K					4.0	150		5.3	1.2			

GROUP IV, RECTIFIER TUBES

TYPE NUMBER	KIND	TYPE	BULB	GAS	CATHODE	E _f V	I _f mA	MAXIMUM		TYPICAL	
								E _b V	I _b mA	E _b V	I _b mA
GG-1-0.3/8	DIO	SIN	T14	AR	H	6.3	4A	8K	1A	30	/1
GG-1-0.5/20	DIO	SIN	T21	AR	H	6.3	5A	20K	3500	30	/1
GG-1-1/22	DIO	SIN	T30	GS	H	6.3	14A	22K	1A	30	1
GG-1-2/5	DIO	SIN	T22	XE	H	6.3	6500	9K	6500	16	2
GG-1-2/16	DIO	SIN	T30	AR	H	6.3	16A	16K	7A	30	2
GR1-02/15	DIO	SIN	S16	HG	F	5.0	3300	/2K	800		235
GR-1-0.3/8.5	DIO	SIN	S21	AR	F	6.3	4A	8K	1A	30	/1
GR-1-25/15	DWD	SIN		GS	F	5.0	3A	/2K	800	500	125
GRI-0.25/1.5	DWD	SIN	S17		F	5.0	3300	16H	800		235
I-1-70/0.8	TRI	IGN	W48	HG	C			800			70A
I-1-100/1.5	TRI	IGN	W52	HG	C			15H	3HA		1HA
I-1-140/0.8	TRI	IGN	W56	HG	C			800			1HA
I-1-350/0.8	TRI	IGN	W70	HG	C			800			3HA
V1-00313	DIO	SIN	T10		F	2.5	4600	13K	3000		30
V1-02/20	DIO	SIN	T13	VC	F	2.5	3200	20K	100		20
V1-03/13	DIO	SIN	T9	VC	F	2.5	4650	13K	3A		30
GG1-0.5/5	DIO	SIN	S21	KX	F	2.5	8500	5K	1500		500
V1-05/70	DIO	SIN	T32	VC	F	5.0	32A	70K	8A		50
V1-06/30	DIO	SIN						30K			60
V1-1/2.5	DIO	SIN	W12	VC	F	15.0	12A	25H	1000		
V1-1/30	DIO	SIN	T18	VC	F	5.0	5A	30K	600		100
V1-1/40	DIO	SIN	T17	VC	F	5.0	6A	40K	750		100
V1-2/40	DIO	SIN						40K			200
V1-3/16	DIO	SIN	A27	VC	H	6.3	10A	16K	1500		300
V1-3/70	DIO	SIN						70K			300
V1-4/40	DIO	SIN	G70	VC		7.5	48A	44K	2A		450
V1-15/55	DIO	SIN	T31	VC	F	6.3	7500	55K	700		180
VG1/8500	DIO	SIN		GS	F	2.5	5500	8K	1A	6K	300
VI-1-5/20	DIO	SIN	T16	VC	H	6.3	29A	20K	5000		
VI-1-5/30	DIO	SIN	A16	VC	W	6.3	95A	30K	2000		
VI-1-18/32	DIO	SIN	A23	VC	H	17.0	3700	40K	20A		500
VI-1-27/35	DIO	SIN	A40	VC	H	9.0	145A	35K	70A		
VI-1-30/25	DIO	SIN				10.0	6A	25K	30A		30
VI-1-70/32	DIO	SIN						32K	70A		
VI-1-10050	DIO	SIN						50K	100A		
VO-1	DIO	SIN			H	4.0	3200			850	40
I-2-50/1.5	TRI	IGN	W52	HG	C			15H	1HA		50A
VI-2-27/35	DIO	SIN	W20	VC	H	9.0	145A	35K	70A		
VI-2-70/32	DIO	SIN	A21	VC	H	12.6	5300	32K	70A		70
VI-2-100/50	DIO	SIN	A30	VC	H	12.6	36A	50K	100A		

GROUP IV, RECTIFIER TUBES

TYPE NUMBER	KIND	TYPE	BULB	GAS	CATHODE	E _f V	I _f mA	MAXIMUM		TYPICAL	
								E _b V	I _b mA	E _b V	I _b mA
2V6	DIO	ARC		HG	C			400	6A		
2V12	DIO	ARC		HG	C			1K	1A		
2V20	DIO	ARC		HG	C			750	20A		
2VN12	DIO	ARC		HG	C			450	12A		
2VN20	DIO	ARC		HG	C			750	20A		
3V30	DIO	ARC		HG	C			750	30A		
3VN30	DIO	ARC		HG	C			750	30A		
3VN60	DIO	ARC		HG	C			400	60A		
3VN100	DIO	ARC		HG	C			600	100A		
I-20/1.5	TRI	IGN	W25	HG	C			15H	60A		20A
I-20/1500	*DIO	IGN	W19	HG	C			15H	1KA		20A
I-50/1.5	TRI	IGN	W35	HG	C			15H	1HA		50A
I-50/1500	*DIO	IGN	W26	HG	C			15H	2KA		50A
I-100/1.0	TRI	IGN	W70	HG	C			1K	6HA		1HA
I-100/5.0	TRI	IGN	123	HG	C			5K	3HA		1HA
I-100/1000	*DIO	IGN	W33	HG	C			1K	2KA		100A
I-100/5000	*DIO	IGN	W33	HG	C			5K	300A		100A
VU-111D	DIO	SIN	S		F	4.0	1500	12K	400	160	80
VO-125	DIO	SIN			F	4.0	700			250	60
VG-129	DIO	SIN	S20	HG	F	2.5	9A	7K	1500		500
I-150/1.0	TRI	IGN	W52	HG	C			1K	1HA		1HA
VG-161	DIO	SIN		HG	F	2.5	6A	/3K	1A	/2K	300
VG-163	DIO	SIN				5.0		15K	50A	18	
VG-176	DIO	SIN	G16		M	2.5	11A	150	9A	20	
VO-188	DWD	SIN			F	4.0	2A			500	155
VO-196	DIO	SIN			H	4.0	3A			750	250
VO-197	DWD	SIN			F	4.0	5A			250	300
I-200/1.5	TRI	IGN	W65	HG	C			15H	6HA		2HA
IVS200/2		IGN	W	HG	C			/3K	450A	16	150
VO-202	DWD	SIN			F	4.0	700			250	60
VO-230	DIO	SIN			F	4.0	700			350	50
VG-236	DIO	SIN				2.5		7K	4A	16	
VG-237	DIO	SIN	G32		F	5.0	22A	10K	10A		3500
VO-239	DIO	SIN			F	4.0	2A			850	180
VG-252	DIO	SIN				2.5		300	30A	15	
I-1-350/0.8	TRI	IGN	IV								
VO-360	DIO	SIN			F	4.0	1A			500	100
T-409	*DIO	IGN	G14	HG	C			3K	200A		
T-410	*DIO	IGN	G17	HG	C			14K	20A		
T-411	*DIO	IGN	G17	HG	C			19K	100A		
1502	DIO	SIN	F13		H	5.0	3000	/2K	1200	500	400

GROUP V, VOLTAGE REGULATOR TUBES

TYPE NUMBER	KIND	GAS		CATH MAT'L	VOLT. RANGE		CUR. RANGE		DIMEN		BASE
		KIND	PRES		MAX	MIN	MAX	MIN	DIA	LTH	
SG1P	REG	AHE			190	145	30	5	22	65	7DN
SG1P-V	REG				170	145	30	5	22	65	7DN
SG1P-YE	REG				170	143	30	5	22	65	7DN
SG2P	REG	AKN			150	104	30	5	22	65	7DN
SG2S	REG	NA	30		110	70	40	5	32	75	4AJ
SG3P	REG	AHE			170	144	40	5	22	65	
SG3S	REG	AHN	30		133	105	40	5	32	75	4AJ
SG4S	REG	AHE	30	NI	180	145	30	5	32	75	4AJ
SG5B	REG	AHE			190	142	10	5	10	36	
SG5B-V	REG				170	142	10	5	10	36	
SG7S	REG				480	390	0.1	0.003			
SG8S	REG				970	880	0.1	0.003	10		
SG9S	REG				13H	12H	0.1	0.01	10		
SG10S	REG	NK			150	86	15	4	32	40	
SG13P	REG	AHN	55	NI	180	143	30	5	19	55	7DN
SG15P	REG	AHN	54	MO	150	104	30	5	19	55	7DN
SG15P1	REG				160	103	30	5	19	60	
SG16P	REG	NA	40	MO	130	80	30	5	19	55	7DN
SG17S	REG	NEH			1350	850	60	10	38	189	
SG18S	REG	NEH			1500	950	60	10	38	189	
SG19S	REG	NEH			1650	1050	60	10	38	189	
SG20G	REG				135	85	15	4	10	45	
SG201S	REG	NK	50	MO	150	86	15	4	32	40	7DN
SG202B	REG	NA	35	MO	140	81	5	1.5	10	40	
SG203K	REG				150	79	10	1	12	20	
SG226	REG	NE			95	70	40	8	50	130	
SG227	REG	NE			95	70	60	10	65	135	
SG301S	REG	HY	16	NI	439	380	0.1	0.003	12	55	
SG302S	REG	HY	82	NI	970	880	0.1	0.003	12	55	
SG303S	REG	HY	143	NI	1350	1220	0.1	0.01	12	55	
SG304S	REG	HY			4200	3800	1	0.05	25	129	
SG305K	REG				10K	9K	1.5	0.05	33	180	
SG306K	REG				26K	24K	1.5	0.05	48	245	

GROUP VI, CURRENT REGULATOR TUBES

TYPE NUMBER	KIND	TYPE	BULB	VOLT. RANGE		CUR. RANGE		BASE
				MAX	MIN	MAX	MIN	
				V	V	mA	mA	
024B12-18	BAL	SIN	T10	18	12		255	
03B17-35	BAL	SIN	T14	35	17		300	8ES
03R65-135	BAL	SIN	T14	135	65		300	8ES
0425B55-12	BAL	SIN		12	/6	460	425	8ES
085B55-12	BAL	SIN	T9	12	/6	920	780	8ES
1B5-9	BAL	SIN	T14	9	5		1000	DS7
1B10-17	BAL	SIN	T14	17	10		1000	DS7
ST2S	BAL	TWN		17	6		2000	DS6
ST3P	BAL	SIN	T6	6	4	880	720	

GROUP VII, THYRATRONS

TYPE NUMBER	KIND	BULB		GAS	CATHODE			MAXIMUM ANODE				AVG	MAXIMUM GRID					BASE					
		SHAPE	LTH mm		DIAM mm	KIND	E _f V	I _f mA	WARM-UP MIN. S.	PIV V	E _f V		FIRING V	TUBE DROP V	PULSE I _b mA	I _b mA	BIAS V		INPUT RES kΩ	PULSE			
																				IGN. V	TIME μS	t _r nS	PD ₉ 10 ³
TG1B	TRI	T	36	10	KX	H	6.3	225	10	240	240	30	20	120	20	100	1M	100	30	10			
TG1B-V	TRI	T	36	10	KX	H	6.3	225		240			16	120	20	28							
TG1-0.02/0.5	TET	T	38	19	XE	H	6.3	150	10	500	500	30	16	120	20	15	10M	15			8T1		
TG1-0.1/0.3	TRI		97	35	AR	H	6.3	660	30	300	300		20	300	75	80	500	80		20	8T3		
TG1-0.1/1.3	TET	T	105	39	KX	H	6.3	600	10	1300	650	25	11	500	100	100	10M	100	5	60	10	8T2	
TG1-0.5/12	TRI	T	225	62	AR	H	6.3	5A	120	12K		500	27	3A	500	70	100						
TG1-1.0/0.8	TET	T	130	61	KX	H	6.3	300	60	800	420	50	15	600	1A	15	1M	15			10		
TG1-1.5/2	TRI	T	160	68	XE	H	6.3	7500		2K			16	5A	15H	15							
TG1-1.6/1.3	TRI		201	66	XE	H	5.0	6A	90	1300	1K		20	10A	/2A	100	100	100					
TG1-2.5/4	TRI	S	255	85	KX	F	5.0	12A	60	4000	3K	140	20	8A	/3A	100	100	10U				4T2	
TG1-2.5/10	TET	T	285	90	XE	H	5.0	15A		10K			16	8A	25H	50							
TG1-3.2/1.3	TRI		222	66	XE	H	5.0	8A	90	1300	1K		20	20A	3A	100	100	100					
TG1-5-3	TRI	T	350	110	KX	F	5.0	21A		3K			22	15A	5A	20							
TG1-6.4/1.3	TRI		242	66	XE	H	5.0	13A	120	1300	1K		20	40A	6A	100	100	100					
TG1-12.5/1	TRI	T	292	90	XE	H	5.0	16A		13H			20	80A	12A	20							
TG1-1B	TRI	T	40	10	XE	H	3.1	1500		500			20A										
TG1-1-3/1	TET	T	67	19	AR	H	6.3	1A	90	1000	1K		35	3A	6		40		12	300	5		
TG1-1-10/1	TRI	T	80	32	HY	H	6.3	2600	60	1000	2K		20A	50	100	15		6	150	40			
TG1-1-35/3	TRI	T	135	38	HY	H	6.3	2500	180	1500	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				/1		4			
TG1-1-90/8	TRI	T		60	HY	H	6.3	7000		8K			90A	100				/1		2			
TG1-1-130/8	TRI	T	180	64	HY	H	6.3	500		3K			1HA	150				/1		2			
TG1-1-130/10	TRI	T	205	62	HY	H	6.3	5A	240	10K	10K	150	1HA	250						4			
TG1-1-325/16	TRI	T	230	66	HY	H	6.3	8500		16K		150	3HA	200			200	/1		1			
TG1-1-400/3.5	TRI	S	280	85	HY	H	5.0	18A	180	3500	1K		4HA	300		2		20					
TG1-1-400/16	TRI	T	268	78	HY	H	6.3	10A		16K		170	4HA	500			200		/1				
TG1-1-700/25	TRI	T	450	135	HY	H	6.3	20A		20K		200	7HA	1A			700	/1		/1			
TKH-1	TRI		85	34	NE	C					150		60	100	30								
TKH1B	TRI					C					160		85	30	10		10M	85					
TR1-5/2	TRI	T	275	90	HG	H	5.0	15A		2K			15	15A	500	24							
TR1-6/15	TRI	T	350	90	HG	H	5.0	23A	900	15K			18	20A	6A	100	5						
TR1-15/15	TRI	T	490	95	HG	H	5.0	40A		15K			20	47A	15A	100							
TR1-40/15	TRI	G	700	245	HG	H	5.0	68A	3K	15K			20	1HA	40A	100	5						
TR1-85/15	TRI	T	760	270	HG	H	5.0	130A		15K			20	3HA	85A	100							
TR1-130/15	TRI	T		220	HG	H	5.0	130A		15K			3HA	85A									
TG2-0.1/0.1	TRI	T	105	40	XE	H	6.3	600	10	100	100		11	300	100	2	5M						
TG2-0.5/12	TRI	T	225	62	HY	H	6.3	7A		12K		70	/4A	500	100								
TG2.5/5	TRI				F		5.0	13A		3K			8A	2A	18								
TG1-2-260/12	TRI	T	285	90	HY	H	6.3	12A		12K				400			200		/5				
TG1-2-325/16	TRI				HY	F	6.3	8500		16K			3HA	200									
TG1-2-400/35	TRI				HY	F	5.0	18A		3500			4HA	300									
TKH-2	TRI		50	19	HE	C				350		80	100	12									
TG3-0.1/1.3	TET	T	57	19	KX	H	6.3	600		1300	650	30	11	500	100	100	10M	100	10	60	10	7EM	
TG3-2.5/10	TRI	T	290	90	KX	H	5.0	20A		10K			25	8A	/3A	30							
TKH3B	TET	T	40	10	NA	C					190	110	5	2		20M	67	15		1			
LP-4	COM					H	4.0	270		260			1		70								
TKH4B	TET		40	10	NA	C				225		115	7	3		99M	92	10					
LP-5	COM					H	4.0	370		200			100		40								
TKH-5A	TRI		25	7	NA	C				270		110	/1	/1									
MTKH90	TRI		30	12	NE	C				160		50	20			20M	85						
TG1-200	TRI	S	280	85	KX	F	5.0	15A	60	3500			20	2HA		18	200						
TG212M	TRI	T	105	35	AR	H	4.0	950	30	300	300		27	500	125	7	100						
TG-213	TRI				F	2.5	9A						1A	500	15								
TG-235	TRI				F	5.0	12A						6A	1A	16								

GROUP VIII, CATHODE RAY

TYPE NUMBER	METH. OF		DIMENSIONS		CATHODE	TYPICAL										MAXIMUM		SCREEN		DEFL ANGLE degree	BASE
						USE		HEATER		E _{Foc} V	E _{A1} kV	E _{A2} kV	E _{A3} kV	E _{A4} kV	E _{C1} V	I _k μ A	DEFL SENS mm/V	COL	PERS		
	FOCUS	DEFL	DIA	LENGTH	E	I	DEFL SENS	COL	PERS												
				cm	cm		V	mA													
LI-1	C		4	17	IC H	6.3	510	400	1.2				50					F8			
LI-3	CELM ELM		1		IC H	12.6	300	650	1.0				50	250				A4			
PIM-3	C		6		IC				18.0								V B				
PIM-4	C		13		IC				18.0								V B				
LI-6	CELM ELM		2	32	IC H	12.6	300	850	1.3				50	250				A4			
LI-7	CELM ELM		2	32	IC H	12.6	300	850	1.3				50	250				A4			
LI-13	CELM ELM		3	39	IM H	6.3	600	285	0.6	0.9			35	150				C14			
LI-14	CELM ELM		3	39	IM H			270	0.6	0.9			35	150				C14			
LI-15	CELM ELM		3	39	IM H	6.3	600	285	0.6	0.9			35	150				C14			
LI-17	CELM ELM		3	39	IM H	6.3	600	285	0.6	0.9			35	150				C14			
LI-18	CELM ELM		72	16	VI H	6.3	450	600					80	1				B9			
LI-23	ELM ELM		34	16		6.3	600	300	0.3				125								
LI-101	CELM		15		IC H	13.6	300	800	1.2				5	50							
LI-201	CELM		15		IM H	6.3	600	15H	0.4												
LI-203	ELM ELM		77	39		6.3	600	270	1.5												
LI-401	ELM ELM		34	16		6.3	450						150								
LO-247	ELS ELS		11		OS	4.0	700	112	0.8				16	160			GR MD				
LO-248	ELS ELS		11		OS	4.0	700	600	3.0				50				GR MD				
LO-249	ELS ELS		11		OS	4.0	700	600	3.0				50				GR MD				
LO-709A	ELS ELS		11		OS	2.5	21H	450	2.0				50				GR MD				
3LO1-I	ELS ELS		3	12		6.3	600	100					60	300	0.18	GR MD					
5LO38I	CELS ELS		5	19	OS H	6.3	600	300	0.5	1.0			60	1M	0.11	BL MD		11L			
6LK1B	CELM ELM		6	27	PR H	6.3	600			25.0			60	200		WH SH					
7LO1M	CELS ELS		7	19	OS H	6.3	600	235	1.4	2.8			76			PB SH		A12			
7LO55I	CELS ELS		7	19	OS H	6.3	600	180	1.1	2.0			76		0.12	BL MD		A12			
8LM3V	CELS ELS		8	21	OS H	6.3	600	400	0.7	4.0			50			WH LO		A7			
8LO29I	CELS ELS		8	26	OS H	6.3	600	350	1.1	1.5			45		0.17	GR MD		14G			
8LO29M	CELS ELS		8	26	OS H	6.3	600	350	1.1	1.5			45		0.17	PB SH		14G			
8LO30I	CELS ELS		8	27	OS H	6.3	600	400	1.1	1.5			45		0.17	GR MD		14J			
8LO30M	CELS ELS		8	27	OS H	6.3	600	400	1.1	1.5			45			PB SH		14J			
8LO39V	CELS ELS		8	27	OS H	6.3	600	400	2.0	4.0			60		0.28	WH LO		14J			
10LK2B	CELM ELM		8	32	PR H	1.5	73K		20.0				120			WH MD		G8			
10LO43I	CELS ELS		10	41	OD H	6.3	600	550	1.0	2.5			60		0.20	GR MD		A25			
13LK1B	CELM ELM		12	37	TV H	6.3	550		7.0				76			WH MD		D8			
13LK2B	CELM ELM S		8	31	TV H	6.3	500			4.0			25			WH SH		A9			
13LM4V	CELM ELM		13	29	OS H	6.3	600		0.4	12.0			50			WH LO		A8			
13LM31M	CELM ELM		11	28	OS H	6.3	600	250	6.0				70			YO LO		A8			

GROUP VIII, CATHODE RAY

TYPE NUMBER	METH. OF		DIMENSIONS		CATHODE	TYPICAL										MAXIMUM		SCREEN		DEFL ANGLE degree	BASE
						USE		HEATER		E _{Foc} V	E _{A1} kV	E _{A2} kV	E _{A3} kV	E _{A4} kV	E _{C1} V						
	FOCUS	DEFL	DIAM cm	LENGTH cm				E V	I mA												
13LM31V	CELM	ELM	13	29	OS H	6.3 600					0.2	4.0					50	WH LO	A8		
13LM56I	CELS	ELM	13	29	OS H	6.3 600					0.7	4.0					50	GR MD	A8		
13LM57	CELM	ELM	11	28	OS H	6.3 600 250						6.0					71	GR LO	A8		
13LM57D	CELS	ELM	13	29	OS H	6.3 600					0.7	4.0					50	PB LO	A8		
13LM58K	CELS	ELM	13	29	OS H	6.3 600					0.7	4.0					50	RD LO	A8		
13LO1B	ELS	ELS	13			2.5 2A 425					2.0						40	GR MD	14J		
13LO2B	ELS	ELS	13			6.3 600 500					1.8	3.0					50	GR MD	14J		
13LO3I	CELS	ELS	14	43	OS H	6.3 600 410					1.5	1.5	3.0				50	GR MD	A14		
13LO4I	CELS	ELS	14	43	OS H	6.3 600 425					1.5	1.5	5.0	8.0			50	GR MD	A14		
13LO5P	ELS	ELS	13			6.3 600 500					1.8	3.0					50	YO LO	14J		
13LO6P	ELM	ELM	13			6.3 600 250					6.0						45	YO LO	A8		
13LO36	CELS	ELS	11	42	OS H	6.3 600 690					2.0	4.0					60	YO LO	14J		
13LO36V	CELS	ELS	14	43	OS H	6.3 600 525					1.1	2.0	4.0				60	WH LO	14J		
13LO37A	CELS	ELS	14	43	OS H	6.3 600 400					1.1	1.5	3.0				50	BL SH	14J		
13LO37I	CELS	ELS	14	43	OS H	6.3 600 400					1.1	1.5	3.0				50	GR MD	14J		
13LO37M	CELS	ELS	14	43	OS H	6.3 600 400					1.1	1.5	3.0				50	PB SH	14J		
13LO48A	CELS	ELS	14	41	OD H	6.3 600 400					1.2	1.5					60	BL SH	A14		
13LO48I	CELS	ELS	14	41	OD H	6.3 600 400					1.2	1.5					60	GR MD	A14		
13LO48M	CELS	ELS	14	41	OD H	6.3 600 400					1.2	1.5					60	PB SH	A14		
13LO54A	CELS	ELS	14	43	OS H	6.3 600 300					1.1	1.5	3.5	6.0			750	BL SH	B14		
13LO54M	CELS	ELS	14	43	OS H	6.3 600 300					1.1	1.5	3.5	6.0			750	PB SH	B14		
13LO54V	CELS	ELS	14	43	OS H	6.3 600					1.1	1.5	3.5	6.0			750	WH LO	B14		
13LO101M	ELS	ELS	12	32		6.3 600 1K											125	BL SH			
13LO102M	ELS	ELS	13	61		6.3 750 1K											300	BL SH			
13LO104A			13	54	H	6.3 600 700					.4	.8	1.2	1.8			100	BL SH	D14		
18LK1B	ELM	ELM	17	35	TV H	2.5 21H					3.5						35	WH SH	D8		
18LK2B	CELM	ELM	14	42	TV H	6.3 550						15.0					30	WH SH	D8		
18LK3V	ELM	ELM	18			2.5 2A					3.5						60	GR MD			
18LK4B	CELS	ELM	17	34	TV H	6.3 600						6.0					60	WH SH	B8		
18LK5B	CELM	ELM	17	35	TV H	6.3 520						4.0					30	WH SH	B8		
18LK7B	CELM	ELM	17	35	TV H	6.3 560						4.0					35	WH SH	B8		
18LK15	CELM	ELM	17	34	TV H	6.3 550					5.0						38	WH MD	B8		
18LM35	CELM	ELM	15	34	OS H	6.3 600 250						6.0					48	YO LO			
18LM35V	CELM	ELM	18	35	OS H	6.3 600						4.0					50	WH LO	A8		
18LO1P	ELM	ELM	18	47		6.3 600 250					6.0						45	YO LO	A8		
18LO40B	CELS	ELS	18	36	TV H	6.3 600					2.0						120	WH MD	14G		
18LO47A	CELS	ELS	18	45	OD H	6.3 600					1.0	2.0	6.0				100	BL SH	A25		

GROUP VIII, CATHODE RAY

TYPE NUMBER	METH. OF		DIMENSIONS		CATHODE	TYPICAL							MAXIMUM		SCREEN		DEFL ANGLE degree	BASE
						FOCUS	DEFL	DIAM cm	LENGTH cm	USE	HEATER		E _{Foc} V	E _{A1} kV				
							E V	I mA										
18LO47V	CELS	ELS	18	45	OD H	6.3	600		1.0	2.0	6.0		100		WH	LO	A25	
19LK4B	CELM	ELM	17		TV H	6.3	600		6.0				60					
20LM1YE	ELS	ELM	20	46		6.3	12H	750					60	300	GR	LO	D8	
23LK1B	CELM	ELM	19	38	TV H	6.3	550		8.0				50		WH	MD	D8	
23LK2B	CELM	ELM	22	47	TV H	6.3	550			10.0			18	100	WH	SH	D8	
23LK7B	ELM	ELM	518	40	TV H	6.3	520		8.0						WH	SH	D8	
23LK8B	ELM	ELM	516	49	TV H	6.3	550		15.0					100	WH	SH	D8	
23LM34	CELM	ELM	19	43	OS H	6.3	600	250		6.0			48		YO	LO		
23LM34V	CELM	ELM	23	46	OS H	6.3	600			4.0			50		WH	LO	A8	
23LO51A	CELS	ELS	23	57	OS H	6.3	600		6.6	20.0			200		0.03	BL	SH	
30LK1B	C		30	45	TV H	6.3	600		10.0				75				A20	
31LK1B	CELM	ELM	31		TV H	6.3	550		10.0				52	150	WH	MD	D8	
31LK2B	CELM	ELM	30	47	TV H	6.3	600			10.0			30	150	WH	SH	B8	
31LM32	CELM	ELM	25	51	OS H	6.3	600	250	6.0				48		YO	LO		
31LM32V	CELM	ELM	31	54	OS H	6.3	600		4.0				50		WH	LO	A8	
31LO1P	ELM	ELM	31					250	1.8				50		GR	MD	A8.	
31LO33	CELS	ELS	25	56	OS H	6.3	600	1K	4.3	5.5			150		YO	LO	14J	
31LO33V	CELS	ELS	31	57	OS H	6.3	600		1.1	4.3	5.5		140		WH	LO		
35LK2B	CELS	ELM	35	46	TV H	6.3	600	300	0.5	12.0			60	150	WH	SH	C8	
40LK1B	CELM	ELM	40	49	TV H	6.3	550		12.0				70	100	WH	MD	B8	
42LM2YE	ELS	ELM	42	59		6.3	12H	4K					60	300	GR	LO		
43LK2B	CELS	ELM	545	50	TV H	6.3	600		0.3	0.3	14.0		25		WH	SH	70B12	
43LK3B	CELS	ELM	543	51	TV H	6.3	600		0.5	14.0			60	150	WH	SH	B12	
43LK6B	CELS	ELM	545	30	TV H	6.3	600		0.3	0.5	14.0		25		WH	SH	110A7	
43LK7B	CELS	ELM	545	50	TV H	6.3	600		0.3	0.3	14.0		25		WH	SH	68B12	
43LK8B	CELS	ELM	545	50	TV H	6.3	600		0.3	0.5	14.0		25		WH	SH	B7	
43LK9B	ELS	ELM	537	330	TV H	6.3	600	425	0.3	1.0	14.0		90	30	WH	SH	110A7	
45LM1B	ELM	ELM	40	56	H	6.3	600								WH	SH	A8	
47LK1B	ELS	ELM	47	31	TV H	6.3	300		16.0						WH	SH	110C8	
53LK2B	CELS	ELM	553	61	TV H	6.3	600		0.5	16.0			60	150	WH	SH	B12	
53LK3B	C		550	58	TV H	6.3	600	300	0.4	16.0			140				B7	
53LK4TS	ELS	ELM	547	65	H	6.3	72A		25.0						3C			
53LK5B	CELS	ELM	545	38	TV H	6.3	600		0.3	0.5	16.0		25	100	WH	SH	110B7	
53LK6B	ELS	ELM	548	385	TV H	6.3	600	425	0.3	0.5	16.0		90	30	WH	SH	110A7	
59LK1B	ELS	ELM	59	37	TV H	6.3	300		16.0						WH	SH	110C8	

GROUP IX, MICROWAVE TUBES

TYPE NUMBER	KIND	FREQ		DUTY CYCL	OPERATION	CATHODE		MAXIMUM										COUPLING	DIMEN		WT. g		
		MIN	MAX			E _f	I _f	E _b	I _b	P _o	COL.	E _g	HELIX	GAIN	NF	VSWR	BAND WIDTH		MAG. FIELD GAUSS	LTH		DIAM	
																							Gc
2J55	MAG		13.3	1 P				12K	12A	53K									3350				
3J21	MAG		24.5	P				15K	15	60K													
4J26-30	MAG		1.2	1 P				27K	46A	700K									1400				
4J45	MAG		2.8	1 P				23K	45	650K													
4J50	MAG		12.1	1 P				22K	27A	28K									6900				
UV-5	TWT	3.4	4.4			3.0	900	180	1	100U	600	12	500	18	10	1.6			700	WG	388	33	83
UV-6	TWT	3.4	4.4			4.0	950	500	5	30	13H	30	11H	30		1.6			700	WG	388	33	95
UV-7	TWT	3.4	4.4			6.3	850		35	3000	16H	50	14H	26		1.6			800	WG	397	33	100
K-29	KLY	8.8	10.3			6.3	600	450	32	15	320												
K-30	KLY	7.8	9.0			6.3	600	350	37	15	320												
K-31	KLY	6.9	8.4			6.3	600	300	40	20	320												
K-32	KLY	5.5	7.9			6.3	600	300	50	20	320												
K-33	KLY		16.3			6.3	600	600	35	10	400												
K-34	KLY		12.1			6.3	600	550	35	10	400												
K-35	KLY		12.2			6.3	600	500	35	10	350												
K-41	KLY	1.3	2.5			6.3	850	350	60	80	250												
K-42	KLY	0.9	1.5			6.3	850	250	60	65	250												
K-48	KLY	3.4	4.4			6.3	850	400	70	100	180												
410R	KLY																						
700AD	MAG		0.6	20 P				12K	10A	40K									650				
706AU	MAG		3.1	P				22K	20	200K													
707A/B	KLY	2.4	3.5	C	6.3			250		100	275								20				
714AU	MAG		3.3	1 P				19K	20A	165K									2250				
720AYE	MAG		2.8	/1 P				27K	65A	1M									2900				
723A/B	KLY	8.5	9.6	C	6.3			300	20	30	300								70				
725A	MAG		9.3	P				12K	10	44K													
726	KLY	2.9	3.2	C	6.3			300	20	170	300								30				

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM			MINIMUM		TYP		MAXIMUM				
		V _{CB0} V	V _{EB0} V	V _{CEO} V	I _C mA	I _E mA	I _{CB0} μA	P _C mA	K _θ mW/°C	T _J °C	COMMON	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻⁵	h ₂₂ μmho	h ₂₁	f _α MHz	NF dB	K _M dB	C _{ob} pF	r _b r _{1C} Ω	FIG		
P1A	GAP	20			5	5	30	50	10	70	E	10	1			3.3	0.90	0.1		30					1
P1B	GAP	20			5	5	30	50	10	70	E	10	1			2.0	0.93	0.1	35				400		1
P1D	GAP	20			5	5	15	50	10	70	E	10	1			2.0	0.94	0.1	18				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				400		1
P1YE	GAP	20			5	5	30	50	10	70	E	10	1			2.0	0.95	0.5	35			60	1K		1
P1ZH	GAP	20			5	5	20	50	10	70	E	10	1			3.3	0.95	0.1	35			45	1K		1
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
P2A	GAP	100			10	10	200	250	10	60	C	50	5			0.90	0.90			17					1
P2B	GAP	50			25	25	200	250	10	60	C	25	10			0.90	0.90			17					1
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
P3A	GAP	50		50	150		500	S 3W	100	50	C	10	150				2.0	0.1		17					2
P3B	GAP	50		50	250		250	S 3W	100	50	C	10	150				2.0	0.1		20					2
P3V	GAP	50		50	450		250	S 3W	100	50	C	10	150				2.0	0.1		25					2
S3A	GPP	40			10	10		100			E	20	/1				1.0	0.5	19						8
S3B	GPP	40			6	10		50			E	20	/1				1.2	0.5	22						8
S3D	GPP	40			6	10		50			E	20	/1				1.2	5.0	22						8
S3G	GPP	40			6	10		50			E	20	/1				1.2	1.5	22						8
S3V	GPP	40			10	10		100			E	20	/1				1.2	1.5	19						8
S3YE	GPP	40			6	10		50			E	20	/1				1.2	10.0	15						8
P4	G	55			2A			10W																	
P4A	GAP	60	50	30	5A		500	30W	500	90	C	5A	5A		5.0	5.0	0.1		20						22
P4B	GAP	70	60	30	5A		400	25W	500	90	C	5A	5A		15	15	0.1		23						22
P4D	GAP	60	50	30	5A		400	25W	500	90	C	5A	5A		50	30	0.1		20						22
P4G	GAP	60	50	30	5A		400	25W	500	90	C	5A	5A		15	15	0.1		27						22
P4L	GAP	50			3A		500	25W	500	50	C	26	2A		20	20	0.1		30						22

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM				MINIMUM		TYP		MIN		MAXIMUM		FIG
		V _{CB0} V	V _{EB0} V	V _{CEO} V	I _C mA	I _E mA	I _{CB0} μA	P _C mW	K _θ mW/°C	T _J °C	COMMON	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻⁵	h ₂₂ μmho	h ₂₁	f _α MHz	NF dB	K _M dB	C _{ob} pF	r _b Ω	r _{ic} Ω			
P4V	GAP	40	35	20	5A	400	25W	500	90	C		5A				10	10	0.1		23					22	
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								8	
S4G	GPP	20			6	10	50			E		10	/1				1.5	10.0							8	
S4V	GPP	20			6	10	50			E		10	/1				1.5	5.0							8	
P5A	GAP	10	20	10	10	10	30	25	1	75	E	2	1	36	500	3.3	0.93	0.3	12			80			4	
P5B	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	0.95	0.3	12			80			4	
P5D	GAP	10	20	10	10	10	30	25	1	75	E	2	1	36	500	2.6	0.95	0.3	7			80			4	
P5G	GAP	10	20	10	10	10	30	25	1	75	E	2	1	36	500	2.6	0.97	0.3	10			80			4	
P5V	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	0.97	0.3	15			80			4	
P5YE	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	0.96	0.3	18			80			4	
P6A	GAP	30	30	10	10	10	30	150	2	100	E	5	1	32	500	3.3	0.90	0.1	30			50			10	
P6B	GAP	30	30	15	10	10	15	150	2	100	E	5	1	32	60	2.0	0.90	0.5	30			50			10	
P6D	GAP	30	30	15	10	10	15	150	2	100	E	5	1	32	60	2.0	0.90	0.5	12			50			10	
P6G	GAP	30	30	10	10	10	15	150	2	100	E	5	1	32	60	3.3	0.97	1.0	30			50			10	
P6V	GAP	30	30	15	10	10	15	150	2	100	E	5	1	32	60	2.0	0.94	0.5	30			50			10	
P7	GAP	13			45		30	45		50	E	2	1				0.97								4	
P8	GAN	20	20	15	10	10	30	150	2	100	E	5	1	34	500	3.3	10	0.1	15			65			10	
P8A	GAN																								10	
P9	GAN	20	20	15	10	10	15	150	2	100	E	5	1	32	60	2.0	10	0.5	12			60			10	
P9A	GAN	20	20	15	10	10	15	150	2	100	E	5	1	32	60	2.5	15	1.0	5			60			10	
P10	GAN	20	20	15	10	10	15	150	2	100	E	5	1	32	60	2.5	15	1.0	5			60			10	
P10A	GAP	30	30	30	20		100	150	5	85	E	5	1			2.5	25	1.0				60			10	
P10B	GAP	30	30	30	20		100	150	5	85	E	5	1			2.5	25	1.0				60			10	
P11	GAN	20	20	15	10	10	15	150	2	100	E	5	1	32	60	2.5	25	1.6	5			60			10	
P11A	GAP	15	15	15	20		30	150	5	85	E	5	1			2.5	45	2.0				60			10	
P12	GAP			6	5	5	6	30	2	85	E	6	1			2.0	0.95	5.0				20			17	
P12A	GAP	6		6	5	5	6	30	1	70	E	6	1			.2	20	0.5				20			17	
P13	GAP	30	15	20	10	10	15	150	2	100	E	5	1			500	2.5	12	0.5	33		50			10	
P13A	GAP	30			10	10	15	150	2	100	E	5	1			60	2.0	0.97	0.5	33		50			10	
P13B	GAP	30	15	20	10	10	10	150	2	100	E	5	1			60	2.5	20	0.5	12		50			10	
P14	GAP	30	15	20	10	10	15	150	2	100	E	5	1			500	2.5	20	1.0	33		50			10	
P14A	GAP	30	30	30	20	20	10	150	5	85	E	5	1	32	700	2.5	20	1.0				50			10	
P14B	GAP	30	30	30	20	20	10	150	5	85	E	5	1	32	500	2.5	30	1.0				50			10	
P15	GAP	30	15	20	10	10	15	150	2	100	E	5	1			500	2.5	30	1.6	33		50			10	

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM			MINIMUM		TYP		MIN		MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_j °C	COMMON	V_C V	I	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α MHz	NF	K_M dB	C_{ob} pF	r_b Ω	r_{11} Ω	r_{12} Ω	r_{22} Ω
P15A	GAP	30	15	20	20	20	10	150	5	85	E	5	1	32	500	2.5	50	2.0			50	150	10		10
P16	GAP	30	15	15	50	50	25	150	2	100							20	1.0			50	10			10
P16A	GAP	30	15	15	50	50	25	150	2	100							30	1.0			50	10			10
P16B	GAP	30	15	15	50	50	25	150	2	100							45	1.0			50	10			10
P17	G P	60		400			200	300									9	0.2							
P17A	G P	60		400			200	300									16	0.2							
P17B	G P	60		400			200	300									32	0.2							
P18	G P	100		400			200	300									9	0.2							
P18A	G P	100		400			200	300									16	0.2							
P18B	G P	100		400			200	300									32	0.2							
P19	GAP	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	0.95	5.0		5	20	150	10		10
P20	GAP	50			1	1	50	150			C		25			50	1.0								10
P21	GAP	50			1	1	50	150			C		25			20	1.0								10
P21A	GAP	70			1	1	50	150			C		25			50	1.0								10
P22	GAP	40					25	100		85						3.3		1.0							10
P23	GAP	35					25	100		85						3.3		2.0							10
P25	GAP	60		400			600	200		70	E	20	2			3.5	10	0.2							10
P25A	GAP	60		400			600	200		5						3.5	20	0.2		20					10
P25B	GAP	60		400			600	200		5						3.5	30	0.5		20					10
P26	GAP	100		400			600	200		70	E	35	2			3.5	10	0.2							10
P26A	GAP	100		400			600	200		5						3.5	20	0.2		20					10
P26B	GAP	100		400			600	200		5						3.5	30	0.5		20					10
P27	GAP	5		5	6		3	30	1	70						2.0	20	1.0	10						17
P27A	GAP	5		5	6		3	30	1	70						1.0	20	1.0	5						17
P28	GAP	5		5	6		3	30	1	70						1.0	20	5.0	5						17
P29	GAP	12		10	100		4	30	1	70						25									17
P29A	GAP	12		10	100		4	30	1	70						45									17
P30	GAP	12		10	100		4	30	1	70						80									17
P42A	GAP	15		150				200	5	70						30		1.0							17
P42B	GAP	15		150				200	5	70						45		1.0							17
P101	SAN	10		10	20	20	70N	150	2	120	E	5	1	100	200	3.3	90	0.2	15						10
P101A	SAN	10	10	10	20	20	70N	150	2	120	E	5	1	100	200	3.3	10	0.2	18						10
P101B	SAN	20	20	20	20	20	30	150	2	150	E	5	1	100	300	2.0	15	0.5	15						10
P102	SAN	10	10	10	20	20	70N	150	2	120	E	5	1	100	500	2.0	18	0.5	15						10
P103	SAN	10	10	10	20	20	70N	150	2	120	E	5	1	100	500	3.3	30	1.0	15						10

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM				MINIMUM		TYP		MAXIMUM		
		V _{CE0} V	V _{EB0} V	V _{CE0} V	I _C mA	I _E mA	I _{CEO} μA	P _C mW	T _J °C	CONV	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻⁵	h ₂₂ μmho	h ₂₁	f _α MHz	α _f MAX	NF dB	K _u dB	C _{ob} pF	r _b Ω	r _{ic} Ω	f _{ic} MHz
P104	SAP	100	45	60	20	20	500N	150	2	150	E	5	1	140	3.3	0.90	0.1					80	1K	10
P105	SAP	45	45	30	20	20	500N	150	2	150	E	5	1	140	3.3	0.90	0.1					80	1K	10
P106	SAP	45	45	15	30	30	500N	150	2	150	E	5	1	80	2.0	0.93	0.5					80	/2K	10
P107	SAN	120					1	150								15	3.0							
GT108A	GAP	15					10	75	1	55	E	5	1		3.3	20	0.5					30	/3K	11
GT108B	GAP	15					10	75	1	55	E	5	1		3.3	35	1.0					30	/3K	11
GT108G	GAP	15					10	75	1	55	E	5	1		3.3	H1.1	1.0					30	/3K	11
GT108V	GAP	15					10	75	1	55	E	5	1		3.3	60	1.0					30	/3K	11
GT109A	GAP	15		6	20		5	30	/1	55	E	5	1		3.3	20	1.0					30		29
GT109B	GAP	15		6	20		5	30	/1	55	E	5	1		3.3	35	1.0					30		29
GT109G	GAP	15		6	20		5	30	/1	55	E	5	1		3.3	H1.1	1.0					30		29
GT109V	GAP	15		6	20		5	30	/1	55	E	5	1		3.3	60	1.0					30		29
P135	GAP	30				10		150		100				60	2.0	0.92	0.5	12				50		10
P201	GAP	30	35	22	2A		400	1W	300	100						20	0.1							25
P201A	GAP	30	35	22	2A		400	1W	300	100						40	0.2							25
P202	GAP	55	35	30	2A		400	1W	300	100						20	0.2							25
P203	GAP	60	45	30	2A		400	1W	300	100						20	0.2							25
P207	GAP	45	20	40	25A		16M	4W	70	85					15	15	0.2							24
P207A	GAP	45	20	40	25A		16M	4W	70	85					15	15	0.2							24
P208	GAP	65	30	60	25A		25M	4W	70	85					15	15	0.2							24
P208A	GAP	65	30	60	25A		25M	4W		85					15	15	0.2							24
P209	P	45		=40	12A		8M	1500	43	85					15	15	0.2							23
P209A	P	45		=40	12A		8M	1500	43	85					15	15	0.2							23
P210	P	65		=60	12A		12M	1500	43	85					15	15	0.2							23
P210A	P	65		=60	12A		12M	1500	43	85					15	15	0.2							23
P211	GAP	50		500			50	750		85					50	50								26
P212	GAP	70		500			50	750		85					20	20								26
P212A	GAP	70		500			50	750		85					50	50								26
P213	P	45		30	5A	1H	80	115H	314						20	20	0.2							
P214	P	60		45	5A	1H	300	10W	200						20	20	0.2							
P214A	P	60		45	5A	1H	300	10W	200						50	50	0.2							
P214B	P	60		45	5A	1H	150	115H	314						20	20	10.2							
P215	P	80		60	5A	1H	300	10W	200						20	20	0.2							
P216	N	40		30	75H	1H	500	30W	500						18	18	10.2							
P216A	N	40		30	75H	1H	500	30W	500						20	20	0.1							

GROUP I, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM			MINIMUM		TYP		MIN		MAXIMUM		FIG
		V _{CBO} V	V _{EBO} V	V _{CEO} V	I _C mA	I _E mA	I _{CBO} μA	P _C mA	K _θ mW/°C	T _j °C	CONNECTION	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻⁵	h ₂₂ μmho	h ₂₁	f _a * f _{MAX} MHz	NF dB	K _M	C _{ob} pF	r _b Ω	r _{ic} Ω		
P217	N	60		45	75H	1H	500	30W	500		C	10	100				15	0.1							
P217A	N	60		45	75H	1H	500	30W	500		C	10	100				20	0.1							
P217B	N	60		45	75H	1H	500	20W	500		C	10	100				20	0.1							
2T301	SDN	20	3	20		10	100	150	2 120			10				3.0	20	30				10			27
2T301A	SDN	20	3	20		10	100	150	2 120			10				3.0	40	30				10			27
2T301B	SDN	30	3	30		10	100	150	2 120			10				3.0	10	30				10			27
2T301D	SDN	20	3	30		10	100	150	2 120			10				3.0	20	60				10			27
2T301G	SDN	20	3	30		10	100	150	2 120			10				3.0	10	60				10			27
2T301V	SDN	30	3	30		10	100	150	2 120			10				3.0	20	30				10			27
2T301YE	SDN	20	3	20		10	100	150	2 120			10				3.0	40	60				10			27
2T301ZH	SDN	20	3	20		10	100	150	2 120			10				3.0	80	60				10			27
P302	SAP			35	400		100	8W	70 150									0.2							20
P303	SAP			60	400		100	10W	70 150									0.1							20
P303A	SAP			60	400		100	10W	70 150									0.1							20
1T303A	GDN	12	2	10	15		8	100	3		E	5	5				15					10	*1K	13	
1T303B	GDN	12	2	10	15		8	100	3		E	5	5				30					10	*1K	13	
1T303D	GDN	12	2	10	15		8	100	3		E	5	5				30					10	*1K	13	
1T303G	GDN	12	2	10	15		8	100	3		E	5	5				15					10	*1K	13	
1T303V	GDN	12	2	10	15		8	100	3		E	5	5				60					10	*1K	13	
1T303YE	GDN	12	2	10	15		8	100	3		E	5	5				60					10	*1K	13	
P304	SAP			80	400		100	10W	70 150									/0.1							20
P306	N	60		60	400	1H	100	10W			C	10	100				7	/0.1							
P306A	N	80		80	400	50	100	10W			C	20	50				5	/0.1							
P307	N	80		80	30	4	3	250			C	20	4				15	3.0							
P308	N	120		120	15	4	3	250			C	20	4				15	3.0							
1T308A	GDP	30		12	50		5	150		85	E	1	10			30	25	90				8	*4H	12	
1T308B	GDP	30		12	50		5	150		85	E	1	10			50	50	120				8	*4H	12	
1T308G	GDP	30		12	50		5	150		85	E	1	10			80	1H	120				8	*5H	12	
1T308V	GDP	30		12	50		5	150		85	E	1	10			80	80	120				8	*5H	12	
GT309A	GDP			10	10		5	50	1 70	E	5	1				5.0	20					10	*5H	9	
GT309B	GDP			10	10		5	50	1 70	E	5	1				5.0	60					10	*5H	9	
GT309D	GDP			10	10		5	50	1 70	E	5	1				5.0	20					10	*1K	9	
GT309G	GDP			10	10		5	50	1 70	E	5	1				5.0	60					10	*1K	9	
GT309V	GDP			10	10		5	50	1 70	E	5	1				5.0	20					10	*1K	9	
GT309YE	GDP			10	10		5	50	1 70	E	5	1				5.0	60					10	*1K	9	

GROUP I, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM				MINIMUM		TYP		MIN		MAXIMUM		FIG
		V _{CBO} V	V _{EBO} V	V _{CEO} V	I _C mA	I _E mA	I _{CBO} μA	P _C mW	K _θ mW/°C	T _J °C	COMMON	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻³	h ₂₂ μmho	h ₂₁	f _α MHz	NF dB	K _M dB	C _{ob} pF	f _{ic} MHz	f _{ic} MHz	f _{ic} MHz	f _{ic} MHz	
GT310A	GDP	12		10	10		5	20	/1	75				38			20					4		29		
GT310B	GDP	12		10	10		5	20	/1	75				38			60					4		29		
GT310D	GDP	12		10	10		5	20	/1	75				38			20					5		29		
GT310G	GDP	12		10	10		5	20	/1	75				38			60					5		29		
GT310V	GDP	12		10	10		5	20	/1	75				38			20					5		29		
GT310YE	GDP	12		10	10		5	20	/1	75				38			60					5		29		
P314A	GAP	10		1			10	100		85							0.94	30				15				
P314B	GAP	10		1			5	100		85							0.94	60				10				
P314C	GAP	10		1			5	100		85							0.94	120				6				
P322	GDP	8			15		2	50		85						5.0	0.97	400				4				
P401	GDP	20	20	10	10		10	100	2	85	E	5	5			5.0	0.94	30				15		10		
P402	GDP	20	20	10	10		5	100	2	85	E	5	5			5.0	0.94	60				10		10		
P403	GDP	20	20	10	10		5	100	2	85	E	5	5			5.0	0.94	*12 H				10		10		
P403A	GDP	20	20	10	10		5	100	2	85	E	5	5			5.0	0.97	*12 H				10		10		
1T403A	GAP	45	20	30	12H		50		70	85							20							28		
1T403B	GAP	45	20	30	12H		50		70	85							50							28		
1T403D	GAP	60	30	45	12H		50		70	85							50							28		
1T403G	GAP	60	20	45	12H		50		70	85							50							28		
1T403I	GAP	80	20	60	12H		70		70	85							50							28		
1T403V	GAP	60	20	45	12H		50		80	85							20							28		
1T403YE	GAP	60	20	45	12H		50		80	85							30							28		
1T403ZH	GAP	80	20	60	12H		70		70	85							20							28		
P404	GSP	5	5	5	5		5	10	/1	85	E	3	/1			7.0	0.93	10				5		5		
P404A	GSP	5	5	5	5		2	10	/1	85	E	3	/1			7.0	0.93	10				5		5		
P405	GSP	5	5	5	5		5	10	/1	85	E	3	/1			7.0	0.95	30				5		5		
P405A	GSP	5	5	5	5		2	10	/1	85	E	3	/1			7.0	0.95	30				5		5		
P406	GAP		6	6	5	5	6	30	2	85		6	1			2.0	0.95	10				20	150	17		
P407	GAP		6	6	5	5	6	30	2	85		6	1			2.0	0.95	20				20	150	17		
P408	G P	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	0.95	10	5			20	150	3		
P409	G P	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	0.95	20	5			20	150	3		
P410	GDP	6	6	20	20		2	100	2	85	E	5	5	10	120	1.0	0.97	*H2.0				4		6		
P410A	GDP	6	6	20	20		2	100	2	85	E	5	5	10	120	1.0	0.99	*H4.0				4		6		
P411	GDP	6	6	20	20		2	100	2	85	E	5	5	10	120	1.0	0.97	400				4		6		
P411A	GDP	6	6	20	20		2	100	2	85	E	5	5	10	120	1.0	0.99	400				4		6		
P414	GDP	10	1	10	10		5	100	2	75						5.0	0.99	*60				10	*1K	10		

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM										TYPICAL			MAXIMUM			MINIMUM		TYP MIN		MAXIMUM		FIG	
		V _{CB0} V	V _{EB0} V	V _{CEO} V	I _C mA	I _E mA	I _{CB0} μA	P _C mA	K _θ mW/°C	T _J °C	COMMON	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻⁵	h ₂₂ μmho	h ₂₁	f _α MHz	NF dB	K _M dB	C _{ob} pF	r _b Ω	r _{ic} Ω		
P414A	GDP	10	1	10	10		5	100	2	75						5.0	60	*60				10	*1K	10	
P414B	GDP	10	1	10	10		5	100	2	75						5.0	1H	*60				10	*1K	10	
P415	GDP	10	1	10	10		5	100	2	75						5.0	25	*H1.2				10	*5H	10	
P415A	GDP	10	1	10	10		5	100	2	75						5.0	60	*H1.2				10	*5H	10	
P415B	GDP	10	1	10	10		5	100	2	75						5.0	1H	*H1.2				10	*5H	10	
P416	GDP		3	15	15	50	3	100	2	70	C	5	5			5.0	25	*H1.2				8			
P416A	GDP		3	15	15		3	100	2	70	C	5	5			5.0	50	H1.2				8			
P416B	GDP		3	15	15		3	100	2	70	C	5	5			5.0	1H					8			
P416V	P							2	100	2	C						H1.2								
P417	P					5	3	50	2		C	5	5				24	200							
P417A	P					5	3	50	2		C	5	5				65	200							
P418	P					5	3	50	2		C	5	5				24	400							
P418A	P					5	3	50	2		C	5	5				65	400							
P418B	P					10	3	50	2		C	6	10				24	700							
P418V	P					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		12	25		5	100								5.0	30	*60				10	*1K	10	
P422A	GDP	40		12	25		5	100								5.0	15	*60				10	*1K	10	
P423	GDP	40		12	25		5	100								5.0	30	*H1.2					*5H	10	
P423A	GDP	40		12	25		5	100								5.0	15	*H1.2					*5H	10	
P501	SDN	20	1	20		10	100	150				10	3			3.0	9	*1.0				10		19	
P501A	SDN	20	1	20		10	100	150				10	3			3.0	19	*1.0				10		19	
P502	SDN	20	1	20		10	100	150				10	3			3.0	9	*3.0				10		19	
P502A	SDN	20	1	20		10	100	150				10	3			3.0	19	*3.0				10		19	
P502B	SDN	20	1	20		10	100	150				10	3			3.0	9	*3.0				10		19	
P502V	SDN	20	1	20		10	100	150				10	3			3.0	19	*3.0				10		19	
P503	SDN	20	1	20		10	100	150				10	3			3.0	9	*6.0				10		19	
P503A	SDN	20	1	20		10	100	150				10	3			3.0	19	*6.0				10		19	
P504	SDN	30	2	30	10		2	150								2.0	10					7		14	
P504A	SDN	30	2	30	10		2	150								2.0	25					7		14	
P505	SDN	20	2	20	10		2	150								2.0	40					7	*1K	14	
P505A	SDN	20	2	20	10		2	150								2.0	20					7	*1K	14	
P601	GDP	25	/1	25	1A		200	1W		85							20						10		26
P601A	GDP	30	/1	30	1A		100	1W		85							40						10		26

GROUP X, TRANSISTORS																			
TYPE NUMBER	KIND	MAXIMUM										TYPICAL		MAXIMUM					TYP
		V _{CE0} V	V _{EB0} V	V _{CE0} V	I _C mA	I _E mA	I _{CEO} μA	P _C mW	T _J °C	NO	NO	V _C V	I mA	h ₁₁ Ω	h ₁₂ 10 ⁻⁵	h ₂₂ μmho	h ₂₁	f _a MHz	NF dB
P601B	GDP	30	1	25	1A		130	1W	85					80					10
P602	GDP	30	1	30	1A		100	1W	85					40					10
P602A	GDP	25	1	25	1A		130	1W	85					80					10
P604	G P	15	15	45	200			400	50					20					
P604A	G P	15	15	45	200			400	50					10					
P604B	G P	15	15	45	200			400	50					40					
P605	G P	35		35	500		2	3W	70	C			500	20					
P605A	G P	35		35	500		2	3W	70	C			500	40					
P606	G P	25		35	500		2	3W	70	C			500	20					
P606A	GDP	35		25	15H		2M	500	85	C				50					
P607	G P	15	1	200	200		2000	1500		C		10	100						
P607A	G P	15	1	200	200		2000	1500		C		10	100						
P608	G P	15	1	200	200		2000	1500		C		10	100						
P608A	G P	15	1	200	200		2000	1500		C		10	100						
P609	G P	15	1	200	200		2000	1500		C		10	100						
P609A	G P	15	1	200	200		2000	1500		C		10	100						
P701	SAN			40	500	7H	100	10W	150					60					
P701A	SAN			60	500	7H	100	10W	150					10					
P702	SAN	60	3	2A	5000	4000	35	150	C			10	1A	25					
P702A	SAN	60	3	2A	2500	4000	35	150	C			10	1A	10					

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f _{Max} MHz	FIG
		I _F @ 25 mA	T _{Op} °C	I _S @ 25°C A	PIV V	E _F * MIN V	I _F mA	I _F @ μA	E _r @ T°C V	°C		
D1A	GEP	16	70		20	1.0	2	250	10	20	150	1
D1B	GEP	16	70		30	1.0	1	250	25	20	150	1
D1D	GEP	16	70		75	1.0	2	250	75	20	150	1
D1G	GEP	16	70		50	1.0	5	250	50	20	150	1
D1V	GEP	25	70		30	1.0	8	250	25	20	150	1
D1YE	GEP	12	70		100	1.0	1	250	100	20	150	1
D12H	GEP	12	70		100	1.0	5	250	100	20	150	1
DG-TS1	* GEP	16	70	/1	50	*1.0	2	1000	50	20		6
D2A	GEP	50	70		7	1.0	50	250	7	20	150	6
D2B	GEP	16	70		10	1.0	10	250	10	20	150	6
D2D	GEP	16	70		50	1.0	10	250	50	20	150	6
D2G	GEP	16	70		50	1.0	5	250	50	20	150	6
D2I	GEP	16	70		150	*1.0	2	250	150	20	150	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
42R	* GEP	16	70		200	1.0	5	250	200	20		4
D2V	GEP	25	70		30	1.0	10	250	30	20	150	4
D2YE	GEP	16	70		100	1.0	10	250	100	20	150	4
D2ZH	GEP	8	70		150	1.0	10	250	150	20	150	4
DG-TS2	* GEP	16	70	/1	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	/1	100	*1.0	2	800	75	20		6
DG-TS5	* GEP	16	70	/1	100	*1.0	1	250	75	20		6
DG-TS6	* GEP	16	70	/1	125	*1.0	1	800	100	20		6
D7A	GEP	300	70		50	0.5	300	100	50	20		11
D7B	GEP	300	70		100	0.5	300	100	100	20	50K	11
D7D	GEP	300	70		300	0.5	300	100	300	20	50K	11
D7G	GEP	300	70		200	0.5	300	100	200	20	50K	11
D7V	GEP	300	70		150	0.5	300	100	150	20	50K	11
D7YE	GEP	300	70		350	0.5	300	100	350	20	50K	11
D7ZH	GEP	300	70		400	0.5	300	100	400	20	50K	11
DG-TS7	* GEP	16	70	/1	125	*1.0	1	250	100	20		6
DG-TS8	* GEP	25	70	/1	50	*1.0	10	500	30	20		6
D9A	GEP	25	70		10	1.0	10	250	10	20	40	1
D9B	GEP	40	70		10	1.0	90	250	10	20	40	1
D9D	GEP	30	70		30	1.0	60	250	30	20	40	1
D9G	GEP	25	70		30	1.0	30	250	30	20	40	1
D9I	GEP	30	70		30	1.0	30	120	30	20	40	1

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f _{Max} MHz	FIG
		I _F @ 25 mA	T _{opr} °C	I _S @ 25°C A	PIV V	E _F * MIN E _F V	I _F mA	I _F μA	E _r V	T °C		
D9K	GEP	30	70		30	1.0	60	60	30	20	40	1
D9L	GEP	15	70		100	1.0	30	250	100	20	40	1
D9M	GEP	30	70		30	1.0	60	250	50	20	40	1
D9V	GEP	20	70		30	1.0	10	250	30	20	40	1
D9YE	GEP	20	70		50	1.0	30	250	50	20	40	1
D9ZH	GEP	15	70		100	1.0	10	250	100	20	40	1
DG-TS9	GEP	50	70	/1	45	*1.0	10	100	10	20		6
D10	GEP	50	70		20	1.5	3	100	10	20	150	4
D10A	GEP	50	70		20	1.5	5	200	10	20	150	4
D10B	GEP	50	70		20	1.5	8	200	10	20	150	4
DGTS10	GEP	50	70	/1	45	*1.0	5	60	10	20	150	6
D11	GEP	60	70		30	1.0	100	250	30	20	150	4
D12	GEP	60	70		50	1.0	100	250	50	20	150	4
D12A	GEP	70	70		50	1.0	100	250	50	20	150	4
DGTS12	GEP	16	70		30	1.0					150	6
D13	GEP	60	70		75	1.0	100	250	75	20	150	4
DGTS13	GEP	16	70		30	1.0						6
D14	GEP	60	70		100	1.0	100	250	100	20	150	4
D14A	GEP	60	70		100	1.0	100	250	100	20	150	4
DGTS14	GEP	16	70		50	1.0						6
D15	GEP				30	1.0	15	300	30		300	
DGTS15	GEP	50	70		150	1.0	1	800	150	20		6
D16	GEP				50	1.0	5	500	50		300	
D16A	GEP				50	1.0	10	500	50		300	
DGTS16	GEP	50	70		150	1.0	1	250	150	20		6
D17	GEP				100	1.0	4	400	100		300	
DGTS17	* GEP	50	70		200	*1.0	1	800	200	20		6
D18	GEP	20	70		20	1.0	20	50	20	20		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	20	70		10	1.0	10	50	10	20		2
D21	GEP	16	70		150	1.0	5	250	100	20	150	4
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, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f _{Max} MHz	FIG
		I _F @ 25 mA	T _{opr} °C	I _S @ 25°C A	PIV V	E _F * MIN V	I _F mA	I _F @ μA	E _r @ V	T °C		
D101	SIP	50	150	/1	100	2.0	2	100	75	125	600	2
D101A	SIP	75	150	/1	100	1.0	1	75	75	125	600	2
D102	SIP	50	150	/1	75	2.0	2	100	50	125	600	2
D102A	SIP	75	150	/1	75	1.0	1	100	50	125	600	2
D103	SIP	50	150	/1	30	2.0	2	100	30	125	600	2
D103A	SIP	75	150	/1	30	1.0	1	100	30	125	600	2
D104	SIP	30	150	/1	100	2.0	2	150	75	125	600	2
D104A	SIP	30	150	/1	100	1.0	1	150	75	125	600	2
D105	SIP	30	150	/1	75	2.0	2	100	50	125	600	2
D105A	SIP	30	150	/1	75	1.0	1	100	50	125	600	2
D106	SIP	30	150	/1	30	2.0	2	100	30	125	600	2
D106A	SIP	30	150	/1	30	1.0	1	50	30	125	600	2
D107	SIP	10	125		10	1.0	10	/1	10	50		2
D107A	SIP	10	125		10	1.0	10	10	10	125		2
D108	SIP	10	125		30	1.0	10	35	30	25		2
D109	SIP	10	125		50	1.0	10	20	30	25		2
D201A	SI	200	125		25	1.5						
D201B	SI	200	125		50	1.5						
D201D	SI	400	125		100	2.0						
D201G	SI	200	125		100	1.5						
D201TS	SI	400	125		200	2.0						
D201V	SI	400	125		50	2.0						
D201YE	SI	200	125		200	2.0						
D201ZH	SI	400	125		200	2.0	400	500	200			
D202	SIA	400	125		100	1.0	400	500	100	125	0.1	13
D203	SIA	400	125		200	1.0	400	500	200	125	0.1	13
D204	SIA	400	125		300	1.0	400	500	300	125	0.1	13
D205	SIA	400	125		400	1.0	400	500	400	125	0.1	13
D206	SIA	100	125		100	1.0	100	100	100	125	0.1	10
D207	SIA	100	125		200	1.0	100	100	200	125	0.1	10
D208	SIA	100	125		300	1.0	100	100	300	125	0.1	10
D209	SIA	100	125		400	1.0	100	100	400	125	0.1	10
D210	SIA	100	125		500	1.0	100	100	500	125	0.1	10
D211	SIA	100	125		600	1.0	100	100	600	125	0.1	10
D214	SIA	5A	125		100	1.0	5A	3000	100	125		16
D214A	SIA	10A	125		100	1.0	10A	3000	100	125		16
D214B	SIA	2A	125		100	1.0	2000	3000	100	20	1K	16
D215	SIA	5A	125		200	1.0	5A	3000	200	125		16
D215A	SIA	10A	125		200	1.0	10A	3000	200	125		16
D215B	SIA	2A	125		200	1.0	2000	3000	200	20	1K	16

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f _{Max} MHz	FIG
		I _F @ 25 mA	T _{Op} °C	I _S @ 25°C A	PIV V	E _F * MIN V	E _F mA	I _F @ μA	E _r V	@ T°C		
D217	SIA	100	125		800	0.5	100	50	800	20	1K	9
D218	SIA	100	125		1000	0.5	100	50	1000	20	1K	9
D219A	SIA	50	125	/1	70	1.0	50	30	70	100		2
D220	SIA	50	125	/1	50	1.5	50	20	50	100		2
D220A	SIA	50	125	/1	70	1.5	50	30	70	100		2
D220B	SIA	50	125	/1	100	1.5	50	40	100	100		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	/1	50	1.0	50	50	50	125		2
D223A	SIA	50	125	/1	100	1.0	50	50	100	125		2
D223B	SIA	50	125	/1	150	1.0	50	50	150	125		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
D226D	SIA	300	125		100	1.0	300	300	100	80		9
D226G	SIA	300	125		200	1.0	300	300	200	80		9
D226V	SIA	300	125		300	1.0	300	300	300	80		9
D226YF	SIA	300	125		400	1.0	300	300	400	80		9
D229A	SIA	400	125		200	1.0	400	50	200	20		15
D229B	SIA	400	125		400	1.0	400	50	400	20		15
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
D231B(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
D232R(P)	SIA	10A	130		400	1.0	10A	3000	400	130		14
D233(P)	SIA	10A	130		500	1.0	10A	3000	500	130		14
D233A	SIA	10A	125		500	1.5	10A	3000	500	20		14
D233B(P)	SIA	10A	130		500	1.0	10A	3000	500	130		14
D234B(P)	SIA	10A	130		600	1.0	10A	3000	600	130		14
D242(P)	SI	10A	130		100	1.25		3M	100	130	K1.0	14
D242A(P)	SI	10A	130		100	1.0		3M	100	130	K1.0	14
D242B(P)	SI	5A	130		100	1.5		3M	100	130	K1.0	14
D243(P)	SI	10A	130		200	1.25		3M	200	130	K1.0	14
D243A(P)	SI	10A	130		200	1.0		3M	200	130	K1.0	14

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f _{Max} MHz	FIG
		I _F @ 25 mA	T _{Op} °C	I _S @ 25°C A	PIV V	E _F MIN V	I _F mA	I _F μA	E _r V	T °C		
D243B(P)	SI	5A	130		200	1.5		3M	200	130	K1.0	14
D244 (P)	SI	10A	130		50	1.25		3M	50	130	K1.0	14
D244A(P)	SI	10A	130		50	1.0		3M	50	130	K1.0	14
D244B(P)	SI	5A	130		50	1.5		3M	50	130	K1.0	14
D245	SI	10A	130		300	1.25		3M	300	130	K1.0	14
D245A	SI	10A	130		300	1.0		3M	300	130	K1.0	14
D245B	SI	5A	130		300	1.5		3M	300	130	K1.0	14
D246	SI	10A	130		400	1.25		3M	400	130	K1.0	14
D246B	SI	5A	130		400	1.5		3M	400	130	K1.0	14
D247	SI	10A	130		500	1.25		3M	500	130	K1.0	14
D247B	SI	5A	130		500	1.5		3M	500	130	K1.0	14
D248B	SI	5A	130		600	1.5		3M	600	130	K1.0	14
D302	GEA	1A	70		200	0.25	1A	1000	200	20	50K	16
D303	GEA	3A	70		150	0.3	3A	1000	150	20	50K	16
D304	GEA	5A	70		100	0.3	5A	3000	100	20	50K	16
D305	GEA	10A	70		50	0.35	10A	3000	50	20	50K	16
D310	GEA	500	70		20			100	20	70		7
KTS401A	SI	400	70	5A	500	2.5	300	100	500	25		21
KTS401B	SI	500	70	5A	500	2.5	400	100	500	25		22
2D503A	SI	20	120		30	1.0		4	30			1
2D503B	SI	20	120		30	1.2		4	30			1
D1001	GE	100	80		2000	6.5	100	150	2000		/0.1	17
D1001A	GE	100	80		1000	3.5	100	150	1000		/0.1	17
D1002	GE	300	80		2000	7.5	300	300	2000		/0.1	17
D1002A	GE	300	80		1000	4.0	300	300	1000		/0.1	17
D1003A	GE	300	80		500	2.0	300	300	500		/0.1	17
D1004	SIA	100	125		2000	4.0	100	100	2000	20		20A
D1005A	SIA	50	125		4000	4.0	50	100	4000	20		20A
D1005B	SIA	100	125		4000	6.0	100	100	4000	20		20B
D1006	SIA	100	125		6000	6.0	100	100	6000	20		20B
D1007	SIA	75	125		8000	6.0	100	100	8000	20		20B
D1008	SIA	50	125		10K	6.0	100	100	10K	20		20B
D1009	SIA	100	125		2000	7.0	100	100	2000	20		18A
D1009A	SIA	100	125		1000	3.5	300	100	1000	20		19
D1010	SIA	300	125		2000	1.1	300	100	2000	20		18B
D1010A	SIA	300	125		1000	5.5	300	100	1000	20		19
D1011A	SIA	300	125		500	2.5	300	100	500	20		19
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			

GROUP XI-A, DIODES-SWITCHING

TYPE NUMBER	KIND	TYPE	SWITCH RANGE		MAXIMUM CURRENT				SWITCH TIME		CAPACITY pF	FIG
			MAX V	MIN V	SWITCH OFF mA	ON mA	REVR. mA	LEAKAGE μA	OFF μs	ON μs		
D227-A	SWI	SI4	10	20	15	5	1	100	10	0.5	100	13
D227-B	SWI	SI4	14	28	15	5	1	100	10	0.5	100	13
D227-D	SWI	SI4	40	80	15	5	1	100	10	0.5	100	13
D227-G	SWI	SI4	28	56	15	5	1	100	10	0.5	100	13
D227-I	SWI	SI4	100	200	15	5	1	100	10	0.5	100	13
D227-V	SWI	SI4	20	40	15	5	1	100	10	0.5	100	13
D227YE	SWI	SI4	56	112	15	5	1	100	10	0.5	100	13
D227-ZH	SWI	SI4	80	160	15	5	1	100	10	0.5	100	13
D228-A	SWI	SI4	10	20	15	1	1	60	5	0.1	80	9
D228-B	SWI	SI4	14	28	15	1	1	60	5	0.1	80	9
D228-D	SWI	SI4	40	80	15	1	1	60	5	0.1	80	9
D228-G	SWI	SI4	28	56	15	1	1	60	5	0.1	80	9
D228-I	SWI	SI4	100	200	15	1	1	60	5	0.1	80	9
D228-V	SWI	SI4	20	40	15	1	1	60	5	0.1	80	9
D228YE	SWI	SI4	56	112	15	1	1	60	5	0.1	80	9
D228-ZH	SWI	SI4	80	160	15	1	1	60	5	0.1	80	9

GROUP XI-B, DIODES-TUNNEL

GROUP XI-B, DIODES-TUNNEL										
TYPE NUMBER	KIND	TYPE	MAXIMUM		MIN	V _{FM}		CAP	FIG	
			I _P mA	I _P /I _V		V _P mV	MAX mV			MIN mV
3I-301A	TUN	GAS	2	8	180	650		12	23	
3I-301B	TUN	GAS	5	8	180	850	1150	25	23	
3I-301G	TUN	GAS	10	8	180	800		50	23	
3I-301V	TUN	GAS	5	8	180	1000	1300	25	23	
1I-302A	TUN	GE	2.3	4.5	60		400	80	23	
1I-302B	TUN	GE	5.8	4.5	60		400	150	23	
1I-302G	TUN	GE	17	4.5	60		400	200	23	
1I-302V	TUN	GE	11.5	4.5	60		400	180	23	

GROUP XI-C, DIODES-SWITCH CONTROL

TYPE NUMBER	KIND	TYPE	VOLTAGE		MAXIMUM CURRENTS				POWER		TIME MAX		TEMP		FIG
			SWITCH MAX V	RES. MIN V	CONT. MAX mA	SWITCH OFF mA	ON A	LEAK mA	MAX W	K _θ mW/°C	OFF μs	ON μs	MAX (-) °C	MIN (+) °C	
D235A	CON	SI	40	2	20	100	2	1	4	120	5	35	60	125	15
D235B	CON	SI	100	2	20	100	2	1	4	120	5	35	60	125	15
D235G	CON	SI	100	2	20	100	2	1	4	120	5	35	60	125	15
D235V	CON	SI	40	2	20	100	2	1	4	120	5	35	60	125	15
D238A	CON	SI	50	2			10		20	330	10	35	50	100	32
D238B	CON	SI	100	2			10		20	330	10	35	50	100	32
D238D	CON	SI	100	2			10		20	330	10	35	50	100	32
D238G	CON	SI	50	2			10		20	330	10	35	50	100	32
D238V	CON	SI	150	2			10		20	330	10	35	50	100	32
D238YE	CON	SI	150	2			10		20	330	10	35	50	100	32

GROUP XI-D, DIODES-VARACTORS

TYPE NUMBER	KIND	TYPE	MAXIMUM		CAPACITY @ 4V				Q	POWER MAX mW	TEMP		FIG
			VOLTS V	I _R μA	MIN pF	MAX pF	TC	EXP (-)			MAX (-) °C	MIN (+) °C	
D901A	VAR	SI	80	1	22	32	5	4	25	250	60	125	7
D901B	VAR	SI	45	1	22	32	5	4	30	250	60	125	7
D901D	VAR	SI	80	1	34	44	5	4	25	250	60	125	7
D901G	VAR	SI	45	1	28	38	5	4	30	250	60	125	7
D901V	VAR	SI	80	1	28	38	5	4	25	250	60	125	7
D901YE	VAR	SI	45	1	34	44	5	4	30	250	60	125	7

GROUP XII, DIODES-POWER RECTIFIERS

TYPE NUMBER	KIND	TYPE	MAXIMUM				MAXIMUM E_R IN VOLTS																COOLING		RADIATOR	
			OPR TEMP °C	I_f Amp	E_f V	I_r mA	AVAILABLE FOR FOLLOWING SUBCLASSES																KIND	RATE		
							15	30	45	50	55	70	80	100	110	150	2H	3H	4H	5H	6H	7H				8H
VG-5	POW	GE	75	5	0.5			X	X			X	X		X	X	X							AN		
VG-5	POW	GE	75	10	0.5			X	X			X	X		X									AF	10M	
VG-10	POW	GE	75	10	0.5			X																AN		
VG-10-30	POW	GE	75	20	0.5	10		X																AF	10M	
VG-10-45	POW	GE	75	20	0.5	8			X															AF	10M	
VG-10-55	POW	GE	75	20	0.5	6					X													AF	10M	
VG-10-80	POW	GE	75	20	0.5	5						X												AF	10M	
VG-10-110	POW	GE	75	20	0.5	4									X									AF	10M	
VG-10-150	POW	GE	75	20	0.5	3										X								AF	10M	
VG-30	POW	GE	75	30	0.5			X		X			X	X		X								AF	10M	
VG-50	POW	GE	75	50	0.5	40	X	X																AF	10M	
VG-50	POW	GE	75	50	0.5	30			X		X													AF	10M	
VG-50	POW	GE	75	50	0.5	20						X				X	X							AF	10M	
VG-100	POW	GE	75	100	0.5			X		X			X	X		X								AF	10M	
VG-200	POW	GE	75	200	0.6	100	X	X	X	X	X		X	X										W	4L	
VG-500	POW	GE	75	500	0.6			X		X			X	X										W	4L	
VG-1000	POW	GE	75	1000	0.8			X		X			X	X										W	4L	
VK-10	POW	SI	200	10	0.9				X				X			X	X	X	X	X	X	X	X	AN		
VK-10	POW	SI	200	20	0.9				X				X			X	X	X	X	X	X	X	X	AF	15M	
VK-25	POW	SI	200	25	0.9				X				X			X	X	X	X	X	X	X	X	AF	5M	
VK-25	POW	SI	200	50	0.9				X				X			X	X	X	X	X	X	X	X	AF	15M	X
VK-50	POW	SI	200	50	0.9				X				X			X	X	X	X	X	X	X	X	AF	5M	
VK-50	POW	SI	200	100	0.9				X				X			X	X	X	X	X	X	X	X	AF	15M	X
VK-100	POW	SI	200	100	0.9				X				X			X	X	X	X	X	X	X	X	AF	10M	
VK-100	POW	SI	200	150	0.9				X				X			X	X	X	X	X	X	X	X	AF	15M	X
VK-200	POW	SI	200	200	0.9				X				X			X	X	X	X	X	X	X	X	AF	15M	X
VK-200	POW	SI	200	200	0.9				X				X			X	X	X	X	X	X	X	X	W	4L	X
VK-200	POW	SI	200	500	0.9				X				X			X	X	X						W	4L	X
VK-1000	POW	SI	200	1000	0.9				X				X			X	X							W	4L	X

GROUP XII-A, SILICON CONTROLLED RECTIFIERS

TYPE NUMBER	KIND	TYPE	MAX. FORWARD CURRENT					PIV V	MAXIMUM					I _R mA	FIG
			NONE	AIR-COOL		WATER-COOL			POWER		GATE PULSE				
				WITH RAD	FORCED AIR RAD	2L/m	5L/m		W	GATE W	V	A	WIDTH μs		
VKU-10-0.25	SCR	SI4	1	5	10			50	20	1.25	20	1.0	20	20	24
VKU-10-0.5	SCR	SI4	1	5	10			100	20	1.25	20	1.0	20	20	24
VKU-10-0.75	SCR	SI4	1	5	10			150	20	1.25	20	1.0	20	20	24
VKU-10-1.0	SCR	SI4	1	5	10			200	20	1.25	20	1.0	20	20	24
VKU-10-1.5	SCR	SI4	1	5	10			250	20	1.25	20	1.0	20	20	24
VKU-10-2.0	SCR	SI4	1	5	10			400	20	1.25	20	1.0	20	20	24
VKU-10-2.5	SCR	SI4	1	5	10			500	20	1.25	20	1.0	20	20	24
VKU-10-3.0	SCR	SI4	1	5	10			600	20	1.25	20	1.0	20	20	24
VKU-20-0.25	SCR	SI4	3	10	20			50	20	1.25	20	1.0	20	20	25
VKU-20-0.5	SCR	SI4	3	10	20			100	20	1.25	20	1.0	20	20	25
VKU-20-0.75	SCR	SI4	3	10	20			150	20	1.25	20	1.0	20	20	25
VKU-20-1.0	SCR	SI4	3	10	20			200	20	1.25	20	1.0	20	20	25
VKU-20-1.5	SCR	SI4	3	10	20			250	20	1.25	20	1.0	20	20	25
VKU-20-2.0	SCR	SI4	3	10	20			400	20	1.25	20	1.0	20	20	25
VKU-20-2.5	SCR	SI4	3	10	20			500	20	1.25	20	1.0	20	20	25
VKU-20-3.0	SCR	SI4	3	10	20			600	20	1.25	20	1.0	20	20	25
VKU-50-0.25	SCR	SI4	15	32	50			50	30	1.87	20	1.5	20	20	25
VKU-50-0.5	SCR	SI4	15	32	50			100	30	1.87	20	1.5	20	20	25
VKU-50-0.75	SCR	SI4	15	32	50			150	30	1.87	20	1.5	20	20	25
VKU-50-1.0	SCR	SI4	15	32	50			200	30	1.87	20	1.5	20	20	25
VKU-50-1.5	SCR	SI4	15	32	50			250	30	1.87	20	1.5	20	20	25
VKU-50-2.0	SCR	SI4	15	32	50			400	30	1.87	20	1.5	20	20	25
VKU-50-2.5	SCR	SI4	15	32	50			500	30	1.87	20	1.5	20	20	25
VKU-50-3.0	SCR	SI4	15	32	50			600	30	1.87	20	1.5	20	20	25
VKU100-0.25	SCR	SI4		22	100			50	40	2.5	20	2.0	20	20	26
VKU100-0.5	SCR	SI4		22	100			100	40	2.5	20	2.0	20	20	26
VKU100-0.75	SCR	SI4		22	100			150	40	2.5	20	2.0	20	20	26
VKU100-1.0	SCR	SI4		22	100			200	40	2.5	20	2.0	20	20	26
VKU100-1.5	SCR	SI4		22	100			250	40	2.5	20	2.0	20	20	26
VKU100-2.0	SCR	SI4		22	100			400	40	2.5	20	2.0	20	20	26
VKU100-2.5	SCR	SI4		22	100			500	40	2.5	20	2.0	20	20	26
VKU100-3.0	SCR	SI4		22	100			600	40	2.5	20	2.0	20	20	26
VKUV-100-0.25	SCR	SI4	15			60	100	50	40	2.5	20	2.0	20	20	27
VKUV-100-0.5	SCR	SI4	15			60	100	100	40	2.5	20	2.0	20	20	27
VKUV-100-0.75	SCR	SI4	15			60	100	150	40	2.5	20	2.0	20	20	27
VKUV-100-1.0	SCR	SI4	15			60	100	200	40	2.5	20	2.0	20	20	27
VKUV-100-1.5	SCR	SI4	15			60	100	250	40	2.5	20	2.0	20	20	27
VKUV-100-2.0	SCR	SI4	15			60	100	400	40	2.5	20	2.0	20	20	27
VKUV-100-2.5	SCR	SI4	15			60	100	500	40	2.5	20	2.0	20	20	27
VKUV-100-3.0	SCR	SI4	15			60	100	600	40	2.5	20	2.0	20	20	27

GROUP XIII, DIODES-REGULATORS

TYPE NUMBER	KIND	TYPE	MAXIMUM			TYPICAL			MAX	TC	K_{θ}	FIG
			I_Z mA	T_{Opr} °C	P_Z mW	E_Z V	ΔE_Z %	I_Z mA	Z Ω			
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		
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
D808	REG	SI	33	125	280	7.7	10	5.0	6	.07	3	17
D809	REG	SI	29	125	280	8.7	10	5.0	10	.08	3	17
D810	REG	SI	26	125	280	9.7	10	5.0	12	.09	3	17
D811	REG	SI	23	125	280	11.0	10	5.0	15	.095	3	17
D813	REG	SI	20	125	280	12.7	10	5.0	18	.095	3	17
D814-A	REG	SI	40	125	340	7.8	10	5.0	6	.07		5
D814-B	REG	SI	36	125	340	8.8	10	5.0	10	.08		5
D814-D	REG	SI	24	125	340	12.8	10	5.0	18	.095		5
D814-G	REG	SI	29	125	340	11.0	10	5.0	15	.095		5
D814-V	REG	SI	32	125	340	9.8	10	5.0	12	.09		5
D815A(P)	REG	SI		125	8W	5.6	10	A1.4	/1	.045		13
D815B(P)	REG	SI		125	8W	6.8	10	A1.1	/1	.05		13
D815D(P)	REG	SI		125	8W	12.0	10	650	2	.09		13
D815G(P)	REG	SI		125	8W	10.0	10	800	2	.08		13
D815V(P)	REG	SI		125	8W	8.2	10	950	1	.07		13
D815YE(P)	REG	SI		125	8W	15.0	10	550	3	.10		13
D815ZH(P)	REG	SI		125	8W	18.0	10	450	3	.11		13
D816A(P)	REG	SI		125	5W	22	10	230	7	.12		13
D816B(P)	REG	SI		125	5W	27	10	180	8	.12		13
D816D(P)	REG	SI		125	5W	4.7	10	110	15	.12		13
D816G(P)	REG	SI		125	5W	39	10	130	12	.12		13
D816V(P)	REG	SI		125	5W	33	10	150	10	.12		13
D817A(P)	REG	SI		125	5W	56	10	90	35	.14		13
D817B(P)	REG	SI		125	5W	68	10	75	40	.14		13
D817G(P)	REG	SI		125	5W	100	10	50	50	.14		13
D817V(P)	REG	SI		125	5W	82	10	60	45	.14		13
D818A	REG	SI	33	120	300	9.0		11.0	18	.02	70	8
D818B	REG	SI	33	120	300	9.0		11.0	18	.02	70	8
D818D	REG	SI	33	120	300	9.0		11.0	18	.002	70	8
D818G	REG	SI	33	120	300	9.0		11.0	18	.005	70	8
D818V	REG	SI	33	120	300	9.0		11.0	18	.01	70	8
D818YE	REG	SI	33	120	300	9.0		11.0	18	.001	70	8
2S920A(P)	REG	SI	42	130	5W	120			100	.16		13
2S930A(P)	REG	SI	38	130	5W	130			120	.16		13
2S950A(P)	REG	SI	33	130	5W	150			170	.16		13
2S980A(P)	REG	SI	28	130	5W	180			220	.16		13

GROUP XIV, DIODES - MIXERS AND DETECTORS

TYPE NUMBER	KIND	TYPE	TYPICAL WAVE- LENGTH	MAXIMUM								MIN CUR SENS A/W	OPR TEMP		FIG
				RES	LC	NF	VSWR	PULSE PWR		PULSE ENERGY			MIN	MAX	
								CONT mW	PEAK mW	CONT erg	PEAK erg				
			cm	Ω	db										
DG-S1	MIX	GE	9.8	400	8.5	3.0	3.0	80	250	0.1	3.0		60	70	28
DK-I1	DET	SI	9.8						200			0.5	50	70	30
DK-S1	MIX	SI	9.8	400	8.5	2.7	3.5	80	200	0.1	2.0		60	70	30
DK-V1	VID	SI	9.8	15K				50	200			0.8	50	70	20
DG-S2	MIX	GE	9.8	400	6.5	3.0	3.0	80	250	0.1	3.0		60	70	28
DK-I2	DET	SI	3.2						200			0.2	50	70	30
DK-S2	MIX	SI	9.8	400	6.5	2.0	3.0	50	100	0.06	2.0		60	70	30
DK-V2	VID	SI	9.8	10K				50	100			1.2	50	70	20
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
DG-S3	MIX	GE	3.2	400	8.5	3.0	3.5	80	250	0.1	3.0		60	70	28
DK-S3	MIX	SI	3.2	400	8.5	2.7	3.0	50	200	0.06	0.6		60	70	30
DK-V3	VID	SI	3.2	15K				50	200			0.4	50	70	20
DG-S4	MIX	GE	3.2	400	6.5	3.0	3.0	50	250	0.1	3.0		60	70	28
DK-S4	MIX	SI	3.2	400	6.5	2.7	2.5	30	100	0.06	0.3		60	70	30
DK-V4	VID	SI	3.2	10K				50	100			0.8	50	70	20
DK-V5	VID	SI	9.8	10K				50	200			0.8	50	70	30
DK-V6	VID	SI	9.8	25K				50	200			0.8	50	70	30
DK-S7	MIX	SI	3.2	900	7.0	2.0	2.0	50		0.15			60	80	28
DK-V7	VID	SI	3.2	10K				50	200			0.4	50	70	30
D401	MIX	GE	8.5	1K	13.0			15					5	50	29
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	13.0	2.8		150	0.15			60	100	20
D405	MIX	SI		400	7.0		2.0	80		0.6			60	100	31
D405A	MIX	SI		350	6.0		1.7	80		1.0			60	100	31
D405AP	MIX	SI		350	6.0		1.7	80		1.0			60	100	31
D405B	MIX	SI		330	8.0		1.4	80		1.0			60	100	31
D405BP	MIX	SI		330	8.0		1.4	80		1.0			60	100	31
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

GROUP XV, DIODES-PHOTOCONDUCTIVE DEVICES

TYPE NUMBER	KIND	MAXIMUM		DARK		SENSITIVITY		T.C.	TIME CONT.	TEMP		WEIGHT	K AREA
		VOLTS	CUR. μA	POWER mW	RESISTANCE $m\Omega$	CURRENT μA	$mA/\mu m$	MAX μ	CUTOFF μ	MIN $(-)^{\circ}C$	MAX $(+)^{\circ}C$	gm	
FS-AG	PBS	15			0.04		500	2.1	2.7	60	60		24
FS-AO	PBS	15			0.04		500	2.1	2.7	60	60		24
FS-AV	PBS	100			0.01		500	2.1	2.7	60	60		96
FS-DO	CDSE	200			20.0		20M	0.75	1.2	60	40		25
FS-KG	CDS				3.3		6000	0.64	0.9	60	80		25
FS-KO	CDS	300			3.3		1200	0.52	0.9	60	80		25
FS-KV	CDS	200			1.6		6000	0.64	0.9	60	80		50
FD-1	GE	15		15		30	20M	1.4	1.7	60	40	1.0	20
FDK-1	SI	20				3	3000	0.9	1.3	10	50	0.02	
FS-A1	PBS	15			0.04		500	2.1	2.7	60	60		24
FS-D1	CDSE	200			20.0		20M	0.75	1.2	60	40		25
FS-K1	CDS	400			3.3		6000	0.64	0.9	60	80		25
FT-1	GE	3				300	500M	1.4	1.7	200	60	0.9	
FTG-1	GE	15	50			1000	20M	1.4	1.7	40	40	1.2	1
FD-2	GE	30	15			25	20M	1.4	1.7	10	45	0.85	14
FS-2A	PBS	17			0.3			0.7	3.5	60	40		9
FS-B2	BIS	50			0.2								121
FS-K2	CDS	300			3.3		1200	0.52	0.9	60	80		25
FD-3	GE	15				10	20M	1.4	1.7	10	60	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	60	80		25
FS-A4	PBS	15			0.04		500	2.1	2.7	60	60		24
FS-K4	CDS	300			2.0		6000	0.64	0.9	60	80		24
FS-K5	CDS	300			10.0		3000	0.64	0.9	60	80		7
FS-A6	PBS	30			0.05		500	2.1	2.7	60	60		115
FS-D6	BIS	200			20.0		20M	0.75	1.2	60	40		115
FS-K6	CDS	300			3.3		3000	0.64	0.9	60	80		115
FS-K7	CDS	100			0.05		3500	0.64	0.9	60	80		200
FS-K8	CDS	300			10.0		1600	0.64	0.9	60	80		15

GROUP XVI, PHOTO AND PHOTOMULTIPLIER TUBES

TYPE NUMBER	KIND	TYPE	BULB DIMEN			CATHODE			MAXIMUM				OUTPUT SENS		DYNODES			AMPLIFICATION
			SHAPE	DIAM	LGTH	AREA	SURF	SENS	E_b	I_k	DARK I		MIN	OPR	DESIGN	MAT'L	NO	
				mm	mm			cm			$\frac{\mu A}{lm}$	V						
F-1	PHO	VC	T	39	104		S2		30		5	11						
FEU-1	PHO		G	40	124		S2	400	250		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	
TSG-1	PHO	GS	G	56	131		S1	75	240		1	7	1					
TSV-1	PHM	VC	G	56	131		S1	20	240		1	7	1					
F-2	PHO	VC	T	20	67		S2	5	2		1	8	1					
FEU-2	PHM		G	31	71		S2	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	
STSV-2A																		
F-3	PHM	VC	G	92	163			40	50									
FEU-3B	PHM		B	200	295	227	S13	90	2000	300	1	7	3		L	AMK	11 6	
FEU-3M	PHM		T	19	75	1/2	S13	90	1500	100	5	8	1		L	AMK	8 5	
FEU-R3	PHM		T	47	109	2	S13	90	1400		1	10			C		10	
STSV-3	PHO	VC	G	27	62		S2	80	240		1	8	1					
TSG-3	PHO	GS	G	27	62		S1	100	240		1	7	1					
TSV-3	PHO	VC	G	27	62		S1	20	240		1	7	1					
F-4	PHO	VC	T	39	104		S2	70	80		1	14						
STSV-4	PHO	VC	G	39	129		S2	80	240		1	7	1					
TSG-4	PHO	GS	G	39	129		S1	100	240		1	7	1					
TSV-4	PHO	VC	G	39	129		S1	20	240		1	7	1					
F-5	PHO		T	42	104		S1		100		8	11						
FEU-R5	PHM		T	47	109	2	S13	90	1400		1	7	1		C		10	
F-6	PHO		G	33	76		S7	40	100		1	11						
STSV-6	PHO	VC	T	27	104		S1		30		5	11						
TSV-6	PHO	VC	T	27	104		S1		30		5	11						
F-8	PHO		G	27	62		S2	80	150		1	8						
FEU-11	PHM		T	52	235	16	S5	80	2500		8	7	5		V	CAM	12 7	
FEU-12	PHM		T	52	235	16	S10	80	2500		8	7	5		V	CAM	12 7	

GROUP XVI, PHOTO AND PHOTOMULTIPLIER TUBES

TYPE NUMBER	KIND	TYPE	BULB DIMEN			CATHODE			MAXIMUM				OUTPUT SENS		DYNODES			AMPLIFICATION
			SHAPE	DIAM	LGTH	AREA	SURF	SENS $\frac{\mu A}{lm}$	E_b V	I_k μA	DARK I		MIN Amp/L	OPR E_{vb}	DESIGN	MAT'L	NO	
				mm	mm						cm	Amp						
FEU-13	PHM	T	52	162	17	S13	50	2200		4	7	6	2200	L	CAM	12		
FEU-14	PHM	T	52	162	17	S10	40	2200		4	7	6	2200	L	CAM	12		
FEU-15	SCC	T	31	115	3	S10	25	2200		4	7	6	1700	L	CAM	12		
FEU-16	SCC	T	31	115	12	S13	25	2200		4	7	6	1700	L	CAM	12		
FEU-17	PHM	T	48	181	/1	S13	20	1400	100	3	7	10	900	L		13		
FEU-17A	PHM	T	48	181	/1	S13	20	1400	100	3	7	10	900	L		13		
FEU-18	PHM	T	48	181	/1	S3	20	1400	100	3	7	10	900	L		13		
FEU-18A	PHM	T	48	181	/1	S3	20	1400		3	7	10	900	L		13		
FEU-19M	PHM	T	48	195	9	S10	35	2600	200	1	5	1000	2600	L		13	7	
FEU-20	PHM	T	34	95	5	S13	20	1400	100	8	9	1	900	L		8		
FEU-22	PHM	T	48	181	/1	S1	25	2000	300	2	8	1	1400	L		13		
FEU-23	PHM		305	450	700	S10	20	2400	10			10		L	AMK	11	5	
FEU-24	SCC	T	80	230	44	S13	25	2000	100	3	7	10	1600	L		13	6	
FEU-25	PHM	T	34	109	5	S13	20	1700	100	5	8	1	1250	L		9	6	
FEU-26L	PHM	T	22	70	/1	S13	20	900		2	8	10	2000			7		
FEU-27	PHM	T	30	108	5	S17	30	2000		5	9					1		
FEU-29	SCC	T	48	195	9	S13	30	2300	200	3	8	10	1400	L	CAM	13	7	
FEU-31	PHM	T	22	79	10	S13	20	1400	750	5	7	10	1300	L		8		
FEU-32	PHM	T	34	123	5	S10	25	1800	200	1	8	1		L	AMK	11	6	
FEU-33	SCC	T	48	195	9	S13	30	2900		1	6	100	2100	L		13	7	
FEU-34	PHM				9	S13	30	2700		1	5	1000		L		13		
FEU-35	SCC	T	31	113	5	S13	30	1750		4	9	10	1400	L		8		
FEU-36	PHM		48	195	12	S13	30	2900	1M	2	5	2900		L		13		
FEU-37	PHM		48	178	9	S13	30	1800	200	3	6	1800		L		11		
FEU-38	PHM				9	S20	90	2000		1	7	100		L		13		
FEU-39	PHM				9	S13	25	1700		6	9	10		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	1	1800			11		
FEU-44	NSP	B	150	310		S13	30	2200		1	7	1	1800			11		
FEU-45	NSP	B	200	340		S13	30	2200		1	7	1	1800			11		
FEU-46	NSP	T	48	130		S13	30	1800		1	10	1	1800			10		
FEU-47	NSP	T	48	169		S13	30	2500		1	7	1	2300			10		
FEU-48	NSP	T	80	230		S13	30	2500		1	7	1	2300			10		
FEU-49	PHM	B	170	220	95	S20	80	3500		1	8	10	1800			12		
STSV51	PHO	VC	G	30	63		S2	80	240		1	8						
FEU-52	PHM	B	80	125	45	S20	80	3000		5	8	8	1700	V	CAM	12	7	
FEU-53	PHM	T	51	117	16	S9	40	2500	10M	4	7	40	1700	V	CAM	14	7	

GROUP XVIII, THERMOCOUPLE

TYPE NUMBER	KIND	DIMENSIONS		TYPICAL		RESPONSE s	f _{max} MHz
		DIAM mm	LENGTH mm	I _H mA	THERMO ELEC. mV		
TVB-1	THM	20	30	1	73	40	200
TV-2	THM	13	23	100	30	35	5
TVB-2	THM	20	30	3	5	40	200
TVB-3	THM	20	30	5	10	40	200
TV-4	THM	13	23	50	30	35	5
TVB-4	THM	20	30	10	12	40	200
TV-5	THM	13	23	75	30	35	5
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
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

GROUP XIX, THERMISTORS

TYPE NUMBER	KIND	USE	DIMEN			RESISTANCE			TEMP.		POWER		SENS $\frac{\Omega}{mW}$
			DIAM	LTH	SHAPE	MIN	MAX	T.C.	MIN	MAX	MIN	MAX	
			mm	mm		Ω	Ω	%	(-)°C	(+)°C	mW	mW	
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	
KMT-4	TMS	MEA	24	7	CYL	20K	1M	5.1	20	180		8H	
MMT-4	TMS	MEA	24	7	CYL	1	200	2.9	70	120			
MMT-6	TMS					10	1000	2.9	70	120		50	
KMT-8	TMS					100	10K	4.6	40	60			
MMT-8	TMS	COM	22	23	DSC	1	1000	2.9	40	60		10	
T8D	TMS	POW	8	3	CYL	150					10	15	20
T8E	TMS	POW	8	3	CYL	150					7	10	30
T8M	TMS	POW	8	3	CYL	200					9	11	66
T8R	TMS	POW	8	3	CYL	125					7	12	10
T8S1	TMS	POW	8	3	CYL	120					9.5	24	10
T8S1M	TMS	POW	8	3	CYL	120					9.5	24	10
T8S2	TMS	POW	8	3	CYL	150					8	19	12
T8S2M	TMS	POW	8	3	CYL	150					8	19	12
T8S3	TMS	POW	8	3	CYL	150					7	23	10
T8S3M	TMS	POW	8	3	CYL	150					7	23	10
MMT-9	TMS	COM	/3	19	DSC	10	5000	2.9	60	120		10	
T9	TMS	POW	8	3	CYL	125					7	19	10
KMT10	TMS	CON	30	6	CYL	100K	3M	5.1	0	120		2H	
KMT-11	TMS	CON	/4	/1	CYL	100K	3M	5.1	0	120		2H	
KMT-12	TMS					100	10K	4.6	40	120			
MMT-12	TMS					5	5K	2.9	40	120		3	

GROUP XX, STROBOTRONS

TYPE NUMBER	DIMENSIONS			VOLTAGE			POWER		INTER RES	FLASH CONDITIONS				LIGHT OUTPUT			LIFE
	SHAPE	DIAM	LTH	MIN DROP	OPER	FIRING	AVG	PEAK		DISCHG CAP	TIME	FLASH FREQ	ENERGY	FLASH	AVG	PEAK	
		mm	mm	V	V	V	W	kW	Ω	μF	μs	pps	j	cd/s	cd	cd	NO.OF FLSH
ISK10	U	5	30	180	300	1000	10	3	0.8	1.0	15	200	/0.1	7U	15	500	50
ISP10	T	1	62	700	1000	3000	10	6	30	0.2	18	100	0.1	50U	5	3K	500
IST10	U	5	30	180	300	1000	10	50	0.8	220	200	1	10	8		40K	50
IFK15-1	T	29	60		300		3	90	1.5	800	400	0.1	36	36		9K	2K
IS-SH15	T	1	2	250	1000	1200	1	20		20	15		10	5		300K	1 5K
IFK20	T	4	10	100	130	700	2	100	1.6	25H	200	0.1	20	20		100K	10K
ISK25	U	5	20	250	300	1000	20	130	0.4	450	150	1	20	40		30K	30
IFK50	T	4	20	140	200	1K	5	125	0.3	25H	400	0.1	50	70		180K	10K
ISP70	T	0.5	70	900	1200	3000	70	10	1H	0.2	18	400	0.2	100U	40	6K	100
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
IFK120	U	5	30	180	300	1K	12	120	0.8	25H	1K	0.1	120	250		250K	10K
IFP200	T	5	200	450	500	2K	27	140	2.0	16H	16H	0.13	200	400		250K	10K
IFB300	R	8	85	240	300	1500	40	36	2.5	65H	8K	0.13	300	500		60K	10K
IFK500	P	30	45	400	500	3500	30	65	4.0	4K	8K	0.05	500	1000		130K	10K
IFP500	T	5	350	450	500	3K	65	70	3.5	4K	7K	0.13	500	1000		140K	10K
IS-SH500	T	1.2	8	5K	9K	15K	500	1000		0.12	6	100	5	5	500	1M	1
IFP1500	T	5	600	900	1K	4K	100	160	6.0	3K	9K	0.06	15H	4000		450K	10K
IFK2000	U	9	70	250	320	2K	300	200	4.5	8K	2K	0.7	400	1200		600K	40K
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
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

GROUP XXI, COUNTERS

TYPE NUMBER	KIND	RADIATION	QUENCHING	CATHODE	DIMENSIONS		PLATEAU		MAXIMUM			TEMP		CAP	MIN R _i	FIG
					DIAM mm	LENGTH mm	MIN V	MAX V	RATE ³ 10 ³ /min	PLATEAU		MIN (-)°C	MAX (+)°C			
										WIDTH V	SCOPE % V					
AS-1	COU	BAG			132	18	830	940		80	0.2	0	35			
SBS-1	COU	BAG			125		800	1200		150	0.03	50	50			
SI-1BG	COU	BAG	SQ	NI	60	15	375	410				40	50	5	/1	11
SI-1G	COU	BET	SQ	FE	94	16	280	320	60	80	1.25	40	50	10	5	8
AS-2	COU	BAG		AL	160	25	750	860		100	0.15	0	35			
SI-2B	COU	BET	SQ	SN	90	70	1350	1750	8	150	0.5	30	50	10	7	13
SI-2BG	COU	BAG	SQ	NI	60	15	375	410				40	50	5	3	12
STS-2	COU	BET	SQ	FE	180	24	285	335	40	80	1.25	40	50	10	5	9
SBT-3	COU	AAB			93	50	1800	2100		150		30	50			
SI-3B	COU	BET	SQ	CU	90	40	1650		10	150	0.3	20	40	10	7	6
SNM-3	COU				135	18	700	1000		100	0.05	0	30			
STS-3	COU	BET	SQ	FE	265	23	285	335	30	80	1.25	40	50	10	5	8
GS-4	COU	GAM	SQ	GR	180	23	1100	1300		200	1.0			25	8	3
MS-4	COU	GAM	SQ	CU	180	23	720	780	25	200	1.0	40	50	25	8	4
STR-4	COU	BET	SQ	CU	180	40	1200	1350	25	200	0.5	5	35	25	8	7
MSBS-4	COU	BET		GR	362	23							50			
SI-4G	COU	GAM	SQ	W	367	33	720	800	25	200	1.0	40	150	25	8	1
VS-4	COU	GAM	SQ	W	180	23	720	800	25	200	0.75	40	50	25	8	1
SBS-5	COU	BET		GR	255	23							50			
SGS-5	COU	GAM			60	8	340	440		80	0.20	50	50			
SNM-5	COU				300	35	1200	1800		100	0.05	20	30			
STS-5	COU	BET	SQ	FE	113	12	280	330	100	80	1.25	40	50	10	5	9
GS-6	COU	GAM	SQ	GR	266	23	1100	1300		200	1.0			25	8	3
MS-6	COU	GAM	SQ	CU	266	23	720	780	25	200	1.0	40	50	25	8	4
SGS-6	COU	GAM			90	8	340	440		80	0.15	40	80			
STS-6	COU	BET	SQ	FE	200	22	285	335	60	80	1.25	40	50	10	5	10
VS-6	COU	GAM	SQ	W	266	23	720	800	25	200	0.75	40	50	25	8	1
GS-7	COU	GAM	SQ	GR	145	16	1100	1300		150	1.0			25	30	3
MS-7	COU	GAM	SQ	CU	145	16	720	780	25	100	1.5	25	50	25	30	4
SAT-7	COU	ALP			70	25	330	400		60	0.12	40	50			
SBM-7	COU	BET			335	26							50			
SBT-7	COU	BET			72	20	340	380		80	0.12	40	50			
SNM-7	COU				650	35	1800	2500		100	0.05	0	30			
GS-8	COU	GAM	SQ	GR	185	16	1100	1300		150	1.0			25	30	3
MS-8	COU	GAM	SQ	CU	185	16	720	780	25	100	1.5	25	50	25	30	4

GROUP XXI, COUNTERS

TYPE NUMBER	KIND	RADIATION	QUENCHING	CATHODE	DIMENSIONS		PLATEAU		MAXIMUM			TEMP		CAP	MIN R _i	FIG
					DIAM	LENGTH	MIN	MAX	RATE	PLATEAU		MIN	MAX			
					mm	mm	V	V	10 ³ /min	WIDTH V	SCOPE % V	(-)°C	(+)°C	PF	MΩ	
SAT-8	COU	AAB				4	500	1000		300	0.03	40	50			
SBM-8	COU	BET			335	26							50			
SBT-8	COU	AAB			75	20	1100	1700		150		30	30			
SNM-8	COU				16H	35	1300	1700		150	0.05	0	30			
STS-8	COU	BET	SQ	FE	220	23	285	335	40	80	1.25	40	50	10	5	8
VS-8	COU	GAM	SQ	W	185	16	720	800	25	150	1.0	40	50	25	30	1
GS-9	COU	GAM	SQ	GR	367	33	1100	1300		250	1.0			25	8	3
MS-9	COU	GAM	SQ	CU	367	33	720	780	25	250	1.0	40	50	25	8	4
SNM-9	COU				133	20	1000	1600		400	0.05	0	30			
VS-9	COU	GAM	SQ	W	367	33	720	800	25	250	0.75	40	50	25	8	1
GS-10	COU	GAM	SQ	GR	225	16	1100	1300		150	1.0			25	30	3
SBT-10	COU	AAB		LD		51	340	460		80		60	60			
GS-11	COU	GAM	SQ	GR	185	33	1100	1300		200	1.0			25	8	3
MS-11	COU	GAM	SQ	CU	185	33	720	780	25	200	1.0	40	50	25	8	4
VS-11	COU	GAM	SQ	W	185	33	720	800	25	200	0.75	40	50	25	8	1
GS-12	COU	GAM	SQ	GR	145	16	1100	1300		150	1.0			25	30	3
MS-12	COU	GAM	SQ	CU	145	16	720	780	25	100	1.5	25	50	25	30	4
MS-13	COU	GAM	SQ	CU	100	23	720	780	25	200	1.5	40	50	25	8	5
VS-13	COU	GAM	SQ	W	100	23	720	800	25	150	1.0	40	50	25	8	2
MS-14	COU	GAM	SQ	CU	160	23	720	780	25	200	1.0	40	50	25	8	5
VS-14	COU	GAM	SQ	W	160	23	720	800	25	200	0.75	40	50	25	8	2
MS-16	COU	GAM	SQ	CU	250	23	720	780	25	200	1.0	40	50	25	8	5
VS-16	COU	GAM	SQ	W	250	23	720	800	25	200	0.75	40	50	25	8	2
MST-17	COU	BET	SQ	CU	100	40	1600		10	150	0.5	30	50	10	7	6
T20BFL	COU	AAB			7	20	1200	1300		300	0.01	20	40			
T25BFL	COU	AAB			7	25	1300	1400		300	0.01	20	40			
GS-30	COU	GAM	SQ	GR	662	33	1100	1300		150	1.0			25	8	3
T30BFL	COU	AAB			7	30	1400	1500		300	0.01	20	40			
T40BFL	COU	AAB			7	40	1500	1600		300	0.01	20	40			
T50BFL	COU	AAB			7	50	1500	1600		300	0.01	20	40			
GS-60	COU	GAM	SQ	GR	667	63	1100	1300		150	1.0			25	8	3
T60BFL	COU	AAB			7	60	1900	2000		300	0.01	20	40			
T80BFL	COU	AAB			80	90	2000	2100		300	0.01	20	40			

GROUP XXII, DISCHARGE DIODES														
TYPE NUMBER	DIMEN		CAS	CATH		FIRING		PULSE			MIN INTER RES MΩ	MAX CAP pF	AMB. TEMP	
	LTH	DIAM		TYPE	KIND	MIN	MAX	I-amp J-joule	TIME s	OPERATING FREQUENCY pps			MIN	MAX
	mm	mm				V	V						(-) °C	(+) °C
RB-1	52	19			C BA	150	190				400			
R-2	17	16.5			C	1300	2K			600	20		50	80
RB-2	25	19			C BA		220	50	15U	50	100	/1	60	70
R-3	70	21.5			C BAO		600	140	12U	300	100	1	60	70
RB-3	41	22			C BA	220	235	30	1HU	7	100		60	70
R-4					C BAO		75							
R-5	41	22			C BAO	160	250				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
R-6	110	55				800				200 M	100			
R-7	45	18	HK	C	BAO	270	330			2	20	10	60	100
R-8	50	20	HK	C	BAO	450	550			2	20	10	60	100
R-9	55	20	HK	C	BAO	900	1100			2	20	10	60	100
R-10	55	20	HK	C	BAO	1375	1725			2	20	40	60	100
R-11	132	35			C NI	2250	2750	2HU						
R-12	30	12	AR	C	K	145	175	20	1U		1000			
R-54						7200	9800							
RB-90	62	17.5	NA	C	BA	80	100	30M	2	0.005	100	100	60	70
SK-127	37	20	NA		MG		72	1	20	1				
SK-220	37	20	HE				140	/1	20	1				
RB-280	210	95	AR	C	BA	250	310	30	10	0.002	40	20	60	70
R-350	62	20	AR	C	BA	310	390	3	2	0.002	5K	10	50	50
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
R-450	62	20	AR	C	BA	440	480	3	2	0.002	5K	10	50	50

GROUP XXIII, DECATRONS													
TYPE NUMBER	KIND	VOLTAGES						TYP I _b mA	PULSE		DIMEN		
		MAXIMUM				TYPICAL			TYP	MAX	LTH	DIA	
		E _b V	FIRING V	BIAS V	DRP V	OPER V	K ₁ K ₂ V ²		TIME μs	RATE KHz	mm	mm	
OG-1	DEC	450	300	150	15	150	50	1.3	40	8	77	34	
OG-2	DEC	450	300	150	15	150	50	1.3	60	3	77	34	
OG-3	DEC	460	420	120	15	190	40	0.7	18	20	83	34	
OG-5	DEC	400	350	120	20	175	60	1.3	35	10	74	34	

GROUP XXIV, LIGHT AMPLIFIERS											
TYPE NUMBER	KIND	K	SCRN COLOR	MAX DIMEN			AMP μ	TYP E _b V	RESOL		
				K	SCREEN				10 ^{-X}	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 1				DEFLECTION 2			
	H	H	K	g ₁	g ₂	g ₃	g ₄	g ₅	A	Sh	H	H	K	g ₁	g ₂	g ₃	A	A ₃	K	A	A ₅	D ₁	D ₂	D ₃	D ₄
A4	2	4	3	1					CP									3 CP							
A7	1	7	6	5					2									CP							
A8	2	8	7	5					3																
A9	2	7	6	4					CP																
A12	1	12	2	3					8												6	9	10	7	
A14	1	14	2	3					9																
A20	1	20	3	5	16				11																
A25	1	25	2	24	6				23																
B7	3	4	2	5	7				6																
B8	1	8	3	6					CP																
B9	3	9	1	8					6																
B12	1	12	11	2	10				6																
B14	1	14	2	3					9																
C8	1	8	7	2	6				4																
C14	1	14	13	12	CP				CP																
D8	2	8	6	4					CP																
D14	1	14	2	3	4				5																
DS1	4	5	5						CP																
DS2	2	7	2						CP																
DS3	1	5							CP																
DS4	2	7							4																
DS5	1	2	1						CP																
DS6	2	5																							
DS7	1	3																							
DW1	2	8							4																
DW2	1	2	3						4																
DW3	1	8	3						4																
DW4	2	8	8						4																
DW5	2	6	3						1																
DW6	3	4	5						7																
DW7	2	7	8						3																
DW8	1	3	2						4																
DW9	3	4	1						7																
F8	1	8	7	6	3				5																
G8	1	8		6					CP																

GROUP XXV, BASES

BASE NO.	SECTION I										SECTION 2										SEC. 4		DEFLECTION I				DEFLECTION 2			
	H	H	K	g ₁	g ₂	g ₃	g ₄	g ₅	A	Sh	H	H	K	g ₁	g ₂	g ₃	A	A ₃	K	A	A ₅	D ₁	D ₂	D ₃	D ₄	D ₁	D ₂	D ₃	D ₄	
ID1	4	5	2	1				7							2		3													
P1S	4	5	3	2	9	1		7	1																					
P3S	1	7	8	6	3	4		2	5																					
P4S	1	7		4	6	1		CP																						
P5S	1	8		2	3	5		6	7																					
P6S	1	2		3	4	6		CP																						
P7S	1	7		4	3	5		6																						
P8S	4	5		3	1	6		7																						
P9S	4	8	1	2	3	5		6	7																					
P10	2	7	8	CP	4	1		CP																						
P11	1	2		3	CP	6		CP																						
P12	1	6		4	3	5		CP																						
P13	1	7		4	3	5		CP																						
P14	2	7		5	3	4		CP																						
P15	1	6	7	CP	3	5		CP																						
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																						
PD1	4	5	7	2	8	7		6																						
PD2	4	5	2	7	1	2		3																						
PD3	4	5	1	2	9	7		6																						
PD4	3	4	7	1	2	7		5																						
PD5	2	7	1	5	4	1		3																						
PD6	2	7	8	CP	6	1		3																						
PD7	4	5	2	1	7	2		9																						
PD8	6	8	3	1	2	3		CP																						
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																						

GROUP XXV, BASES

BASE NO.	SECTION 1										SECTION 2					SEC. 4		DEFLECTION 1				DEFLECTION 2								
	H	H	K	g ₁	g ₂	g ₃	g ₄	g ₅	A	Sh	H	H	K	g ₁	g ₂	g ₃	A	A ₃	K	A	A ₅	D ₁	D ₂	D ₃	D ₄	D ₁	D ₂	D ₃	D ₄	
PS8	2	7		4	5				CP																					
PS9	4	5	3	7	2	3			1																					
PT1	3	5		2	1	6			4			5	7	8			9													
PT2	7	8	6	CP	3	6			2					5		4														
PT3	2	7	8	1	4	8			6					5		3														
PT4	4	5	7	8	9	7			6	7			3	1		2														
PT5	4	5	2	3	7	2			6	2			8	1		9														
PT6	4	5	8	9	7	8			6																					
TT5	1	4		3					CP																					
TT2S	4	5	1	2					7																					
TT3S	1	4	5	3					2				2	3		5														
TD1	4	8	6	7					1							4.														
TD3	2	7	8	CP					3																					
TE1	1	6	4	8	5				2																					
TE2	1	7		2	CP				4																					
TE3	4	5		8	2				3						CP															
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																					
TT1	1	7		5					2																					
TT2	2	3		4					1																					
TT3	1	3	2	6					4																					
TT4	4	5	3	1					9																					
TT5	2	7	8	CP					CP																					
TT6	2	6	3	5					4																					
TT7	4	5	9	2					1																					
TT8	2	7	1	5					CP	3																				
TT9	2	7	CP						CP																					
TT1	4	5	7	8					9																					
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																					

GROUP XXV, BASES

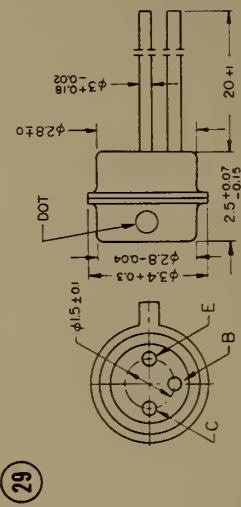
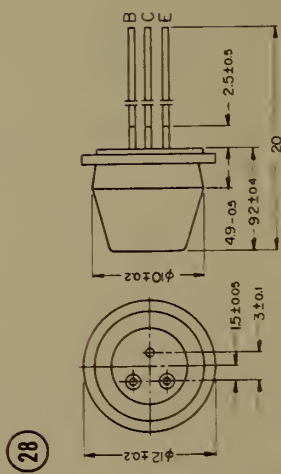
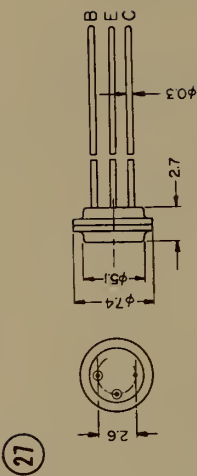
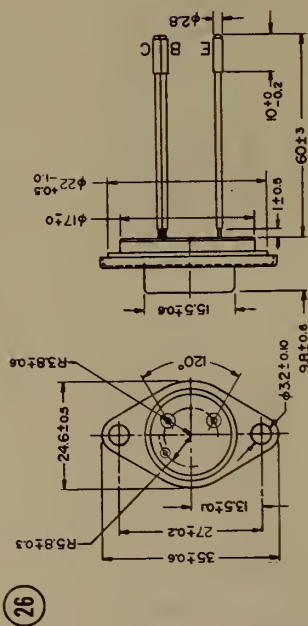
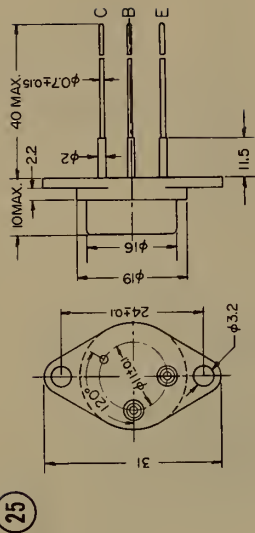
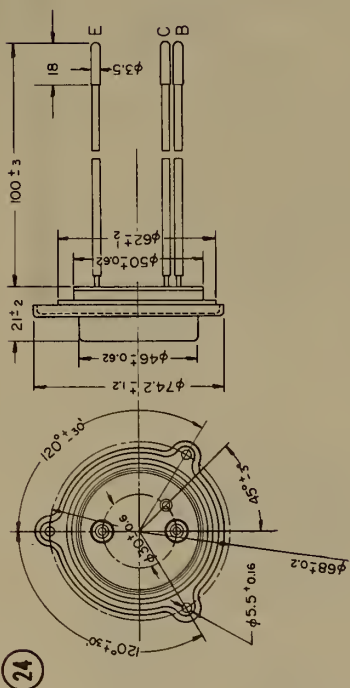
GROUP XXV, BASES																															
BASE NO.	SECTION 1										SECTION 2										SEC. 4		DEFLECTION 1				DEFLECTION 2				
	H	H	K	g ₁	g ₂	g ₃	g ₄	g ₅	A	Sh	H	H	K	g ₁	g ₂	g ₃	A	A ₃	A	K	A	A ₅	D ₁	D ₂	D ₃	D ₄	D ₁	D ₂	D ₃	D ₄	
4F	1	3		4					2																						
4G	1	4	3						2																						
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																						
6BT	3	4	5						2		6			1																	
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																						
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																						
7BK	3	4	7	1	6	2			5																						
7BP	1	7	4	2	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									1																						
7EM	3	4	2	1	5				6																						
7R	2	7	8	CP	4	5			3																						

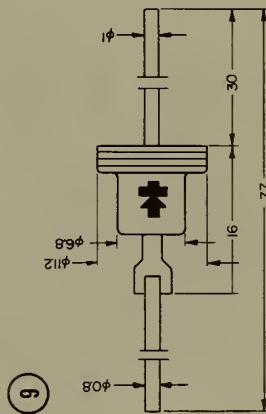
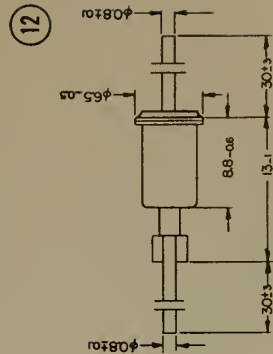
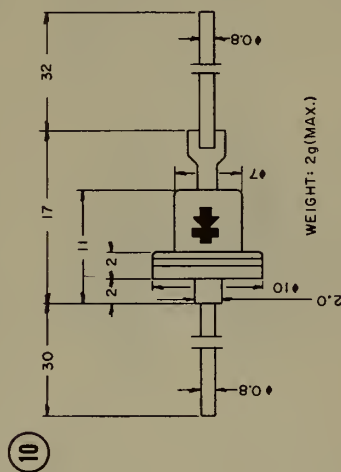
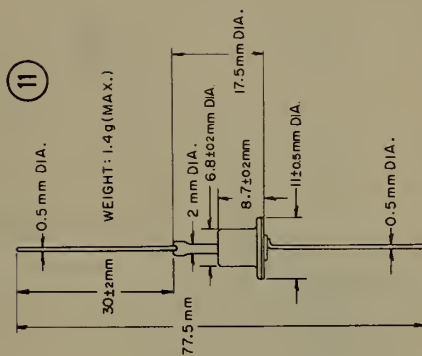
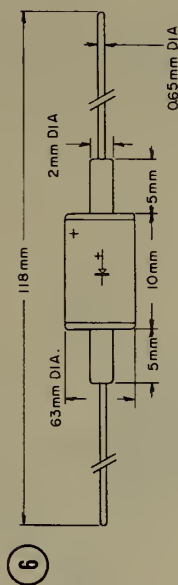
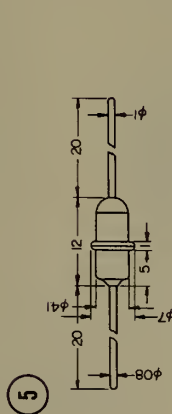
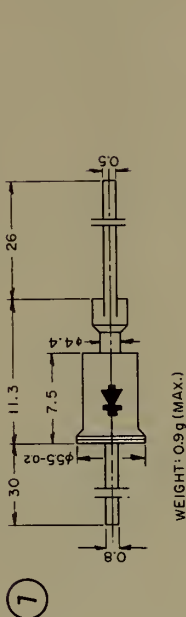
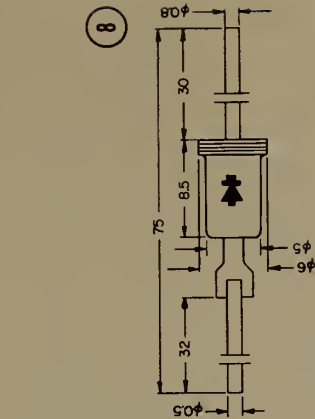
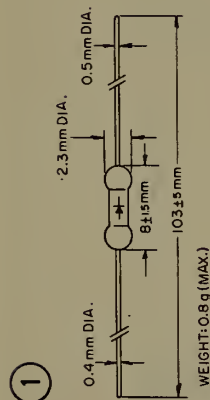
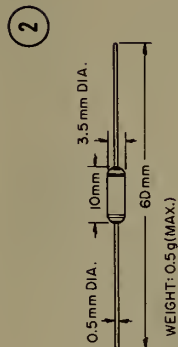
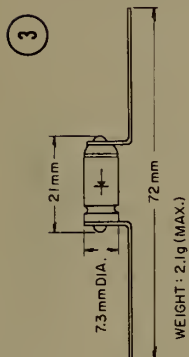
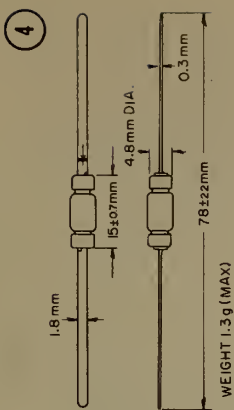
GROUP XXV, BASES

BASE NO.	SECTION 1										SECTION 2					SEC. 4		DEFLECTION 1				DEFLECTION 2			
	H	H	K	g ₁	g ₂	g ₃	g ₄	g ₅	A	Sh	H	H	K	g ₁	g ₂	g ₃	A	A ₃	K	A	A ₅	D ₁	D ₂	D ₃	D ₄
7S	2	7	8	5	4	8			3																
7T	2	7	8	CP	4	5	4	8	3																
7Z	2	7	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								
8BE	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																							
8HC	2	7						CP																	
8N	2	7	5	4	6	3			8																
8Q	7	8	3	2					6								4	5							
8R	2	7	6	5	4	8	4	1	3					4			5								
8S	7	8	6	3					2																
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	1	10	5	2	6				8																
11L	1	11	2	10					7								4					3	6	9	8
14G	1	14	2	3					9								5					11	7	8	10
14J	1	14	2	3					9								5	CP				10	7	8	11

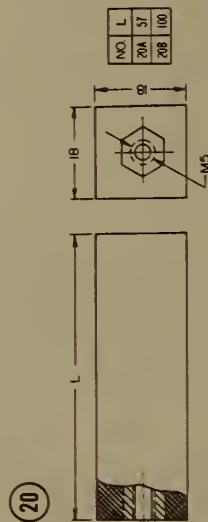
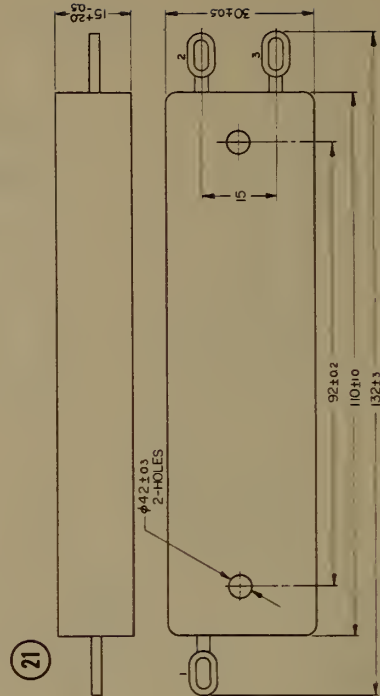
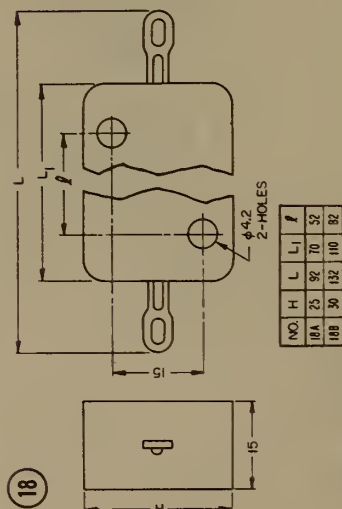
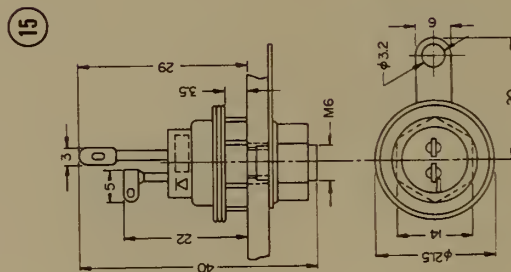
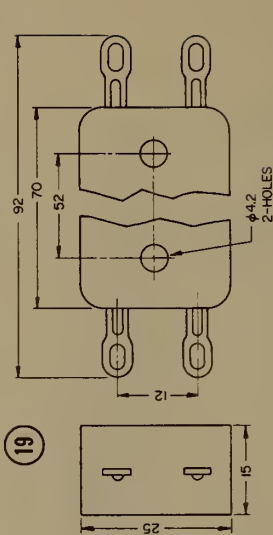
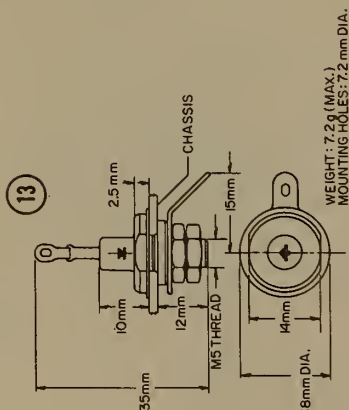
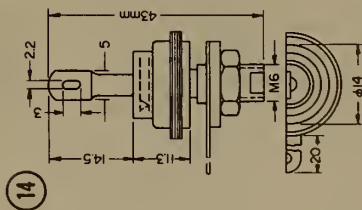
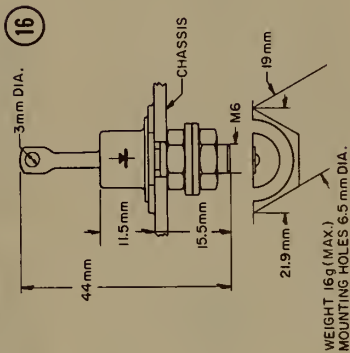
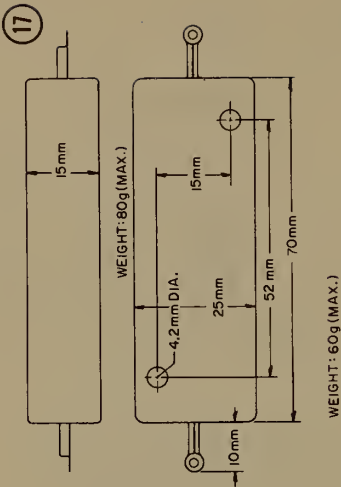
TRANSISTOR OUTLINE DRAWINGS (CON'T)

TRANSISTOR OUTLINE DRAWINGS (CON'T)



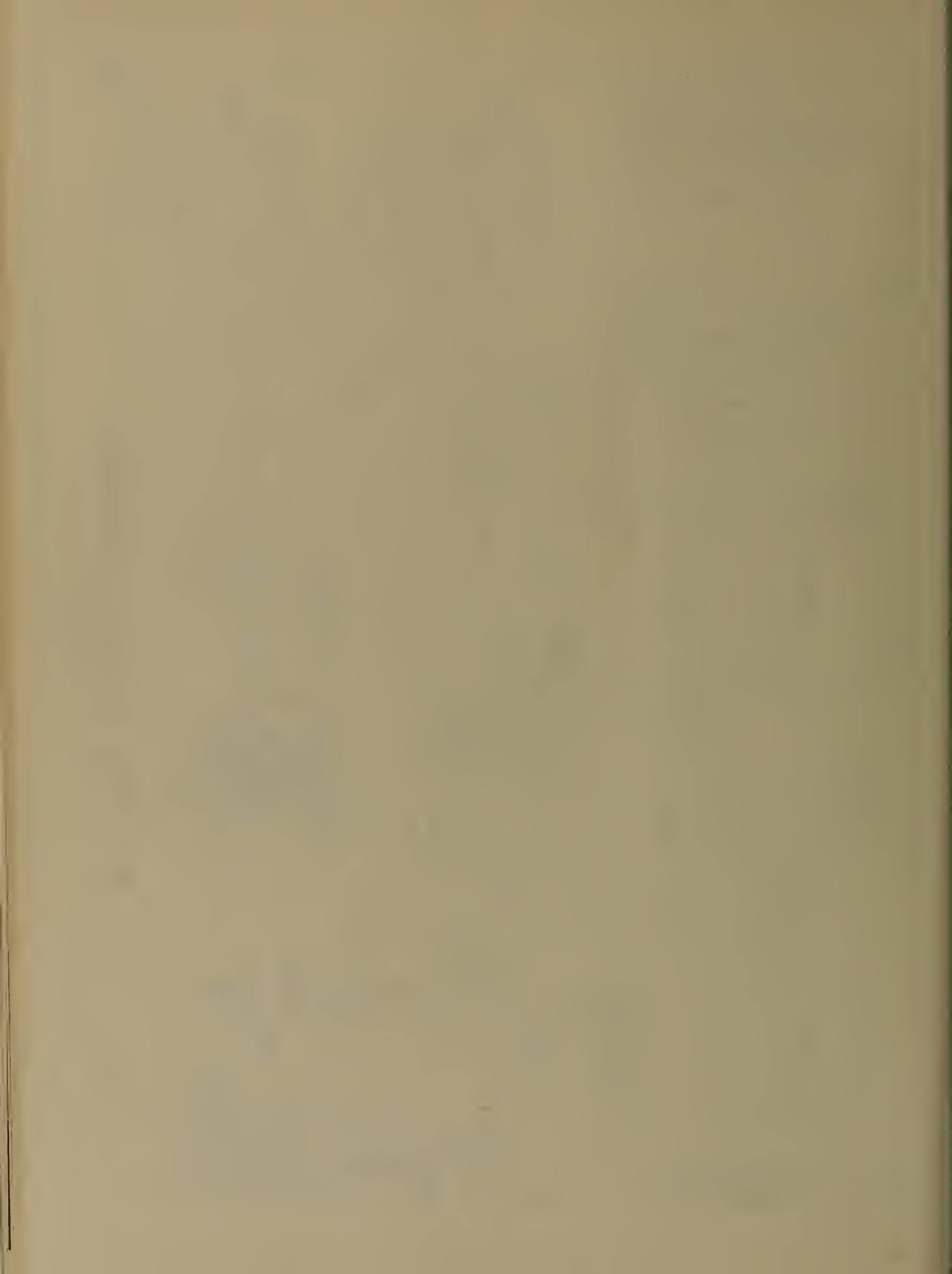


DIODE OUTLINE DRAWINGS GROUPS XI, XII, XIII & XIV



DIODE OUTLINE DRAWINGS (CON'T)

DIODE OUTLINE DRAWINGS (CON'T)





U.S. DEPARTMENT OF COMMERCE
WASHINGTON, D.C. 20210

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