NBS TECHNICAL NOTE 835

U.S. DEPARTMENT OF COMMERCE / National Bureau of Standards

Tabulation of Published Data on Electron Devices of the U.S.S.R. Through December 1973

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[1] Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.
[2] Part of the Center for Radiation Research.
[3] Located at Boulder, Colorado 80302.
[4] Part of the Center for Building Technology.

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Preface

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

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

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

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

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

Diodes and Transistors

New prefix letters for transistors were introduced about 5 years ago. The letters "G" and "K" designate germanium and silicon, respectively. These are followed by the letters "D" or "T" for diodes or transistors. This type of letter prefix has replaced the "1T" and "2T" designations initiated more than 5 years ago, although a few have been retained in this tabulation as no equivalent "G" or "K" types have replaced them.

The prefix letter "M" was used for the first time about 5 years ago and is now quite common preceding the "P number" to indicate that the transistor enclosure is a cold weld between the copper cap and the alloy header.

Integrated Circuits

Group X–A on integrated circuits has been increased by adding a number of new types and updating a few. It will be noted that the "Series Number" has been deleted from the Group Headings to provide more space for the device type number. However, the series number consists of the first three digits of the type number, e.g., Type 1LR313 is in Series 131.

All type numbers in which the first digit is a "1" are integrated circuits on a monolithic silicon chip. Similarly. all type numbers in which the first digit is a "2" are hybrid circuits usually mounted on a ceramic substrate. Both of these groups contain digital and linear circuit series.

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

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

Several devices are marked "Duplicate of - - - -" in the data tables because there was no differentiation in the data given.

New Groups

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

Several new groups have been added in this revision. Among the vacuum tube groups, Group IV–A on Mechanotrons, two anode diodes, shows seven new devices which operate on the old principle that an external mechanical motion imposed on the device changes the position of the cathode with respect to the two anodes causing changes in the plate currents. As the number of Vidicons has increased, the new Group VIII–A was initiated to give more detailed data on these devices.

Two new groups which were first noted during this revision, were introduced for solid state devices. Group XI–E on Light emitting diodes (LED) lists nine devices and Group XI–F on Hall transducers has eleven devices.

In previous editions, the asterisk following the type number indicated "obsolete type." Determination of obsolescence was usually subjective, based on old or nonstandardized type numbers or limited data. For this and the last revision, an ASTERISK FOLLOWING THE TYPE NUMBER indicates that the device is "CURRENT"; that is, that the device in question has been used in electronic equipment or circuits noted in the past 2 years or has been first noted in that time. Also, the LOZENGE (□) has been introduced in this revision to indicate OBSOLESCENCE noted in the source material. Devices whose status are unknown, have no symbol.

CONTENTS

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

		NBS 6637 1/60	NBS 7481 4/62	TN186 6/63	TN265 10/65	TN441 10/67	TN526 12/69	TN715 6/72	TN835 6/74
I	Numerical listing	642	1,362	1,631	2,360	2,373	3,020	3,200	3,930
II	Receiving tubes	262	316	328	383	443	461	482	492
III	Power tubes	89	147	176	176	179	188	187	203
IV	Rectifying tubes		53	68	80	80	86	89	93
IV–A	Mechanotrons, two anode diodes								7
V	Voltage regulator tubes		23	30	33	38	38	36	41
VI	Current regulator tubes		8	9	9	9	9	9	9
VII	Thyratrons	26	42	69	54	60	79	77	81
VIII	Cathode ray tubes	59	87	100	109	115	157	154	141
VIII–A	Vidicons								31
IX	Microwave tubes	13	17	20	27	101	101	106	115
X	Transistors	77	125	160	265	296	438	418	521
X–A	Integrated circuits						317	317	723
X–B	MOS transistors							11	16
XI	Rectifier diodes	84	108	108	200	200	238	246	266
XI–A	Switching diodes				16	16	16	16	16
XI–B	Tunnel diodes				8	26	26	30	30
XI–G	Control rectifiers				10	10	10	10	10
XI–D	Varactors				6	7	7	20	27
XI–E	Light emitting diodes								9
XI–F	Hall transducers								11
XI–C	Miscellaneous						26	30	40
XII	Power rectifiers			29	29	29	29	29	25
XII–A	Silicon controlled devices—High power				40	56	68	40	45
XII–B	Silicon controlled devices—Low power								7
XII–C	Silicon controlled rectifiers							26	50
XIII	Regulator diodes		8	8	41	89	103	107	128
XIV	Mixer and Detector Diodes		37	37	33	44	50	50	52
XV	Photoconductive diodes		4	23	29	29	45	50	50
XVI	Photodiodes and multipliers		25	63	73	72	93	102	111
XVII	Flash tubes			12					
XVIII	Thermocouples		15	15	15	15	15	15	15
XIX	Thermistors	31	19	23	23	35	58	58	58
XX	Strobatrons		12	23	23	23	23	23	23
XXI	Counter tubes		41	41	68	68	81	82	100
XXII	Discharge diodes			20	25	25	31	31	31
XXIII	Decatrons			4	4	8	9	7	11
XXIII–A	Numerical indicators							8	14
XXIV	Light amplifiers			2	2	2	2	2	2
XXV	Tube base connections		164	162	173	212	225	235	239
	Total Devices	641	1,087	1,368	1,781	2,075	2,804	2,868	3,843
	Transistors germanium	73	119	140	224	248	329	312	350
	Transistors silicon	4	6	20	41	48	102	106	171

TABULATION OF PUBLISHED DATA ON ELECTRON DEVICES OF THE U.S.S.R. THROUGH DECEMBER 1974

Charles P. Marsden

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

Key words: Electron devices: electron tubes: semiconductors; U.S.S.R.

1. Introduction

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

This publication is the eighth revision and is an expansion of Technical Note 715 published in June 1972.

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

2. Description of the Tabulation

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

VI–0.1/40	SG2S
VT1	TO–2
1A2P	2A1

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

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

3. Organization of the Tabulation

Data in the 39 groups of the tabulation are presented with columnar headings appropriate to each group.

Group I is a numerical listing of all type numbers in the complete tabulation and also includes discontinued and obsolete type numbers. All these types are defined by a three-letter code to indicate the kind and type of device. Furthermore, under the heading "Group No.," Roman numerals are used to show the group number under which the data for a type will be found.

The last column contains the GOST (U.S.S.R. State National Standard) Specification Number (followed by the year of publication of the specification). These specifications include the information in, and follow the format of, the U.S. military specifications.

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

$ Domestic (U.S.A.) manufacture
= European manufacture
+ Russian manufacture
* Current
□ Obsolete

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

Titles of Groups II–XXIV describe the particular class of device listed under each group. Individual type numbers are arranged in alpha-numerical order as described on page 1 under the heading: "2. Description of the Tabulation."

Under each columnar heading, the device characteristic is expressed in the most commonly used units. For example, under the heading of Maximum Plate Current (I_p), the unit in the heading is mA (milliampheres). However, where the data are in amperes, the value will be tabulated with the number followed by the letter "A," e.g., 15A. All such letters used to indicate a unit change are included in the list of alphabetic symbols under "4.4 Code" on page 2 .

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

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

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

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

4. Terminology Used in the Tabulation

4.1 Column Headings

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

4.2 Bulb Size

This column heading, which is used in the Receiving, Power, Rectifier, and Current Regulator groups, uses a special code to describe the bulb shape and size. The numerical part of the code indicates the diameter of the glass bulb or metal anode (power tubes) in eighths of an inch according to the Standard RS–209–A of the Electronic Industries Association. The alphabetical part of the code is explained as follows:

Prefix

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

Postfix

B — Button glass stem
F — Flat press glass stem

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

4.3 Special Symbols

Receiving tubes (Group II) have postfixed letters with the folowing 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 four-letter codes have been de-

veloped and used in the tabulation. These have been so chosen as to be readily understood. The following table lists code meanings alphabetically by code.

A	Change of unit to amperes
AAB	Alpha and beta radiation
ACO	Acorn tube
ADR	And/or logic
A	Audio frequency Forced air cooling
AGC	Automatic gain control
AHE	Argon-helium gas-filled
AHN	Argon-helium-neon gas-filled
AKN	Argon-krypton gas-filled
AL	Aluminum cathode; countertube
ALP	Alpha radiation
AMK	Aluminum-magnesium alloy with potassium surface
AMP	Amplifier
AN	Natural air cooling
AND	And logic
ANR	And/nor logic
AR	Argon gas-filled
ARC	Arc rectifier-mercury pool
BA	Barium (metal) cathode
BAG	Beta and gamma radiation
BAL	Ballast or current regulator
BAO	Barium oxide cathode
BEA	Beam pentode
BET	Beta radiation
BIS	Bismuth sulphide
BL	Blue luminescence
BRG	Bit register
BWD	Backward diode
BWT	Backward wave tube
C	Circular dynode arrangement Common collector operation Cold cathode Continuous wave operation
CAM	Copper-aluminum-magnesium
CDS	Cadmium sulphide
CDSE	Cadmium selenide
CH	Charactron
CMP	Cascade amplifier
CN	Converter
CO	Coax connector
COM	Commutator tube or operation Temperature compensation
CON	Control switch Temperature control
COU	Counter operation Counter tube
CP	Cap, external, in tabulation of bases
CSB	Cesium antimony photo surface
CU	Copper cathode; counter tube
CYL	Cylindrical shape; thermistors
DBA	Double anode beam pentode
DCD	Digital current driver
DEC	Decatron
DET	Detector operation
DIN	Digital indicator
DIO	Diode With diode, e.g., triode-diode
DMP	Differential amplifier
DSC	Disc shape
DT	Dark trace CR tube
DTL	Diode-transistor logic
DUO	Double, e.g., double diode with separate cathodes
DWD	Double diode (single cathode) With double-diode, e.g., triode-double-diode
E	Common emitter operation
EL	Electrometer tube
ELM	Electromagnetic focus or deflection
ELS	Electrostatic focus or deflection
EMF	Emitter follower
END	End-view indicator
EXP	Expander
F	Filamentary type cathode
FE	Iron cathode; counter tube
FL	Filter circuit
FLP	Flip-flop
G	Giga (10^9)
GAE	Gallium arsenide, epitaxial
GAM	Gamma radiation
GAN	Germanium alloy, npn
GAP	Germanium alloy, pnp
GAS	Gallium arsenide
GDN	Germanium diffused junction, npn
GDP	Germanium diffused junction, pnp
GE	Germanium
GEA	Germanium alloy junction
GEB	Germanium, gold-bonded
GEM	Germanium mesa structure
GEP	Germanium point-contact
GFP	Germanium, epitaxial diffused, pnp
GPE	Gallium phosphide, epitaxial
GPN	Germanium, planar, npn
GPP	Germanium point-contact, pnp
GR	Green luminescence Graphite cathode; counter tube
GS	Gas-filled
GSP	Germanium surface-barrier, pnp
GTB	Gated beam pentode
H	Heater type cathode
h	Hecto (10^2)
HAD	Half-adder
HE	Helium gas-filled
HEX	Hexode
HG	Mercury vapor-filled
HK	Hydrogen-krypton gas-filled
HPT	Heptode
HY	Hydrogen gas-filled
IC	Iconoscope
ID	Indicator tube
IGN	Ignitron tube
IM	Image orthicon
IMD	Image dissector
INV	Inverter
k	Kilo (10^3)
K	Potassium
KLA	Klystron amplifier
KLO	Klystron oscillator
KX	Krypton-xenon gas-filled
L	Linear dynode arrangement Liters per minute—cooling rate
LAM	Light amplifier
LD	Lead cathode
LED	Light emitting diode
LFA	Low frequency amplifier
LIM	Limiter
LIT	Lighthouse
LO	Long persistence screen
M	Mega (10^6) Meters per second—cooling rate
m	Milli (10^{-3})
MAG	Magnetron
MCR	Metal-ceramic tube
MD	Medium persistence screen
MEA	Temperature measurement

MEM	Memory cell, MOS
MG	Magnesium cathode
MIX	Mixer
MJF	MOS junction FET transistor
MMP	MOS amplifier
MND	MOS-Nand logic
MNR	MOS-Nor logic
MO	Molyhdenum cathode
MOD	Modulator
MOR	MOS-Or logic
MOS	Metal-oxide semiconductor
MUL	Multiplier
MVB	Multivibrator
MX	Mixer
N	n-type construction, semiconductor
n	Nano (10^{-9})
NA	Neon-argon gas-filled
NDR	Nand/nor logic
NE	Neon gas-filled
NEH	Neon-helium gas-filled
NEU	Neutron
NI	Nickel cathode
NK	Neon-krypton gas-filled
NND	Nand logic
NO NOI	} Noise generator
NOR	Nor logic
NSP	Nuclear spectrometry
NUV	Nuvistor
OD	Double beam oscilloscope tuhe
OG	Orange-green luminescence
ONR	Or/nor logic
OPA	Operational amplifier
OR	Or logic
ORD	Or/and logic
OS	Oscilloscope tube
OSC	Oscillator
P	{Pulse operation p-type construction, semiconductor
PA	Power amplifier
PB	Purple-blue luminescence
PBS	Lead sulphide
PEN	Pencil tuhe
PHM	Photomultiplier
PHO	Phototube
PIN	Pin type diode
PM	Permanent magnet
PND	{Pentode With pentode e.g., triode-pentode
POW	Power rectifier
PR	Projection kinescope
PT	Phototelegraph reproduction
PTG	Pentagrid
R	Rectangular-diagonal dimension
RA	Radar
RD	Red luminescence
RDL	Resistor—diode logic
REG	Regulator (voltage)
RF	Radio frequency
RTL	Resistor-transistor Logic
S1–S7	Spectral sensitivity of photo surface
S	Max. dimension of cathode ray tube face
SAN	Silicon alloy, npn
SAP	Silicon alloy, pnp
SCC	Scintillation counters
SCD	Silicon carbide, diffused
SCG	Spage-charge grid (with)
SCH	Schmitt trigger
SCR	Silicon controlled-rectifier
SDN	Silicon diffused junction, npn
SEN	Silicon planar epitaxial-npn
SFN	Silicon junction FET, n-channel
SFP	Silicon junction FET, p-channel
SH	Short persistence screen
SHR	Shift register
SI	Silicon
SIA	Silicon alloy junction
SID	Silicon diffused junction
SIDE	Side-view indicator
SIM	Silicon mesa
SIN	Single e.g., single triode
SIP	Silicon, point contact
SI4	Silicon, 4-layer rectifier
SJP	Silicon isolated-gate FET, p-channel
SM	Secondary emission pentode
SN	Tin cathode; counter tuhe
SO	Storage oscilloscope
SPN	Silicon planar npn
SQ	Self-quenching type of counter
SS	Stainless steel cathode
ST	Storage tube
SWI	Switching diode or mode
T	Thoriated tungsten cathode
TET	Tetrode
THM	Thermocouple tuhe
TMS	Thermistor
TRD	With triple diode
TRI	{Triode With triode e.g., pentode-triode
TTL	Transistor transistor logic
TUN	Tunnel diode
TV	{Television tuhe Television circuits
TWN	Twin with same cathode e.g., twin triode
TWT	Traveling-wave tuhe
μ	Micro (10^{-6})
UF	Ultra high frequency
UV	Ultra violet radiation
V	Venetian-hlind dynode
VAR	Varactor
VB	Violet-blue luminescence
VC	Vacuum
VI	Vidicon
VID	Video detector
VMP	Video amplifier
VR	Voltage regulator
W	{Change of units to watts Tungsten cathode Water-cooled
WG	Wave guide coupling
WH	White luminescence
WNB	W92%, Ni5%, Ba3% cathode
XE	Xenon gas-filled
YG	Yellow-green luminescence
YO	Yellow-orange luminescence
1DA	Single diode array
2DA	Double diode array
3C	Three color screen for television
3DA	Triple diode array
4DA	Four diode array
50	Oscilloscope tube, 5 beam
8DA	Eight diode array
* #	} Meaning of symbols indicated in column heading
<	Less than (before digits)
*	Current type
□	Obsolete type

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
FS-AG		PHC		XV		
FS-AO		PHC		XV		
FS-AV		PHC		XV		
FS-DO		PHC		XV		
FS-KG		PHC		XV		
FS-KO		PHC		XV		
FS-KV		PHC		XV		
TOS-M		TMS	CON	XIX		
DKHG-05	*	GE		XI-F		
DKHG-05M	*	GE		XI-F		
DKHG-05S	*	GE		XI-F		
0 24B12-18		BAL	SIN	VI		7162-70
0.3B17-35		BAL	SIN	VI		7162-70
0.3B65-135		BAL	SIN	VI		7162-70
0.425B55-12		BAL	SIN	VI		7162-70
0.6P2B	*	PND	SIN	II	CK505AX	
0.6S7A	*	TRI	SIN	II		
0.6ZH6B		PND	SIN	II		
0.85B55-12		BAL	SIN	VI		7162-70
GR-0.8/1.6		DWD	SIN		GR1-0.25/1.5+	
GRI-0.25/1.5		DWD	SIN	IV		
TG-0.3/0.3		TRI	THY		TG1-0.1/0.3+, 884$	
TG-0.5/1.3		TET	THY		TG1-0.1/1.3+, 2050$	
VG0251500		DIO	SIN		GR1-0.25/1.5+	
AGI1-75/1.3*		THY		VII		
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+	
DKHG-1	*	GE		XI-F		
DK-I1M	*	MIX		XIV		
DK-S1M	*	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		
FSA-G1				XV		
FSD-G1				XV		
FSK-G1				XV		
FSK-P1				XV		
FT-1		PHC		XV		
FTG-1		PHC		XV		
GE-1		TET	SIN	III	GKE-100*	
GG-1-0.3/B		DIO	SIN	IV		
GG1-0.5/5		DIO	SIN	IV	VG1.5/5000+	13705-68
GG-1-0.5/20		DIO	SIN	IV		
GG-1-1/22		DIO	SIN	IV		
GG-1-2/5		DIO	SIN	IV		
GG-1-2/16		DIO	SIN	IV		
GG-1.5/15		DIO	SIN		GG1-0.5/5+	
GK1A		TRI	SIN	III		
GM1A		TRI	SIN	III		14609-69
GM1P		TRI	SIN	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-1-25/0.B				IV	5550$	
I-1-50/20				IV		
I-1-70/0.8		TRI	IGN	IV	5551A$	
I-1-100/1.5		TRI	IGN	IV		
I-1-140/0.8		TRI	IGN	IV	5552A$	
I-1-350/0.8		TRI	IGN	1V	7673$	
IN-1	*	DEC		XXIIIA		
KF-1		TET	TWN		GU-29+, 829B$	
KMT-1	*	TMS		XIX		106B8-63
KZH1		PND	SIN		G411*	
LD1		TRI	SIN		12S3S+	
LG-1		DWD	SIN		12KH3S+	
LI1		IC		VIII-A		
MMT-1	*	TMS		XIX		10688-63
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		
R-1				XXII		
RB-1				XXII		
S1A				X		
S1B				X		
S1D				X		
S1G				X		
S1V				X		
S1YE				X		
SBS-1		COU		XXI		
SFK-1		COU	UV	XXI		
SG1B		DIO	SIN		0A2$	
SG1P		DIO	SIN	V	0A2$	132B2-67
SG1P-EV	*	REG		V		
SG1P-V		REG			SG1P+	
SG1P-YE		REG			SG1P+	
SI-1BG		COU		XXI		
SI-1G		COU			STS-1+	
SK1-5.6/1000		REG		XIII		
SK1-6.B/1000		REG		XIII		
SK1-8.2/1000		REG		XIII		
SK1-10/500		REG		XIII		
SK1-12/500		REG		XIII		
SK1-15/500		REG		XIII		
SK1-1B/500		REG		XIII		
SK1-22/150		REG		XIII		
SK1-24/150		REG		XIII		
SK1-28/150		REG		XIII		
SK1-30/150		REG		XIII		
SK1-36/150		REG		XIII		
SK1-43/150		REG		XIII		
SK1-51/150		REG		XIII		
SK1-62/50		REG		XIII		
SK1-75/50		REG		XIII		
SK1-95/50		REG		XIII		
SK1-110/50		REG		XIII		
SK1-120/50		REG		XIII		
SK1-150/50		REG		XIII		
SK1-180/50		REG		XIII		
SK1-220/25		REG		XIII		
SK1-270/25		REG		XIII		
SK1-300/25		REG		XIII		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
SRM-1 *	COU		XXI		
ST1-17	TMS	MEA	XIX		
ST1-18			XIX		
ST1-19	TMS	MEA	XIX		
ST-1-21	TMS		XIX		
ST-1-30	TMS		XIX		
STS-1	COU		XXI		
T-1B	TRI	THY		TG-1B+	
TG1B	TRI	THY	VII		
TG1B-V	TRI	THY		TG1B+	
TG1P			VII		
TG1-.02/0.5	TET	THY	VII		
TG1-0.1/0.3	TRI	THY	VII	884$	
TG1-0.1/1.3	TET	THY	VII	2050$	7843-55
TG1-0.5/12	TRI	THY	VII		
TG1-1.0/0.8	TET	THY	VII		
TG1-1.5/2	TRI	THY	VII		
TG1-1.6/1.3	TRI	THY	VII		
TG1-2/8			VII		
TG1-2.5/4	TRI	THY	VII	TG8/3, TG1-2.5/3*+	7952-68
TG1-2.5/10			VII		
TG1-3.2/1.3	TRI	THY	VII		
TG1-5/3	TRI	THY	VII		7953-56
TG1-6.4/1.3	TRI	THY	VII		
TG1-12.5/1.3	TRI	THY	VII		
TGI-1B	TRI	THY	VII		
TGI-1-3/1	TET	THY	VII		
TGI-1-5/1.1	TRI	THY	VII		
TGI-1-10/1	TRI	THY	VII		
TGI-1-35/3	TRI	THY	VII	3C45$	
TGI-1-50/5	TRI	THY	VII		
TGI-1-90/8	TRI	THY	VII	MTI-4*+	
TGI-1-130/8	TRI	THY	VII		
TGI-1-130/10	TRI	THY	VII		
TGI-1-260/12			VII		
TGI-1-325/16	TRI	THY	VII	MTI-5+, TGI-325/16+	
TGI-1-400/3.5	TRI	THY	VII		
TGI-1-400/16	TRI	THY	VII		
TGI-1-500/16			VII		
TGI-1-500/20			VII		
TGI-1-700/25	TRI	THY	VII		
TGI-1-1000/25			VII		
TGI1-2000/35			VII		
TGI1-2500/35			VII		
TKI-1	TMS	MEA	XIX		
TKH1	TRI	THY	VII	313C	
TKH1B	TRI	THY	VII		
TKHI-1G	PND		VII		
TM-1	TRI	SIN		6S5D+, 2C40$	
TNI-1.5	DEC				
TO-1	PND	SIN		10ZH12S+	
TR1-2.5/3			V11		
TR1-5/2	TRI	THY	VII	VT-3	7954-69
TR1-6/3			V11		
TR1-6/15	TRI	THY	VII		7955-68
TR1-15/3			V11		
TR1-15/15	TRI	THY	VII		
TR1-15/20			V11		
TR1-40/15	TRI	THY	VII		7956-69
TR1-85/15	TRI	THY	VII		
TR1-130/15	TRI	THY	VII		
TSG-1	PHO		XVI		
TSH-1	TMS	MEA	XIX		
TST-1A	TMS	REG	XIX		
TSV-1	PHO		XVI		
TVB-1	THM		XVIII		
V1-00313	DIO	SIN	IV	V13/30+.3B26	
V1-02/20	DIO	SIN	IV		
V1-03/13	DIO	SIN	IV		
V1-05/70	DIO	SIN	IV		
V1-06/30	DIO	SIN	IV		
V1-1/2.5	DIO	SIN	IV		
V1-1/30	DIO	SIN	IV		
V1-1/40	DIO	SIN	IV		
V1-2/40	DIO	SIN	IV		
V1-3/16	DIO	SIN	IV		
V1-3/70	DIO	SIN	IV		
V1-4/40	DIO	SIN	IV		
V1-15/55	DIO	SIN	IV		
VD1	DIO	SIN		V1-1/40+	
VDI-1D	DIO	SIN		VI-1-100/50+	
VG1/8500	DIO	SIN	IV		
VG1.5/5000	DIO	SIN		GG2-0.5/5+	
VI-1-5/20	DIO	SIN	IV		
VI-1-5/30	DIO	SIN	IV		
VI-1-18/32	DIO	SIN	IV		
VI-1-27/35	DIO	SIN	IV		
VI-1-30/25	DIO	SIN	IV		
VI-1-70/32	DIO	SIN	IV		
VI-1-100/50	DIO	SIN	IV		
V0-1	DIO	SIN	IV		
VSTS-1	PHO			F-3+	
VT-1	TRI	THY		TG-2.5/5+	
1A1P	PTG	SIN	II	1R5$, DK91, DK192	7708-66
1A2P *	PTG	SIN	II	DK96=, 1R5$	9836-66
1A501A			XI-G		
1A501G			XI-G		
1A501I			XI-G		
1A504A			XI-G		
1A504B			XI-G		
1B1P	PND	DIO	II	1S5$, DAF91=, DAF191	8006-56
1B2P *	PND	DIO	II	DAF96=, 1S5$	9837-66
1B5-9	BAL	SIN	VI		7162-70
1B10-17	BAL	SIN	VI		7162-70
1DA191			XA		
1E1P *	TET	SIN	II		
1E3P	TRI	SIN	II	EM-4+	
1F2B	PND	TRI	II		
1GF191			XA		
1GF192	MVB		XA		
1GF193	MVB		XA		
1I2P	PND	TRI	II		
1I-302A	TUN	GAS	XI-B		
1I-302B	TUN	GAS	XI-B		
1I-302G	TUN	GAS	XI-B		
1I-302V	TUN	GAS	XI-B		
1IE201			XA		
1IL101A-B*			X-A		
1IL131A			XA		
1IL131B			XA		
1IL131V			XA		
1IL132A *	DUPLIC		X-A		
1IL132B *	DUPLIC		X-A		
1IL132V *	DUPLIC		X-A		
1IL141A			XA		
1IL141B			XA		
1IL371 *	HAD		X-A		
1IL373 *	HAD		X-A		
K1IR071 *	MNR		X-A		
1IR141A			XA		
1IR141B			XA		
1IR201	MOS		XA		
1IR202	MOS		XA		
K1IR441 *	SHR		X-A		
K1IR442 *	SHR		X-A		
1IR451	MOS		XA		
1JAM351 *	MEM		X-A		
1JAM352 *	MEM		X-A		
1JAM881 *	MEM		X-A		
1K1P	PND	SIN	II	1T4$, DF91=	7707-55
1K2P *	PND	SIN	II	DF96=, 1T4$	9946-66

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
1K12B	PND	SIN	II		
1KP191			XA		
1KT011A			XA		
1KT011B			XA		
1KT011G			XA		
1KT011V			XA		
1KT241A.B*			X-A		
1KT461 *	DCD		X-A		
1KT462ABV*	DCD		X-A		
1KT463ABV*	DCD		X-A		
1KT464ABV*	DCD		X-A		
1KT465ABV*	DCD		X-A		
1KT466ABV*	DCD		X-A		
1KT467ABV*	DCD		X-A		
1KT491			XA		
1KT491A *	SWI		X-A		
1KT491B *	SWI		X-A		
1KT491V *	SWI		X-A		
1LB041	NND		XA		
1LB042	NND		XA		
1LB043	NND		XA		
1LB044	NND		XA		
1LB061	NDR		XA		
1LB062	NDR		XA		
1LB063	NDR		XA		
1LB064	NDR		XA		
1LB065	NDR		XA		
1LB066	NDR		XA		
1LB067	NDR		XA		
1LB068	NDR		XA		
1LB069	NDR		XA		
1LB0610	NDR		X-A		
1LB091A	NDR		XA		
1LB091B	NDR		XA		
1LB091G	NDR		XA		
1LB091V	NDR		XA		
1LB092A	NDR		XA		
1LB092B	NDR		XA		
1LB101 *	NDR		X-A		
1LB102A-B*	NDR		X-A		
1LB103A-B*	NDR		X-A		
1LB104A-B*	NDR		X-A		
1LB105A-G*	NDR		X-A		
1LB106A-G*	NDR		X-A		
1LB107A-G*	NDR		X-A		
1LB108A-G*	NDR		X-A		
1LB109A-B*	NDR		X-A		
1LB1011A-B*	NDR		X-A		
1LB1012A-B*	NDR		X-A		
1LB1013A-B*	NDR		X-A		
1LB1014A-G*	NDR		X-A		
1LB111	NOR		XA		
1LB112	NOR		XA		
1LB113	NOR		XA		
1LB131A	NOR		XA		
1LB131B	NOR		XA		
1LB131V	NOR		XA		
1LB132A	NOR		XA		
1LB132B	NOR		XA		
1LB132V	NOR		XA		
1LB133A	NOR		XA		
1LB133B	NOR		XA		
1LB133V	NOR		XA		
1LB134A	NOR		XA		
1LB134B	NOR		XA		
1LB134V	NOR		XA		
1LB135A	NOR		XA		
1LB135B	NOR		XA		
1LB135V	NOR		XA		
1LB136A *	DUPLIC		X-A		
1LB136B *	DUPLIC		X-A		
1LB136V *	DUPLIC		X-A		
1LB137A *	DUPLIC		X-A		
1LB137B *	DUPLIC		X-A		
1LB137V *	DUPLIC		X-A		
1LB138A *	DUPLIC		X-A		
1LB138B *	DUPLIC		X-A		
1LB138V *	DUPLIC		X-A		
1LB139A *	DUPLIC		X-A		
1LB139B *	DUPLIC		X-A		
1LB139V *	DUPLIC		X-A		
1LB1310A *	DUPLIC		X-A		
1LB1310B *	DUPLIC		X-A		
1LB1310V *	DUPLIC		X-A		
1LB141A	NOR		XA		
1LB141B	NOR		XA		
1LB142A	NOR		XA		
1LB142B	NOR		XA		
1LB143A	NOR		XA		
1LB143B	NOR		XA		
1LB144A	NOR		XA		
1LB144B	NOR		XA		
1LB145A	NOR		XA		
1LB145B	NOR		XA		
1LB146A	NOR		XA		
1LB146B	NOR		XA		
1LB151 *	OR		X-A		
1LB152 *	OR		X-A		
1LB153 *	OR		X-A		
1LB154 *	NOR		X-A		
1LB211A	NDR		XA		
1LB211B	NDR		XA		
1LB211G	NDR		XA		
1LB211V	NDR		XA		
1LB212A	NDR		XA		
1LB212B	NDR		XA		
1LB251	MND		XA		
1LB301 *	NDR		X-A		
1LB302 *	NDR		X-A		
1LB303 *	NDR		X-A		
1LB304 *	NDR		X-A		
1LB306 *	NDR		X-A		
1LB307 *	NDR		X-A		
1LB308 *	NDR		X-A		
1LB309 *	NDR		X-A		
1LB3010 *	NDR		X-A		
1LB311 *	NDR		X-A		
1LB312 *	NDR		X-A		
1LB313 *	NDR		X-A		
1LB314 *	NDR		X-A		
1LB316 *	NDR		X-A		
1LB317 *	NDR		X-A		
1LB318 *	NDR		X-A		
1LB319 *	NDR		X-A		
1LB3110 *	NDR		X-A		
1LB331 *	NND		X-A		
1LB331A	NND		XA		
1LB331B	NND		XA		
1LB332 *	NND		X-A		
1LB332A	NND		XA		
1LB332B	NND		XA		
1LB333 *	NND		X-A		
1LB334 *	NND		X-A		
1LB336 *	NND		X-A		
1LB337 *	NND		X-A		
1LB338 *	NND		X-A		
1LB339 *	NND		X-A		
1LB3310 *	NND		X-A		
1LB3311 *	NND		X-A		
1LB3312 *	NND		X-A		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
1LB3313	*	NND		X-A		
1LB3315	*	NND		X-A		
1LB3316	*	NND		X-A		
1LB341		NOR		XA		
1LB341A	*	NND		X-A		
1LB341B	*	NND		X-A		
1LB342		NOR		XA		
1LB342A	*	NND		X-A		
1LB342B	*	NND		X-A		
1LB361	*	NND		X-A		
1LB362	*	NND		X-A		
1LB363	*	NND		X-A		
1LB364	*	NND		X-A		
1LB366	*	NND		X-A		
1LB367	*	NND		X-A		
1LB368	*	NND		X-A		
1LB369	*	NND		X-A		
1LB371	*	NOR		X-A		
1LB372		ONR		XA		
1LB375	*	NOR		X-A		
1LB376	*	NOR		X-A		
1LB378	*	NOR		X-A		
1LB379	*	NOR		X-A		
1LB3710	*	NOR		X-A		
1LB3716	*	NOR		X-A		
1LB3717	*	NOR		X-A		
1LB3718	*	NOR		X-A		
1LB3719	*	NOR		X-A		
1LB381		ONR		XA		
1LB391		ONR		XA		
1LB392		ONR		XA		
1LB471		MNR		XA		
1LB472		MNR		XA		
1LB551	*	NDR		X-A		
1LB552	*	NDR		X-A		
1LB553	*	NDR		X-A		
1LB554	*	NDR		X-A		
1LB556	*	NDR		X-A		
1LB557	*	NDR		X-A		
1LB558	*	NDR		X-A		
1LB561A	*	NND		X-A		
1LB561B	*	NND		X-A		
1LB561V	*	NND		X-A		
1LB562	*	NND		X-A		
1LB563A	*	NND		X-A		
1LB563B	*	NND		X-A		
1LB563V	*	NND		X-A		
1LB564A	*	ORD		X-A		
1LB564B	*	ORD		X-A		
1LB564V	*	ORD		X-A		
1LB581	*	NND		X-A		
1LB582	*	NND		X-A		
1LB583	*	NND		X-A		
1LB584	*	NND		X-A		
1LB586	*	NND		X-A		
1LB587	*	NND		X-A		
1LB588	*	NND		X-A		
1LB589	*	NND		X-A		
K1LB721	*	ONR		X-A		
K1LB722	*	ONR		X-A		
K1LB781	*	ONR		X-A		
K1LB782	*	ONR		X-A		
1LI041		AND		XA		
1LI042		AND		XA		
1LI043		AND		XA		
1LI044		AND		XA		
1LI045		AND		XA		
1LI091	*	AND		X-A		
K1LI721	*	AND		X-A		
K1LI781	*	AND		X-A		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
1LL201		MOR		XA		
1LN101A-B	*	INV		X-A		
1LN102A-G	*	INV		X-A		
1LN103A-B	*	INV		X-A		
1LP061		OR		XA		
1LP062.A		OR		XA		
1LP063		OR		XA		
1LP064		OR		XA		
1LP065.A		OR		XA		
1LP066.A		OR		XA		
1LP067		OR		XA		
1LP068		OR		XA		
1LP091				XA		
1LP131A	*	HAD		X-A		
1LP131B	*	HAD		X-A		
1LP131V	*	HAD		X-A		
1LP141		OR		XA		
1LP141A	*	NDR		X-A		
1LP141B	*	NDR		X-A		
1LP142		OR		XA		
1LP142A	*	NOR		X-A		
1LP142B	*	NOR		X-A		
1LP143A	*	NOR		X-A		
1LP143B	*	NOR		X-A		
1LP144A	*	ONR		X-A		
1LP144B	*	ONR		X-A		
1LP145A	*	OR		X-A		
1LP145B	*	OR		X-A		
1LP151	*	NOR		X-A		
1LP201		MOS		XA		
1LP211				XA		
1LP251		MOS		XA		
1LP281	*	OR		X-A		
1LP301	*	OR		X-A		
1LP311	*	OR		X-A		
1LP331	*	OR		X-A		
1LP333	*	OR		X-A		
1LP371	*	OR		X-A		
1LP372	*	OR		X-A		
1LP391				XA		
1LP421		MOS		XA		
1LP471		MOS		XA		
1LP551	*	OR		X-A		
1LP553	*	OR		X-A		
1LP561	*	AND		X-A		
1LR061.A		ADR		XA		
1LR062.A		ADR		XA		
1LR063		ADR		XA		
1LR064		ADR		XA		
K1LR071	*	MNR		X-A		
1LR271		ADR		XA		
1LR281A	*	OR		X-A		
1LR281B	*	OR		X-A		
1LR301	*	OR		X-A		
1LR303	*	OR		X-A		
1LR304	*	OR		X-A		
1LR305	*	OR		X-A		
1LR306	*	OR		X-A		
1LR307	*	OR		X-A		
1LR311	*	ANR		X-A		
1LR313	*	ANR		X-A		
1LR314	*	ANR		X-A		
1LR315	*	ANR		X-A		
1LR316	*	ANR		X-A		
1LR317	*	ANR		X-A		
1LR331	*	AOR		X-A		
1LR331A		ADR		XA		
1LR331B		ADR		XA		
1LR333	*	AOR		X-A		
1LR334	*	ANR		X-A		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
1LR335	*	AOR		X-A		
1LR336	*	AOR		X-A		
1LR338	*	ANR		X-A		
1LR341		ADR		XA		
1LR341A	*	AOR		X-A		
1LR341B	*	AOR		X-A		
1LR342		ADR		XA		
1LR342A	*	AOR		X-A		
1LR342B	*	AOR		X-A		
1LR361	*	AOR		X-A		
1LR363	*	ANR		X-A		
1LR364	*	ANR		X-A		
1LR365	*	AOR		X-A		
1LR366	*	ANR		X-A		
1LR367	*	ANR		X-A		
1LR421		MOS		XA		
1LR551	*	AOR		X-A		
1LR553	*	AOR		X-A		
1LR581	*	ANR		X-A		
1LR583	*	ANR		X-A		
1LR584	*	ANR		X-A		
1LR585	*	ANR		X-A		
1LR586	*	ANR		X-A		
1LR587	*	ANR		X-A		
K1LR721	*	ANR		X-A		
K1LR781	*	ANR		X-A		
1LS131A	*	NOR		X-A		
1LS131B	*	NOR		X-A		
1LS131V	*	NOR		X-A		
1LS132A	*	DUPLIC		X-A		
1LS132B	*	DUPLIC		X-A		
1LS132V	*	DUPLIC		X-A		
1LS151	*	OR		X-A		
1LS271		ADR		XA		
1LS281A	*	OR		X-A		
1LS281B	*	OR		X-A		
1MA191				XA		
1N1		TRI	TWN		1N3S=	
1N1	*			XXIIIA		
1N3S		TRI	TWN	II	1N1+. 1G6-GT$	
1ND041				XA		
1ND042				XA		
1ND043				XA		
1ND044				XA		
K1NT291A	*	AMP		X-A		
K1NT291B	*	AMP		X-A		
K1NT291D	*	AMP		X-A		
K1NT291G	*	AMP		X-A		
K1NT291I	*	AMP		X-A		
K1NT291V	*	AMP		X-A		
K1NT291YE	*	AMP		X-A		
K1NT291ZH	*	AMP		X-A		
K1NT591A	*	DMP		X-A		
K1NT591B	*	AMP		X-A		
K1NT591D	*	AMP		X-A		
K1NT591G	*	AMP		X-A		
K1NT591I	*	AMP		X-A		
K1NT591V	*	AMP		X-A		
K1NT591YE	*	AMP		X-A		
K1NT591ZH	*	AMP		X-A		
K1NT661A	*	SWI		X-A		
1P2B	*	PND	SIN	II	CK507AX	
1P3B		PND	SIN	II		
1P4B	*	PND	SIN	II		
1P5B	*	PND	SIN	II		
1P22B	*	PND	SIN	II		
1P24B	*	PND	SIN	II		
1P32B	*	PND	SIN	II		
1PP141				XA		
1S12P		TPI	SIN	II	DC96=	
1S38A	*	TRI	SIN	II		
1SV191		AMP		XA		
1T303A				X		
1T303B				X		
1T303D				X		
1T303G				X		
1T303V				X		
1T303YE				X		
1T308A					GT308A+	
1T308B					GT308B+	
1T308V					GT308V+	
1T403A					GT403A+	
1T403B					GT403B+	
1T403D					GT403D+	
1T403G					GT403G+	
1T403I					GT403I+	
1T403V					GT403V+	
1T403YE					GT403YE+	
1T403ZH					GT403ZH+	
1TK101A-B	*	FLP		X-A		
1TK102A-D	*	FLP		X-A		
1TK191A.B				XA		
1TK251		MOS		XA		
1TK471		MOS		XA		
1TR061.A		ADR		XA		
1TR062.A		ADR		XA		
1TR063		ADR		XA		
1TR064		ADR		XA		
1TR131A		NOR		XA		
1TR131B		NOR		XA		
1TR131V		NOR		XA		
1TR132A	*	DUPLIC		X-A		
1TR132B	*	DUPLIC		X-A		
1TR132V	*	DUPLIC		X-A		
1TR141A		NOR		XA		
1TR141B		NOR		XA		
1TR151	*	OR		X-A		
1TR371	*	FLP		X-A		
1TR373	*	FLP		X-A		
1TR421		MOS		XA		
K1TR721	*	FLP		X-A		
K1TR781	*	FLP		X-A		
1TS1		DIO	SIN		1TS1S+. 1VD1+	
1TS1S	*	DIO	SIN	II	1TS1+. 1VD1+.1Z1$	
1TS7S	*	DIO	SIN	II	DY30=. 1B3/8016$	8359-66
1TS11P	*	DIO	SIN	II		
1TS20B		DIO	SIN	II		
1TS21P	*	DIO	SIN	II	1S2$.DY86=.DY87=	13849-68
K1TSH181A	*	FLP		X-A		
K1TSH181B	*	FLP		X-A		
K1TSH181D	*	FLP		X-A		
K1TSH181G	*	FLP		X-A		
K1TSH181V	*	FLP		X-A		
1TSH191		SCH		XA		
K1UB181A	*	VMP		X-A		
K1UB181B	*	VMP		X-A		
K1UB181G	*	VMP		X-A		
K1UB181V	*	VMP		X-A		
1UB191		AMP		XA		
1UE201		MMP		XA		
1UI461		AMP		XA		
1UI461A.B	*	AMP		X-A		
1UI462		AMP		XA		
1UI462A.B	*	AMP		X-A		
1UI463A.B	*	AMP		X-A		
1UI464A.B	*	AMP		X-A		
K1US181A	*	AMP		X-A		
K1US181B	*	AMP		X-A		
K1US181D	*	AMP		X-A		
K1US181G	*	AMP		X-A		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
K1US181V	*	AMP		X-A		
K1US182A	*	CMP		X-A		
K1US182B	*	CMP		X-A		
K1US182V	*	CMP		X-A		
1US191		AMP		XA		
1US192		AMP		XA		
1US221A		AMP		XA		
1US221B		AMP		XA		
1US221D	*	AMP		X-A		
1US221G	*	AMP		X-A		
1US221V		AMP		XA		
1US222A		AMP		XA		
1US222B		AMP		XA		
1US222V		AMP		XA		
1US231A	*	LFA		X-A		
1US231B	*	LFA		X-A		
1US231V	*	LFA		X-A		
1US481		AMP		XA		
K1US671	*	MMP		X-A		
K1US731A.B	*	LFA		X-A		
K1US731V	*	LFA		X-A		
1US732A.B	*	LFA		X-A		
1US732V	*	LFA		X-A		
1US771	*	AMP		X-A		
K1UT181A	*	DMP		X-A		
K1UT181B	*	DMP		X-A		
K1UT181V	*	DMP		X-A		
1UT191		AMP		XA		
1UT221A		AMP		XA		
1UT221B		AMP		XA		
1UT221G		AMP		XA		
1UT221V		AMP		XA		
1UT321		AMP		XA		
1UT321A	*	OPA		X-A		
1UT321B	*	OPA		X-A		
1UT322A.B	*	OPA		X-A		
1UT401		AMP		XA		
1UT401A	*	OPA		X-A		
1UT401B	*	OPA		X-A		
1UT402A.B	*	OPA		X-A		
1UT771	*	AMP		X-A		
1UYE191		AMP		XA		
1V3/8016		DIO	SIN		1TS7S+. 1B3/8016$	
1VD1		DIO	SIN		1TS1. 1TS1S+	
1VD2		DIO	SIN		1TS7S+. 1B3/8016$	
1YE4A		TRI	SIN	II		
1ZH1ZH		PND	SIN	II		
1ZH2		PND	SIN		1ZH2M+	
1ZH2M		PND	SIN	II	1ZH2*	
1ZH17B	*	PND	SIN	II		
1ZH18B	*	PND	SIN	II		
1ZH24B	*	PND	SIN	II		
1ZH26A		PND	SIN	II		
1ZH29B	*	PND	SIN	II		
1ZH30B		PND	SIN	II		
1ZH36B	*	PND	SIN	II		
1ZH37B	*	PND	SIN	II		
1ZH42A	*	PND	SIN	II		
AS-2		COU		XXI		
D2A		REC		XI	DG-TS9*+	
D2B		REC		XI	DG-TS10*+	14341-69
D2D		REC		XI	DG-TS2*+	14341-69
D2G		REC		XI	DG-TS1*+	14341-69
D2I	*	REC		XI		14341-69
D2K		REC		XI	DG-TS6*+	
D2M		REC		XI	DG-TS7*+	
D2N		REC		XI	DG-TS15*+	
D2P		REC		XI	DG-TS16*+	
D2R		REC		XI		
D2V		REC		XI	DG-TS8+	14341-69
D2YE		REC		XI	DG-TS4*+	14341-69
D2ZH		REC		XI	DG-TS5*+	14341-69
DG-S2		MIX		XIV		
DG-TS2		REC		XI	D2D+	
DI-2-10		DIO	SIN		2D1S+	
DKHG-2	*	GE		XI-F		
DKHG-2M	*	GE		XI-F		
DKHG-2S	*	GE		XI-F		
DK-I2M	*	MIX		XIV		
DK-S2M	*	MIX		XIV		
DK-V2	*	DET		XIV		
DL-S2		MIX				
DSH2-10		DIO	SIN		2D2S+	
F-2	*	PHO		XVI		
FD-2		PHC		XV		
FEU-2	*	PHM		XVI		
FEU-2B		PHM		XVI		
FEU-2B1V		PHM		XVI		
FEU-2M		PHM		XVI		
FEU-2V		PHM		XVI		
FS-2A		PHC		XV		
FS-B2		PHC		XV		
FS-K2		PHC		XV		
FSA-G2				XV		
FSK-G2				XV		
GE-2		TET	SIN	III	GKE-150=	
GMI-2B		TET	SIN	III		
GS-2B		TRI	SIN	III		
GU-2		BEA	SIN	II		
GUZH-2		BEA	SIN		G807+, 807$	
GZH2		PND	SIN		G413+	
I-2-50/1.5		TRI	IGN	IV		
I2-70/0.8	*	TRI	IGN	IV		15480-70
I2-140/0.8	*	TRI	IGN	IV		15481-70
I2-200/1.5	*	TET	IGN	IV		15482-70
I2-350/0.8	*	TRI	IGN	IV		15482-70
IN-2	*			XXIII-A		
KF-2		BEA	TWN		GU-32+, 832-A$	
KS-2		TRI	SIN		GU-4+	
KZH-2		BEA	SIN		G-807+, 807$	
MTI-2		TRI	THY		TGI-200+	
OG-2		DEC		XXIII		
P2A				X		
P2B				X	0C821=	
PT-2		TRI	THY		TG-213*	
R-2				XXII		
R-2M				XXII		
RB-2				XXII		
S2A				X		
S2B				X		
S2G				X		
S2V				X		
SF2-1				XV		
SF-2-2				XV		
SF-2-4				XV		
SF-2-5	*	CDS		XV		
SF-2-8	*	CDS		XV		
SF-2-9				XV		
SF-2-12				XV		
SF-2-16	*	CDS		XV		
SG2P		DIO	SIN	V	0B2$	13283-67
SG2S		DIO	SIN	V	0A3$	
SI-2B		COU		XXI		
SI-2BG		COU		XXI		
SK2-5.6/2000		REG		XIII		
SK2-6.8/2000		REG		XIII		
SK2-8.2/2000		REG		XIII		
SK2-10/1000		REG		XIII		
SK2-12/1000		REG		XIII		
SK2-15/1000		REG		XIII		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
SK2-18/700	REG		XIII		
SK2-22/300	REG		XIII		
SK2-24/300	REG		XIII		
SK2-28/300	REG		XIII		
SK2-30/300	REG		XIII		
SK2-36/300	REG		XIII		
SK2-43/300	REG		XIII		
SK2-51/200	REG		XIII		
SK2-62/200	REG		XIII		
SK2-75/100	REG		XIII		
SK2-91/100	REG		XIII		
SK2-110/100	REG		XIII		
SK2-120/100	REG		XIII		
SK2-150/100	REG		XIII		
SK2-180/100	REG		XIII		
SK2-220/50	REG		XIII		
SK2-270/50	REG		XIII		
SK2-300/50	REG		XIII		
ST-2-26			XIX		
ST2S	BAL	TWN	VI		7162-70
STS-2	COU		XXI		
STSV-2A	PHO			F-2+	
TG2-01/01	TRI	THY	VII	1050$	
TG2-0.5/12	TRI	THY	VII		
TG-2.5/5	TRI	THY	VII	VT-1	
TGI-2.5/3	TRI	THY		TG1-2.5/4*+	
TGI-2.5/10	TET				
TGI-2-260/12	TRI	THY	VII		
TGI-2-32516	TRI	THY	VII		
TGI-2-400/16*	THY	TRI	VII		
TGI-2-40035	TRI	THY	VII		
TKH-2	TRI	THY	VII		
TKI-2	TMS	MEA	XIX		
TO-2	PND	SIN		10P12S+	
TP-2/0.5	REG		XIX		
TP-2/2	REG		XIX		
TSH-2	TMS	MEA	XIX		
TV-2	THM		XVIII		
TVB-2	THM		XVIII		
VD2	DIO	SIN		V1-2/40+	
VI-2-27/35	DIO	SIN	IV		
VI-2-70/32	DIO	SIN	IV		
VI-2-100/50	DIO	SIN	IV		
2A1	PTG	SIN	II	S0242*+ 2A1M	
2A1M	PTG	SIN		S0242*+	
2A3	TRI	SIN		2S4S+, 2A3$	
2A201A			XIV		
2A202A			XIV		
2D1L	DWD	SIN	II		
2D1S □	DIO	SIN	II	DI-2-10+	
2D2S *	DIO	SIN	II	DSH2-10+	17099-71
2D3B *	DIO	SIN	II		
2D3S	DIO	SIN	II		
2D7S *	DIO	SIN	II		
2D9S □	DIO	SIN	II		
2D21	TET	THY		TG3-0.1/1.3+, 2D21$	
2D503A	SI			KD503A+	
2D503B	SI			KD503A+	
2DA181	DET		XA		
2DA351 *	AMP		X-A		
2DS191	LIM		XA		
K2DS241 *	DET		X-A		
2DS351 *	DET		X-A		
2E1	TET	SIN	II		
2E2	TET	SIN	II	UB155+	
2E2P *	TET	TWN	II		
2F2M	TRI	SIN			
2FP201	FIL		XA		
2GF181	MVB		XA		
2GF182	MVB		XA		
2GF201	MVB		XA		
2GS191	OSC		XA		
2GS192	OSC		XA		
2GS193	OSC		XA		
K2GS371 *	REG		X-A		
2ID231			XA		
2IL071			XA		
2IL072			XA		
2IL073			XA		
2IL231			XA		
2IL401B *	HAD		X-A		
2IL401V *	HAD		X-A		
2IR111			XA		
2IR112			XA		
2IR161 *			X-A		
2IR162 *			X-A		
2IR401A *	BRG		X-A		
2IR401B *	BRG		X-A		
2IR402A *	BRG		X-A		
2IR402B *	BRG		X-A		
2IR403A *	BRG		X-A		
2IR403B *	BRG		X-A		
2IS401A *	HAD		X-A		
2IS401B *	HAD		X-A		
2IYE111			XA		
2IYE112			XA		
2IYE161 *	COU		X-A		
2IYE162 *	COU		X-A		
2IYE231			XA		
2IYE401A *	COU		X-A		
2IYE401B *	COU		X-A		
2J55	MAG		IX		
2K1	PND		II	2K1M+	
2K1M	PND	SIN	II	2K1*, SB241*	
2K2	PND	SIN		2K2M*	
2K2M	PND	SIN	II	1E5G$, 2K2*, S0241*	
2KD281	SWI		XA		
2KD282	SWI		XA		
2KD351 *	COM		X-A		
2KH1	DWD	SIN		2KH1L+	
2KH1L *	DWD	SIN	II	2KH1*	
2KH2	DIO	SIN		2VD8A+, 2TS2S+, 2X2$	
K2KT241 *	COM		X-A		
2KT281	SWI		XA		
2LB011	NND		XA		
2LB012	NOR		XA		
2LB013	NOR		XA		
2LB014	NND		XA		
2LB015	NND		XA		
2LB016	NOR		XA		
2LB017	NOR		XA		
2LB041	NDR		XA		
2LB042	NND		XA		
2LB051	NOR		XA		
2LB052	NOR		XA		
2LB053	NOR		XA		
2LB071	NOR		XA		
2LB072	NOR		XA		
2LB073	NOR		XA		
2LB074	NOR		XA		
2LB075	NOR		XA		
2LB076	NOR		XA		
2LB111	NND		XA		
2LB112	NND		XA		
2LB113	NND		XA		
2LB114	NND		XA		
2LB115	NND		XA		
2LB116	NND		XA		
2LB117	NND		XA		
2LB118	NND		XA		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
2LB119		NND		XA		
2LB1110		NOR		XA		
2LB1111		NOR		XA		
2LB1112		NOR		XA		
2LB161	*	NOR		X-A		
2LB162	*	NOR		X-A		
2LB163	*	NOR		X-A		
2LB164	*	NOR		X-A		
2LB165	*	NOR		X-A		
2LB166	*	NOR		X-A		
2LB167	*	NOR		X-A		
2LB168	*	NOR		X-A		
2LB169	*	NOR		X-A		
2LB1610	*	NOR		X-A		
2LB1611	*	NOR		X-A		
2LB1612	*	NOR		X-A		
2LB171		NND		XA		
2LB171B	*	NND		X-A		
2LB172		NND		XA		
2LB172B	*	NND		X-A		
2LB173		NND		XA		
2LB173A	*	NND		X-A		
2LB174A	*	NOR		X-A		
2LB174B	*	NOR		X-A		
2LB1B1				XA		
2LB211				XA		
2LB231		ORD		XA		
2LB232B	*	NOR		X-A		
2LB401A	*	NND		X-A		
2LB401B	*	NND		X-A		
2LB401V	*	NND		X-A		
2LB402	*	NND		X-A		
2LB403A	*	NND		X-A		
2LB403B	*	NND		X-A		
2LB403V	*	NND		X-A		
2LB404A	*	NND		X-A		
2LB404B	*	NND		X-A		
2LB404V	*	NND		X-A		
2LB405	*	NND		X-A		
2LB406A	*	NND		X-A		
2LB406B	*	NND		X-A		
2LB406V	*	NND		X-A		
2LI041				XA		
2LL231				XA		
2LN021	*			X-A		
2LN022	*			X-A		
2LN051		NND		XA		
2LN052		NND		XA		
2LN111		NND		XA		
2LN112		NND		XA		
2LN113		NND		XA		
2LN114		NND		XA		
2LN115		NND		XA		
2LN116		NND		XA		
2LN151		NND		XA		
2LN161	*	NOR		X-A		
2LN162	*	NOR		X-A		
2LN163	*	NOR		X-A		
2LN164	*	NOR		X-A		
2LN165	*	NOR		X-A		
2LN166	*	NOR		X-A		
2LN181		INV		XA		
2LN1B2		INV		XA		
2LN183		INV		XA		
2LN211		NOR		XA		
2LP021	*	DIO		X-A		
2LP022	*	DIO		X-A		
2LP171		EXP		XA		
2LP172		EXP		XA		
2LP173		EXP		XA		
2LP401	*	EXP		X-A		
2LR171		ANR		XA		
2LR221		ANR		XA		
2LS011		ADR		XA		
2LS021		ADR		XA		
2LS022		ADR		XA		
2LS023		ADR		XA		
2LS024		ADR		XA		
2LS025		ADR		XA		
2LS026		ADR		XA		
2LS027		ADR		XA		
2LS02B		ADR		XA		
2LS151		ADR		XA		
2LS152		ADR		XA		
2LS211				XA		
2MP351	*	MOD		X-A		
2MS191				XA		
2MS192				XA		
2N1		TRI	DUO	II	1J6GT$, 2N1M*, SB243, S0243	
2N1M		TRI	DUO		2N1+, SB243+, S0243+	
2ND021				XA		
2ND022				XA		
2NE281				XA		
2NK041				XA		
2NK051				XA		
2NK281				XA		
2NS191A				XA		
2NS191B				XA		
2NT011				XA		
2NT012				XA		
2NT013				XA		
2NT171				XA		
2NT172				XA		
2NT173				XA		
2NT191				XA		
2P1		BEA	SIN	II	SB244+, S0244+	
2P1M		BEA	SIN		2P1P+, SB244	
2P1P		BEA	SIN	II	DL94=, 2P1M, 3S4$	8005-66
2P2		BEA	SIN	II	3S4$	
2P2P	*	BEA	SIN	II	DL92=, 3S4$	9947-66
2P3		BEA	SIN	II	SB25B+, 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		
2PD2B1	*	CN		X-A		
2PD2B2	*	CN		X-A		
2PM351	*	AMP		X-A		
2PN151	*			X-A		
2PN152	*			X-A		
2PN381	*	AGC		X-A		
K2PP241	*	REG		X-A		
2PP351	*	AGC		X-A		
2PS351	*	CN		X-A		
2S1		TRI	SIN	II	UB152+	
2S2		TRI	SIN	II	UB240+	
2S3		TRI	SIN		2S4S+, 2A3$	
2S3A	*	TRI	SIN	II		
2S3M		TRI	SIN		2S2+	
2S4S	*	TRI	SIN	II	2A3$	
2S14B	*	TRI	SIN	II		
2S22		TRI	SIN		6S8S+, 2C22$	
2S49D	*	TRI	SIN	II		
2S-156A		REG	SI	XIII		
2S-168A		REG	SI	XIII		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
2S920AhPk		REG	SI	XIII		
2S930AhPk		REG	SI	XIII		
2S950AhPk		REG	SI	XIII		
2S980AhPk		REG	SI	XIII		
2SV381	*	AMP		X-A		
2T301					KT301+	
2T301A					KT301A+	
2T301B					KT301B+	
2T301D					KT301D+	
2T301G					KT301G+	
2T301V					KT301V+	
2T301YE					KT301YE+	
2T301ZH					KT301ZH+	
2TK041				XA		
2TK171A				XA		
2TK171B	*	FLP		X-A		
2TK181				XA		
2TM-20		TRI	TWN	III		
2TM-100		TRI	TWN	III		
2TR071				XA		
2TR072				XA		
2TR073				XA		
2TR111		NOR		XA		
2TR112		NOR		XA		
2TR113		NOR		XA		
2TR114		NOR		XA		
2TR115		NOR		XA		
2TR116		NOR		XA		
2TR161	*	FLP		X-A		
2TR162	*	FLP		X-A		
2TR163	*	FLP		X-A		
2TR164	*	FLP		X-A		
2TR165	*	FLP		X-A		
2TR166	*	FLP		X-A		
2TR171A				XA		
2TR171B	*			X-A		
2TR172				XA		
2TR211		FLP		XA		
2TR231				XA		
2TS2S	*	DIO	SIN	II	2X2$	8527-65
2TS051	*	FLP		X-A		
K2TS241	*	FLP		X-A		
2U-101A		SCR			KU101A+	
2U-101B		SCR			KU101B+	
2U-101D		SCR				
2U-101G		SCR			KU101G+	
2U-101V		SCR				
2U-101YE		SCR			KU101YE+	
K2UB241	*	AMP		X-A		
2UE181	*	EMF		X-A		
2UE182	*	EMF		X-A		
2UI021		AMP		XA		
2UI071		AMP		XA		
2UI111		AMP		XA		
2UI151		AMP		XA		
2UI181		AMP		XA		
2UI182		AMP		XA		
2UI183		AMP		XA		
2UN021	*			X-A		
2UN022	*			X-A		
2UP161	*	AMP		X-A		
K2UP241	*	MIX		X-A		
2US181		AMP		XA		
2US191A		AMP		XA		
2US191B		AMP		XA		
2US192		AMP		XA		
2US193		AMP		XA		
2US194		AMP		XA		
2US201		AMP		XA		
2US202				XA		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
K2US241	*	AMP		X-A		
K2US242	*	AMP		X-A		
K2US243	*	AMP		X-A		
K2US244	*	LFA		X-A		
K2US245	*	LFA		X-A		
K2US246	*	AMP		X-A		
K2US247	*	LFA		X-A		
K2US248	*	LFA		X-A		
K2US249	*	LFA		X-A		
2US281		AMP		XA		
2US282		AMP		XA		
2US283		AMP		XA		
2US284		AMP		XA		
2US285		AMP		XA		
2US351	*	AMP		X-A		
2US352	*	AMP		X-A		
2US353	*	AGC		X-A		
2US354	*	LFA		X-A		
2US355	*	LFA		X-A		
2US356	*	AMP		X-A		
2US357	*	AGC		X-A		
K2US371	*	LFA		X-A		
K2US372	*	LFA		X-A		
K2US373	*	AMP		X-A		
2US381	*	CON		X-A		
2US382	*	AMP		X-A		
2UYE181		AMP		XA		
2V6		DIO	ARC	IV		
2V12		DIO	ARC	IV		
2V20		DIO	ARC	IV		
2VD8		DIO	SIN	II		
2VN12		DIO	ARC	IV		
2VN20		DIO	ARC	IV		
2ZH1M		PND	SIN	II	SB245+	
2ZH2B		PND	SIN			
2ZH2M		PND	SIN	II		
2ZH4		PND	SIN	II	S0257+	
2ZH15B	*	PND	SIN	II		
2ZH27		PND	SIN		2ZH27L+	
2ZH27L	*	PND	SIN	II	2ZH27+	
2ZH27P	*	PND	SIN	II		
2ZH28L		PND	SIN	II		
K2ZHA241	*	MIX		X-A		
K2ZHA242	*	MIX		X-A		
K2ZHA243	*	AGC		X-A		
K2ZHA244	*	AMP		X-A		
K2ZHA371	*	CN		X-A		
K2ZHA372	*	DET		X-A		
K2ZHA373	*	AMP		X-A		
D3A		DET		XIV		
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	2C26A$	
GI-3/100		TRI	SIN		GI-3+	
GK3A		TRI	SIN	III		
GM3P		TRI	SIN	III		
GMI-3		TET	SIN	III		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
GS-3B		TET	SIN	III		
GU-3		BEA	SIN	III		
GUZH-3		BEA	SIN		G1625+, 1625$	
KF-3		BEA	SIN		GU-13+, 813$	
KZH-3		BEA	SIN		G-1625+, 1625$	
LI3		IC		VIII-A		
LIM-3		LAM		XXIV		
MD3	*			XI		
MS3		TRI	SIN		GM57+, UB180=, M457+	
OG-3	*	DEC		XXIII		
P3A				X		
P3B				X		
P3V				X		
PIM-3		IC		VIII		
PT-3		TRI	THY		TG-235*+	
R-3				XXII		
RB-3				XXII		15630-70
S3A				X		
S3B				X		
S3D				X		
S3G				X		
S3V				X		
S3YE				X		
SBT-3		COU		XXI		
SF3-1				XV		
SF-3-5	*	CDS		XV		
SF-3-8	*			XV		
SG3P		REG		V		
SG3S		DIO	SIN	V	OC3$	
SI-3B		COU			MST-18+	
SI-3BG		COU		XXI		
SNM-3		COU		XXI		
ST3P		DIO	SIN	VI		
ST3-17		TMS	MEA	XIX		
ST3-18				XIX		
ST3-19		TMS	MEA	XIX		
ST-3-21				XIX		
ST-3-22				XIX		
ST3-23		TMS	COM	XIX		
ST-3-24				XIX		
ST3-25		TMS	MEA	XIX		
ST-3-26				XIX		
STS-3		COU		XXI		
STSV-3	*	PHO		XVI		
TG3-0.1/1.3		TET	THY	VII	2D21$	13875-68
TG3-2.5/10		TRI	THY	VII		
TKH3B		TET	THY	VII		
TKI-3		TMS	MEA	XIX		
TO-3		PND	SIN		7ZH12S+	
TSG-3	*	PHO		XVI		
TSV-3		PHO		XVI		
TVB-3		THM		XVIII		
VDI-3D		DIO	SIN		VI-1-30/25+	
VT-3		TRI	THY		TR1-5/2*+	
3A4S		PND	SIN	II		
3B4S		BEA	SIN	II		
3D6A-V*		DIO	SIN	II		
3E29		BEA	TWN		GI-30+, 3E29$	
3I-301A		TUN			AI301A	
3I-301B		TUN			AI301B	
3I-301G		TUN			AI301G	
3I-301V		TUN			AI301V	
3J21		MAG		IX		
3LK1B	*	TV		VIII		
3L01-I*				VIII		
3S1		TRI	SIN	II	TO-141+	
3S2		TRI	SIN	II	TO-142+	
3S6B-V*		TRI	SIN	II		
3S7B-V*		TRI	SIN	II		
3S9		TRI	SIN	II		
3TS16S	□	DIO		II	3A3$, 3B2$	
3TS18P*		DIO	SIN	II		10372-67
3TS22S*		DIO	SIN	II	GY501=	
3V30		DIO	ARC	IV		
3VN30		DIO	ARC	IV		
3VN60		DIO	ARC	IV		
3VN100		DIO	ARC	IV		
3VP1		OS			8L029+, 3BP1A$	
3ZH1BV*		PND	SIN	II		
3ZH2BV*		PND	SIN	II		
DG-S4		MIX		XIV		
DG-TS4		REC		XI	D2YE*+	
DK-S4		MIX		XIV		
DK-V4	*	DET		XIV		
DL-S4		MIX				
EM-4	*	TRI	SIN	II	1E3P+	
F-4	*	PHO		XVI		
FEU-4	*	PHM		XV1		
FS-A4		PHC		XV		
FS-K4		PHC		XV		
GI-4A		TRI	SIN	III		
GKV-4		TRI	SIN		GU-4+	
GMI-4B		TET	SIN	III		
GS-4		TRI	SIN	III		
GS-4		COU		XXI		
GS-4B		TRI	SIN		G431A+	
GS4D		TRI	SIN	III		
GU4		TRI	SIN	III		
GU4A		TRI	SIN	III		
IN-4	*			XXIII-A		
KMT-4	*	TMS		XIX		10688-63
KS-4		TRI	SIN		GU-150+	
LIM-4		LAM		XXIV		
LN-4	*	ST		V111		
LP-4	*	COM		VII		
MMT-4	*	TMS		XIX		10688-63
MS-4		COU		XXI		
MSTR-4		COU		XXI		
MTI-4		TRI	THY		TGI-1-90/8+	
OG-4		DEC		XXIII		
P4					2N68$	
P4AE	*			X		
P4BE	*			X		
P4DE	*			X		
P4GE	*			X		
P4L				X		
P4VE	*			X		
PIM-4		IC		VIII		
R-4				XXII		
S4A				X		
S4B				X		
S4G				X		
S4V				X		
SBS-4		COU		XXI		
SF-4-1		PHC		XV		
SG4S		DIO	SIN	V	OD3$	
SI-4BG		COU		XXI		
SI-4G		COU			VS-9T+	
ST-4-15		TMS		XIX		
STSV-4	*	PHO		XVI		
TGI-4		TRI	THY		TGI-1-130/10+	
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+	

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
4D5S		DIO	SIN	II		
4D17P		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+, SO259+	
4P1		PND	SIN	II		
4P1L	*	PND	SIN	II		
4P2		PND	SIN			
4P6L		PND	SIN			
4P10S		PND	SIN	II		
4S1		TRI	SIN	II	UB107+	
4S2		TRI	SIN	II	UB110+	
4S3		TRI	SIN	II		
4S3S		TRI	SIN	II		
4S4		TRI	SIN	II		
4S5		TRI	SIN	II	SO-1B5+	
4TS1M		DIO	SIN		4TS6S+	
4TS6S	□	DIO	SIN	II		
4TS14S	□	DIO	SIN	II		
4VD1		DIO	SIN	II		
4VKH1		DIO	TWN	II	VO-18B*+	
4VKH2		DIO	SIN	II	VO-18B*+	
4ZH1L	*	PND	SIN	II		
4ZH1P		PND	SIN	II		
4ZH4		PND	SIN		SO124+	
4ZH5		TET	SIN	II	4ZH5S+	
4ZH5S		PND	SIN	II		
DG-TS5		REC		XI	D2ZH*+	
DK-S5		MIX		XIV		
DK-V5M	*	DET		XIV		
EM-5	*	TET	DBA	11		
F-5	*	PHO		XVI		
FEU-5	*	PHM		XV1		
FEU-R5		PHM		XVI		
FS-K5		PHC		XV		
G-5		TRI	SIN		M39+	
G-5A		TRI	SIN		GU5A+	
G-5RA		TRI	SIN		GU-5B+	
GI-5B		TRI	SIN	III		
GK5A		TRI	SIN	III		
GMI-5		TET	SIN	III		
GP-5	*	TRI	SIN	II		
GS-5B		TRI	SIN		G433A+	
GSH-5		NOI		IX		
GU5A		TRI	SIN	III		12402-66
GU5B		TRI	SIN	III		12403-66
GUO-5		TRI	SIN		G120+	
LN5	*	ST		VIII		
LP-5	*	COM		VII		
MMT-5		TMS	MEA	XIX		
MTI-5		TRI	THY		TGI-1-32516+	
OG-5		DEC		XXIII		
P5A				X		
P5B				X	2N107$	
P5D				X	CK727$	
P5G				X	2N65$	
P5V				X		
P5YE				X		
R-5	*			XXII		15632-70
RB-5	*			XXII		15631-70
RB-5A				XXII		
SBS-5		COU		XXI		
SG5B		DIO	SIN	V		
SG5B-V		REG			SG5B+	
SGS-5		COU		XXI		
SNM-5		COU		XXI		
SNMU-5	*	COU		XXI		
STS-5		COU		XXI		
TG5R	*	TET	THY	VII		
TKH-5A		TRI	THY	VII		
TKH-5B		TRI	THY	VII		
TV-5		THM		XVIII		
TVB-5		THM		XVIII		
UV-5		TWT		IX		
VG-5		POW		XII		
5L01B		OS			5L03B+, 2AP1$	
5L038I	*	OS		VIII	2AP1$	17797-72
5SR1		OS			5CP1A$	
5SR7		OS			5CP7A$	
5TS3S	*	DWD	SIN	II	5U4G$	8360-66
5TS4		DIO	DUO		5TS4S+, 5Z4G$	
5TS4M	*	DIO	DUO	II	5Z4$	
5TS4S	*	DIO	DUO	II	5Z4$	8079-67
5TSBS	□	DWD	SIN	II		8361-66
5TS9S	□	DWD	SIN	II	1502+	8362-66
5TS9SE		DWD	SIN			
5TS12P	*	DIO	SIN	II		
5VKH1		DWD	SIN		5Z4G$	
5VKH2		DWD	SIN	II	5U4G$	
5VKH3		DWD	SIN	II	5Y3G$	
D6		REG		XIII		
DG-TS6		REC		XI	D2K+	
DK-V6		DET		XIV		
EM-6	*	TET	DBA	11		
F-6		PHO		XVI		
FS-A6		PHC		XV		
FS-D6		PHC		XV		
FS-K6		PHC		XV		
GI-6B		TRI	SIN	III	LD6	
GK6A		TRI	SIN			
GMI-6		BEA	TWN	III		
GS6		TRI	SIN	III		
GS-6		COU		XXI		
GSH-6		NOI		IX		
IN-6	*	IND		XXIII-A		17821-72
LD-6		TRI	SIN		GI-6B+	
LI6		IC		VIII-A		
LP-6	*	COM		V11		
MMT-6		TMS		XIX		
MS-6		COU		XXI		
P6A				X		
P6B				X	0C821=	
P6D				X	0C812=	
P6G				X		
P6V				X	0C814=	
R6				XXII		
SG6S				II		
SGS-6		COU		XXI		
STS-6		COU		XXI		
STSV-6		PHO		XVI	F-4+	
TKH-6G		HEX		VII		
TP-6/2		REG		XIX		
TSV-6		PHO		XVI	F-5+	
TVB-6		THM		XVIII		
UV-6		TWT		IX		
VS-6		COU		XXI		
6A1B		PTG	SIN		6SA7$	
6A2P	*	PTG	SIN	II	6BE6$, EK90=	8354-66
6A3P	□	GTB	SIN	II	6BN6$	
6A4P	*	PTG	DBA	II		
6A5B		PTG	SIN		6L7$	
6A6A		DIO				
6A7	*	PTG	SIN	II	6SA7$	8086-67
6AB	□	PTG	SIN	II	6A8B+, 6A8$	8367-67
6A8B		PTG	SIN		6A8$	

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
6A8M	PTG	SIN		6A8S*+	
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	II		
6B8M	PND	DWD		6B8S+, 6B8G$	
6B8S	PND	DWD	II	6B8G$, 6B8M*	8369-57
6BKH1	DIO	DUO		6KH5S+	
6DIA	DIO	SIN		6D6A*, 5704$	
6D1ZH	DIO	SIN		6D4ZH*, 9004$	
6D3D □	DIO	SIN	II	559$	
6D4ZH □	DIO	SIN	II	9004$	
6D6A *	DIO	SIN	II	5704$, *6DIA+	
6D8D □	DIO	SIN	II		
6D10D □	DIO		II		
6DI3D *	DIO	SIN	II		
6D14P *	DIO	SIN	II		
6DI5D	DIO	SIN	II		
6D16D	DIO	SIN	II		
6D20P *	DIO	SIN	II	EY88=, 6AL3$	13848-68
6D22S	DIO	SIN	II		
6E5P *	TET	SIN	II		
6E6P *	TET	SIN	II		
6E6P-YE*	BEA	SIN	II	E71I9+	I4206-69
6E7P *	TET	SIN	II		
6E12N *	TET	SIN	II	7587$	
6EI3N *	TET	SIN	II		
6EI4N *	TET	SIN	II		
6F1P *	PND	TRI	II	EF80=, 6U8$, 6BL8$	12399-66
6F3P *	TRI	PND	II	6BM8$	13394-72
6F4P *	PND	TRI	II	6DX8$	14608-69
6F5	TRI	SIN		6S4B+, 6F5$	
6F5B	TRI	SIN		6S4B+, 6F5$	
6F5M	TRI	SIN	II	6F5GT$, 6S4+	8372-57
6F5P *	TRI	PND	II	6GV8$	17224-71
6F5S	TRI	SIN	II		
6F6	PND	SIN		6P6B+, 6F6$	
6F6MI	PND	SIN	II		
6F6S	PND	SIN	II	6F6-GT$	8082-67
6F7	PND	TRI	II		
6F9P *	PND	TRI	II		
6F12P	PND	TRI	11		17346-71
6G1 □	TRI	DWD	II	6SR7$	
6G2 *	TRI	DWD	II	6SQ7$	8370-65
6G2P-K	TRI	DWD	II		
6G2S	TRI	DWD		6SQ7G$	
6G3P	TRD	TRI	II		
6G3S	TRI	DWD		6AK5$	
6G7 *	TRI	DWD	II	6Q7=	837I-65
6I1P *	PTG	TRI	II	ECH81=, 6AJ8$	9948-66
6I3P	PTG	TRI	II		
6I4P	PTG	TRI		6V9$, ECH200=	
6II4P	PTG	TRI	II	ECH81=, 6I1P+	
6KIB *	PND	SIN	II	5702$	
6K1L	PND	SIN	II		
6K1P	PND	SIN	II	9003$	
6K1ZH	PND	SIN	II	956$	
6K2P	PND	SIN		6K4P+	
6K3 *	PND	SIN	II	6SK7$	8084-67
6K4 *	PND	SIN	II	6SG7$	8083-67
6K4P *	PND	SIN	II	EF93=, 6BA6$	8352-66
6K6A *	PND	SIN	II		
6K7	PND	SIN	II	6K7S*, 6K7G$, 6K9S+	8363-66
6K7S	PND	SIN		6K9S+, 6K7G$ 6K7	
6K8B	PND	SIN	II		
6K8P	PND	SIN	II	6ES6$	
6K9S	PND	SIN	II	6K7G$, 6SK7$	
6KI1B-K	PND	SIN	II	6K1B+	
6K12	PND	SIN		6EH7$	
6KI3P *	PND	SIN	II	6EH7$, EF183=	
6KI4B	PND	SIN	II		
6K14B-V	PND	SIN	II		
6K15B *	PND	SIN	II		
6K16B *	PND	SIN	II		
6K17B	PND	SIN		6SK7$	
6K19B	PND	SIN		9003$	
6K19P	PND	SIN		6K1P+, 9003$	
6KH1ZH	DIO	SIN		6D4ZH+, 9004$	
6KH2P *	DIO	TWN	II	EAA91=, 6AL5$	8348-66
6KH4P	DWD	SIN		6TS4P+	
6KH5	DWD	SIN		6VKH1+, 6X5GT$	
6KH5S	DWD	SIN		6VKH1+, 6X5GT$	
6KH6	DIO	TWN		6KH6B+, 6H6$	
6KH6B	DIO	TWN	II	6H6-G$	
6KH6M	DIO	TWN		6KH6S+, 6H6G$	
6KH6S *	DIO	TWN	II	6H6-G$	8080-67
6KH7B *	DIO	TWN	II		
6L1P *	HPT	SIN	II		
6L7 □	PTG	SIN	II	6L7$	
6LKIA	ELM		VIII		
6LK1B *	ELM		VIII		
6LK3B *	TV		VIII		
6L01I *	ELS		VIII		
6MKH1B *	DIO	TWN	IV-A		
6MKH1S *	DIO	TWN	IV-A		
6MKH2B *	DIO	TWN	IV-A		
6MKH3S *	DIO	TWN	IV-A		
6MKH4S *	DIO	TWN	IV-A		
6MKH5S *	DIO	TWN	IV-A		
6MUKH6P *	DIO	TWN	IV-A		
6N1P *	TRI	TWN	II	6BK7$	8355-66
6N2P *	TRI	TWN	II	ECC83=, 6AX7$	8356-66
6N3P *	TRI	TWN	II	ECH42=, 2C51$	8357-66
6N4P	TRI	TWN	II	12AY7$	
6N5P □	TRI	TWN	II		13892-68
6N5S *	TRI	TWN	II	6AS7G$	
6N6	DIO	TWN		6KH6B+, 6H6$	
6N6P *	TRI	TWN	II		16754-71
6N7	TRI	TWN	II	6N7$, 6N7S+	
6N7S *	TRI	TWN	II	6N7-GT$	8374-66
6N8	TRI	TWN		6N8S+, 6SN7GT$	
6N8M	TRI	TWN		6N8S+, 6SN7GT$	
6N8S *	TRI	TWN	II	6SN7-GT$	
6N9	TRI	TWN		6N9S+, 6SL7GT$	
6N9M	TRI	TWN		6N9S+, 6SL7GT$	
6N9S *	TRI	TWN	II	6SL7GT$	
6N10	TRI	TWN		6NI0S+, 6SC7GT$	
6N10M	TRI	TWN		6NI0S+, 6SC7GT$	
6NI0S	TRI	TWN	II	6SC7GT$	
6N11	TRI	TWN		6N5S+, 6AS7G$	
6N12S *	TRI	TWN	II	6DN7$, 5687$	
6N13S *	TRI	TWN	II	6080$, 6AS7$	8378-66
6NI4P *	TRI	TWN	II	ECC84=, 6CW7$	10880-66
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		
6N21B *	TRI	TWN	II		
6N23P *	TRI	TWN	II	ECC88=, 6DJ8$	15078-69
6N24P *	TRI	DUO	II	ECC89=, 6FC7$	15531-70
6N25G *	TET	TWN	II		
6N26P *	TRI	TWN	II		
6N27P *	TRI	TWN	II	ECC86=, 6GM8$	
6N28B	TRI	TWN	II		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
6N28B-V	TRI	TWN	II		
6P1P *	BEA	SIN	II	EL90=. 6AQ5$	8358-66
6P2	BEA	SIN		6P6S+. 6V6GT$	
6P2P	PND	SIN	II		
6P3	BEA	SIN		6P3S+. 6L6G$	
6P3B	BEA	SIN		6P3S+. 6L6G$	
6P3S *	BEA	SIN	II	6L6G$	8376-66
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$	8375-66
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$	8377-66
6P9E	BEA	SIN	II	6AK7$	
6P13S *	BEA	SIN	II		
6P14P *	BEA	SIN	II	EL84=. 6BQ5$	10066-66
+ 6P15P *	BEA	SIN	II	EL83=.6CK6$	10879-66
6P17S	BEA	SIN	II	6DY5$	
6P18P *	BEA	SIN	II	6BQ6$. EL82	
6P20S *	BEA	SIN	II	6CB5$. 6CD6$	
6P21S *	BEA	SIN	II		
6P23P *	BEA	SIN	III		
6P23S *	BEA	SIN	II		
6P25B *	PND	SIN	II		
6P27S *	BEA	SIN	II	6CA7$	
6P30B *	PND	SIN	II		
6P31S *	BEA	SIN	II	EL36=.6CM5	
6P33P *	PND	SIN	II	6CW5$.EL86	
6P34S *	PND	SIN	II		
6P35GV*	PND	SIN	II		
6P36S *	BEA	SIN	II	6GB5$	13883-68
6P37N *	PND	SIN	11		
6P38P *	PND	SIN	II		
6P39S *	PND	SIN	II	E55L=.8233$	
6P41S *	BEA	SIN	II		17618-72
6P42S *	BEA	SIN	11		
6R1B	TRI	DWD		6G1+. 6SR7$	
6R2P	BEA	DUO	II		
6R3S	BEA	DUO	II		
6R7	TRI	DWD		6G7+. 6Q7$	
6R7B	TRI	DWD		6G7+. 6Q7$	
6R17B	TRI	DWD		6G2+. 6SQ7$	
6S1B	TRI	SIN		6S6B+. 5703$	
6S1P	TRI	SIN	II	9002$	
6S1ZH	TRI	SIN	II	4671$. 955$	
6S2	TRI	SIN		6J5-GT$	
6S2B *	TRI	SIN	II	6S7B+. 5744$	
6S2P *	TRI	SIN	II	6J4$	8353-67
6S2S *	TRI	SIN	II	6J5-GT$	8081-67
6S3B *	TRI	SIN	II	6K4A$	
6S3P *	TRI	SIN	II		
6S4	TRI	SIN		6F5$	
6S4B	TRI	SIN	II	6F5$	
6S4P *	TRI	SIN	II	6B4$	
6S4S	TRI	SIN	II	6B4-G$	8373-66
6S5	TRI	SIN	II	6S5S+. 6C5GT$. 6J5GT$	
6S5B	TRI	SIN		6C5-GT$	
6S5D *	TRI	SIN	II	TM1*+. 2C40$	
6S5S *	TRI	SIN	II	6C5-GT$. 6J5GT. 6S5$	8368-57
6S6B *	TRI	SIN	II	5703$	
6S7B *	TRI	SIN	II	5744$	
6S8P *	TRI	SIN		6S1P+. 9002$	
6S8S	TRI	SIN	II	2C22$	
6S9D *	TRI	SIN	II		
6S10D	TRI	SIN	II		
6S11D	TRI	SIN	II		
6S13D *	TRI	SIN	II		
6S15P *	TRI	SIN	II		
6S16D *	TRI	SIN	II		
6S17K *	TRI	SIN	II		
6S18S *	TRI	SIN	II		
6S19P *	TRI	SIN	II		12841-67
6S20S *	TRI	SIN	II	6BD4$	
6S21D *	TRI	SIN	II		
6S25B	TRI	SIN	II		
6S26B *	TRI	SIN	II	6S6B+	
6S27B *	TRI	SIN	II	6S7B+	
6S28B-V*	TRI	SIN	II		
6S29B-V*	TRI	SIN	II		
6S30B	TRI	SIN	II		
6S31B *	TRI	SIN	II		
6S32B *	TRI	SIN	II		
6S33B *	TRI	SIN	II		
6S33S *	TRI	SIN	II		
6S34A-V*	TRI	SIN	II		
6S35A-V*	TRI	SIN	II		
6S36K *	TRI	SIN	II		
6S37B *	TRI	SIN	II		
6S39S	TRI	SIN	II		
6S40P *	TRI	SIN	II		
6S41S *	TRI	SIN	11		
6S44D *	TRI	SIN	II		
6S45K	TRI	SIN	II		
6S45P-YE	TRI	SIN	11		
6S46G *	TRI	SIN	II		
6S47S *	TRI	SIN	II		
6S48D	TRI	SIN	11		
6S50D *	TRI	SIN	11		
6S51N *	TRI	SIN	II	7586$	
6S52N *	TRI	SIN	II	7895$.6CW4$	
6S53N *	TRI	SIN	II	8058$	
6S56P *	TRI	SIN	II		
6S58P *	TRI	SIN	II		
6S59P *	TRI	SIN	II		
6S62N *	TRI	SIN	II		17484-72
6SK7	PND	TRI	II		
6TS4P *	DWD	SIN	II	6X4$	8347-66
6TS4S	DIO	SIN	II		
6TS5S *	DWD	SIN	II	6X5GT$	8528-66
6TS10P*	DIO	SIN	II	6B3$	
6TS13P*	DIO	SIN	II		
6TS15S	DIO	TWN	II		
6TS17S	DIO	SIN	II	6BL4$.6X5$.6AU4$	
6TS19P*	DIO	SIN	II		
6V1P *	PND	SIN	II		
6V2P *	PND	SIN	II		
6V3S	PND	SIN	II		
6VKH1	DWD	SIN	II		
6YE1P *	TRI	SIN	II	EM80=. 6BR5$	10881-66
6YE2P	TRI	SIN	II		
6YE3P	TRI	SIN	II	EM84=.6FG6$	
6YE5	TRI	SIN		6YE5S+	
6YE5S *	TRI	SIN	II	6YE5*. 6E5$	8379-66
6ZH1B *	PND	SIN	II	5702$	
6ZH1L	PND	SIN	II		
6ZH1P *	PND	SIN	II	6AK5$.EF95=	8349-66
6ZH1P-E	PND	SIN		6ZH1P.E7112+.5654$	
6ZH1ZH*	PND	SIN	II	954$	
6ZH2B *	PND	SIN	II	5784$. 5639$	
6ZH2M	PND	SIN	II	1851$	
6ZH2P *	PND	SIN	II	6ZH2P-E. E7113+. 6AS6$	11317-65
6ZH2P-E	PND	SIN		6ZH2P.E7113+.5725$	
6ZH3 *	PND	SIN	II	6SH7$	8085-67
6ZH3M	PND	SIN	II	6AB7/1853$	
6ZH3P *	PND	SIN	II	6AG5$. EF96=	8350-66

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
6ZH4	* PND	SIN	II	6AC7$, 6AB7$	B364-66
6ZH4B	PND	SIN		6AG7$	
6ZH4E	PND	SIN	II	6AB7$, 6AC7$	
6ZH4P	* PND	SIN	II	6AU6$, EF94=	1239B-66
6ZH5	TRI	SIN		6J5$	
6ZH5A	PND	SIN	II		
6ZH5B	* PND	SIN	II		
6ZH5P	* BEA	SIN	II	6AH6$	8351-72
6ZH6M	PND	SIN		6J7$	
6ZH6P	PND	SIN		6J7$	
6ZH6S	* PND	SIN	II	Z62=	
6ZH7	* PND	SIN	II	6J7	8365-66
6ZH7B	PND	SIN		6W7G$	
6ZH8	* PND	SIN	II	6SJ7$	B366-67
6ZH8S	PND	SIN	II		
6ZH9B	PND	SIN	II		
6ZH9G	* PND	SIN	11		
6ZH9P	* PND	SIN	II	E180F=,66BB$	11702-66
6ZH9P-E	PND	SIN		6ZH9P,E7114+	17636-72
6ZH10B	* PND	SIN	II		
6ZH10P	* PND	SIN	II		12842-67
6ZH11B	PND	SIN		6SH7$	
6ZH11P	* PND	SIN	II	6BQ5$	
6ZH11P-E	PND	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		II		
6ZH31BK	* PND	SIN	II	EF95=	
6ZH32B	* PND	SIN	II		
6ZH32P	* PND	SIN	II	EF96=,6267$	14072-68
6ZH33AV	* PND	SIN	II		
6ZH35BV	* PND	SIN	II		
6ZH3BP	* PND	SIN	II	EF184=,6EJ7$	14207-69
6ZH39G-V	PND	SIN	11		
6ZH40P	PND	SIN	II	6ET6$	
6ZH43P	PND	SIN	II		
6ZH44P	PND	SCG	11		
6ZH45BV	PND	SIN	II		
6ZH49P	PND	SIN	11		
6ZH50P	* PND	SIN	II		
6ZH51P	* PND	SIN	II		
6ZH52P	* PND	SIN	11		17344-71
6ZH53P	* PND	SIN	11		17345-71
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	DGTS26	
D7ZH	* REC		XI	DG-TS27*+	
DG-TS7	REC		XI	D2M+	
DK-S7	MIX		XIV		
DK-S7M	* MIX		XIV		
DK-V7M	* DET		XIV		
EM-7	* TRI	SIN	II		
F-7	* PHO		XV1		
FS-K7	PHC		XV		
FSK-7A	PHC		XV		
FSK-7B	PHC		XV		
FSK-G7	PHC		XV		
GI-7B	TRI	SIN	III	LD7	
GMI-7	TET	SIN	III		
GS-7	COU		XXI		
GS-7	TRI	SIN		GK-3000+	

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
GS-7A	TRI	SIN	III		
GS-7B	TRI	SIN	III		
IN-7	*		XXIII-A		
IN-7A	*		XXIII-A		
IN-7B	*		XXIII-A		
K-7	* SI	1	XI-F		
K-7M	* SI		XI-F		
K-7S	* SI		XI-F		
KS-7	TRI	SIN		G-811+, 811-A$	
LD-7	TRI	SIN		GI-7B+	
LI7	* IC		VIII-A		
LK7M	*		VIII		
LN-7	* ST		V111		
LP-7	COM		V11		
MS-7	COU		XXI		
P7			X		
R-7			XXII		
SAT-7	COU		XXI		
SBM-7	COU		XXI		
SBT-7	COU		XXI		
SG7S	DIO	SIN	V		
SNM-7	COU		XXI		
TKH-7G			VII		
TVB-7	THM		XVIII		
UV-7	TWT		IX		
7L01M	* OS		VIII		
7L055I	* OS		VIII	3MP1$	
7P12S □	PND	SIN	II	329A	
7ZH12S	* PND	SIN	II	328A$	
D8	REG		XIII		
DG-TS8	REC		XI	D2V+	
DK-V8	VID	SI	XIV		
EM-8	* PND	SIN	11		
F-8	* PHO		XVI		
FS-K8	PHC		XV		
GI-B	PND	SIN	III		
GS-B	COU		XXI		
GS-BB	TET	SIN	III		
GUB	TRI	SIN	III		7711-55
IN-8	*		XXIII-A		
IN-8-2	*		XXIII-A		
KMT-8	* TMS		XIX		10688-63
LN-8	* ST		V111		
MMT-8	* TMS		XIX		10688-63
MS-8	COU		XXI		
P8			X		
P8A				P8+	
R-B			XXII		
SAT-B	COU		XXI		
SBM-8	COU		XXI		
SBT-8	COU		XXI		
SG8S	DIO	SIN	V		
SNM-8	COU		XXI		
STS-8	COU		XXI		
T8D	TMS		XIX		
TBE	TMS		XIX		
T8M	TMS		XIX		
T8R	TMS		XIX		
T8S1	TMS		XIX		
T8S1M	TMS		XIX		
TBS2	TMS		XIX		
TBS2M	TMS		XIX		
T8S3	TMS		XIX		
T8S3M	TMS		XIX		
TG8/3	TRI	THY		TG1-2.5/4+	
TKH-BG	HEX		VII		
TVB-8	THM		XVIII		
VS-B	COU		XXI		
8LK2B	* TV		V111		
BLM3V	* OS		VIII		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
8L02B		OS			8L029+ 3BP1A$	
8L03I	*	OS		V111		
8L04I	*	OS		V111		
8L029I	*	OS		VIII	3BP1$	17798-72
8L029M					8L029I+	
8L030I	*	OS		VIII	3DP1$	
8L030M					8L030I+	
8L039V	*	OS		VIII	3JP7$	
D9A		REC		XI		
D9B	*	REC		XI		14342-69
D9D	*	REC		XI		14342-69
D9G	*	REC		XI		14342-69
D9I	*	REC		XI		14342-69
D9K	*	REC		XI		14342-69
D9L	*	REC		XI		14342-69
D9M		GEP		XI		
D9V	*	REC		XI		14342-69
D9YE	*	REC		XI		14342-69
D9ZH	*	REC		XI		14342-69
DG-TS9		REC		XI	D2A+	
EM-9	*	TET	TWN	II		
F-9	*	PHO		XV1		
G-9		TRI	SIN		GU65+	
GK9P		TRI	SIN	III		
GS-9		COU		XXI		
GS9B		TRI	SIN	III		
LD-9		TRI	SIN		GS-9B+	
LN9	*	ST		VIII		
MMT-9	*	TMS		XIX		106B8-63
MS-9		COU		XXI		
P9				X	2N35$	
P9A				X		
R-9				XXII		
SBT-9		COU		XXI		
SG9S		DIO	SIN	V		
SI-9A	*	COU		XXI		
SI-9BG		COU		XXI		
SNM-9		COU		XXI		
T9		TMS		XIX		
TKH-9G				VII		
TVB-9		THM		XVIII		
VS-9		COU		XXI		
VS-9T		COU		XXI		
D10	*	REC		XI		
D10A	*	REC		XI		
D10B	*	REC		XI		
DGTS10		REC		XI	D2B+	
F-10	*	PHO		XV1		
G10		TRI	SIN	III		
G-10A		TRI	SIN		GU-10A+	
G-10RA		TRI	SIN		GU-10B+	
GK10P		TRI	SIN	III		
GKO-10		TRI	SIN		GK-2000+	
GS-10		COU		XXI		
GSH-10		NOI		IX		
GT-10		TRI	SIN		G46+	
GU10A		TRI	SIN	III		12B43-67
GU10B		TRI	SIN	III		
ISK10				XX		
ISP10				XX		
IST10				XX		
KMT-10		TMS		XIX		
MO-10		TRI	SIN	III		
P10				X	2N35$	
P10A		GAP		X		
P10B		GAP		X		
R-10				XXII		
SBT-10		COU		XXI		
SG10S		REG		V		
SI-10BG		COU		XXI		
SI10N	*	COU		XXI		
SNM-10	*	COU		XXI		
TCH-10	*	TRI		XII-B		
T0-10		PND	SIN		10P12S	
TS-10	*	TRI		XII-B		
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		
VKU-10-0.25		SCR	SI4	XII-A		
VKU-10-0.5		SCR	SI4	XII-A		
VKU-10-0.75		SCR	SI4	XII-A		
VKU-10-1.0		SCR	SI4	XII-A		
VKU-10-1.5		SCR	SI4	XII-A		
VKU-10-2.0		SCR	SI4	XII-A		
VKU-10-2.5		SCR	SI4	XII-A		
VKU-10-3.0		SCR	SI4	XII-A		
10LK2B	*	PR		VIII		
10LK3B	*	TV		V111		
10L02I	*	OD		V111		
10L043I	*	OD		VIII		
10P12S	*	PND	SIN	II	312A	
10ZH1L	*	PND	SIN	II	10ZH3L+	
10ZH3L	*	PND	SIN	II	10ZH1L+	
10ZH3P		PND	SIN			
10ZH12S	*	PND	SIN	II	310A$	
D11	*	REC		XI		
DK-V11		VID	SI	XIV		
FEU-11	*	PHM		XVI		
GI-11B		TRI	SIN	III	LD-11	
GK11A	*	TET	SIN	III		
GS-11		COU		XXI		
GSH-11		NOI		IX		
GU11A		TRI	SIN	III		
GU11B		TRI	SIN	III		
IN-11	*			XXIII-A		
KMT-11		TMS		XIX		
LD11		TRI	SIN		GI-11B+	
MS-11		COU		XXI		
P11				X	2N94$	
P11A		GAP		X		
R-11				XXII		
SI-11BG		COU		XXI		
SI-11N	*	COU		XXI		
SNM-11	*	COU		XXI		
TKH-11G		TET		VII		
VS-11		COU		XXI		
11LK1B	*			VIII		
11LM2G	*	DT		V111		
11LM3G	*	DT		V111		
11L01I	*	OS		VIII		
D12	*	REC		XI		
D12A	*	REC		XI		
DGTS12		REC		XI		
FEU-12		PHM		XVI		
FEU-12A	*	PHM		XVI		
GI-12B		TRI	SIN	III	LD-12	
GS-12		COU		XXI		
GU12A		TRI	SIN	III	880$	
IN-12A	*			XXIII-A		
IN-12B	*			XXIII-A		
K-12		KLO		IX		
KIU12		KLA		IX		
KMT-12		TMS		XIX		
LD12		TRI	SIN		GI-12B$	
MI-12		MAG		IX		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
MMT–12		TMS	XIX		
MS–12		COU	XXI		
0S12/500	*	PND SIN		G837=	
P12			X	2N112$	
P12A		GAP	X		
R–12			XXII		
SI–12BG		COU	XXI		
SNM–12	*	COU	XXI		
TKH–12G			VII		
12B1M		PND DWD	II		
1282M		PND DWD	II		
12G1		TRI DWD	II	12SR7$	
12G2	□	TRI DWD	II	12SQ7$	
12K1M		PND SIN	II		
12K3		PND SIN	II	12SK7$	
12K4	*	PND SIN	II		
12K12B		PND SIN		12SG7$	
12K17B		PND SIN		12SK7$	
12KH3S	□	DWD SIN	II	LG1	
12LN1	*	SO	VIII		
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 SIN	II	12A6$	
12P14S		BEA SIN	II		
12P17L	*	PND SIN	II		
12R1B		TRI DWD		12G1+, 12SR7$	
12R17B		TRI DWD		12G2+, 12SQ7$	
12S2		TRI SIN	II		
12S3S	*	TRI SIN	II	LD1+	
12S42S	*	TRI SIN	II		
12ZH1		PND SIN		12ZH1L+	
12ZH1L	*	PND SIN	II	12ZH1	
12ZH1M		PND SIN	II		
12ZH3L	*	PND SIN	II		
12ZH8	□	PND SIN	II	12SJ7$	
12ZH8B		PND SIN		12SJ7$	
12ZH17B		PND SIN		12SJ7$	
D13	*	REC	XI		
DGTS13		REC	XI		
FEU–13	*	PHM	XVI		
G–13		TRI SIN	III		
GI–13		TRI SIN	III		
GI–13B		TRI SIN	III		
GM13		TET SIN	III		
GU13		BEA SIN	III	813$	
LI13		IM	VIII–A		
MMT–13	*	TMS	XIX		10688–63
MS–13		COU	XXI		
P13			X	2N43$	
P13A			X	2N34$	
P13B			X		
SG13P		DIO SIN	V	0A2$	
SI–13G		COU	XXI		
SNM–13	*	COU	XXI		
TKH–13			VII		
UV–13		TWT	IX		
V13/30		DIO SIN		V0–1	
VS–13		COU	XXI		
13LK1B	*	TV	VIII	5FP4$	
13LK2B	*	TV	VIII		
13LK3B	*	TV	V111		
13LK6B	*	TV	V111		
13LK7B	*	TV	V111		
13LK8A	*	PT	V111		
13LM4V	*	OS	VIII		
13LM6V	*	RA	V111		
13LM7V	*	RA	V111		
13LM31M	*	OS	VIII	5FP7$	
13LM31V		OS		13LM31M+	
13LM56I	*	OS	VIII	5FP1$	
13LM57	*	OS	VIII	5FP7$	
13LM57D		OS		13LM57+	
13LM58K	*	OS	VIII		
13LN2	*	ST	V111		
13LN6	*	OD	VIII		
13L01B			VIII		
13L02B			VIII	5CP1–A*$	
13L03I	*	OS	VIII		
13L04I		OS	VIII		
13L05P			VIII	5CP7–A$	
13L06I			VIII	5FP7–A$	
13L07V	*	OD	V111		
13L09I	*	OS	V111		
13L036		OS		5FP7$, L0736+, 13L036V+	
13L036V	*	OS	VIII		
13L037A	*	OS	VIII	5CP7$	
13L037I		OS		5CP1$, L0737+	
13L037M		OS			
13L048V	*	OD	VIII	L0748+	
13L048I		OD		5SP1$	
13L048M		OD			
13L054A	*	OS	VIII	L0754	
13L054M		OS			
13L054V		OS			
13L0101M	*		VIII		
13L0102M	*		VIII		
13L0104A	*	TV	VIII		
13P1		BEA SIN		13P1M+, 13P1S+	
13P1M		BEA SIN		13P1+, 13P1S+	
13P1S	□	BEA SIN	II	13P1+, 13P1M+	
13ZH41S	*	PND SIN	II		
D14	*	REC	XI		
D14A	*	REC	XI		
DGTS14		REC	XI		
FEU–14		PHM	XVI		
FEU–14A	*	PHM	XVI		
GI–14B		TRI SIN	III	LD–14	
IN–14	*		XXIII–A		
K–14	*	SI	XI–F		
KMT–14		TMS	XIX		
LI14		IM	VIII–A		
MI–14		MAG	IX		
MP14B	*		X		
MS–14		COU	XXI		
P14			X	2N65$	
P14A			X		
SG14P		REG AH	V		
SNM–14	*	COU	XXI		
TV–14		THM	XVIII		
UV–14		TWT	IX		
VS–14		COU	XXI		
D15		REC	XI		
DGTS15		REC	XI	D2N+	
FEU–15	*	PHM	XVI		
FEU–15A	*	PHM	XVI		
FEU–15B	*	PHM	XVI		
G–15A		TRI SIN		GU–11A+	
G–15RA		TRI SIN		GU–16B+	
GDO–15		TRI SIN		G–61+	
GS–158		TET SIN	III		
GU15		BEA SIN	III		
IFK15–1			XX		
IN–15A	*		XXIII–A		
IN–15B	*		XXIII–A		
ISSH15			XX		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
K-15		KLO		IX		
KIU15		KLA		IX		
LI15	*	IM		VIII-A		
MI-15		MAG		IX		
P15				X	2N43$, 0C604=	
P15A		GAP		X		
SG15P		DIO	SIN	V		
SG15P1		DIO	SIN	V	SG15P+	
SG15P2	*	REG		V		14783-68
SNM-15	*	COU		XXI		
TG-15/3		TRI	THY		TG1-5/3+	
TR-15/2		TRI	THY		TR-1-5/2+	
TV-15		THM		XVIII		
VG15/5000		DIO	SIN		GG1-0.5/5+	
15A6S		PND	SIN	II		
D16		REC		XI		
D16A		REC		XI		
DGTS16		REC		XI	D2P+	
FEU-16	*	PHM		XVI		
FEU-16A	*	PHM		XVI		
GI-16B		TET	SIN	III		
GU16B		TRI	SIN	III		
LG-16		DIO	SIN		2D2S+	
MI-16		MAG		IX		
MS-16		COU		XXI		
P16	*			X	2N55$, 0C604=	
P16A				X		
P16B				X		
SG16P		DIO	SIN	V	0C2$	
SNM-16	*	COU		XXI		
TV-16		THM		XVIII		
VS-16		COU		XXI		
16F3P	*	PND	TRI	II		
16LK1B				VIII		
16LM1G	*	RA		V111		
16L02I	*	OD		V111		
16L03I	*	OS		V111		
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*	
GS17B	*	TET	SIN	III		
GU-17		BEA	TWN	III	6360$	
KMT-17	*	TMS		XIX		
LI17	*	IM		VIII-A		
MST-17		COU		XXI		
P17				X		
P17A				X		
P17B				X		
SG17S		DIO	SIN	V		
SNM-17	*	COU		XXI		
D18	*	GEP		XI		
FEU-1B		PHM		XVI		
FEU-18A	*	PHM		XVI		
GI-18B		TRI	SIN	III		
GS-18		TRI	SIN		GK-2000+	
GU-18		BEA	TWN	III		
LI1B	*	VID		VIII-A		
MST-18		COU		XXI		
P1B				X		
P1BA				X		
P1BB				X		
R-18				XXII		
SG18S		DIO	SIN	V		
SNM-18	*	COU		XXI		
18LK1B		TV		VIII		
18LK2B		TV		VIII	7QP4$	
18LK3V				VIII		
18LK4B		TV		VIII		
18LK5B	*	TV		VIII		
18LK7B		TV		VIII		
1BLK9A	*	PT		V111		
18LK11B	*	TV		V111		
18LK12B	*	TV		V111		
18LK13L	*	TV		V111		
1BLK14T	*	ELS		VIII		
18LK15		TV		VIII		
18LK17L	*	ELM	ELM	VIII		
18LM3S	*	RA		V111		
1BLM35		OS			78P7A$,18LM35V+	
1BLM35V	*	OS		VIII	7BP7$	
18L01A				VIII		
1BL01P					78P7A$	
1BL040B		TV		VIII	7JP4$, LK740+	
18L047A	*	OD		VIII		
18L047V		OD			18L047A+	
D19		GEP		XI		
D19A		GEP		XI		
D198		GEP		XI		
FEU-19A	*	PHM		XVI		
FEU-19M	*	PHM		XVI		
GI-19B		TRI	SIN	III		
GU-19		BEA	TWN	III		
P19				X		
SG19S		DIO	SIN	V		
SI-19BG	*	COU		XXI		
SI-19G		COU		XXI		
19LK4B		TV		VIII		
D20	*	GEP		XI		
FEU-20	*	PHM		XVI		
GK20		TRI	SIN	III		
I-20/1.5		TRI	IGN	IV		
I-20/1500		DIO	IGN	IV		
IFK20				XX		
M-20/35		TRI	SIN		GM-1A+	
MO20		TRI	SIN	III		
MP20	*			X		
MP20A	*			X		14073-6B
MP20B	*			X		14073-68
MP20V	*			X		
SG20G		DIO	SIN	V		
SI-20G		COU		XXI		
SNM-20	*	COU		XXI		
QV20-P18		TET	SIN		GMI-83=	
T-20BFL		COU		XXI		
TD-20	*	TRI		XII-B		
TKP-20		TMS	POW	XIX		
TR-20/15		TRI	THY		TR-1-6/15+	
V20/20		DIO	SIN		V1-0.02/20+	
VKU-20-0.25		SCR	SI4	XII-A		
VKU-20-0.5		SCR	SI4	XII-A		
VKU-20-0.75		SCR	SI4	XII-A		
VKU-20-1.0		SCR	SI4	XII-A		
VKU-20-1.5		SCR	SI4	XII-A		
VKU-20-2.0		SCR	SI4	XII-A		
VKU-20-2.5		SCR	SI4	XII-A		
VKU-20-3.0		SCR	SI4	XII-A		
20LM1YE	*			VIII		
D21				X1		
DGTS21		REC		XI	D7A+	
GI-21B		TRI	SIN	III		
GU21B		TRI	SIN	III		
P21				X		
P21A				X		
P21B				X		
P21D	*			X		14073-6B
P21G	*			X		14073-6B
P21V	*			X		14073-6B

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
P21YE	*		X		14073-6B
R-21			XX11		
SG21B	*	REG	V		
SI-21G		COU	XXI		
STI-21	*	TMS	XIX		
DGTS22		REC	XI	D7B+	
FEU-22		PHM	XVI		
GI-22		TRI SIN	III		
GU22A		TRI SIN	III		10030-71
LI22	*	IM	VIII-A		
P22			X		
SI-22G		COU	XXI		
22L01A	*	OS	V111		
DGTS23		REC	XI	D7V+	
FEU-23		PHM	XVI		
GS23B	*	TET SIN	III		
GU23A		TRI SIN	III		10031-68
GU-23B		TRI SIN	III		
LI23	*	VID	VIII-A		
P23			X		
P23A					
23LK1B		TV	VIII	9CP4$	
23LK2B		TV	VIII		
23LK5B	*	TV	V111		
23LK6I	*	PT	V111		
23LK7B	*	TV	VIII		
23LKBB	*	TV	VIII		
23LK9B	*	TV	VIII		
23LK13B	*	TV	VIII		
23LK41I	*	TV	V111		
23LM3S	*	RA	V111		
23LM34		OS		9GP7$.23LM34V+	
23LM34V	*	OS	VIII		
23L01P		OS		9GP7$	
23L051A	*	OS	VIII		
DGTS24		REC	XI	D7G+	
FEU-24	*	PHM	XVI		
GI-24A		TRI SIN	III		
GU24A			III		
R-24			XX11		
DGTS25		REC	XI	D7D+	
EVU-25/1.0		IGN HG	1V		
FEU-25	*	PHM	XVI		
GI-25		TRI SIN	III		
GU25B		TRI SIN	III		
ISK25			XX		
MP25	*		X		14B30-69
MP25A	*		X		14830-69
MP25B	*		X		14830-69
T-25BFL		COU	XXI		
TCH-25	*	TRI	XII-B		
TD-25	*	TRI	XII-B		
VKDU25	*	SCR SI4	XII-A		
25LM1V	*	RA	V111		
25P1		BEA SIN	II	25L6$	
25P1S		BEA SIN	II	25L6$	
DGTS26		REC	XI	D7E+	
FEU-26	*	PHM	XVI		
GU26A		TRI SIN	III		
GU26B		TRI SIN	III		
K-26		KLO	IX		
MP26	*		X		14830-69
MP26A	*		X		14B30-69
MP26B	*		X		14830-69
26L02A	*	PT	VIII		
DGTS27		REC	XI	D7ZH+	
FEU-27	*	PHM	XVI		
GU27A		TET SIN	III		14626-69
GU27B		TET SIN	III	827-R$	

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
P27	*		X		
P27A	*		X		
FEU-28	*	PHM	XV1		
GSH-28		NOI	IX		
GU2BA		TET SIN	III		
GU28B		TET SIN	III		
M2B		TRI SIN	III		
P28	*		X		
FEU-29	*	PHM	XVI		
G29		TRI SIN	III		
GSH-29		NOI	IX		
GU29	*	BEA TWN	III	B29-B$	9B39-6B
K-29		KLO	IX		
P29	*		X		
P29A	*		X		
FEU-30	*	PHM	XV1		
GDO-30		TRI SIN		GS-3B+	
GI-30		BEA TWN	III	3E29$	
GMI-30		TRI SIN	III	6C21$	
GS-30		COU	XXI		
GU30A		TRI SIN	III		
K-30		KLO	IX		
M-30/450		TRI SIN		GMI-30+	
P30	*		X		
SNM-30	*	COU	XXI		
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*	807B-67
30VD1		DIO SIN	II	30TS1M+	
30VKH1		DIO SIN	II	30TS6S+	
FEU-31	*	PHM	XVI		
GU31		TET SIN	III		
K-31		KLO	IX		
P31			X		
P31A			X		
SNM-31	*	COU	XXI		
31LK1B		TV	VIII		
31LK2B	*	TV	VIII	12LP4$	
31LM32		OS		12DP7A$.31LM32V+	
31LM32V	*	OS	VIII		
31L01P			VIII	12DP7$	
31L033		OS		12GP7$.31L033V+	
31L033V	*	OS	VIII		
FEU-32	*	PHM	XVI		
G32		TRI SIN	III		
GU32		BEA TWN	III	832$	9B3B-6B
K-32		KLO	IX		
P32			X		
SNM-32	*	COU	XXI		
FEU-33	*	PHM	XVI		
GU33B		TET SIN	III		16095-70
K-33		KLO	IX		
FEU-34		PHM	XVI		
GU34B		TET SIN	III		16096-70
K-34		KLO	IX		
FEU-35	*	PHM	XVI		
GU-35B		TET SIN	III		
K-35		KLO	IX		
MP35	*		X		14831-69
35LK1B	*	ELS ELM	VIII		
35LK2B	*	TV	VIII		BB15-58
35LK4B	*	TV	V111		
35LK6B	*	TV	VIII		
FEU-36	*	PHM	XVI		
G36		TRI SIN	III		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
GK36		TRI	SIN		GK-20+	
GU-36B		TET	SIN	III		
MP36A	*			X		14831-69
FEU-37	*	PHM		XVI		
GU-37B	*	TRI	SIN	III		
MP37	*			X		I4831-69
MP37A	*			X		I4831-69
MP37B	*			X		1483I-69
P37A					MP37A+	
P37B					MP27B+	
FEU-38	*	PHM		XVI		
MP38	*			X		1483I-69
MP38A	*			X		14B31-69
FEU-39	*	PHM		XVI		
FEU-39A	*	PHM		XVI		
GU-39A		TET	SIN	III		I0746-67
GU-39B		TET	SIN	III		1I260-65
GU39P		TET	SIN	III		
M39		TRI	SIN	III		
MP39	*			X		14948-69
MP39B	*			X		I4948-69
FEU-40		NSP		XVI		
GU-40B		TET	SIN	III		16802-71
MP40	*			X		14948-69
MP40A	*			X		I4948-69
P40B				X		
T-40BFL		COU		XXI		
TD-40	*	TRI		XII-B		
V40/I00		DIO	SIN		VI-0.I/40+	
40LK1B	*	TV		VIII	16AP4$	
40LK4TS	*	TV		VIII		
K-41		KLO		IX		
MP41	*			X		I4948-69
MP41A	*			X		14948-69
FEU-42		NSP		XVI		
K-42		KLO		IX		
MP42	*			X		I4947-69
MP42A	*			X		14947-69
MP42B	*			X		14947-69
42LM2YE	*			VIII		
FEU-43		NSP		XVI		
GU43B		TET	SIN	III		
43LK2B	*	TV		VIII		
43LK3B	*	TV		VIII		
43LK6B		TV		VIII		
43LK7B		TV		VIII		
43LK8B	*	TV		VIII		
43LK9B	*	TV		VIII		
43LK11B	*	TV		VIII		
FEU-44		NSP		XVI		
FEU-45		NSP		XVI		
45LM1B	*			VIII		
45LM2U	*	RA		VIII		
45LM3N	*	RA		VIII		
FEU-46		NSP		XVI		
G46		TRI	SIN	III		
FEU-47		NSP		XVI		
G47		TRI	SIN	III		
SB-47		PND	SIN	II		
47LK1B		TV		VIII		
47LK2B	*	ELS		VIII		I4854-69
FEU-48		NSP		XVI		
GU48	*	TRI	SIN	III	B33A$	
K-48		KLO		IX		
FEU-49	*	PHM		XVI		
G-49		TRI	SIN		GS-4+	
EVU-50/1.0		IGN	HG	IV		
FEU-50	*	PHM		XV1		
GD-50		TRI	SIN		G-46+	
GU50	*	PND	SIN	III	LS50=	12407-66
I-50/1.5		TRI	IGN	IV		
I-50/1500		DIO	IGN	IV		
IFK50				XX		
LS50		PND	SIN		GU50=	
M50		TRI	SIN	III		
T-50BFL		COU		XXI		
TCH-50	*	TRI		XII-B		
TKP-50A		TMS	POW	XIX		
TKP-50B		TMS	POW	XIX		
VG-50		POW		XII		
VK-50		POW		XII		
VKDU50	*	SCR	SI4	XII-A		
VKU-50-0.25		SCR	SI4	XII-A		
VKU-50-0.5		SCR	SI4	XII-A		
VKU-50-0.75		SCR	SI4	XII-A		
VKU-50-1.0		SCR	SI4	XII-A		
VKU-50-I.5		SCR	SI4	XII-A		
VKU-50-2.0		SCR	SI4	XII-A		
VKU-50-2.5		SCR	SI4	XII-A		
VKU-50-3.0		SCR	SI4	XII-A		
50LKIB	*	TV		VIII		
FEU-51	*	PHM		XVI		
GM5IA		TRI	SIN	III		
MI-51		MAG		IX		
SB-51		PND	SIN	II		
STSV51	*	PHO		XVI		
51LS1	*	CH		VIII		
FEU-52	*	PHM		XVI		
MI-52		MAG		IX		
FEU-53	*	PHM		XVI		
M53		TRI	SIN	III		
MI-53		MAG		IX		
53LK2B	*	TV		VIII		
53LK3B		TV		VIII		
53LK4TS	*	TV		VIII		
53LK5B		TV		VIII		
53LK6B		TV		VIII		
FEU-54	*	PHM		XV1		
G-54		TRI	SIN		GS-6+	
MI-54		MAG		IX		
R-54				XXII		
FEU-55	*	PHM		XV1		
FEU-56	*	PHM		XVI		
G-56		TRI	SIN		G29+	
GM57		TRI	SIN	III	MS50*+, M457+, UB180=	
M57		TRI	SIN	III		
S0-57		PND	SIN	II		
FEU-58	*	PHM		XV1		
G-5B		TRI	SIN		GK-3000+	
FEU-59	*	PHM		XV1		
59LKIB		TV		VIII		
59LK2B		ELS		VIII		14855-69
FEU-60		PHM		XV1		
GM60		TRI	SIN	III	M600*+	
GS-60		COU		XXI		
T-60BFL		COU		XXI		
G61		TRI	SIN	III		
GU61B	*	TET	SIN	III		
GU61P		TET	SIN	III		
6ILKIB	*	ELM	ELM	VIII		
FEU-62	*	PHM		XVI		
G62		TRI	SIN	III		
GU62P		TRI	SIN	III		
M62		MAG		IX		
FEU-63	*	PHM		XVI		
TD-63	*	TRI		XII-B		
FEU-64	*	PHM		XV1		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
G-64		TRI	SIN		GS-3B+	
FEU-65	*	PHM		XVI		
G65		TRI	SIN	III		
GU65A	*	TRI	SIN	III		
65LK1B				VIII		
GU66P		TRI	SIN	111		
FEU-67	*	PHM		XV1		
FEU-68	*	PHM		XVI		
G6B		TRI	SIN	III		
GU6BA	*	TRI	SIN	III		
FEU-69	*	PHM		XVI		
GI-70B		TRI	SIN	III	LD-70	
FEU-70	*			XVI		
GM-70		TRI	SIN	III		
GM70B		TRI	SIN	III		
GU70B	*	TRI	SIN	III		
ISP70				XX		
LD70		TRI	SIN		GI-70B+	
V70/1000		DIO	SIN		V1-0.3/70+	
GK71		PND	SIN	III	G471+, 471A*	
GU71B	*	PND	SIN	III		
GU72		PND	SIN	III		
GU73B	*	TET	SIN	III		
FEU-74	*	PHM		XVI		
GU74B	*	TET	SIN	III		
M74		TRI	SIN	III		
FEU-75	*	PHM		XVI		
GU75A	*	TET	SIN	III		
75S5-30		DIO	SIN		SG2S+, 0A3$	
GI-76B		TRI	SIN	III		
FEU-77	*	PHM		XVI		
FEU-80	*	PHM		XVI		
GUB0		PND	SIN	III	0S450=, P800*+	12404-66
MB0		TRI	SIN	III		
T-80BFL		COU		XXI		
TD-80	*	TRI		XII-B		
FEU-81	*			XVI		
GU81		PND	SIN	III		13048-67
M81	*	MAG		IX		
FEU-82	*			XVI		
GMI-B3		TET	SIN	III	QV20-P18=,5D21$	
FEU-B5	*	PHM		XVI		
GBB		TRI	SIN	III		
V0-BB		DIO	TWN		4VKH1+	
GMI-B9		TET	SIN	III	G-4B9*+	
GUB9A		TRI	SIN	III	889A$	
GU89B		TRI	SIN	III	889R-A$	
M89		TRI	SIN	III		
GMI-90		TET	SIN	III	G-490*+	
GS90B		TRI	SIN	III	LD-90	
LD-90		TRI	SIN		GS-90B+	
MTKH90		TRI	THY	VII		
RB-90				XXII		
TGI-90/B		TRI	THY		TGI-1-90/B+	
G91		TRI	SIN	III		
G-92		TRI	SIN		GK-2000+	
K-92A		KLO		IX		
K-92B		KLO		IX		
K-92G		KLO		IX		
K-92V		KLO		IX		
FEU-93	*	PHM		XVI		
MI-95		MAG		IX		
FEU-97	*	PHM		XVI		
L-99		PTG	SIN		6A2P+, 6BE6$	
EVU-100/1 0		IGN	HG	1V		
G-100		TRI	SIN		G-29+	
G-100A		TRI	SIN		GK-3A+	
GD-100		TRI	SIN		G-47+	
GKE100		TET	SIN	III	GE-1=	
GM100		TRI	SIN	III		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
I-100/1.0	*	TRI	IGN	IV		
I-100/5.0	*	TRI	IGN	IV		
I-100/1000		DIO	IGN	IV		
I-100/5000		DIO	IGN	IV		
ISSH100-1				XX		
ISSH100-3				XX		
L100		PND	DIO		6B2P*	
TCH100	*	TRI		XII-B		
TD-100	*	TRI		XII-B		
VG-100		POW		XII		
VK-100		POW		XII		
VKDU100	*	SCR	SI4	XII-A		
VKU100-0.25		SCR	SI4	XII-A		
VKU100-0.5		SCR	SI4	XII-A		
VKU100-0.75		SCR	SI4	XII-A		
VKU100-1.0		SCR	SI4	XII-A		
VKU100-1.5		SCR	SI4	XII-A		
VKU100-2.0		SCR	SI4	XII-A		
VKU100-2 5		SCR	SI4	XII-A		
VKU100-3.0		SCR	SI4	XII-A		
VKUV-100-0.25		SCR	SI4	XII-A		
VKUV-100-0.5		SCR	SI4	XII-A		
VKUV-100-0.75		SCR	SI4	XII-A		
VKUV-100-1.0		SCR	SI4	XII-A		
VKUV-100-1.5		SCR	SI4	XII-A		
VKUV-100-2.0		SCR	SI4	XII-A		
VKUV-100-2.5		SCR	SI4	XII-A		
VKUV-100-3.0		SCR	SI4	XII-A		
A101		DEC		XX111		
AI-101A	*	TUN		XI-B		
AI-101B	*	TUN		XI-B		
AI-101D	*	TUN		XI-B		
AI-101G	*	TUN		XI-B		
AI-101I	*	TUN		XI-B		
AI-101V	*	TUN		XI-B		
AI-101YE	*	TUN		XI-B		
AI-101ZH	*	TUN		XI-B		
D101	*	REC		XI		
D101A	*	REC		XI		
KL101A	*	LED	SCD	XI-E		
KL101B	*	LED	SCD	XI-E		
KL101V	*	LED	SCD	XI-E		
KP101[illegible]	*			X		
KP101G	*			X		
KP101YE	*			X		
KU101A	*	SCR	TRI	XII-B		
KU101B	*	SCR	TRI	XII-B		
KU101G	*	SCR	TRI	XII-B		
KU101YE	*	SCR	TRI	XII-B		
KV101A	*	VAR	SID	XI-D		
LI101	*	IC		VIII-A		
P101				X		
P101A				X		
P101B				X		
A102	*	DEC		XXIII		
AL102A	*	LED	GPE	XI-E		
AL102B	*	LED	GPE	XI-E		
AL102V	*	LED	GPE	XI-E		
D102	*	REC		XI		
D102A	*	REC		XI		
KD102A	*			XI		
KD102B	*	REC	SID	XI		
KN102A	*	SIA		XII-B		
KN102B	*	SIA		XII-B		
KN102V	*	SIA		XII-B		
KN102G	*	SIA		XII-B		
KN102D	*	SIA		XII-B		
KN102ZH	*	SIA		XII-B		
KN102I	*	SIA		XII-B		
KP102I	*	MJF		X-B		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
KP102K	*	MJF		X-B		
KP102L	*	MJF		X-B		
KP102YE	*	MJF		X-B		
KP102ZH	*	MJF		X-B		
KV102A	*	VAR	SI	XI-D		
KV102B	*	VAR	SI	XI-D		
KV102D	*	VAR	SI	XI-D		
KV102G	*	VAR	SI	XI-D		
KV102V	*	VAR	SI	XI-D		
P102				X		
A103	*	DEC		XXIII		
AL103A	*	LED	GAE	XI-E		
AL103B	*	LED	GAE	XI-E		
D103	*	REC		XI		
D103A	*	REC		XI		
KD103A	*			XI		
KD103B	*			XI		
KP103I	*	MJF		X-B		
KP103K	*	MJF		X-B		
KP103L	*	MJF		X-B		
KP103M	*	MJF		X-B		
KP103YE	*	MJF		X-B		
KP103ZH	*	MJF		X-B		
KV103A	*	VAR	SID	XI-D		
KV103B	*	VAR	SID	XI-D		
P103				X		
P103A				X		
S-103		TET	SIN		GKE-1000+	
D104	*	REC		XI		
D104A	*	REC		XI		
KL104A	*	DIN	SCD	XI-E		
KV104A	*	VAR	SI	XI-D		
KV104B	*	VAR	SI	XI-D		
KV104D	*	VAR	SI	XI-D		
KV104G	*	VAR	SI	XI-D		
KV104V	*	VAR	SI	XI-D		
KV104YE	*	VAR	SI	XI-D		
L-104		PND	SIN		6K4P+, 6BA6$	
P104				X		
D105	*	REC		XI		
D105A	*	REC		XI		
KD105A				XI		
KD105B				XI		
KD105G	*	REC	SID	XI		
KD105V				XI		
KV105A	*	VAR	SI	XI-D		
KV105B	*	VAR	SI	XI-D		
P105				X		
105S5-30		DIO	SIN		SG3S+, 0C3$	
A106	*	DEC		XXIII		
D106	*	REC		XI		
D106A	*	REC		XI		
KV106A	*	VAR	SID	XI-D		
KV106B	*	VAR	SID	XI-D		
P106				X		
S-106		TET	SIN		GKE-150+	
A107	*	DEC		XXIII		
D107		REC	SIP	XI		
D107A		REC	SIP	XI		
P107						
UB107		TRI	SIN		4S1+	
D108		REC	SIP	XI		
GT10BA	*			X		15141-69
GT10BB	*			X		15141-69
GT108C	*			X		15141-69
GT108V	*			X		15141-69
KD108G	*			X		
P108				X		
P108A				X		
D109		REC	SIP	XI		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
GT109A	*			X		15142-69
GT109B	*			X		15142-69
GT109D	*			X		15142-69
GT109G	*			X		15142-69
GT109I	*			X		15142-69
GT109V	*			X		15142-69
GT109YE	*			X		15142-69
GT109ZH	*			X		15142-69
P109				X		
S-109		TET	SIN		GKE-300+	
P110				X		
SI10N	*	COU		XXI		
UB110		TRI	SIN		4S2+	
MP111	*			X		14949-69
MP111A	*			X		14949-69
MP111B	*			X		14949-69
VU-111D		DIO	SIN	IV		
MP112	*			X		14949-69
SB-112		PND	SIN	II	4E1+	
MP113	*			X		14949-69
MP113A	*			X		14949-69
MP114	*			X		14874-69
GT115A	*			X		
GT115B	*			X		
GT115D	*			X		
GT115G	*			X		
GT115V	*			X		
MP115	*			X		14B74-69
MP116	*			X		14B74-69
SO-11B		TRI	SIN		4S5+	
G120		TRI	SIN	III		
IFK120				XX		
MI-120		MAG		IX		
TR-120/15		TRI	THY		TR-1-40/15+	
SO-122		PND	SIN		4P1+	
SO-124		PND	SIN	II	4ZH5+	
TCH125	*	TRI		XII-B		
TD-125	*	TRI		XII-B		
VO-125		DIO	SIN	IV		
SK-127				XXII		
VG-129		DIO	SIN	IV		
UB-132		TRI	SIN	II	4S3+	
KS133A	*	REG	SI	X111		
P135				X		
MI-137		MAG		IX		
KS139A	*	REG	SI	X111		
TO-141		TRI	SIN	II	3S1+	
TO-142		TRI	SIN	II	3S2+, 3S9+	
KS147A	*	REG	SI	X111		
SB-147		TET	SIN		4E2+	
SO-14B		PND	SIN	II	4E3+	
GI-150		TRI	SIN	III		
GKE150		TET	SIN	III	GE-2=	
GU150		TRI	SIN	III		7712-55
I-150/1.0	*	TRI	IGN	IV		
M150		TRI	SIN	III		
VKDU150	*	SCR	SI4	XII-A		
150S5-30		DIO	SIN		SG4S+, 0D3$	
SB-152		TRI	SIN	II		
UB-152		TRI	SIN	II	2S1+	
UB-153		TRI	SIN	II		
SB-154		PND	SIN	II	2E1+	
SB-155		BEA	SIN		2P2+	
UB-155		BEA	SIN	II	2E2+	
KS156A	*	REG	SI	X111		
TD-160	*	TRI		XII-B		
VG-161		DIO	SIN	IV		
KS162A	*	REG	SIA	XIII		
VG-163	*			IV		
KS16BA	*	REG	SI	X111		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
KS168V	*	REG	SIA	XIII		
KS170A	*	REG	SIA	XIII		
KS175A	*	REG	SIA	XIII		
VG-176		DIO	SIN	IV		
UB-178		TRI	SIN	II		
KS182A	*	REG	SIA	XIII		
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		
KS191A	*	REG	SIA	XIII		
191P		TET	SIN	II		
KS194A		REG		XIII		
KS194B		REG		XIII		
KS194G		REG		XIII		
KS194V		REG		XIII		
KS196B	*	REG	SIA	XIII		
KS196G	*	REG	SIA	XIII		
KS196V	*	REG	SIA	XIII		
VO-196		DIO	SIN	IV		
VO-197		DWD	SIN	IV		
GD-200		TRI	SIN		GS-4+	
I-200/1.5		TRI	IGN	IV		
IFP200				XX		
IVS200/2			IGN	IV		
TD-200	*	TRI		XII-B		
TGI-200		TRI	THY	VII	MT	
VGV200		POW		XII		
VK-200		POW		XII		
VKDUV-200	*	SCR	SI4	XII-A		
VKV200		POW		XII		
AI-201A	*	TUN		XI-B		
AI-201B	*	TUN		XI-B		
AI-201D	*	TUN		XI-B		
AI-201G	*	TUN		XI-B		
AI-201I	*	TUN		XI-B		
AI-201K	*	TUN		XI-B		
AI-201L	*	TUN		XI-B		
AI-201V	*	TUN		XI-B		
AI-201YE	*	TUN		XI-B		
AI-201ZH	*	TUN		XI-B		
D201A		REC		XI		
D201B		REC		XI		
D201D		REC		XI		
D201G		REC		XI		
D201TS		REC		XI		
D201V		REC		XI		
D201YE		REC		XI		
D201ZH		REC		XI		
KU-201A	*	SCR		XII-B		
KU-201B	*	SCR		XII-B		
KU-201D	*	SCR		XII-B		
KU-201G	*	SCR		XII-B		
KU-201I	*	SCR		XII-B		
KU-201K	*	SCR		XII-B		
KU-201L	*	SCR		XII-B		
KU-201V	*	SCR		XII-B		
KU-201YE	*	SCR		XII-B		
KU-201ZH	*	SCR		XII-B		
LI201	*	IM		VIII-A		
P201E	*			X		
P201AE	*			X		
SG201S		DIO	SIN	V	0B3$	
D202	*	REC		XI		
KD202A	*			XI		
KD202B	*	REC		XI		
KD202D	*	REC		X1		
KD202G	*	REC		X1		
KD202I	*	REC		X1		
KD202K	*	REC		X1		
KD202L	*	REC		X1		
KD202M	*	REC		X1		
KS202N	*	REC		X1		
KD202R	*	REC		X1		
KD202S	*	REC		X1		
KD202V	*	REC		X1		
KD202YE	*	REC		X1		
KD202ZH	*	REC		X1		
KU-202A	*	SCR	TRI	XII-B		
KU-202B	*	SCR	TRI	XII-B		
KU-202D	*	SCR	TRI	XII-B		
KU-202G	*	SCR	TRI	XII-B		
KU-202I	*	SCR	TRI	XII-B		
KU-202K	*	SCR	TRI	XII-B		
KU-202L	*	SCR	TRI	XII-B		
KU-202M	*	SCR	TRI	XII-B		
KU-202N	*	SCR	TRI	XII-B		
KU-202V	*	SCR	TRI	XII-B		
KU-202YE	*	SCR	TRI	XII-B		
KU-202ZH	*	SCR	TRI	XII-B		
LI202	*	IM		VIII-A		
P202E	*			X	2N68$	
SG202B		DIO	SIN	V		
VO-202		DWD	SIN	IV		
D203	*	REC		XI		
KD203A	*	REC	SID	XI		
KD203B	*	REC	SID	XI		
KD203D	*	REC	SID	XI		
KD203G	*	REC	SID	XI		
KD203V	*	REC	SID	XI		
LI203	*	IM		VIII-A		
P203E	*			X	2N68$	
SG203K		DIO	SIN	V		
D204	*	REC		XI		
KU204A	*	TRI		XII-B		
KU204B	*	TRI		XII-B		
KU204V	*	TRI		XII-B		
SG204K	*	REG		V		
UV-204		TWT		IX		
D205	*	REC		XI		
KD205A	*	REC	SIA	XI		
KD205B	*	REC	SIA	XI		
KD205D	*	REC	SIA	XI		
KD205G	*	REC	SIA	XI		
KD205V	*	REC	SIA	XI		
KD205YE	*	REC	SIA	XI		
SG205B	*	REG		V		
UV-205		TWT		IX		
D206	*	REC		XI		
D207	*	REC		XI		
LI207	*	IM		VIII-A		
P207				X		
P207A				X		
D208	*	REC		XI		
P208				X		
P208A				X		
D209	*	REC		XI		
P209		GAP		X		
P209A		GAP		X		
D210	*	REC		XI		
KS210B	*	REG	SIA	XIII		
P210		GAP		X		
P210A	*	GAP		X		
P210B	*	GAP		X		14875-69
P210V	*	GAP		X		14875-69
D211	*	REC		XI		
KS211B		REG	SI	XIII		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
KS211D		REG	SI	XIII		
KS211G		REG	SI	XIII		
KS211V		REG	SI	XIII		
P211				X		
LI212	*	IM		VIII-A		
P212				X		
P212A				X		
TG212M		TRI	THY	VII		
KS213B	*	REG	SIA	XIII		
P213	*			X		
P213A	*			X		
P213B	*			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		
P214G	*			X		
P214V	*			X		
D215		REC	SIA	XI		
D215A		REC	SIA	XI		
D215B		REC	SIA	XI		
P215	*			X		
P216	*			X		
P216A	*			X		
P216B	*			X		
P216D	*			X		
P216G	*			X		
P216V	*			X		
D217	*	REC	SIA	XI		
MD217	*	REC	SID	XI		
P217	*			X		
P217A	*			X		
P217B	*			X		
P217G	*			X		
P217V	*			X		
D218	*	REC	SIA	XI		
D219A	*	REC	SIA	XI		
D219S	*			XI		
D220	*	REC	SIA	XI		
D220A	*	REC	SIA	XI		
D220B	*	REC	SIA	XI		
D220S	*	REC	SIA	XI		
SK-220				XXII		
D221		REC	SIA	XI		
D222		REC	SIA	XI		
D223	*	REC	SIA	XI		14343-69
D223A	*	REC	SIA	XI		14343-69
D223B	*	REC	SIA	XI		14343-69
D224		REC	SIA	XI		
D224A		REC	SIA	XI		
D224B		REC	SIA	XI		
D225		REC	SIA	XI		
D226		REC	SIA	XI		
D226A		REC	SIA	XI		
D226B	*			XI		
D226D	*	SIA		XI		
D226G	*	SIA		XI		
D226V	*	SIA		XI		
D226YE		SIA		XI		
SG226		DIO	SIN	V		
D227-A		SWI	SI4	XI-A		
D227-B		SWI	SI4	XI-A		
D227-D		SWI	SI4	XI-A		
D227-G		SWI	SI4	XI-A		
D227-I		SWI	SI4	XI-A		
D227-V		SWI	SI4	XI-A		
D227YE		SWI	SI4	XI-A		
D227-ZH		SWI	SI4	XI-A		
SG227		DIO	SIN	V		
D228-A		SWI	SI4	XI-A		
D228-B		SWI	SI4	XI-A		
D228-D		SWI	SI4	XI-A		
D228-G		SWI	SI4	XI-A		
D228-I		SWI	SI4	XI-A		
D228-V		SWI	SI4	XI-A		
D228YE		SWI	SI4	XI-A		
D228-ZH		SWI	SI4	XI-A		
D229A		SIA		XI		
D229B		SIA		XI		
D229D				XI		
D229E				XI		
D229G				XI		
D229V				XI		
D230A		SIA		XI		
D230B		SIA		XI		
VO-230		DIO	SIN	IV		
D231hPk		REC	SIA	XI		
D231AhPk		REC	SIA	XI		
D231BkPk		REC	SIA			
D232hPk		REC	SIA	XI		
D232AhPk		REC	SIA	XI		
D232BhPk		REC	SIA	XI		
D233hPk		SIA		XI		
D233A		REC	SIA	XI		
D233BhPk		REC	SIA	XI		
D234BhPk		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	*			IV		
VG-237	*	DIO	SIN	IV		
D238A		CON	SI	XI-C		
D238B		CON	SI	XI-C		
D238D		CON	SI	XI-C		
D238G		CON	SI	XI-C		
D238V		CON	SI	XI-C		
D238YE		CON	SI	XI-C		
VO-239		DIO	SIN	IV		
UB-240		TRI	SIN	II	2S2+	
SB241		PND	SIN		2K1*, 2K1M+, S0241*	
S0241		PND	SIN		2K1*, 2K1M+, S0241*	
D242	*	REC		XI		14758-69
D242A	*	REC		XI		14758-69
D242B	*	REC		XI		14758-69
SB-242		PTG	SIN		2A1+	
S0-242		PTG	SIN	II	SB242, 2A1, 2A1M	
D243	*	REC		XI		14758-69
D243A	*	REC		XI		14758-69
D243B	*	REC		XI		14758-69
SB243		TRI	DUO		2N1*, 2N1M*, S0243*	
S0-243		TRI	TWN	II	2N1+	
D244	*	REC		XI		
D244A	*	REC		XI		
D244B	*	REC		XI		
SB244		BEA	SIN		2P1+, S0244+	
S0-244		PND	SIN	II	2P1+	
D245	*	REC		XI		14758-69
D245A	*	REC		XI		14758-69
D245B	*	REC		XI		14758-69
SB245		PND	SIN		2ZH1M+	
D246	*	REC		XI		14758-69
D246A	*	REC		XI		14758-69
D246B	*	REC		XI		14758-69
D247	*	REC		XI		14758-69
D247B	*	REC		XI		14758-69

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
L0247	*	OD		VIII		
D248B	*	REC		XI		1475B-69
L0-24B		OS		VIII		
L0-249		OS		VIII		
GK0-250		TRI	SIN		GK-1A+	
TD-250	*	TRI		XII-B		
VG-252		DIO	SIN	IV		
G256		TRI	SIN	III		
S0257		PND	SIN	II	2ZH4+	
SB25B		BEA	SIN		2P3+, 2P2M+, S025B+	
S0-25B		PND	SIN	II	2P3+	
SB259		TRI	DUO		4N1+	
S0259		TRI	DUO		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		
TKP-300		TMS	POW	XIX		
AI-301A	*	TUN	GE	XI-B		15606-70
AI-301B	*	TUN	GE	XI-B		15606-70
AI-301G	*	TUN	GE	XI-B		15606-70
AI-301V	*	TUN	GE	XI-B		15606-70
KP301B	*			X-B		
KT301	*			X		
KT301A	*			X		
KT301B	*			X		
KT301D	*			X		
KT301G	*			X		
KT301V	*			X		
KT301YE	*			X		
KT301ZH	*			X		
SG301S-1	*	DIO	SIN	V		9103-59
D302	*	REC		XI		
D302A	*			XI		
P302	*			X		
SG302S-1	*	DIO	SIN	V		9103-59
D303	*	REC		XI		
D303A	*			XI		
P303	*			X		
P303A	*			X		
SG303S-1	*	DIO	SIN	V		9103-59
D304	*	REC		XI		
GI304A	*	TUN	GE	XI-B		
GI304B	*	TUN	GE	XI-B		
KU304		KLA		IX		
KU304A		KLA		IX		
P304	*			X		
SG304S	*	DIO	SIN	V		
D305	*	REC		XI		
GI305A	*	TUN	GE	XI-B		
GI305B	*	TUN	GE	XI-B		
GT305A	*			X		
GT305B	*			X		
GT305V	*			X		
SG305K	*	REG		V		
KT306A	*			X		
KT306B	*			X		
KT306D	*			X		
KT306G	*			X		
KT306V	*			X		
P306	*			X		
P306A	*			X		
SG306K	*	REG		V		
KT307A	*			X		
KT307B	*			X		
KT307G	*			X		
KT307V	*			X		
P307				X		
P307A				X		
P307B				X		
P307G				X		
P307V				X		
SG307K	*			V		
GT30BA	*			X		
GT30BB	*			X		
GT30BV	*			X		
K-30B		KLO		IX		
KU30B		KLA		IX		
P30B				X		
SG308K	*			V		
GT309A	*			X		
GT309B	*			X		
GT309D	*			X		
GT309G	*			X		
GT309V	*			X		
GT309YE	*			X		
KU309		KLA		IX		
P309				X		
SG309K	*			V		
D310	*	GEA		XI		
GT310A	*			X		
GT310B	*			X		
GT310D	*			X		
GT310G	*			X		
GT310V	*			X		
GT310YE	*			X		
KU310A		KLA		IX		
KU310B		KLA		IX		
D311	*	REC		X1		
D311A	*	REC		X1		
D311B	*	REC		X1		
GT311A	*			X		
GT311B	*			X		
GT311D				X		
GT311G				X		
GT311I				X		
GT311V				X		
GT311YE				X		
GT311ZH				X		
SG311S	*	REG		V		
D312	*	REC		X1		
D312A	*	REC		X1		
D312B	*	REC		X1		
KT312A	*			X		
KT312B	*			X		
KT312G				X		
KT312V	*			X		
GT313A	*			X		
GT313B	*			X		
P314A				X		
P314B				X		
P314S				X		
KT315A	*			X		
KT315B	*			X		
KT315G	*			X		
KT315V	*			X		
KTB315A	*			X		
KTB315B	*			X		
KT316A	*			X		
KT316B	*			X		
KT316D	*			X		
KT316G	*			X		
KT316V	*			X		
KT318A	*			X		
KT31BB	*			X		
KT31BD	*			X		
KT31BG	*			X		
KT31BV	*			X		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
KT318YE	*		X		
KT319A			X		
KT319B			X		
KT319V			X		
GT320A	*		X		
GT320B	*		X		
GT320V	*		X		
T-320V	*	TRI	XII-B		
TD-320A	*	TRI	XII-B		
TD-320B	*	TRI	XII-B		
GT321A	*		X		
GT321B	*		X		
GT321D	*		X		
GT321G	*		X		
GT321V	*		X		
GT321YE	*		X		
GT322A	*		X		
GT322B	*		X		
GT322D	*		X		
GT322G	*		X		
GT322V	*		X		
GT322YE	*		X		
P322			X		
GT323A	*		X		
GT323B	*		X		
GT323V	*		X		
KT324A	*		X		
KT324B	*		X		
KT324D	*		X		
KT324G	*		X		
KT324V	*		X		
KT324YE	*		X		
KT325A			X		
KT325B			X		
KT325D			X		
KT325G			X		
KT325V			X		
TGI-325/16		TRI THY		MTI5+,TGI-1-325/16+	
KT326A			X		
KT326B			X		
GT328			X		
GT328A	*		X		
GT328B	*		X		
GT328V	*		X		
GT329A			X		
GT329B			X		
GT329V			X		
GT330A			X		
GT330B			X		
KT337A	*		X		
KT337B	*		X		
KT337V	*		X		
GT338A	*		X		
GT338B	*		X		
GT338V	*		X		
KT339A	*		X		
KT339B	*		X		
KT339D	*		X		
KT339G	*		X		
KT339V	*		X		
KT342A	*		X		
KT342B	*		X		
KT342D	*		X		
KT342G	*		X		
KT342V	*		X		
KT342YE	*		X		
KT343A	*		X		
KT343B	*		X		
KT343G	*		X		
KT343V	*		X		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
GT346A	*		X		
GT346B	*		X		
GT346V	*		X		
KT349A	*		X		
KT349B	*		X		
KT349V	*		X		
KT350A	*		X		
R-350			XXII		15633-70
RB-350			XXII		
K-351		KLO	IX		
KT351A	*		X		
KT351B	*		X		
KT352A	*		X		
KT352B	*		X		
K-352		KLO	IX		
VO-360		DIO SIN	IV		
GD-400		TRI SIN		GS-6+	
M400		TRI SIN	III		
TG-400/15		TRI THY		TRI-130/15+	
TGI400/3.5		TRI THY		TGI-2-400/3.5+	
D401		MIX	XIV		
GI401A	*		XI-G		
GI401B	*		XI-G		
KD401A	*	REC	XI		
KD401B	*	REC	XI		
KTS401A	*	REC	XI		
KTS401B	*	REC	XI		14914-69
KTS401V	*	REC	XI		14914-69
LI401			VIII-A		
M401		TRI SIN	III		
P401	*		X	2N112$	
AI402B	*	BWD GAS	XI-G		
AI402G	*	BWD GAS	XI-G		
AI402I	*	BWD GAS	XI-G		
AI402YE	*	BWD GAS	XI-G		
D402		MIX SI	XIV		
GD402A	*	REC	X1		
GD402B	*	REC	X1		
GT402					
GT402A	*		X		
GT402B	*		X		
GT402G	*		X		
GT402V	*		X		
P402	*		X	SB-100$.	
D403A		MIX	XIV		
D403B		MIX	XIV		
D403V		MIX	XIV		
GD403A	*	REC	XI		
GD403B	*	REC	XI		
GD403V	*	REC	XI		
GT403A	*		X		
GT403B	*		X		
GT403D	*		X		
GT403G	*		X		
GT403I	*		X		
GT403IU	*		X		
GT403V	*		X		
GT403YE	*		X		
GT403ZH	*		X		
P403	*		X	0C614=	
P403A	*		X	0C614=	
403A	*	BWD GEA	XI-G		
D404		MIX SI	XIV		
GT404A	*		X		
GT404B	*		X		
GT404G	*		X		
GT404V	*		X		
P404			X		
P404A			X		
D405		DET	XIV		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
D405A		DET		XIV		
D405AP		DET		XIV		
D405B		DET		XIV	1N23D$	
D405BP		DET		XIV		
GD405A	*	REC	GEA	XI		
P405				X		
P405A				X		
D406		MIX	SI	XIV		
GD406A	*	REC	GEA	XI		
P406				X	GT-60=,2N113$	
LI407	*	VID		VIII-A		
P407				X	2N114$	
D408		MIX	SI	XIV		
LI408	*	VID		VIII-A		
P408				X		
D409A	*	MIX	SI	XIV		
D409AP	*	MIX	SI	XIV		
LI409	*	VID		VIII-A		
P409				X		
T-409		DIO	IGM	IV		
G410		TRI	SIN	III		
LI410	*	VID		VIII-A		
P410	*			X		
P410A	*			X		
T-410		DIO	IGM	IV		
410R		KLO				
G411		PND	SIN	III	KZH1*+	
P411	*			X	AF114=	
P411A	*			X	AF114=	
T-411		DIO	IGM	IV		
G412		PND	SIN	III		
LI412	*	VID		VIII-A		
G413		PND	SIN	III	GZH2*+	
G414		PND	SIN	III		
P414				X		
P414A				X		
P414B				X		
LI415	*	VID		VIII-A		
P415				X		
P415A				X		
P415B				X		
P416	*			X		14876-72
P416A	*			X		14876-72
P416B	*			X		14876-72
P416V						
G417		TRI	SIN	III		
P417	*			X		
P417A	*			X		
G418		PND	SIN	III		
LI418	*	VID		VIII-A		
P418				X		
P418A				X		
P418B				X		
P418G				X		
P418M				X		
P418V				X		
LI420	*	VID		VIII-A		
P420				X		
LI421	*	VID		VIII-A		
P421				X		
UV-421		TWT		IX		
G422		PND	SIN	III		
P422	*			X		
P422A				X		
UV-422		TWT		IX		
P423	*			X		
P423A				X		
G424		PND	SIN	III		
LI424	*	VID		VIII-A		
G425		PND	SIN	III		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
LI425	*	VID		VIII-A		
LI428	*	VID		VIII-A		
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	
KS433A	*	REG	SIA	XIII		
M435		TRI	SIN	III		
UV-438		TWT		IX		
KS439A	*	REG	SIA	XIII		
UV-440		TWT		IX		
G441		TRI	SIN	III		
KS447A	*	REG	SIA	XIII		
G-450		TRI	SIN	III		
OS450		PND	SIN		GU80, P800+*	
R-450				XXII		
M-451		TRI	SIN		GM-51A+	
G-452		TRI	SIN	III	G-431A+	
G-454		TRI	SIN	III	GS-3B+	
KS456A	*	REG	SIA	XIII		
M457		TRI	SIN	II	MS3*+, UB180=, GM57+	
KS468A	*	REG	SIA	XIII		
M-470		TRI	SIN		GM-70+	
G471		PND	SIN		GK71+	
G472		TRI	SIN	III		
G480		TRI	SIN		GI-17*+	
KS482A	*	REG	SIA	XIII		
G-483		TET	SIN		GMI-83+	
G484		TRI	SIN	III		
G-489		TET	SIN		GMI-89+	
G-490		TET	SIN		GMI-90*+	
IFK500				XX		
IFP500				XX		
ISSH500				XX		
VGV500		POW		XII		
D501	*			XIV		
P501				X		
P501A				X		
P502				X		
P502A				X		
P502B				X		
P502V				X		
KD503A	*	REC	SPN	XI		
KD503B	*	REC	SPN	XI		
KD503V	*	REC	SPN	XI		
P503				X		
P503A				X		
KD504A	*	REC	SIA	XI		
P504				X		
P504A				X		
P505				X		
P505A				X		
GD507A	*	REC		XI		
KD509A	*	REC	SEN	XI		
KD510A	*	REC	SEN	XI		
KD512A	*	SI		XI		
KD513A	*	SI		XI		
KD514A	*	REC	SEN	XI		
KS515A	*	REG	SIA	XIII		
KS518A	*	REG	SIA	XIII		
KS522A	*	REG	SIA	XIII		
KS527A	*	REG	SIA	XIII		
M-532		MAG		IX		
M571		MAG		IX		
MI-588		MAG		IX		
MI-589A		MAG		IX		
MI-589B		MAG		IX		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
MI-5B9V		MAG		IX		
M600		TRI	SIN		GM60+	
KT601				X		
KT601A	*			X		
LI601	*	IM		VIII-A		
P601				X		
P601A				X		
P601AI	*			X		
P601B				X		
P601BI	*			X		
P601I	*			X		
D602A		VID		XIV		
D602B		VID		XIV		
D602V		DET		XIV		
KA602A	*	VAR	SEN	XI-D		
KA602B	*	VAR	SEN	XI-D		
KT602A	*			X		
KT602B	*			X		
KT602G	*			X		
KT602V	*			X		
P602				X		
P602A				X		
P602AI	*			X		
P602I	*			X		
D603	*	VID		XIV		
KT603A	*			X		
KT603B	*			X		
KT603D	*			X		
KT603G	*			X		
KT603V	*			X		
KT603YE	*			X		
D604	*	VID	SI	XIV		
KT604A				X		
KT604B				X		
LI604-K	*	IMD		VIII-A		
P604		GAP		X		
P604A		GAP		X		
P604B		GAP		X		
D605		MIX	SI	XIV		
KT605A				X		
KT605B				X		
P605	*	GDP		X		
P605A	*	GDP		X		
KT606A	*			X		
KT606B	*			X		
P606	*	GDP		X		
P606A	*	GDP		X		
D607	*			XIV		
D607A	*			XIV		
P607	*			X		14883-69
P607A	*			X		14883-69
D608	*			XIV		
KT608A	*	SEN		X		
KT608B	*	SEN		X		
P608	*			X		14883-69
P608A	*			X		14B83-69
P608B				X		
D609				XIV		
P609	*			X		14883-69
P609A	*			X		14BB3-69
P609B				X		
KT611A	*			X		
KT611B	*			X		
KT611G	*			X		
KT611V	*			X		
OV-612		BWT		IX		
OV-613		BWT		IX		
OV-614		BWT		IX		
KS620A	*	REG	SI	X111		17126-71
OV-621		BWT		IX		
OV-622		BWT		IX		
KS630A	*	REG	SI	X111		17126-71
KS650A	*	REG	SI	X111		17126-71
KS680A	*	REG	SI	X111		17126-71
700AD		MAG		IX		
GT701A	*			X		16947-71
P701	*			X		
P701A	*			X		
P701B	*			X		
P702	*			X		
P702A	*			X		
GT703A	*			X		
GT703B	*			X		
706AU		MAG		IX		
707A/B		KLO		IX		
LO-709A		OS		VIII		
714AU		MAG		IX		
LK-715		TV			18LK15+	
720AYE		MAG		IX		
723A/B		KLO		IX		
725A		MAG		IX		
LK-726		TV			18LK3B+	
726		KLO		IX		
LO-729		OS			8L029+, 3BP1A$	
LO-730		OS			8L030+	
LO-731		OS			13LM31+	
LO-732		OS			31LM32+	
LO-733		OS			31L033+	
LO-734		OS			23LM34+	
LO-735		OS			18LM35+	
LO-736		OS			13L036+	
LO-737		OS			13L037+	
LO-73B		OS			5L038+, 2AP1$	
LO-739		OS			8L039+	
LK-740		TV			18L040B+, 7JP4$	
K-743		KLO		IX		
LO-743		OD			10L043+	
K-744		KLO		IX		
K-745		KLO		IX		
K-746		KLO		IX		
K-747		KLO		IX		
LO-747		OD			18L047+	
LO-748		OD			13L048+	
LO-749		OS			13L049+	
GK750	*	TRI	SIN	III		7709-55
LO751		OS			23L051+	
LO-754		OS			13L054+	
K-765		KLO		IX		
K-766		KLO		IX		
K-767		KLO		IX		
K-768		KLO		IX		
K-769		KLO		IX		
K-770		KLO		IX		
K-771		KLO		IX		
M800		TRI	SIN	III		
PB00		PND	SIN		GU80*+, OS450=	
TI-800	*	TRI		XII-B		
K-801		KLO		IX		
KT801A	*			X		
KT801B	*			X		
K-802		KLO		IX		
KT802A	*			X		
K-B03		KLO		IX		
KT803A	*			X		
GT804A	*			X		
GT804B				X		
GT804V				X		
K-804		KLO		IX		
K-B05		KLO		IX		
KTB05A	*			X		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
KT805B	*		X		
GT806A	*		X		
GT806B	*		X		
GT806V	*		X		
K-806		KLO	IX		
G807		BEA SIN	III	807$	8380-65
K-807		KLO	IX		
KT807A	*		X		
KT807B	*		X		
D808	*	REG	XIII		
KT808A	*		X		
D809	*	REG	XIII		
D810	*	REG	XIII		15953-70
D811	*	REG	XIII	811-A$	
G811		TRI SIN	III		
D813	*	REG	XIII		
G-813		BEA SIN		GU-13+, 813$	
D814-A	*	REG SI	XIII		14913-69
D814-B	*	REG SI	XIII		14913-69
D814-D	*	REG SI	XIII		14913-69
D814-G	*	REG SI	XIII		14913-69
D814-V	*	REG SI	XIII		14913-69
D815A,P	*	REG SI	XIII		17126-71
D815B,P	*	REG SI	XIII		17126-71
D815D,P	*	REG SI	XIII		17126-71
D815G,P	*	REG SI	XIII		17126-71
D815I	*	REG SI	X111		17126-71
D815V,P	*	REG SI	XIII		17126-71
D815YE,P	*	REG SI	XIII		17126-71
D815ZH,P	*	REG SI	XIII		17126-71
D816A,P	*	REG SI	XIII		17126-71
D816B,P	*	REG SI	XIII		17126-71
D816D,P	*	REG SI	XIII		17126-71
D816G,P	*	REG SI	XIII		17126-71
D816V,P	*	REG SI	XIII		17126-71
D817A,P	*	REG SI	XIII		17126-71
D817B,P	*	REG SI	XIII		17126-71
D817G,P	*	REG SI	XIII		17126-71
D817V,P	*	REG SI	XIII		17126-71
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	0S12/500=.837$	
G-880		TRI TWN		GU-12A+, 880$	
TG-884		TRI THY		TG1-0.1/0.3+, 884*	
G889		TRI SIN	III	889-A$	
G891		TRI SIN	III	891$	
D901A	*	VAR SI	XI-D		16359-70
D901B	*	VAR SI	XI-D		16359-70
D901D	*	VAR SI	XI-D		16359-70
D901G	*	VAR SI	XI-D		16359-70
D901V	*	VAR SI	XI-D		16359-70
D901YE	*	VAR SI	XI-D		16359-70
KD901A	*	1DA SI	XI-G		
KD901B	*	2DA SI	XI-G		
KD901G	*	4DA SI	XI-G		
KD901V	*	3DA SI	XI-G		
KP901A	*	SFN	X-B		
D902	*	VAR SI	XI-D		
KD902D	*		XI-G		
KD902I	*		XI-G		
KD902YE	*		XI-G		
KD902ZH	*		XI-G		
KT902A			X		

Type No.	Kind	Type	Group No.	Similar types	COST spec. No.
KD903A	*		XI-G		
KD903B	*		XI-G		
KT903A			X		
KT903B	*		X		
KD904A	*		XI-G		
KD904B	*		XI-G		
KD904D	*		XI-G		
KD904G	*		XI-G		
KD904V	*		XI-G		
KD904YE	*		XI-G		
KT904A	*		X		
KT904B	*		X		
KT905A	*		X		
KT905B	*		X		
KD906	*		XI-G		
KD907	*		XI-G		
KD907A	*	1DA SEN	XI-G		
KD907B	*	2DA SEN	XI-G		
KD907G	*	4DA SEN	XI-G		
KD907V	*	3DA SEN	XI-G		
KT907A	*		X		
KT907B	*		X		
KD908A	*	8DA SEN	XI-G		
KT908A	*		X		
KT908B	*		X		
KD909	*		XI-G		
KT909	*		X		
KD910A	*	1DA SPN	XI-G		
KD910B	*	2DA SPN	XI-G		
KD910V	*	3DA SPN	XI-G		
KD911A	*	3 SPNEN	XI-G		
KT911	*		X		
KT913A	*		X		
KT913B	*		X		
KT913V	*		X		
KT916A	*		X		
GD1000		TRI SIN		G-29+	
GKE1000		TET SIN	III		
M-1000		TRI SIN		GM-100+	
VKV1000		POW	XII		
D1001		REC	XI		
D1001A		REC	XI		
UV1001	*	TWT	IX		
D1002		REC	XI		
D1002A		REC	XI		
UV1002	*	TWT	IX		
D1003A		REC	XI		
UV1003	*	TWT	IX		
D1004	*	SIA	XI		14912-69
UV1004	*	TWT	IX		
D1005A	*	SIA	XI		14912-69
D1005B	*	SIA	XI		14912-69
UV1005	*	TWT	IX		
D1006	*	SIA	XI		14912-69
D1006A	*	REC SIA	XI		
UV1006	*	TWT	IX		
D1007	*	SIA	XI		14912-69
D1007A	*	REC SIA	XI		
UV1007	*	TWT	IX		
D1008	*	SIA	XI		14912-69
D1008A	*	REC SIA	XI		
UV1008	*	TWT	IX		
D1009	*	SIA	XI		
D1009A	*	SIA	XI		
UV1009	*	TWT	IX		
D1010	*	SIA	XI		
D1010A	*	SIA	XI		
UV1010	*	TWT	IX		
D1011A	*	SIA	XI		
UV1011	*	TWT	IX		

Type No.		Kind	Type	Group No.	Similar types	COST spec. No.
[illegible]	*	TWT		IX		
T[illegible]1050		TRI	THY		TG2-0.1/0 1+	
IFP1500				XX		
1502		DIO	SIN	IV	5TS9S	
1504		TRI	SIN	II		
1506		BEA	TWN	II		
1509		BEA	TWN	II		
1511		PND	SIN	II		
1512		PND	SIN	II	6AG7$	
1514		PND	SIN	II		
1515		BEA	SIN	II	6K	
1536		DIO	TWN	II		
1538		BEA	SIN	II		
1539		TRI	SIN	II		
1540		BEA	SIN	II		
1550		DWD	SIN	II		
1587	*	THY		VII		
TI1600	*	TRI		XII-B		
D1602A		REC		XI		
D1602B		REC		XI		
D1602V		REC		XI		
G1625		BEA	SIN	III	1625$	
GK2000		TRI	SIN	III		
IFK2000				XX		
TG2050		TET	THY		TG1-0.1/1.3+. 2050$	
GK3000		TRI	SIN	III		7710-55
M-3000		TRI	SIN		GMI-1B+	
PI-3000		PND	SIN		GI-8*+	
GI-3100		TRI	SIN	III		
IFP4000				XX		
4378D				XXII		
4671		TRI	SIN		6S1ZH+	
G-5000		TRI	TWN		GS	
IFP15000				XX		
IFK20000				XX		
G40011		TRI	SIN	III		
IFK80000	*			XX		

Type No.	Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical								Capacity		f_{max}	Base No.
								E_b	I_b	P_p	E_b	E_{g2}	E_{g1}	I_b	I_{g2}	Sm	μ	R_p	In	Out	MHz	
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF		
06P28	*	PND	SIN	T3F	AF	F	0.6	30	35	350μ	<0.1	30	30	0	90μ	<0.1	.1		1M					5CL
06S57A	*	TRI	SIN			F	0.6	38				12		<2	<1		<0.2	10	55k	0.7	1.7			T29
06ZH6B		PND	SIN	T3F	AF	F	0.6	20	35	350μ	8M	30	30	0	150μ	0.1	.1		900k	5.0	3.0			5CL
1A1P	*	PTG	SIN	T6	CN	F	1.2	60	100		0.3	90	45	15	<1	1.7	.8		500k	7.0	7.0			7AT
1A2P	*	PTG	SIN	T6	CN	F	1.2	30	90	3	0.3	60	45	8	<1	1.1	.8			5.1	6.3			7AT
1B1P		PND	DIO	T6		F	1.2	60	100	4	0.2	67	67	0	2	0.3	.6		1M	2.2	2.4			6AU
1B2P	*	PND	DIO	T6		F	1.2	30	90	2	0.1	60	45	0	900μ	0.2	.5		1M	1.8	2.1			6AU
1E1P	*	TET	SIN	T5	EL	F	1.0	46				6	4	3	100μ	0.4	<.1	1		3.5				TE2
1E3P		TRI	SIN				1.3	24				8		3	300μ		<.1	2		3.5				
1F28		TRI	PND			F	1.2	60				45		0	1		0.4			2.5	1.5			
1F28		PND	TRI			F	1.2	60				45	45	0	<1	0.2	0.3		600k	4.0	3.5			
1I2P		TRI	HEX			F	1.2	60	90	2	0.2	60		0	1		1.0	25	25k	0.7	3.0			PT1
1I2P		HEX	TRI			F	1.2	60	90	2	0.2	60	45	0	1	0.3	.2		650k	3.5	4.7			PT1
1K1P		PND	SIN	T6		F	1.2	60	100		0.6	90	67	0	3	1.2	.9		1M	3.5	7.5			6AR
1K2P	*	PND	SIN	T6	RF	F	1.2	30	90	3	0.3	60	45	0	1	0.3	.7		1M	3.0	4.9			6AR
1K128	*	PND	SIN	T3B		F	1.2	60	12	0 5	0.6	60	40	0	2	0.7	1.0		30k	3.7	2.8			
1N3S	□	TRI	DUO	T10	RF	F	1.2	120	150		1.0	120		5	<3		1.8	11	14k					7A8
1P2B	*	PND	SIN	T3F	AF	F	1.3	50	50			45	45	2	1	0.5	.4		50k	3.0	6.0			5CL
1P3B	*	PND	SIN	T3F	AF	F	1.3	28	50			45	45	2	1	0.3	.3		50k	3.0	6.0			5CL
1P48	*	PND	SIN	T3F	AF	F	1.3	20	50	<2	<0.1	45	45	2	1	0.4	.4		350k	3.0	6.0			5CL
1P5B	*	PND	SIN	T3B		F	1.2	120	150	18	1.7	90	90	<5	12	1.0	1.9		60k	3.9	2.6	100		
1P22B	*	PND	SIN	T3B		F	1.2	115	180	17	2.0	90	90	<5	13	1.0	2.8		60k	6.9	4.7	100		
1P24B	*	PND	SIN	T3B		F	1.2	250	300	25	2.5	150	125	14	17	3.0	2.8		50k	7.1	4.0	60		
1P328	*	PND	SIN	T3B		F	1.2	215	200	30	3.0	150	150	14	12	1.5	2.3			6.3	5.8	60		
1S12P		TRI	SIN			F	1.2	30	90	<3	0.2	60		1	1		.9	16	19k	0.8	0.7	300		TS1
1S38A	*	TRI	SIN	T2		F	0.9	85				70		0	2		0.9	24		0.9	1.2			
1TS1S	*	DIO	SIN	T10		F	0.7	185	15k		0.5	50			6					2.0				8HC
1TS7S	*	DIO	SIN	T10		F	1.3	200	30k	2		100			4					1.3		3hk		8HC
1TS11P	*	DIO	SIN	T6		F	1.2	200	20k	2					300μ					1.0				DS3
1TS20B		DIO	SIN	T3B		F	1.0	250	10k	300μ					135μ					0.8				
1TS21P	*	DIO	SIN	T7		H	1.4	690	25k	40		100			600μ					3.0		20k		DS5
1YE4A		TRI	SIN	T28		F	1.2	25	200	1	0.2	150		<1	900μ					1.3	1.0			T10
1ZH1ZH		PND	SIN	AC0		F	1.2	50	145			135	68	3	<2	0.4	.6		800k	1.8	2.5			
1ZH2M		PND	SIN			F	1.2	30				70	70	0	1	0.6	<.5							
1ZH17B	*	PND	SIN	T3B	RF	F	1.2	60	90	5	0.5	60	40	0	2	0.3	1.5		80k	3.2	2.4			P42
1ZH18B	*	PND	SIN	T3B	RF	F	1.2	24	90	<3	0.3	60	45	0	1	0.3	1.1		60k	3.2	2.4			P43
1ZH24B	*	PND	SIN	T38	RF	F	1.2	13	120	<2	0.1	60	45	0	1	0.1	0.9		40k	3.6	2.4			P42
1ZH26A		PND	SIN			F	1.4	130				135	70	<1	4	0.5	1.2							
1ZH29B	*	PND	SIN	T3B		F	1.2	60	150	8	1.2	60	45	0	5	0.5	2.5		35k	5.0	3.0			
1ZH30B		PND	SIN	T3B		F	1.2	15	200	1		12	12	0	1		.8		600	8.5	3.5			
1ZH368	*	PND	SIN	T3B		F	1.3	75	200			150	45	1	3	0.4	1.5			2.2	3.0			
1ZH37B	*	PND	SIN	T3B		F	1.2	60	100	<5		45	45	0	2	0.4	1.0		30k	2.2	2.6			
1ZH42A	*	PND	SIN	T2B		F	1.2	15	20	1		6	6	0	<1	0.2	0.5		100k	10.0	3.5			
GU-2		8EA	SIN	S18		H	6.3	900	750	120	30.0	250	250				10.0					60		
2A1		PTG	SIN		CN	H	2.0	160	160		0.7	120	70	4	2		0.4		150k	9.6	11.4			8A
2D1L		DWD	SIN	F10		H	2.2	130				50			2									DW3
2D1S	□	DIO	SIN	T7		H	2.3	400	450	<1	<0.1	5			<1							3G		D12
2D2S	*	DIO	SIN	F27	N0	T	1.5	1500	200	40	5.0	125										3G		
2D38	*	DIO	SIN	T3F	N0	W	2.2	110	150	5		150								2.4				
2D3S		DIO	SIN	T3F		H	2.2	110				150												
2D7S	*	DIO	SIN	PEN	N0	W	1.4	212	350		6.0	300			3									
2D9S	□	DIO	SIN	T10		W	3.7	550	500	1														
2E1		TET	SIN			F	2.0	110	160		1.0	100	40	0	1	0.5	.9		1M	9.0	9.0			TE5
2E2		TET	SIN			F	1.8	320			1.5	160	80	2	7	4.0	1.8		300k	8.3	9.0			TE6
2E2P	*	TET	DUO	T8	EL	F	2.0	55				6	3	4	45		22	1		4.0				TE3
2K1		PND					2.0	120	120			120	70	1	<4	1.2	1.6		750k					
2K1M		PND	SIN			F	2.0	120				150	70	1	3	1.1	1.4		1M					5Y
2K2M		PND	SIN	T9		F	2.0	60	160		0.5	120	70	<1	2	0.5	.9		1M	5.4	8.1			5Y
2KH1L	*	DWD	SIN	F10		H	2.2	130				50			2					2.2				DW3
2N1		TRI	DUO			F	2.0	240	160		1.5	120		0	3		2.1	32		2.8	5.7			7A8

Group II – RECEIVING TUBES – Continued

Type No.	Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical								Capacity		f_{max}	Base
								E_b	I_b	P_p	E_b	E_{g2}	E_{g1}	I_b	I_{g2}	Sm	μ	R_p	In	Out	MHz	No.
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF		
2P1	BEA	SIN			F	2.0	185			0.2	120	120	2	4	0.7	1.8		150k				6X
2P1P *	BEA	SIN	T6	AF	F	1.2	120	100	15	1.1	90	90	<2	10	2.2	1.7		100k	5.5	4.0		7BA
2P2	BEA	SIN			F	2.0	220			0.3	120	100	4	10	1.8	2.2		90k				
2P2P *	BEA	SIN	T6	AF	F	1.2	60	90	7	0.4	60	60	4	3	0.8	1.1		120k	3.7	3.8		7BA
2P3	BEA	SIN			F	2.0	230			0.5	160	120	6	10	1.7	2.0		80k				6X
2P5B *	PND	SIN	T3B		F	2.4	90	180	25	2.3	90	90	4	12	1.2	3.3			7.1	4.7	100	
2P9M	BEA	SIN	T10		F	2.0	1000	300		8.0	250	150	5	35	1.5	2.5		40k	8.5	8.5		6X
2P19B *	PND	SIN	T3B		F	2.2	70	200	15	1.0	120	90	5	8	3.5	1.7			4.5	7.0		PS6
2P29L *	PND	SIN	F10		F	2.2	120	200	20	2.0	160	120	6	10	2.0	2.0		50k	4.3	5.5		PS3
2P29P *	PND	SIN	T5		F	2.2	110	200	5	1.0	120	45	0	<2	0.4	1.2		100k	4.9	2.0	120	PS8
2S1	TRI	SIN			F	2.0	110	120		2.0	80		0	<6		1.5	14	9k	3.6	3.0		
2S2	TRI	SIN	T8		F	2.0	120	160		0.6	120			1		1.3	22	17k	2.8	2.7		5S
2S3A *	TRI	SIN			F	2.4	120	70		1.8	65		2	10		2.7	<8	28h	1.6	3.1		T30
2S4S *	TRI	SIN		PA	F	2.5	2500	360		15.0	300		62	40		4.0	4	800k	7.5	5.5		4D
2S14B *	TRI	SIN	T3F		F	2.2	60	250	5	0.7	90		3	<4		1.8	15	8400	2.8	2.1	300	TS2
2S49D *	TRI	SIN	LIT		H	2.4	480	300	50	4.0	250		1	15		6.0	62	500M	3.3	0.1		
2TS2S *	DIO	SIN	S12		H	2.5	1750	12k	65		4k			7								4AC
2VD8	DIO	SIN				2.5	1750	12k	100													
2ZH1M	PND	SIN			F	2.0	320			0.5	160	80	2	7	1.5	1.8						PS8
2ZH2M	PND	SIN	T9		F	2.0	60	160		0.5	120	70	<1	2	0.5	.9		1M	5.4	8.1		5Y
2ZH4	PND	SIN			F	2.0	275			1.2	200	100	7	14	2.4	1.8		110k				PS8
2ZH14B*	PND	SIN	T3B		F	2.2	30	90	5	0.5	90	45	0	2	0.8	1.2			4.5	6.0		PS6
2ZH15B*	PND	SIN	T3B		F	2.2	14	200	5	1.0	60	45	0	1	0.7	0.7			4.0	5.0		P4S
2ZH27L*	PND	SIN	F10		F	2.2	57	200	5	1.0	120	45	0	2	0.5	1.2		700k	5.3	4.9		PS3
2ZH27P*	PND	SIN	T5		F	2.2	57	200	5	1.0	120	45	0	1	0.5	1.0		<2M	4.5	2.0		PS4
2ZH28L	PND	SIN			F	2.2	28			1.0	120	45	0	2	0.5	1.2		<2M	5.4	4.8		PS3
EM-3	TET	SIN	T16		F	3.0	120				6	4	3	70μ	0.4	0.1	1		5.0			
3A4S	PND	SIN			F	3.2	100				150	90	0	13	2.2	1.9						P7S
3B4S	BEA	SIN	T5		F	3.2	150				180	150	20	30	2.5	2.4						P8S
3D6A-V*	DIO	SIN			H	3.2	32	450	10	0.2	165			35						3.8		D15
3S1	TRI	SIN			F	2.5	1A				220		4	8		2.2	22	10k				
3S2	TRI	SIN			F	2.5	1A				220		10	15		2.4	11	4k				
3S6B-V*	TRI	SIN			H	3.2	480			1.4	120			9		5.3	26	5k	3.4	3.4		T31
3S7B-V*	TRI	SIN			H	3.2	440			1.4	250			<5		4.2	70	17k	3.3	3.4		T31
3S9	TRI	SIN			F	2.5	1000			6.0	220		10	17		2.4	11		5.0	2.5		4F
3TS16S□	DIO	SIN	T10		H	3.2	220	35k	80		120			1					1.5		12k	4AC
3TS18P*	DIO	SIN	T6		H	3.2	210	25k	15		100			8					1.5			DS3
3TS22S*	DIO	SIN	T10	TV	H	3.1	400	36k	80		30k			2						2.5		D7
3ZH1BV*	PND	SIN			H	3.2	400			1.2	120	120		<8	<.4	4.8			4.8	4.3		
3ZH2BV*	PND	SIN			H	3.2	400			0.9	120	120		<6	<.6	3.8			4.9	4.1		PS5
EM4 *	TRI	SIN	T6	EL	F	1.3	24	10	500μ		8		3	300μ		<.1	2		3.5			
4D5S □	DIO	SIN	T4		H	4.0	210			0.4	10			30								D12
4D17P	DIO	SIN			F	4.0	1750	200	16	1.0	60			7								D10
4E1	TET	SIN			F	4.0	75	200		2.0	160	80	0	3		.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	330	250	50	7.5	150	150	3	60	7.0	6.5		30k	8.5	9.4	100	PS2
4P10S	PND	SIN				4.0	1750				315	210	7	63	1.4	8.5						
4S1	TRI	SIN			F	4.0	70				120		0	8		1.3	11	8k				
4S2	TRI	SIN			F	4.0	70				160		0	4		1.3	25	18k				
4S3	TRI	SIN			F	4.0	155	200		3.0	160		6	15		2.1	9		3.8	2.4		
4S3S	TRI	SIN	F9		H	4.4	330	300	30	5.0	100		4	27		3.0	12	4200	1.5	0.6	1k	TS3
4S4	TRI	SIN			F	4.0	1A			15.0	250		37	57		3.2	4	1k				
4S5	TRI	SIN			H	4.0	1A				240		3	6		1.7	32	20k				
4TS6S □	DIO	SIN	S10		W	4.0	1750			1.0	50			7								DS4
4TS14S□	DIO	SIN	T11		W	4.0	1750	60	20	1.2	60			7								DS4
4VD1	DIO	SIN			F	4.0	700				350			50								

Type No.	Kind	Type	Bulb	Use	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_p W	Typical E_b V	Typical E_{g2} V	Typical E_{g1} V	Typical I_b mA	Typical I_{g2} mA	Typical Sm mmho	Typical μ	Typical R_p Ω	Capacity In pF	Capacity Out pF	f_{max} MHz	Base No.
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	0	7	0.9	1.5		1M	3.7	4.0	200	PS1
4ZH1P	PND	SIN	F10		H	4.2	225	250	11	2.0	150	75	0	7								
4ZH5	TET	SIN			H	4.0	1000	250			120	40	1	<3	1.7	1.3		770k	14.0	4.5		
4ZH5S	PND	SIN		RF	H	4.0	1000				160	60		5	3.5	2.0			11.0	4.5		
EM-5 *	TET	DBA	T7	EL	H	3.1	115	5			5		3	85μ		<0.1	1		1.6			T2E
GP-5 *	TRI	SIN	T15	TV	H	6.3	210	30k	2				7	<2		0.6			1.5	4.0		T4S
5TS3S *	DWD	SIN	S16		F	5.0	3000	17h	750		75			225								DW1
5TS4M *	DIO	DUO	T11		H	5.0	2000	15h	415		400			133								DW4
5TS4S *	DIO	DUO	T10		H	5.0	2000	13h	375		500			300								DW4
5TS8S □	DWD	SIN	T17		H	5.0	5000	17h	1200	30.0	500			300								DW2
5TS9S □	DWD	SIN	F13		H	5.0	3000	17h	600	12.0	500			180								DW2
5TS12P*	DWD	SIN	T7		H	5.0	870	5k	350	5.0	2k			50								DS1
5VKH2	DWD	SIN				5.0	2000	14h	375													
5VKH3	DWD	SIN				5.0	3000	15h	675													
EM-6 *	TET	DBA	T6	EL	H	4.5	75	5			5		3	70μ		<0.1	1		1.8			T2E
SG6S	REG	TRI	T12			6.3	825	25k	300μ		20k		150	100μ								D8
6A2P *	PTG	SIN	T5	CN	H	6.3	300	330	14	1.1	250	100	<2	3	1.0	.3		100k	3.1	9.2		7CH
6A3P □	GTB	SIN	T6	CN	H	6.3	300	150	20	1.2	75	75	4	5	7.0	1.2			4.7	4.0		7DF
6A4P *	PTG	DBA	T7	CN	H	6.3	440	250	20	2.0	200	100		34	26.0	16.0			10.5	2.8		P35
6A7 *	PTG	SIN	M8	CN	H	6.3	300	300	15	1.1	250	100	0	4	8.5	.4		500k	9.5	12.0		8R
6A8 □	PTG	SIN	M11	CN	H	6.3	300	300	15	1.0	250	250	0	4	2.7	.5		360k	4.0	9.0		8A
6A10S	PTG	SIN	M11	CN	H	6.3	300	330	15	1.1	250	100	0	4	9.0	.4		1M	9.0	10.0		8R
6B1P *	DIO	PND	T7		H	6.3	400	200		0.8	150			15					6.2	4.0		PS5
6B1P *	PND	DIO	T7		H	6.3	400	550	20	4.5	250	250	2	26	2.7	29.0			9.0	4.0		PS5
6B2P *	PND	DIO	T7	RF	H	6.3	300			2.1	250	100	1	6	1.6	2.7		700k	4.2	4.1		PS5
6B8 *	PND	DWD	M10		H	6.3	300	275			250	125	3	10	2.4	1.6		750k	5.7	7.5		8E
6B8S	PND	DWD	S12	RF	H	6.3	300	275		2.5	250	125	3	10	2.4	1.3		600k	4.0	9.0		8E
6D3D □	DIO	SIN	LIT		H	6.3	770	200	150		7			27							3G	DS2
6D4ZH □	DIO	SIN	AC0		H	6.3	150	365	30		165			5					1.9			4G
6D6A *	DIO	SIN	T2F		H	6.3	150	450	70	0.2	165			8					3.0		700	
6D8D □	DIO	SIN	PEN		H	6.3	450	450		<0.1	150			<4							5G	
6D10D □	DIO	SIN	PEN		H	6.3	750	100	30	0.5	100			8					3.5			
6D13D *	DIO	SIN	PEN		H	6.3	210	450		1.0	150			150μ					0.8		48h	
6D14P *	DIO	SIN	T22		H	6.3	1100	56h	600	4.5	20			175					10.0			9CB
6D15D	DIO	SIN	LIT		H	6.3	330	200	750	0.5									1.2			
6D16D	DIO	SIN	LIT		H	6.3	240	450	2000	1.0	100			14					2.0		3G	DS9
6D20P *	DIO	SIN	T7		H	6.3	1800	6k	600	5.0				250					9.0			9BD
6D22S *	DIO	SIN	TI0	TV	H	6.3	1900	6k	1000	8.0				300						12.0		D9
6E5P *	TET	SIN	T6		H	6.3	600	150	70	8.3	150	150	2	45	14.0	30.5		8k	15.0	2.6		TE1
6E6P *	TET	SIN	T7	RF	H	6.3	600			8.4	150	150	1	44	10.0	30.5		15k	15.0	5.8		9EQ
6E6P-YE	TET	SIN	T7		H	6.3	600	150	70	8.3	150	150	2	44	10.0	29.5		15k	15.0	2.7		
6E7P *	TET	SIN	T7	CN	H	6.3	750	5k	10	10.0	5k	25	2	2	0.1	1.6	2k		5.6	1.1		TE9
6E12N *	TET	SIN	NUV		H	6.3	130	250	20	2.2	125	50	1	10	3.6	10.0			7.1	1.6		TE8
6E13N *	TET	SIN			H	6.3	140			2.0	27	27		7	3.6	8.5			7.0	1.9		T3E
6E14N *	TET	SIN			H	6.3	140			2.2	27	27		7	3.6	10.0		100k	7.0	1.5		T3E
6F1P *	TRI	PND	T7		H	6.3	430	250	14	1.5	100		2	13		5.0	20	4k	2.5	0.3		9AE
6F1P *	PND	TRI	T7		H	6.3	430	250	14	2.5	170	170	2	10	4.0	6.2		400k	5.5	3.4		9AE
6F3P *	TRI	PND	T7		H	6.3	850	600	15	1.0	170		1	2		2.5	75	28k	2.2	0.4		PT5
6F3P *	PND	TRI	T7		H	6.3	850	275	60	8.0	170	170	11	41	14.0	7.0		15k	9.3	8.5		PT5
6F4P *	PND	TRI	T6		H	6.3	720	250	40	4.0	170	170	2	18	7.0	11.0		100k	9.5	4.0		PT4
6F4P *	TRI	PND	T6		H	6.3	720	250	12	1.0	200		2	3		4.0	65	16k	4.0	0.6		PT4
6F5M	TRI	SIN	T10		H	6.3	300	350		4.0	250		2	1		2.0	100					5M
6F5P *	TRI	PND	T7		H	6.3	900	250	15	0.5	100		1	5		7.0	70	10k	3.5	0.3		PT6
6F5P *	PND	TRI	T7		H	6.3	900	300		9.0	185	185	12	41	2.7	7.5		23k	11.7	8.8		PT6
6F5S	TRI	SIN	T5		H	6.3	325			1.3	250		2	<2		2.0						
6F6M1	PND	SIN	T11		H	6.3	700				250	250	<17	46		2.9						7S
6F6S	PND	SIN	S14	PA	H	6.3	700	375		11.0	250	250	16	34	6.5	2.5			7.5	11.0		7S
6F7	TRI	PND	M11		H	6.3	300	110		0.5	100		3	3		.5	70					PT2

Type No.	Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical								Capacity		f_{max}	Base
								E_b	I_b	P_p	E_b	E_{g2}	E_{g1}	I_b	I_{g2}	Sm	μ	R_p	In	Out	MHz	No.
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF		
6F7	PND	TRI	M11		H	6.3	300	275		2.2	250	100	3	7	1.6	1.1						PT2
6F9P *	TRI	PND			H	6.3	410				150			9		14.0			3.5	1.8	250	PT8
6F9P *	PND	TRI			H	6.3	410				150	120		<11	2.9	13.5			5.7	3.4	250	PT8
6F12P	TRI	PND	T7		H	6.3	360	250	22	3.5	150			13		20			3.6	0.8		PT7
6F12P	PND	TRI	T7		H	6.3	360	300	22	5.0	150	150		13	2.2	20			5.7	1.7		PT7
6G1 □	TRI	DWD	M10		H	6.3	300	275		2.7	250		9	9		1.9	16	8500	2.6	2.7		8Q
6G2 *	TRI	DWD	M10		H	6.3	300	300		0.9	250		2	1		1.1	100	91k	2.8	3.0		8Q
6G2P-K	TRI	DWD	T6		H	6.3	300				250		2	1		1.8	100					
6G3P	TRD	TRI	T6		H	6.3	450	350	75					10								TT1
6G3P	TRI	TRD	T6		H	6.3	450	300		1.0	250		3	1		1.3	63	48k	2.0	1.2		TT1
6G7 *	TRI	DWD	M10		H	6.3	300	330	1	1.0	250		3	1		1.3	70	54k	5.0	3.8		TD3
6I1P *	PTG	TRI	T60		H	6.3	300	300	12	1.7	250	100	2	4	6.5	.8		1M	5.1	7.4		9CA
6I1P *	TRI	PTG	T60		H	6.3	300	250	6	0.8	100		2	7		2.2	23	6k	2.6	2.0		9CA
6I3P	TRI	PTG	T6		H	6.3	300	250	10	1.0	100		2	<7		2.7	20		2.6	2.0		9CA
6I3P	PTG	TRI	T6		H	6.3	300	300	12	1.9	250	100	2	5	2.8	2.5		700k	5.1	7.4		9CA
6I14P	TRI	PTG	T6		H	6.3	300	250	12	0.8	100			11		4.0	23	6k	2.6	2.0		9CA
6I14P	PTG	TRI	T6		H	6.3	300	300	6	1.7	250	100	2	7	3.5	.8		1M	5.1	7.4		9CA
6K1B *	PND	SIN	T3F		H	6.3	200	150	15	1.2	120	120	2	8	4.0	4.8			5.1	3.8		P29
6K1L	PND	SIN	F11		H	6.3	150			1.0	150	75	2	3	0.9	1.3		700k	3.8	4.2		PS1
6K1P □	PND	SIN	T5		H	6.3	150	275		1.8	250	100	3	6	2.7	1.8		400k	3.4	3.0		7CM
6K1ZH □	PND	SIN	AC0		H	6.3	150	275		1.8	250	100	3	7	2.7	1.8		400k	3.0	3.0		
6K3 *	PND	SIN	M8		H	6.3	300	330		4.4	250	100	3	9	2.5	2.0		800k	6.0	7.0		8N
6K4 *	PND	SIN	M8		H	6.3	300	330		3.3	250	125	1	12	4.4	4.7		900k	8.5	7.0		8BK
6K4P *	PND	SIN	T6		H	6.3	300	300	20	3.0	250	100	1	10	3.7	4.4		800k	6.0	5.5		7BD
6K6A *	PND	SIN	T2B		H	6.3	127	150	15	1.3	120	100		9	5.5	4.5			3.6	3.3		P32
6K7 *	PND	SIN	M10		H	6.3	300	330		3.0	250	100	3	7	1.7	1.5		830k	6.6	9.8		7R
6K8B	PND	SIN	T6		H	6.3	300	30	15	0.5	25	12		<4	4.2	1.0		12k	6.7	4.1		7BD
6K8P	PND	SIN		RF	H	6.3	300			0.5	13	3		900μ	0.2	1.1		190k	6.7	4.1		6CC
6K9S	PND	SIN	M10		H	6.3	300	330		4.4	250	100	3	9	2.5	2.0		800k	4.8	11.0		7R
6K11B-K	PND	SIN	T3B		H	6.3	200	150	15	1.2	120	120		8	4.0	4.8			3.9	2.8		P29
6K13P *	PND	SIN	T7		H	6.3	300	250	20	2.5	200	90	<2	12	4.5	12.5		500k	11.7	3.9		P20
6K14B	PND	SIN	T3B	RF	H	6.3	120				50	50	1	6	1.5	5.0			6.1	2.1		P26
6K14B-V	PND	SIN	T3B	RF	H	6.3	125	150	10	0.5	50	50	1	<6	1.5	5.0			6.1	2.1		P26
6K15E *	PND	SIN	T3B		H	6.3	400				100	100	1	8	2.5				8.0	5.5		
6K16B *	PND	SIN	T3B		H	6.3	400				100	100	4	15	5.0				7.5	5.5		
6KH2P *	DIO	TWN	T6		H	6.3	300	450	90	0.5	150			35					3.8		600	6BT
6KH6B	DIO	TWN			H	6.3	300	100	4													DW9
6KH6S *	DIO	TWN	T9		H	6.3	300	465	50		165			16					4.0			8AN
6KH7B *	DIO	TWN	T3B		H	6.3	300	450	70	0.2	165			10					5.8			DW5
6LIP *	HPT	SIN	T6B		H	6.3	320	300		3.0	150	150	0	<16	5.0				3.5	2.6		P37
6L7 □	PTG	SIN	M11	MX	H	6.3	300	330		1.5	250	100	3	5	6.6	1.1		1M	7.5	11.0		7T
6N1P *	TRI	TWN	T6		H	6.3	600	300	25	2.2	250		4	8		4.3	35	11k	3.1	1.8		9AJ
6N2P *	TRI	TWN	T6		H	6.3	340	300	10	1.0	250		1	2		2.1	98	47k	2.4	3.0		9AJ
6N3P *	TRI	TWN	T6		H	6.3	350	300	18	1.5	150		2	8		5.9	37	6k	2.7	1.4		8CJ
6N4P	TRI	TWN	T6		H	6.3	300	300	10	1.5	250		4	3		1.7	47	23k	1.5	1.6		9AJ
6N5P □	TRI	TWN	T6		H	6.3	600	300	25	2.2	200		5	8		4.2	27	6500	3.0	1.7		9AJ
6N5S *	TRI	TWN	S16	PA	H	6.3	2500	250	125	13.0	90		30	62		5.0	3	460	9.5	5.0		8BD
6N6P *	TRI	TWN	T7		H	6.3	750	300	45	4.8	120		2	30		10.5	20	1800	4.4	1.9		9AJ
6N7	TRI	TWN	M9		H	6.3	800	300		1.0	250			7		2.0	32	16k				
6N7S *	TRI	DUO	T9		H	6.3	810	300		4 2	250		6	7		3.2	35	11k	1.6	3.2		8B
6N8S *	TRI	TWN	T10		H	6.3	600	330	20	2.7	250		8	9		2.6	20	8k	2.8	3.8		8BD
6N9S *	TRI	TWN	T10		H	6.3	300	275		1.1	250		2	2		1.6	70	44k	1.7	1.5		8BD
6N10S	TRI	DUO	T11		H	6.3	300	275		11.0	250		2	2		1.3	70	54k	1.4	0.2		8S
6N12S *	TRI	TWN	T11		H	6.3	900	300	34	4.2	180		7	23		6.4	17	2700				8BD
6N13S *	TRI	TWN	S16		H	6.3	2500	250	130	13.0	90		30	80		5.0	2	460	7.0	4.2		8BD
6N14P *	TRI	TWN	T6		H	6.3	350	300	22	1.5	90		1	10		6.8	25	3200	4.9	2.9		9DD
6N15	TRI	TWN			H	6.3	450				100			9		5.6	38					
6N15P *	TRI	TWN	T5		H	6.3	450	330	40	1.6	100		<1	9		5.6	38	6800	2.3	0.5		7BF
6N16B *	TRI	TWN	T3B		H	6.3	400	200	14	0.9	100			2	6	5.0	25	5k	2.5	1.6		TD1
6N17B *	TRI	TWN	T3B		H	6.3	400	250	10	0.9	200			1	3	3.8	75	20k	2.8	1.5		TD1

Type No.	Kind	Type	Bulb	Use	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_p W	Typical E_b V	Typical E_{g2} V	Typical E_{g1} V	Typical I_b mA	Typical I_{g2} mA	Typical Sm mmho	Typical μ	Typical R_p Ω	Capacity In pF	Capacity Out pF	f_{max} MHz	Base No.
6N18B *	TRI	TWN	T3B		H	6.3	330	200	14	0.9	100		2	6		5.0	25	325k	2.6	1.5		TD1
6N19P *	TET	TWN	T7		H	6.3	650	250	50	2.0	150			14		13.5		25k	3.8	1.2		
6N21B *	TRI	TWN	T3B		H	6.3	395	250		1.0	200			<4		3.8	82		2.8	0.6		T21
6N23P *	TRI	TWN	T7		H	6.3	300	300	20	1.8	200			15		12.7	32		3.6	2.1		9AJ
6N24P *	TRI	TWN	T7		H	6.3	300	300	20	1.8	90		9	15		12.5	33		3.9	3.2		9DD
6N25G *	TET	TWN	T4B		H	6.3	350	200	30	1.2	75		1	<10		1.5	18		1.1	0.7		T20
6N26P *	TRI	TWN	T6		H	6.3	600	250	30	2.6	150		<2	14		9.5	48	5k	4.0	2.2		8CJ
6N27P *	TRI	TWN	T6		H	6.3	330	30	20	0.6	13		<3	<3		4.9	15		3.0	2.0		9AJ
6N28B	TRI	TWN		RF	H	6.3	200			0.9	50		1	7		6.8	25		3.0	2.3		T19
6N28B-V	TRI	TWN	T3B		H	6.3	245	150	10	0.9	50		1	7		6.7	24		2.6	1.8		T19
6P1P *	BEA	SIN	T7		H	6.3	500	250	70	12.0	250	250	12	44	7.0	4.9		50k	7.8	5.7		PS9
6P2P	PND	SIN				6.3	450				120	120	5	35	12.0	8.0						6CC
6P3S *	BEA	SIN	T12		F	6.3	900	400	90	20.0	250	250	14	72	8.0	8.0		22k	11.0	8.2		7S
6P4	PND	SIN			H	6.3	300				180	180	9	15		2.3			5.5	7.0		
6P6B	PND	SIN			H	6.3	700	375			250	250	16	34	6.5	1.5			6.0	12.0		7S
6P6S *	BEA	SIN	T9	PA	H	6.3	450	350	100	13.2	250	250	12	46	7.5	4.1		52k	9.5	9.5		7S
6P7S *	BEA	SIN	S16		H	6.3	900	6k	100	20.0	250	250	14	72	8.0	5.9		32k	11.5	6.0		PS7
6P8S	PND	SIN	T11		H	6.3	300				180	180	9	15		2.4						7S
6P9 *	BEA	SIN	M10	PA	H	6.3	650	330		9.0	300	150	3	30	6.5	11.7		80k	9.3	5.8		8Y
6P9E	BEA	SIN	M10	PA	H	6.3	560	330		9.0	300	150	3	25	5.8	11.2		100k				8Y
6P13S *	BEA	SIN	T10		H	6.3	1300	450	130	14.0	200	200	19	60	8.0	9.5		25k	18.5	6.5		5BT
6P14P *	BEA	SIN	T6	AF	H	6.3	760	300	66	12.0	250	250	6	48	7.0	11.3		20k	11.0	7.0		9CV
6P15P *	BEA	SIN	T6	TV	H	6.3	760	330	90	12.0	300	150	2	30	4.5	14.7		100k	14.0	7.0		P1S
6P17S	BEA	SIN			H	6.3	900	500		20.0	250	250	14	72	8.0	5.9		32k	11.5	6.0		
6P18P *	BEA	SIN	T6	AF	H	6.3	760	25h	75	12.0	170	170	6	53	8.0	11.0		23k	11.5	6.0		9CV
6P20S *	BEA	SIN	S16		H	6.3	2500	450	200	27.0	175	175	30	90	6.0	8.5		7k	24.0	10.0		5BT
6P21S *	BEA	SIN	T12		F	6.3	750	600	100	18.0	600	200	16	36	5.0	4.0		20k	8.2	6.5	80	P14
6P23P *	BEA	SIN	T6	RF	H	6.3	750			11.0	300	200	16	40	5.0	4.5			7.5	4.5		P44
6P23S *	BEA	SIN	T6		F	6.3	750	350	100	11.0	300	200	16	40	5.0	4.5		44k	7.5	4.5	180	P38
6P25B *	PND	SIN	T3B		H	6.3	450	170	50	4.1	110	110	8	30	5.0	4.5			7.5	8.5		P30
6P27S *	BEA	SIN	T12		H	6.3	1500	800	150	27.5	250	265	13	100	15.0	10.0		15k	15.0	11.0		7S
6P30B *	PND	SIN	T3B		H	6.3	465	250	60	5.5	120	120		35	2.0	4.5			12.0	4.2		P22
6P31S *	BEA	SIN	T11	TV	H	6.3	1300	600	200	10.0	100	100	9	80	8.5	12.5		4k	18.0	8.5		PS7
6P33P *	PND	SIN	T6		H	6.3	900	250	100	12.0	170	170	12	70	6.5	10.0		25k	12.0	7.0		9CV
6P34S *	PND	SIN	T11		H	6.3	2000	250	150	18.0	180	180	14	70	8.5	13.0			21.0	11.0		P23
6P35GV*	PND	SIN			H	6.3	450			5.2	80	80	5	50	10.0	10.5			11.5	6.0		P41
6P36S *	BEA	SIN	T13	TV	H	6.3	2000	250	250	17.0	100	100	7	120		20.0		4500	36.0	21.0		P21
6P37N *	PND	SIN	NUV		H	6.3	1210	200	400	15.0	100	100	9	100	22.5	18.0			20.0	2.3		
6P38P *	PND	SIN			H	6.3	450			10.5	150	150		50	8.0	65.0		30k	21.5	3.9		P33
6P39S *	PND	SIN			H	6.3	600			10.0	125	125	0	50	6.0	45.0		18k	18.0	4.0		P16
6P41S *	BEA	SIN			H	6.3	1100			14.0	170	170		66	2.7	8.4		12k	23.0	10.5		P40
6P42S *	BEA	SIN	T15	TV	H	6.3	2100	7k	700	24.0	150	150		20					13.5	38.0		P21
6R2P	BEA	DUO			H	6.3	600			6.5	200	200	16	20	2.0	2.5			4.5	2.0		PD7
6R3S	BEA	DUO			H	6.3	2000			20.0	350	250	30	45		4.5			10.0	4.0		PD8
6S1P □	TRI	SIN	T6	RF	H	6.3	150	275	20	1.8	250		7	6		2.2	26	11k	1.4	1.1		7BS
6S1ZH □	TRI	SIN	ACO		H	6.3	150	275		1.8	250		7	6		2.2	26	11k	1.0	0.6	600	T3S
6S2B *	TRI	SIN	T3B		H	6.3	250	250	40	2.5	150			11		11.0	50		6.5	4.4		T12
6S2P □	TRI	SIN	T6		H	6.3	400	165		2.5	150		1	14		11.5	48	4200	5.3	4.2		7BQ
6S2S *	TRI	SIN	T9		H	6.3	300	330	20	2.7	250		8	9		2.5	20	8000	3.0	4.5		6Q
6S3B *	TRI	SIN	T3F		H	6.3	150	300	12	2.5	270			8		2.2	14	6400	2.5	3.9		
6S3P *	TRI	SIN	T6		H	6.3	300	160	35	3.0	150		1	16		20.0	50	2600	6.5	1.5		TS4
6S4B	TRI	SIN	M9		H	6.3	300			0.4	250			1		1.5	100	66k	2.0	12.0		5M
6S4P *	TRI	SIN	T6		H	6.3	300	160	35	3.0	150		1	16		20.0	50	2600	11.5	3.7		TS4
6S4S □	TRI	SIN	S16	PA	F	6.3	1000	360		15.0	250		45	60		5.4	4	840				5S
6S5	TRI	SIN	M11		H	6.3	300			1.2	250		8	8		2.2	20		3.0	11.0		6Q
6S5D *	TRI	SIN	LIT		H	6.3	770	300	25	6.5	250		3	15		5.0	42	9k	2.3	0.5	3G	6BY
6S5S *	TRI	SIN	T10		H	6.3	300	350		2.7	250		6	8		2.2	20	9k	3.8	12.0		6Q
6S6B *	TRI	SIN	T3F		H	6.3	200	250	14	1.4	120		2	9		5.0	25	5k	3.3	3.5	500	
6S7B *	TRI	SIN	T3F		H	6.3	200	300	7	1.4	250		2	<5		4.0	65	16k	3.3	3.4		
6S8S □	TRI	SIN	T10		H	6.3	300	500	500	3.6	300		10	11		3.0	20	6700	2.2	0.6		TS5

Type No.	Kind	Type	Bulb	Use	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_p W	Typical E_b V	Typical E_{g2} V	Typical E_{g1} V	Typical I_b mA	Typical I_{g2} mA	Typical Sm mmho	Typical μ	Typical R_p Ω	Capacity In pF	Capacity Out pF	f_{max} MHz	Base No.
6S9D *	TRI	SIN	LIT		H	6.3	570	300	25	5.5	250		1	15		10.0	100	10k	2.9	<0.1	900	6BY
6S10D	TRI	SIN	LIT		H	6.3	920	5k	8500	9.0											3G	6BY
6S11D	TRI	SIN	PEN		H	6.0	176	120	30	3.6	110		2	20		6.5	17	2500	2.5	0.1	18h	
6S13D *	TRI	SIN	MCR		H	6.3	770	350	35	9.0	300		4	21		5.2	32	6200	2.7	<0.1	36h	
6S15P *	TRI	SIN	T6		H	6.3	440	160	52	7.5	150			40		45.0	52		10.5	1.5		T2S
6S16D	TRI	SIN	PEN		H	6.3	192	170	35	3.6	135		4	12		6.0	17	2800	2.5	0.1	18h	
6S17K *	TRI	SIN	MCR		H	6.3	295	200	11	2.0	175		1	10		12.0	125	10k	3.5	<0.1		
6S18S *	TRI	SIN	T20		H	6.3	6600	450	500	60.0	120		20	550		40.0	2	60				TS6
6S19P *	TRI	SIN	T7		H	6.3	1000	350	110	11.0	100		7	95		7.5	4	500	6.5	2.5		TS7
6S20S *	TRI	SIN	T13		H	6.3	200	25k	<2	25.0	25k		8	1		.2	2k	10M	2.5	0.7		TS8
6S21D *	TRI	SIN	PEN		H	6.3	176	200		3.6	110		2	20		6.5	16	2500	2.5	0.7	18h	
6S25B	TRI	SIN	T3B		H	6.3	220	250	15	1.4	120			8		5.0	29	220k	3.3	3.5		
6S26B *	TRI	SIN	T3B		H	6.3	200	250	15	1.4	120		2	9		5.0	25	220k	3.3	3.5		
6S27B *	TRI	SIN	T3B		H	6.3	200	300	7	1.4	250			<5		4.0	65	16k	3.3	3.4		
6S28B-V	TRI	SIN	T4B		H	6.3	310	150	35	2.4	120			16		19.0	40	2500	5.8	2.2		T25
6S29B-V	TRI	SIN	T4B		H	6.3	310	150	35	2.4	120			16		19.0	40	2500	9.5	3.9		T26
6S30B	TRI	SIN	T3B		H	6.3	425	200	60	5.0	50			40		21.0	17	800k	7.0	1.5		
6S31B *	TRI	SIN	T3B		H	6.3	220	100	60	2.5	50		0	40		18.0	17		4.1	1.5		T13
6S32B *	TRI	SIN	T3B		H	6.3	165	250	10	1.5	200			4		3.5	100		2.8	0.7		T14
6S33B *	TRI	SIN	T20		H	6.3	6600	600	600	60.0	120			550		40.0		80	30.0	9.0		T16
6S33S *	TET	TWN	T20		H	6.3	5600			60.0	120			550		45.0	14	80	30.0	10.5		T16
6S34A-V	TRI	SIN	T2B		H	6.3	127	200	15	1.1	100		1	8		4.6	25		2.0	2.3	480	T28
6S35A-V	TRI	SIN	T2B		H	6.3	127	300	7	0.9	200		1	3		4.0	70	17k	2.0	2.4		T28
6S36K *	TRI	SIN	C5		H	6.3	320	300	10	3.0	250		<1	6		8.0	145	18k	3.5	0.2	9k	
6S37B *	TRI	SIN	T3B		H	6.3	440	120	2000	4.5	80		<2	40		16.5	13	800k	6.0	4.7		T27
6S39S	TRI	SIN	T20	VR	H	6.3	200	30k	<3	75.0	30k		45	<3		.2	500		3.5	1.2		T11
6S40P *	TRI	SIN	T7		H	6.3	170	20k	500μ	6.0	20k		14	300μ		0.2	1k		2.5	0.5		T15
6S41S *	TRI	SIN	T13		H	6.3	2700	450	300	25.0	90			250		21.0			11.0	5.0		T16
6S44D *	TRI	SIN	PEN		H	6.3	330	300	80	8.0	250			26		6.0	25		4.0	0.1	3G	
6S45K	TRI	SIN			H	6.3	310				18h			500		13.0			2.8	10.1		
6S45P-Y	TRI	SIN	T7		H	6.3	440	150	52	7.8	150			40		45.0	52		11.5	1.9		T2S
6S46G *	TRI	SIN	T4B		H	6.3	500	250	100	4.5	42		1	60		20.0	7		6.0	1.7		T25
6S47S *	TRI	SIN	T17		H	6.3	6200	600	3000	33.0	90			400		45.0			37.0	7.0		TS6
6S48D	TRI	SIN	PEN		H	6.3	95	150	10	3.0	50		0	5		3.5	40		3.0	<0.1		
6S50D *	TRI	SIN	PEN		H	6.3	365	15h	3000	8.0	250		4	22		6.0	32		4.0	0.1		
6S51N *	TRI	SIN	NUV		H	6.3	130	110	15	1.0	75			10		11.2	32		4.7	2.2	800	
6S52N *	TRI	SIN	NUV		H	6.3	130	125	15	1.0	110			8		10.0	64		4.7	2.4	800	
6S53N *	TRI	SIN	NUV		H	6.3	130	130	15	1.2	120		1	11		13.0	75		4.8	0.1	800	
6S56P *	TRI	SIN			H	6.3	1000			11.0	110		7	<1		8.5	13	350	6.0	5.0		TS7
6S58P *	TRI	SIN			H	6.3	300			5.7	150			27		36.0	64	17h	7.5	1.2		T26
6S59P *	TRI	SIN			H	6.3	300			5.7	150			27		36.0	62	17h	12.3	2.5		TS4
6S62N *	TRI	SIN	NUV		H	6.3	130	250	15	1.2	120			<1		1.7	90	53k	2.7	2.4		T32
6SK7	TRI	PND			H	6.3	300				100		3	3		.5	8		2.5	3.0		
6SK7	PND	TRI			H	6.3	300				250	100	3	6		1.1			3.2	12.5		
6TS4P *	DWD	SIN	T6		H	6.3	600	1k	300	3.0	350			75								DW6
6TS4S	DIO	SIN			H	6.3	600	1k	300					75								
6TS5S *	DWD	SIN	T10		H	6.3	600	11h	300		400			75								DW7
6TS10P*	DIO	SIN	T7		H	6.3	1050	45h	450		1k			120					5.0			9BD
6TS13P*	DIO	SIN	T7		H	6.3	950	16h	900	8.0	650			120								DS1
6TS15S	DIO	TWN	T13		H	6.3	1430	1k	375		350			62								8AN
6TS17S□	DIO	SIN	T10		H	6.3	1800	4k	1200	8.0				200					11.0			DS8
6TS19P*	DIO	SIN	T7		H	6.3	1100	45H	450		700			120					8.0			9BD
6V1P *	PND	SIN	T6	SM	H	6.3	400	550		4.5	250	250	2	26	2.7	29.0			9.0	4.6		PS5
6V2P *	PND	SIN	T7	SM	H	6.3	1800	600	1500	3.0	600	300	25			h2.2			26.0	15.0		PD9
6V3S	PND	SIN	T7	SM	H	6.3	900	700	1500	5.0	700	400	25	1200	8h	h2.0			15.0	14.0		P34
6VKH1	DWD	SIN			H	6.3	600	1k	200					70								DW7
6YE1P *	TRI	SIN	T7	ID	H	6.3	300	250		0.2	100		2	2		0.5	24					ID1
6YE2P	TRI	SIN	T7	ID	H	6.3	580	250		0.4	150		4	<2		1.4			3.0	7.0		ID3
6YE3P *	TRI	SIN	T6	ID	H	6.3	230	300	3	0.5	230		0	<1								ID2
6YE5S *	TRI	SIN	T11	ID	H	6.3	300	250			250		4	5		1.2	24					8B

Type No.	Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical							Capacity		f_{max}	Base
								E_b	I_b	P_p	E_b	E_{g2}	E_{g1}	I_b	I_{g2}	Sm	μ	R_p	In	Out	MHz	No.
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF		
6ZH1B *	PND	SIN	T3F		H	6.3	200	150	14	1.2	120	120		<8	3.5	4.8		200k	4.8	3.8		
6ZH1L	PND	SIN	F10		H	6.3	150			2.0	150	75	2	2	0.2	1.5		1m	4.0	4.2	200	PS1
6ZH1P *	PND	SIN	T6	UF	H	6.3	170	200	20	1.8	120	120	2	7	3.0	5.2		300k	4.3	2.4	120	7BD
6ZH1ZH*	PND	SIN	AC0		H	6.3	150	250		0.5	250	100	3	2	0.7	1.6		1m	3.5	3.0		
6ZH2B *	PND	SIN	T3F	RF	H	6.3	200	150	14	0.9	120	120	2	<6	6.0	3.2		500k	4.9	4.1		
6ZH2M	PND	SIN	T6	RF	H	2.0	60			0.5	120	70	<1	2	0.5	.9			5.4	8.1		
6ZH2P *	PND	SIN	T6	RF	H	6.3	170	200	20	1.0	120	120	1	6	5.0	3.9		100k	4.5	2.4		7CM
6ZH3 *	PND	SIN	M8	RF	H	6.3	300	330		3.3	250	150	1	11	4.0	4.9		900k	8.5	7.0		8BK
6ZH3M	PND	SIN			H	6.3	450	300		3.0	300	200		10	2.5	5.0		700k	11.0	5.0		8N
6ZH3P *	PND	SIN	T6	UF	H	6.3	325	330	20	2.5	250	150	<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	<2	10	2.2	9.0		900k	8.5	4.8		8N
6ZH4E	PND	SIN	M10		H	6.3	450	330		2.5	300	150	0	9	2.2	8.5						8N
6ZH4P *	PND	SIN	T6		H	6.3	300	300	20	3.5	250	150	1	11	4.3	5.7		200k	6.3	6.3		7BK
6ZH5A	PND	SIN			H	6.3	450				250	100		10	2.5	9.0						7BK
6ZH5B *	PND	SIN	T3F		H	6.3	250	150	28	2.6	120	120	2	15	6.0	10.0		100k	6.0	4.0		
6ZH5P *	BEA	SIN	T6		H	6.3	450	300	20	3.6	300	150	2	10	2.0	9.0		350k	8.5	2.2		7BK
6ZH6S *	PND	SIN	M10		H	6.3	500			2.5	250	100	2	10	2.5	7.5		2M	9.5	6.2		7R
6ZH7 *	PND	SIN	M10	RF	H	6.3	300	330		0.8	250	100	3	2	0.6	1.2		1M	7.0	12.0		7R
6ZH8 *	PND	SIN	S11	RF	H	6.3	300	330		2.8	250	100	3	3	0.8	1.6		2M	6.0	7.0		8N
6ZH8S	PND	SIN			H	6.3	300				100	100	3	3	0.9	1.6						8Y
6ZH9B	PND	SIN	T4F		H	6.3	310	150	26	2.4	120	120		15	5.5	17.0			7.5	3.3		
6ZH9G *	PND	SIN	T4B		H	6.3	310	150	35	2.4	120	120		15	5.5	17.0			7.5	3.4		
6ZH9P *	PND	SIN	T6		H	6.3	300	250	35	3.0	150	150	1	15	5.0	17.5		100k	8.5	3.3		9EQ
6ZH10B*	PND	SIN	T3F		H	6.3	250	150	28	2.2	120	120	1	<11	6.0	5.0		100k	6.5	4.5		
6ZH10P*	PND	SIN	T6		H	6.3	300	250	35	3.0	200	100	1	6	5.5	9.5		100k	8.9	3.9		9EQ
6ZH11P*	PND	SIN	T6		H	6.3	440	150	40	4.9	150	150	<2	25	5.0	28.0		30k	14.0	3.5		9EQ
6ZH13L	PND	SIN	M12		H	6.3	400				250	250	2	10	1.4	7.5						P18
6ZH20P*	PND	SCG	T7		H	6.3	450	250		4.0	150	150	1	16	6.0	16.5		100k	8.5	2.5	245	P31
6ZH21P*	PND	SCG	T7		H	6.3	350	200		2.5	150	150	1	15	5.0	15.0		60k	5.9	1.9	400	P32
6ZH22P*	PND	SCG	T7		H	6.3	500	200		5.5	150	150	1	30	7.5	23.0		60k	9.3	2.4	440	P32
6ZH23P*	PND	DBA	T7		H	6.3	440	150	40	2.4	150	150	2	14	6.0	15.0		36k	14.0	3.5		PD3
6ZH318K	PND	SIN	T3F		H	6.3	200	150	14	1.3	120	120		<8	3.5	5.0			4.8	3.8		
6ZH32B*	PND	SIN	T38		H	6.3	165	250	10	1.2	120	120		6	1.4	6.0			5.4	2.3		P24
6ZH32P*	PND	SIN	T6		H	6.3	200	300	6	1.0	250	140	2	3	1.0	0.8		3M	4.0	5.5		P17
6ZH33AV	PND	SIN	T2B		H	6.3	127	150	15	1.3	120	100		8	4.0	4.5		120k	3.6	3.3		P28
6ZH35BV	PND	SIN	T3F		H	6.3	127	150	15	0.9	120	110	2	6	6.5	3.1			4.6	3.5		PS5
6ZH38P*	PND	SIN	T6		H	6.3	180	300	20	3.0	150	100	1	12	1.0	10.6		280k	5.8	3.1		78K
6ZH39GV	PND	SIN	T4B		H	6.3	440	200	60	3.3	100	100		25	10.0	28.0			13.5	3.5		
6ZH40P	PND	SIN	T6		H	6.3	300	30	15	0.5	25	25	3	8	3.3	3.8			6 7	4.1		7CM
6ZH43P*	PND	DBA	T6		H	6.3	475	150	46	3.1	150	150	16	<15	6.5	14 5		36k	13.5	3.0		PD3
6ZH44P*	PND	SCG	T6		H	6.3	550	165	120	4.5	150	150		25	11.0	25.0			8.6	3.6		P25
6ZH45BV	PND	SIN	T3B		H	6.3	125	150	10	0.5	50	50	1	<6	1.5	5.4			6.1	2.1		P26
6ZH46BV	PND	SIN	T3B		H	6.3	125	150	10	0.5	50	50	1	<6	1.8	4.5			6.1	2.1		P36
6ZH49P*	PND	SIN	T6		H	6.3	300	150	22	2.8	150	150		14	2.4	16.7		100k	8.2	2.7		P33
6ZH50P*	PND	SIN			H	6.3	300			5.3	150	150		25	4 0	35.0		13H	12.0	2.8		P33
6ZH51P*	PND	SIN			H	6.3	300				200	200		<9	3.5	15.5			11 5	3.3		P20
6ZH52P*	PND	SIN	T7		H	6.3	330	350	60	10.0	150	150	1	40	8.0	55			13.5	1.8		9EQ
6ZH53P*	PND	SIN	T6		H	6.3	160	300	22	3.5	150	150	1	13	2.2	20			6.6	1.7		7BD
EM7 *	TRI	SIN	T3B	EL	F	1.0	18	8			7		2	200μ		<0.1	<2		1.6	1.9		
7P12S □	PND	SIN	S12	AF	H	7.3	850	200	60	8.0	135	135	15	31	7.0	2.8			7 7	9.5		5F
7ZH12S*	PND	SIN	S12		H	7.3	425	250		1.9	250	135	3	5	1.1	1.8		500k	6 1	15.0		6F
EM-8	PND	SIN	T3B	EL	H	6.3	100	20			15	15	<3	2	1.3	0.8	30		4 5	3 5		P39
EM-9 *	TET	TWN	T4B	EL	H	6.3	100				7		2	250μ		0.1						
10P12S *	PND	SIN	S12		H	10.0	640	200	60	8.0	135	135	15	31	7.0	2 9		20M	7.7	9.7		5F
10ZH1L *	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	<3	0.5	1.6		1M	3.4	3 6	200	PS1
10ZH3L *	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	<3	0.5	1.6		1300	4.0	4 2	200	PS1
10ZH12S*	PND	SIN	S12		H	10.0	320	250		1 9	250	135	3	6	1.0	1 8		500M	6.1	15.0		6F
12B1M	PND	DWD			H	12.5	220				25	25	1	1	0.4	1 9		7500				PD5
12B2M	PND	DWD			H	12.5	150				25	25	1	1	0.3	8		150k				PD6
12G1	TRI	DWD			H	12.6	150	275		2.7	250		9	9		1.9	16	8500	3 6	2 8		8Q

Type No.	Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical								Capacity		f_{max}	Base No.
						V	mA	E_b V	I_b mA	P_p W	E_b V	E_{g2} V	E_{g1} V	I_b mA	I_{g2} mA	Sm mmho	μ	R_p Ω	In pF	Out pF	MHz	
12G2 □	TRI	DWD			H	12.6	150	330		0.9	250		2	1		1.1	100	90k	3.2	3.0		8Q
12K1M	PND	SIN			H	12.5	225				25	25	<2	2	0.5	1.4		200k				7R
12K3	PND	SIN			H	12.6	150	330		4.4	250	100	1	9	2.5	2.0		800k	6.0	7.0		8N
12K4 *	PND	SIN	T10	RF	H	12.6	150			3.3	250	125	1	12	4.4	4.7			8.5	7.0		8BK
12KH3S □	DWD	SIN	F10		H	12.6	73	250	20	0.1	10			10					0.5		1G	DW8
12M1M	PND	TRI			H	12.5	225				25	25	1	1	0.3	1.9		7500				PT3
12N4P	TRI	TWN			H	12.6	150			1.5	250		4	3		1.8	40	22k	1.6	1.6		9AJ
12N10S	TRI	DUO	T11		H	12.6	150	275		1.1	250		2	2		1.3	70	54k	1.5	0.2		8S
12N11S	TRI	TWN			H	12.6	150			1.8	180		6	7		1.9	16	8500	3.2	2.6		8BE
12P4S	PND	SIN	T11		H	12.6	160				250	250	12	38		3.8						7S
12P14S	BEA	SIN			H	12.6	150			7.5	250	250	12	30		3.0			9.0	9.0		7S
12P17L *	PND	SIN	F11		H	12.6	325	250	60	7.5	150	150	20	35	5.0	7.0			10.0	8.5	120	P3S
12S2	TRI	SIN			H	12.6	150				250		8	9		2.0	20		3.4	3.6		8T3
12S3S *	TRI	SIN			H	12.6	100	300		5.0	100		4	27		3.0	12	4100	1.5	0.6	11h	TS3
12S42S *	TRI	SIN	T30		H	12.6	4900			H1.2	120		16	1000		60.0	<4	65	40.0	15.0		T17
12ZH1L *	PND	SIN	F10		H	12 6	75	250	11	2.0	150	75	2	2	0.5	1.6		1M	4.0	4.2	200	PS1
12ZH1M	PND	SIN			H	12.5	225				25	25	<2	2	0.5	1.4		200k				7R
12ZH3L *	PND	SIN	F10		H	12.6	75	250	11	2.0	150	75	2	2	0.5	1.6		1300	4.0	4.2		PS1
12ZH8 □	PND	SIN	M10		H	12.6	150	330		2.8	250	100	3	3	0.8	1.6		2M	6.0	7.0		8N
13P1S □	BEA	SIN		PA	H	13.0	765	110		6.0	110	80	2	52		7.5			15.5	10.5		
13ZH41S*	PND	SIN	T9		H	13.3	290				80	80	2	2	0.5	4.1			11.0	3.0		P27
15A6S	PND	SIN			H	15.0	300				180	135		48		2.5		30k				
16F3P *	PND	TRI			H	16.0	300	25h	60	8.0	275											PT5
16F3P *	TRI	PND			H	16.0	300	600	15	1.0	250											PT5
25P1	BEA	SIN			H	25.0	300			10.0	110	110		80		8.5						
25P1S	BEA	SIN			H	25.0	300			10.0	110	110		80		8.5						
30P1S *	BEA	SIN	T11	PA	H	30.0	300	110		7.0	110	110	7	70	12.0	10.0		9k	19.0	11.0		7S
30TS1M	DIO	SIN			H	30.0	300	300	500				250	90				2500				5AA
30TS6S □	DIO	TWN	S13		H	30.0	300	500	500		150			60					16.0			8AN
30VD1	DIO	SIN				25.0	300	500	500													4BQ
30VKH1	DIO	TWN			H	30.0	300	500	500		150			60								8AN
SB-47	PND	SIN			H	4.0	150				160	120	1	5	0.7	1.6		250k				
SB-51	PND	SIN			H	4.0	80				240	80	1	3	0.6	1.0		600k				
SO-57	PND	SIN			H	4.0	1A				240	100	1	3	0.8	3.0		500k				
SB-112	PND	SIN			H	4.0	80				160	80	1	2	0.6	.6		500k				
SO-124	PND	SIN			H	4.0	1A				160	60	2	5	3.5	2.0						
UB-132	TRI	SIN			F	4.0	150			3.0	160		6	15		2.1	9	4k				
TO-141	TRI	SIN	S17		F	2.6	1000				220		3	14		2.6						4F
TO-142	TRI	SIN	S17		F	2.6	1000				220		7	23		2.5						4F
SO-148	PND	SIN			H	4.0	1A				240	80	2	7	1.0	1.6		200k				
SB-152	TRI	SIN			F	2.0	120				100		<2	<5		1.5	14	10k				
UB-152	TRI	SIN			F	2.0	120				120		4	6		3.0	14	5k				
UB-153	TRI	SIN			F	2.0	200				100		6	8		2.5	10	4k				
SB-154	PND	SIN			F	2.0	90				160	60	1	3	0.4	1.2		290k				
UB-155	BEA	SIN			F	2.0	230			0.2	100	60	2	6	1.5	2.1		100k				
UB-178	TRI	SIN			F	2.0	120				100		<1	2		1.1	33	30k				
SO-182	PND	SIN			H	4.0	1100				240	100	1	7	2.0	2.5		800k				
UB-182	TRI	SIN			F	4.0	150			3.0	240		6	12		2.4	9	4k				
U0186	TRI	SIN	S16		F	4.0	1000			15.0	250		37	57		3.2	4	1k				4F
SB-190	PND	SIN			F	2.0	100				160	120	1	1	0 4	1.2		420k				5Y
191P	TET	SIN	T6	EL	H	1.0	46				6	3	4	100		50.0						TE2
UB-240	TRI	SIN			F	2.0	120			0.6	120			3		1.5	22	14k	2.8	2.8		5S
SO-242	PTG	SIN	S9	CN	H	2.0	160	300	14	1.0	120	70	0	3	.2	.1			7.0	8.6		7Z
SO-243	TRI	TWN			F	2.0	240			1.5	120			3		2.1	32	16k	2.8	3.4		7AB
SO-244	PND	SIN			F	2.0	185			1.5	120			4		1.8	270	150k	55.0	7.0		6X
SO-257	PND	SIN	S10		F	2.0	300				200	100	7	18		1.3						P19
SO-258	PND	SIN			F	1.8	320			1.3	160	120	6	2		2.0	160	80k	5.4	7.5		6X
M-457	TRI	SIN			F	4.0	2100			50.0	1k		72	70		7.0	8	1k				
1504	TRI	SIN	LIT		H	6.3	770	300	25	6.5	250			25		4.7	42	9k	2.3	0.5	36	
1506	BEA	TWN	T19		H	12 6	1120	500		15.0	400			110								7BP

Type No.	Kind	Type	Bulb	Use	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_p W	Typical E_b V	Typical E_{c2} V	Typical E_{c1} V	Typical I_b mA	Typical I_{c2} mA	Typical Sm mmho	Typical μ	Typical R_p Ω	Capacity In pF	Capacity Out pF	f_{max} MHz	Base No.
1509	BEA	TWN	T19		H	12.6	800	500		15.0	500			72								7BP
1511	PND	SIN	M10		H	6.3	450	330		3.3	300	150	0	10	2.2	9.0		900 k				8N
1512	PND	SIN	M10		H	6.3	650	330		9.0	300	150	3	30	5.7	11.7		80 k				8Y
1514	PND	SIN	M10		H	6.3	300	330		2.8	250	100	3	3	0.8	1.7		2M				8Y
1515	BEA	SIN	M10		H	6.3	450	350		13.2	250	250	12	45	7.5	4.3		52 k	9.5	9.5		
1536	DIO	TWN	T9		H	6.3	300	450	90	0.5	150			10								6BT
1538	BEA	SIN	T6		H	6.3	350	330		2.5	250	150		7	2.0	5.0		500 k	6.5	2.4		6CC
1539	TRI		T9		H	6.3	600	300		2.5	250			7		4.2	33	7900	3.3	1.7		9AJ
1540	BEA	SIN	T13		H	6.3	900	400		27.5	250	250	14	72	8.0	6.0			11.0	6.7		
1550	DWD	SIN			H	6.3	600	1 k	300		350			37								DW6

Group III – POWER TUBES

Type No.		Kind	Type	Bulb	Use	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_p W	Typical E_b V	Typical E_{g2} V	Typical E_{g1} V	Typical I_b mA	Typical I_{g2} mA	Typical Sm mmho	Typical μ	Typical R_p Ω	Capacity In pF	Capacity Out pF	f_{max} MHz	Base No.
GE-1		TET	SIN			F	11.0	2A			80.0	15h	250		100		2.5			15.5	10.0	20	
GK1A		TRI	SIN	W46		W	31.5	580A	10k	30A	2h.k	8k			8A		80.0	45		2h	1h	22	
GM1A		TRI	SIN	W22		T	10.5	195A	6k	100A	30.k	3k			8A		20.0	5					
GM1P		TRI	SIN	V																			
GMI-1B		TRI	SIN				9.0	26A			h3.2	22k					5.0						
GS-1B		TRI	SIN	A		H	12.6	3200	2k		1.k	2k		1	250		30.0					1G	
GE-2		TET	SIN			F	11.0	6300			1.h	3k	500		130		2.0			17.0	11.0	20	
		TET	SIN	A70		H	25.0	7500	32k	90A	h9.0				140								TE7
GS-2B		TRI	SIN	W22		H	12.6	3200	2k		1.k	2k		1	250		30.0					1G	
2TM-20		TRI	TWN				20.0	450	750		20.0						4.0	30					
2TM-100		TRI	TWN				20.0	2200	1k		70.0						2.5	28					
GI-3		TRI	SIN	T11		H	6.3	1100	25h	15A	10.0	400		15	16		2.2	16		2.6	1.1	300	4BB
GK3A		TRI	SIN	W43		W	17.0	430A	12k	50A	1h.k	5k			6A		35.0	40		1h	65.0	25	
GM3P		TRI	SIN	V																			
GMI-3		TET	SIN	T32		H	26.0	4750	28k	4500	80.0												
GS-3B		TET	SIN	A30		H	1H	865	2k		2.k	2k	500				40.0					1G	
GU-3		BEA	SIN	S18		H	12.6	450	750	120	30.0	250	250				10.0					60	
GI-4A		TRI	SIN	W		T	10.0	215A	35k	220A	20.k	3k			4A		38.0					150	
GMI-4B		TET	SIN	A		H	6.3	14A	18k	15A	1.h												
GS-4		TRI	SIN	C8		H	6.3	610	250		15.0	200		1	30		18.0	60				600	
GS4D		TRI	SIN				22.0	105A			10.k	15k					12.0	50					
GU4		TRI	SIN				7.0	1800		107	35.0	700			55		1.4	12				85	
GU4A		TRI	SIN	W25		T	8.3	145A	6k	30A	20.k	3k			4A		30.0	50		40.0	35.0	100	
GI-5B		TRI	SIN		PA	T	6.3	425	27k	250A	5.k	1k			1A		25.0					200	
GK5A		TRI	SIN	W44		T	17.0	580A	10k	300A	k2.5						14.0	40		2h	40.0	25	
GMI-5		TET	SIN			H	26.0	1750	20k	12A													
GU5A		TRI	SIN	W14		T	12.6	23A	5k	7A	3.k	3k			600		15.0	80		19.0	16.0	110	
GU5B		TRI	SIN	A14		T	12.6	23A	5k	7A	2.k	3k			600		15.0	80		19.0	16.0	110	
GI-6B		TRI	SIN	C11		H	12.6	2100	9k	20A	h3.5	1k			150		22.0			11.4	4.8	<2G	
GMI-6		BEA	TWN	T16		H	6.3	2200	4k	8A	15.0												
GS6		TRI	SIN				17.0	8500			5.h	3k					3.5	95					
GI-7B		TRI	SIN	C11		H	12.6	2100	9k	20A	h3.5	1k			150		22.0			11.4	4.8	2G	
GMI-7		TET	SIN	T40		H	26.0	6300	22k	52A	h1.2												
GS-7A		TRI	SIN	W22		H	12.6	3100	<3k		2.k	2k		1	400		30.5					1G	
GS-7B		TRI	SIN	A22		H	12.6	3100	<3k		h1.5	2k		1	400		30.0					1G	
GI-8		PND	SIN	T35		T	12.6	10A	8k	4A	h2.0	1k	600		200		5.5			30.0	25.0		P11
GS-8B		TET	SIN	C12		H	6.3	2000			60.0	1k	250		210		16.0			8.0	5.0	2k	
GU8		TRI	SIN				5.0	6500				3k					5.5			3.0	2.0		
GK9P		TRI	SIN	V							30.k												
GS9B		TRI	SIN	C11		H	12.6	1100	1k	4A	3.h	1k			120		19.5			8.4	31.5	2G	
G10		TRI	SIN				4.1	900			20.0	400			25		.6	19	35k				
GK10P		TRI	SIN	V							2h.k											2	
GU10A		TRI	SIN	W21		T	7.0	75A	8k	15A	10.k	2k			3A		20.0	50		40.0	34.0	25	
GU10B		TRI	SIN	A21		T	7.0	75A	6k	15A	7.k	2k			2500		20.0	50		40.0	34.0	25	
MO-10		TRI	SIN				16.5	52A		10A	10.k	10k					7.0	18					
GI-11B		TRI	SIN	C8		H	12.6	815	2k	1A	8.0	400			15		10.0			11.0	2.6	3G	
GK11A	*	TET	SIN			F	22.0	340A	15k													30	
GU11A		TRI	SIN	W27		W	12.7	240A	10k	20A	20.k	5k			3A		20.0	55		55.0	45.0	25	
GU11B		TRI	SIN	C8		H	12.6	815	2k	1A	80.0	400			15		10.0			11.0	2.6	<3G	
GI-12B		TRI	SIN	C8		H	12.6	815	2k	1A	80.0	400			15		10.0			11.0	2.6	3G	
GU12A		TRI	SIN	W25		W	12.6	315A	10k	30A	20.k	4k			3A		23.0	20		35.0	24.0	50	
G-13		TRI	SIN	T11		H	6.3	1100	2k		1.0				16		2.2	16		2.6	1.1		4BB
GI-13		TRI	SIN	C9		H	12.6	650	800	<4A	80.0											3G	
GI-13B		TRI	SIN	C8		H	12.6	650	800		80.0											3G	
GM13		TET	SIN	T34		H	26.0	4750	28k	45A	80.0	28k											
GU13		BEA	SIN	T20		T	10.0	5A	2k		1.h	2k	400	35	70		4.0			16.2	14.0	30	P13
GI-14B		TRI	SIN				12.6	3400	21k		5.h	2k			250		35.0					1G	
GS-15B		TET	SIN	C12		H	6.3	2300			h1.6	13h	300		240		16.0			7.0	2.0	3G	
GU15		BEA	SIN	F12		F	4.4	680	400	85	15.0	220	200	14	50	7.5	4.7			10.5	12.5	60	P5S
GI-16B		TET	SIN	A60		W	8.3	115A	8k		h8.0												

Group III—POWER TUBES—Continued

Type No.		Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical								Capacity		f_{max}	Base
									E_b	I_b	P_p	E_b	E_{g2}	E_{g1}	I_b	I_{g2}	Sm	μ	R_p	In	Out	MHz	No.
							V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF		
GU16B		TRI	SIN	A23		W	13.5	200A	8k	15A	10.k	5k			1500		25.0	47		55.0	42.0	25	
G-17B		TRI	SIN	C11		H	12.6	2A	9k		3.0	1k			150		22.0			11.3	4.8		
GI-17		TRI	SIN	A16		H	6.3	750	8k		1.h	2k			10A		45.0	15		11.0	8.0	500	
GS17B	*	TET	SIN			H	3.4	160A	55h													1G	
GU-17		BEA	TWN	T7		H	6.3	800	400	100	6.0	300	200	16	20	6.0	2.8			6.5	2.7	250	PD7
GI-18B		TRI	SIN	A50		T	12.5	190A	16k	150A	6.k	10k			1A		25.0	45		75.0	50.0	<1	
GU-18		TET	TWN	T13		H	6.3	1200	600	130	20.0	250	200		35	6.0	1.5			7.0	2.6	600	PD8
GI-19B		TRI	SIN	W33		H	7.3	20A	14k	100A	1.k	1k			500		20.0			50.0	12.0	150	
GU-19		BEA	TWN	T16		H	6.3	2000	750	280	40.0	350	250	17	40	8.0	4.5			10.0	3.5	500	PD8
GK20		TRI	SIN				5.6	850		200	20.0	750					1.7	53					
M020		TRI	SIN				22.0	61A		10A	20.k	10k					7.0	13					
GI-21B		TRI	SIN	C8		H	12.6	900	800	<4A	h1.1	600			75		26.0					3G	
GU21B		TRI	SIN	A30		T	8.3	150A	9k	30A	10.k	9k			3700		30.0	48		55.0	45.0	26	
GI-22		TRI	SIN	C8		H	6.3	640		<2A	10.0	200			30		18.0					6G	
GU22A		TRI	SIN	W25		T	8.3	150A	10k	30A	20.k	10k			2730		27.0	48		55.0	45.0	26	
GS23B	*	TET	SIN			H	6.3	5700	25h													1G	
GU23A		TRI	SIN	W44		T	12.0	210A	11k	60A	60.k	5k			7900		49.5	49		h1.0	65.0	26	
GU-23B		TRI	SIN	A		W	12.0	210A	11k		50.k						42.0	55				26	
GI-24A		TRI	SIN	W30		W	6.3	425A	27k	250A	25.k	4k			150A		40.0					200	
GU24A							3.3	<2kA	6k		25.k											273	
GI-25		TRI	SIN	C8		H	6.3	1145	<2k		12.0	250					24.0					5G	
GU25B		TRI	SIN	W30		T	8.3	150A	12k		12.k						30.0	48				26	
GU26A		TRI	SIN	W		H	30.0	17A	6k		10.k						20.0					330	
GU26B		TRI	SIN			T	12.0	210A	12k	60A	50.k												
GU27A		TET	SIN	W13		T	7.5	25A	4k	5A	2.k	2k	1k		300		6.0	16		25.0	17.0	110	
GU27B		TET	SIN	A24		T	7.5	25A	3k	5A	8.h	3k	1k		300		6.0	16		21.0	13.0	110	
GU-28A		TET	SIN	W20		T	6.3	98A	10k	98A	8.k	3k	850				16.0	9				24	
GU28B		TET	SIN	A		T	6.3	98A	10k		10.k	3k	2k				16.0					30	
M28		TRI	SIN				11.0	6400			h1.5	1k			375		2.4	11	<5k				
G29		TRI	SIN				16.0	10A		1200	4.h	10k			1200		3.2	250					
GU29	*	BEA	TWN	T16		H	6.3	2250	750	250	40.0	600	200	70	150	30.0	8.0			15.0	7.0	200	7BP
GI-30		BEA	TWN	T16		H	6.3	2250	5k	9A	15.0	250			58		8.0			15.0	7.0		7BP
GMI-30		TRI	SIN	G44		T	8.2	17A	27k	15A	3.h	2k			100		5.8			9.5	2.0		
GU30A		TRI	SIN	W		T	10.5	220A	7k	50A	60.k						38.0	28				100	
GU31		TET	SIN				6.3					450	200										
G32		TRI	SIN				3.2	3500			15.0	800			60		.8	18	22k		2.4		
GU32		BEA	TWN	T14		H	6.3	1600	750		15.0	250	130	10	30	5.5	3.5			7.8	3.8	200	
GU33B		TET	SIN			H	6.3	5A	1k		h1.5	15h	400				20.0					500	
GU34B		TET	SIN	T20		H	12.6	4A	4k		5.h	2k	600				28.0					250	
GU-35B	*	TET	SIN	A32		W	6.3	65A	5k		k3.5	5k	800				24.0	20				250	
G36		TRI	SIN				5.6	860			20.0	600			200		1.8	60	35k				
GU-36B	*	TET	SIN	A		W	8.3	100A	6k		14.k	6k	1k				80.0					250	
GU-37B		TRI	SIN	A		W	3.4	110A	3k		k3.5						25.0	35				330	
GU-39A		TET	SIN	W		W	6.3	98A	10k		8.k		2k				22.0					100	
GU-39B		TET	SIN	A		W	6.3	98A	10k		6.k		2k				22.0					100	
GU39P		TET	SIN	V							15.k											30	
M39		TRI	SIN				11.0	3500			30.0	1k			200		1.4	10	7k				
GU-40B	*	TET	SIN	A30		T	6.3	33A	45h		2.k	2k	900				18.0					250	
GU43B		TET	SIN			H	12.6	6600	33h	3200	1.k	1k	350	25	1000		45			85	14	100	
G46		TRI	SIN				11.0	4100		250	80.0	1k					2.0	55				250	
G47		TRI	SIN				11.5	3800		215	h1.5	3k					1.4	70					
GU48	*	TRI	SIN			F	10.0	10A	25h	130								35		13.0	11.0	75	
GU50	*	PND	SIN	F12		H	12.6	655	1k	230	40.0	1k	300	80	120	10.0	5.0			14.0	9.2	120	P9S
M50		TRI	SIN				11.0	6300		270	50.0	1k					1.4	10					
GM51A		TRI	SIN	W19		W	22.0	102A	12k	10A	15.k	5k			2A	10.0	.7					12	
M53		TRI	SIN				11.0	6300			h1.5	3k			375		1 4	11	7k				
GM57		TRI	SIN				4 0	2100				750					5.0	9		8 5	3 5		
M57		TRI	SIN				16.0	10A			4 h	10k			1200		2.9	52	18k				
GM60		TRI	SIN	T32		W	17.0	8A	10k	550	6.h	1k			100	2.2	1.6						
G61		TRI	SIN				16.5	52A		11A	10.k							47					

Group III – POWER TUBES – Continued

Type No.		Kind	Type	Bulb	Use	Cathode	E_f	I_f	Maximum			Typical							Capacity		f_{max}	Base
									E_b	I_b	P_p	E_b	E_{g2}	E_{g1}	I_b	I_{g2}	Sm	μ	R_p	In	Out	MHz	No.
							V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF		
GU61B	*	TET	SIN			F	8.3	133	10k													70	
GU61P		TET	SIN	V							30.k											70	
G62		TRI	SIN				16.5	51A			10.k				10A		7.0	47	7k				
GU62P		TRI	SIN	V							60.k											85	
G65		TRI	SIN				5.2	1300			12.0				60		1.0	60	60k				
GU65A	*	TRI	SIN			F	26.0	670A	12k													22	
GU66P	*	TRI	SIN	V							1h.k											30	
G68		TRI	SIN				17.0	18A			1.k	10k			2A		5.0	180	36k				
GU68A	*	TRI	SIN			F	20.0	315A	12k													30	
GI-70B		TRI	SIN	C11		H	12.6	2100	9k	20A		1k			150		22.0			11.4	4.9	3G	
GM-70		TRI	SIN	T21		T	20.0	3A	1k	800	1.h	600			200		6.0	7		8.0	12.0		
GM-70B		TRI	SIN	T21		T	20.0	3A	1k	800	1.h	600			200		6.0	7		8.0	12.0	IF	
GU70B	*	TET	SIN			H	6.0	3100	2k													250	
GK71		PND	SIN	T21		T	20.0	3A	1k		h1.2	600	400		200	62.0	4.2			18.0	17.0	20	P12
GU71B	*	PND	SIN			H	12.6	6100	1k													75	
GU72	*	PND	SIN	T25		T	20.0	3A	1k	900	h1.5	750	400		150		4.2			18.0	17.0	40	P14
GU73B	*	TET	SIN			H	26.0	4850	300													250	
GU74B	*	TET	SIN			H	12.6	3600	1k													60	
M74		TRI	SIN									450					.1	63					
GU75A	*	TET	SIN			F	6.3	135A	6k													75	
GI-76B		TRI	SIN	C			12.6	2100	9k			1k			150		22.0			11.3		3G	
GU80		PND	SIN	T30		T	12.6	10A	3k		4.h	2k	600	140	200		5.5			28.5	22.5	50	P6S
M80		TRI	SIN				11.0	3500		260	80.0	1k					1.4	10					
GU81		PND	SIN	T38		F	12.6	10A	3k		h4.5	2k	600				5.5					50	
GMI-83		TET	SIN	T20		H	25.0	2000	20k	15A	65.0	15k	1k							50.0	5.0		
G88		TRI	SIN				6.0	4A				600			120		.9	15	17k				TS5
GMI-89		TET	SIN	T32		H	25.0	4000	25k	20A	1.h	25k	1k				22.0			60.0	12.0		
GU89A		TRI	SIN	W24		W	11.0	124A	8k	9A	5.k	1k			3A		10.0	20		23.3	17.5	100	
GU89B		TRI	SIN	A24		W	11.0	124A	8k	9A	5.k	1k			3A		10.0	20		23.3	17.5	100	
M89		TRI	SIN				11.0	6300			h4.5	1k					5.0	9	1800				
GMI-90		TET	SIN	T46		H	25.0	7800	33k	40A	1.h	33k					4.0			1h	16.0		
GS90B		TRI	SIN	C12		H	12.6	1100	2k	4500	15.0	1k			175		19.5					3G	
G91		TRI	SIN				11.0	6200				600			400		.9	10	5k				P10
GKE100		TET	SIN	T20		H	11.0	2A	<2k	500	1.h	15k	250	2	500	6.5	2.8	225		15.5		20	TE4
GM100		TRI	SIN	T60		W	17.0	18A	5k	1600	1.k	1k			600		6.5	18				IF	
G120		TRI	SIN				16.5	52A		11A	5.k	4k			700			14					
GI-150		TRI	SIN	C8		H	12.6	815	800	<5A	20.0	400			15		10.0					4G	
GKE150		TET	SIN			H	11.0	6300		420	1.h	3k	500				2.0	350					TE4
GU150		TRI	SIN				11.0	10A		710	h1.5	2k					2.2	17				85	
M150		TRI	SIN				11.0	6300		420	h1.5	3k					1.4	11					
G256		TRI	SIN								30.0	450										500	
GKE300		TET	SIN			H	17.0	10A		750	4.h	3k	500				3.9	400					
M400		TRI	SIN				17.0	18A		2300	4.h	1k					6.0	10					
M401		TRI	SIN				16.0	10A		1200	4.h	10k					2.9	52					
G410		TRI	SIN				10.0	450			10.0	400					4.0	23		2.9	2.7		
G411		PND	SIN				10.0	600	400		20.0	400	200	55	112	5.0	5.5			11.0	7.0		
G412		PND	SIN				20.0	220	750		20.0	750	250	40	57	11.0	3.0			6.5	6.0		P10
G413		PND	SIN				20.0	500	750		40.0	750	250	55	90	15.0	4.5			11.0	10.5		P10
G414		PND	SIN				20.0	1400	1k		1.h	1k	250	50	65	10.0	6.0			21.0	19.0		P15
G417		TRI	SIN				5.0	1150			20.0	400					1.0	19		1.9	1.0		TS9
G418		PND	SIN			F	5.0	900	400		20.0	400	225	50	85	20.0	4.0			12.5	10.0		
G422		PND	SIN				20.0	3250	1k		1.h	750	300	60	180	40.0	3.0			15.5	15.5		
G424		PND	SIN				20.0	4600	1k		2.h	1k	400	140	300	80.0	5.0			27.0	33.0		
G425		PND	SIN				20.0	22A	4k		h7.5	4k	1k	100	350	70.0	4.0			21.0	18.0		
G430		TRI	SIN				22.0	51A	12k		10.k							45					
G431		TRI	SIN	W16		W	22.0	102A	15k		20.k	5k			3A		12.0	50		25.0	1.5	25	
G431A		TRI	SIN	W			22.0	102A	15k	12A	20.k	5k			3A		12.0	50		25.0	1.5	25	
G433		TRI	SIN	T46		W	33.0	210A	15k		60.k	6k			5A		32.0	45		80.0	67.0	20	
G433A		TRI	SIN				33.0	210A	15k	50A	60.k	6k			5A		32.0	45		80.0	6.0	20	
M435		TRI	SIN				20.0	24A			1.k	5k					6.0	9					

Group III – POWER TUBES – Continued

Type No.	Kind	Type	Bulb	Use	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_p W	Typical E_b V	Typical E_{g2} V	Typical E_{g1} V	Typical I_b mA	Typical I_{g2} mA	Typical Sm mmho	Typical μ	Typical R_p Ω	Capacity In pF	Capacity Out pF	f_{max} MHz	Base No.
G441	TRI	SIN				11.0	51A			k2.5	7k						40					
G-450	TRI	SIN	W38		W	16.0	51A	10k		10.k	5k			4A		7.0	44				20	
G-452	TRI	SIN	W40		W	22.0	102A	15k		20.k	5k			4A		12.5	40				25	
G-454	TRI	SIN	W38		W	22.5	71A	10k		20.k	5k			4A		10.0	45				20	
G472	TRI	SIN				2.5	14A			1.h	k	18k				2.5	140					
G484	TRI	SIN	A30		W	22.0	60A	9k		5.k	3k			A			9			23.0	320	
GK750	TRI	SIN				5.0	10A			h2.5	3k					6.6	37		5.8	2.9	40	
M800	TRI	SIN				17.0	8A		800	8.h	10k					2.2	16					
G807	BEA	SIN	S16		H	6.3	900	750	120	30.0	600	275	90	100	6.5	6.0			12.0	7.0	60	5AW
G811	TRI	SIN				6.3	400			50.0	1k						160		5.6	5.5	100	T1S
G837	PND	SIN				12.6	700		200		500	200	85		30.0	3.4			16.0	10.0		
G889	TRI	SIN				11.0	125A			5.k	7k						21		23.3	3.0	100	
G891	TRI	SIN				11.0	60A			k3.5	8k						8					
GKE1000	TET	SIN				17.0	18A			h7.5	4k	500				3.0	150		22.0	0.2		
G1625	BEA	SIN				12.6	450			25.0	600					6.0			11.0	7.0		
GK2000	TRI	SIN				16.0	51A		1A	10.k	8k					7.0						
GK3000	TRI	SIN				17.0	18A		1600	1.k	10k					5.2	200					
GI-3100	TRI	SIN				6.3	1100			10.0	2k					2.2	16		2.6	1.1	300	
GI-3100	TRI	SIN				6.3	1100			10.0	2k					2.2	16		2.6	1.1	300	

Group IV – RECTIFIER TUBES

Type No.	Kind	Type	Bulb	Gas	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Typical E_b V	Typical I_b mA
EVU-25/1.0	IGN		T1H	HG	C			12h	400A		
EVU-50/1.0 *	TRI	IGN	W33	HG	C			12h	900A		50A
EVU-100/1.0	IGN		T2H	HG	C			12h	2kA		
GG-1-0.3/8	DIO	SIN	T14	AR	H	6.3	4A	8k	1A	30	<1
GG1-0.5/5*	DIO	SIN	S21	KX	F	2.5	8500	5k	1500		500
GG-1-0.5/20*	DIO	SIN	T21	AR	H	6.3	5A	20k	3500	30	500
GG-1-1/22*	DIO	SIN	T30	AR	H	6.3	14A	22k	3500	30	1000
GG-1-2/5 *	DIO	SIN	T22	XE	H	6.3	6500	9k	6500	16	2000
GG-1-2/16*	DIO	SIN	T30	XE	H	6.3	16A	16k	7A	30	2000
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/1/25/0.8*	TRI	IGN	W19	HG	C			800	30A		10A
I-1-50/20*	TET	IGN	W47	HG	C			20k			50A
I-1-70/0.8*	TRI	IGN	W25	HG	C			800			70A
I-1-100/1.5	TRI	IGN	W52	HG	C			15h	3hA		1hA
I-1-140/0.8*	TRI	IGN	W34	HG	C			800			140A
I-1-350/0.8*	TRI	IGN	W47	HG	C			800			350A
I-2-50/1.5*	TRI	IGN	W34	HG	C			15h	150A		50A
I2-70/0.8 *	TRI	IGN	W78	HG	C			800	10hA	220	70A
I2-140/0.8 *	TRI	IGN	W1h	HG	C			800	16hA	220	140A
I2-200/1.5 *	TET	IGN	W1h	HG	C			15h	10kA		200A
I2-350/0.8 *	TRI	IGN	W1h	HG	C			800	32hA	220	350A
I-20/1.5 *	TRI	IGN	W25	HG	C			15h	60A		20A
I-20/1500	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	W50	HG	C			1k	6hA		1hA
I-100/5.0 *	TRI	IGN	W70	HG	C			5k	3hA		1hA
I-100/1000	DIO	IGN	W33	HG	C			1k	2kA		100A
I-100/5000	DIO	IGN	W33	HG	C			5k	300A		100A
I-150/1.0 *	TRI	IGN	W52	HG	C			1k	1hA		2hA
I-200/1.5	TRI	IGN	W65	HG	C			15h	6hA		2hA
IVS200/2		IGN	W	HG	C			<3k	450A	16	150
T-409	DIO	IGN	G14	HG	C			3k	200A		
T-410	DIO	IGN	G17	HG	C			14k	20A		
T-411	DIO	IGN	G17	HG	C			19k	100A		
V1-00313	DIO	SIN	T10		F	2.5	4600	13k	3000		30
V1-02/20	DIO	SIN	T13	VC	F	2.5	3200	20k	100		20
V1-03/13	DIO	SIN	T9	VC	F	2.5	4650	13k	3A		30
V1-05/70	DIO	SIN	T32	VC	F	5.0	32A	70k	8A		50
V1-06/30	DIO	SIN						30k			60
V1-1/2.5	DIO	SIN	W12	VC	F	15.0	12A	25h	1000		
V1-1/30	DIO	SIN	T18	VC	F	5.0	5A	30k	600		100
V1-1/40	DIO	SIN	T17	VC	F	5.0	6A	40k	750		100
V1-2/40	DIO	SIN						40k			200
V1-3/16	DIO	SIN	A27	VC	H	6.3	10A	16k	1500		300
V1-3/70	DIO	SIN						70k			300
V1-4/40	DIO	SIN	G70	VC		7.5	48A	44k	2A		450
V1-15/55	DIO	SIN	T31	VC	F	6.3	7500	55k	700		180
VG1/8500	DIO	SIN		GS	F	2.5	5500	8k	1A	6k	300
VG-129	DIO	SIN	S20	HG	F	2.5	9A	7k	1500		500
VG-161	DIO	SIN		HG	F	2.5	6A	<3k	1A	<2k	300
VG-163 *	DIO	SIN	G70	HG	F	5.0	32A	15k	50A		16A

Group IV – RECTIFIER TUBES – Continued

Type No.	Kind	Type	Bulb	Gas	Cathode	E_f V	I_f mA	Maximum E_b V	Maximum I_b mA	Typical E_b V	Typical I_b mA
VG-176	DIO	SIN	G16		M	2.5	11A	150	9A	20	
VG-236 *	DIO	SIN	G38	HG	F	2.5	20A	7k	4A		1300
VG-237 *	DIO	SIN	G55		F	5.0	22A	10k	10A		3500
VG-252	DIO	SIN				2.5		300	30A	15	
VI-1-5/20	DIO	SIN	T16	VC	H	6.3	29A	20k	5000		
VI-1-5/30	DIO	SIN	A16	VC	W	6.3	95A	30k	2000		
VI-1-18/32	DIO	SIN	A23	VC	H	17.0	3700	40k	20A		500
VI-1-27/35	DIO	SIN	A40	VC	H	9.0	145A	35k	70A		
VI-1-30/25	DIO	SIN				10.0	6A	25k	30A		30
VI-1-70/32	DIO	SIN						32k	70A		
VI-1-10050	DIO	SIN						50k	100A		
VI-2-27/35	DIO	SIN	W20	VC	H	9.0	145A	35k	70A		
VI-2-70/32	DIO	SIN	A21	VC	H	12.6	5300	32k	70A		70
VI-2-100/50	DIO	SIN	A30	VC	H	12.6	36A	50k	100A		
VO-1	DIO	SIN			H	4.0	3200			850	40
VO-125	DIO	SIN			F	4.0	700			250	60
VO-188	DWD	SIN			F	4.0	2A			500	155
VO-196	DIO	SIN			H	4.0	3A			750	250
VO-197	DWD	SIN			F	4.0	5A			250	300
VO-202	DWD	SIN			F	4.0	700			250	60
VO-230	DIO	SIN			F	4.0	700			350	50
VO-239	DIO	SIN			F	4.0	2A			850	180
VO-360	DIO	SIN			F	4.0	1A			500	100
VU-111D	DIO	SIN	S		F	4.0	1500	12k	400	160	80
2V6	DIO	ARC		HG	C			400	6A		
2V12	DIO	ARC		HG	C			1k	1A		
2V20	DIO	ARC		HG	C			750	20A		
2VN12	DIO	ARC		HG	C			450	12A		
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		
1502	DIO	SIN	F13		H	5.0	3000	<2k	1200	500	400

Group IV-A – TWO ANODE DIODE MECHANOTRONS

Type No.	Kind	Type	Displacement Range μm	Displacement Sens. μA/μm	Force Range g	Force Sens. μA/g	Angle Range deg.	Angle Sens. mA/°	Non-linearity %
6MKH1B *	DIO	TWN	140	20	5m	2k			4
6MKH1S *	DIO	TWN	100	30	10	200			1
6MKH2B *	DIO	TWN	100	40	2	500			4
6MKH3S *	DIO	TWN	100	100	15	1k			1
6MKH4S *	DIO	TWN	500	10	30	100			1
6MKH5S *	DIO	TWN	1k	3	30	40			1
6MUKH6P							5	1	1

Group V—VOLTAGE REGULATOR TUBES

Type No.		Kind	Gas		Cath Mat'l	Voltages			Max ΔV over		Current		Dimen	
			Kind	Pres mm		Ian V	Max V	Min V	ΔI V	Life V	Max mA	Min mA	Dia mm	Lth mm
SG1P	*	REG	AHE			175	155	143	3.5	5	30	5	22	65
SG1P-EV	*	REG				175	155	143	2.5	4	30	5	22	65
SG2P		REG	AKN			150		104			30	5	22	65
SG2S	*	REG	NA	30		105	81	70	6	6.5	40	5	34	98
SG3P		REG	AHE			170		144			40	5	22	65
SG3S	*	REG	AHN	30		127	112	105	3.5	4	40	5	34	98
SG4S	*	REG	AHE	30	NI	180	162	145	4	4.5	30	5	34	98
SG5B	*	REG	AHE			170	155	142	4	7.5	10	5	10	36
SG7S		REG				480		390			0.1	0.003		
SG8S		REG				970		880			0.1	0.003	10	
SG9S		REG				13h		12h			0.1	0.01	10	
SG10S		REG	NK			150		86			15	4	32	40
SG13P	*	REG	AHN	55	NI	175	155	143	3.5	5	30	5	19	65
SG14P		REG	AHN			125		115			40	20	22	75
SG15P		REG	AHN	54	M0	150		104			30	5	19	55
SG15P1		REG				160		103			30	5	19	60
SG15P2	*	REG				160	110	102	3	0.2	30	5	19	65
SG16P	*	REG	AHE	40	M0	150	86	80	3	0.2	30	5	19	65
SG17S		REG	NEH			1350		850			60	10	38	189
SG18S		REG	NEH			1500		950			60	10	38	189
SG19S		REG	NEH			1650		1050			60	10	38	189
SG20G	*	REG				135	91	85	2.5	0.2	15	4	12	45
SG21B	*	REG				160	109	101	2.5	0.2	15	4	11	40
SG201S	*	REG	NK	50	M0	150	92	86	2.5	0.2	1.5	4	33	64
SG202B	*	REG	NA	35	M0	135	86	81	4.5	0.2	5	1.5	10	40
SG203K	*	REG				135	86	79	2	0.1	10	1	10	23
SG204K	*	REG				220	168	160	4	0.3	15	1	10	30
SG205B	*	REG				135	84	81	0.5	0.3	11	9	11	40
SG226	*	REG	NE			95		70			40	8	50	130
SG227	*	REG	NE			95		70			60	10	65	135
SG301S-1	*	REG	HY			430	400	380	14	16			10	36
SG302S-1	*	REG	HY			970	920	880	30	32			12	67
SG303S-1	*	REG	HY			1320	1280	1220	30	32			12	67
SG304S	*	REG	HY				4200	3800	240	240			22	128
SG305K	*	REG					105h	95h	11h	400	15h	50	20	148
SG306K	*	REG					26k	24k	15h	500	15h	50	49	251
SG307K	*	REG	HY				143h	157h	10h	375	15h	50	33	181
SG308K	*	REG	HY				19k	21k	1k	500	1k	50	33	181
SG309K	*	REG	HY				315h	285h	18h	750	15h	50	49	231
SG311S	*	REG					430	400			1	0.05		86
TP-2/0.5		REG					1	3			0.2	2.0	33	68
TP-2/2		REG					1	3			0.4	6.0	33	68
TP-6-2		REG					4	8			0.4	6.0	33	68

Group VI – CURRENT REGULATOR TUBES

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

Group VII – THYRATRONS

Type No.		Kind	Bulb			Gas	Cathode				Maximum anode					Avg	Maximum grid						Base No.
			Shape	Lth mm	Diam mm		Kind	E_f V	I_f mA	Warm-up min s	PIV V	E_r V	Firing V	Tube drop V	Pulse I_b mA	I_b mA	Bias V	Input res kΩ	Pulse Ign V	Pulse Time μs	Pulse t_r ns	Pulse pps 10^3	
AGI-1-75/1.3	*	TET	T	50	30		C				1300				75A				550	5m			
TG1B	*	TRI	T	36	10	KX	H	6.3	225	10	240	240	30	20	120	20	30	1M	100	30	10		
TG1P	*	TRI	T	67	19	HE	H	6.3	1200		4k		80	34		35							
TG1-.02/0.5	*	TET	T	38	19	XE	H	6.3	165	10	500	500	30	16	120	20	100	10M	15				8T1
TG1-0.1/0.3	*	TRI	T	97	35	AR	H	6.3	660	30	300	300		20	300	75	80	500	80			20	8T3
TG1-0.1/1.3	*	TET	T	185	33	XE	H	6.3	600	10	1300	650	25	11	500	100	100	10M	100	5	60	10	8T2
TG1-0.5/12	*	TRI	T	225	62	AR	H	6.3	5A	90	12k		500	27	3A	500	70	100					
TG1-1.0/0.8	*	TET	T	130	61	KX	H	6.3	300	60	800	420	50	15	6A	1A	15	1M	15				10T
TG1-1.5/2		TRI	T	160	68	XE	H	6.3	7500		2k			16	5A	15h	15						
TG1-1.6/1.3	*	TRI	M	201	66	XE	H	5.0	6A	90	1300	1k		20	10A	16h	100	100	100				
TG1-2/8	*	TRI	T	180	70	XE	H	6.3	7500	120	8k		140	20	#7A	2A							
TG1-2.5/4	*	TRI	S	255	85	KX	F	5.0	12A	60	4000	3k	140	20	8A	<3A	100	100	100				4T2
TG1-2.5/10		TET	T	285	90	XE	H	5.0	15A	180	10k			16	8A	25h	50	5					
TG1-3.2/1.3	*	TRI	T	222	66	XE	H	5.0	8A	90	1300	1k		20	20A	3A	100	100	100				
TG1-5-3	*	TRI	T	350	110	KX	F	5.0	21A	40	3k		190	22	15A	5A	20						
TG1-6.4/1.3	*	TRI		242	66	XE	H	5.0	13A	120	1300	1k		20	40A	6A	100	100	100				
TG1-12.5/1.3	*	TRI	T	292	90	XE	H	5.0	16A	120	13h		1k	20	80A	12A	20						
TGI-1B	*	TRI	T	40	10	XE	H	3.1	1500		500		30		20A		6	1M					
TGI-1-3/1	*	TET	T	67	15	AR	H	6.3	1100	90	1000	1k		35	3A	6		40		20	300	5	T22
TGI-1-5/1.1		TRI	T	67	19	HY	H	6.3	2000		1100		70		5A	10	100					15	T23
TGI-1-10/1	*	TRI	T	80	32	HY	H	6.3	2600	60	1000				10A	50	100	15		6	150	40	
TGI-1-35/3	*	TRI	T	135	38	HY	H	6.3	2500	180	3k	3k		140	35A	45		100		6	500		
TGI-1-50/5	*	TRI	T	160	45	HY	H	6.3	3600	180	5k	5k		160	50A	50	150				<1	4	
TGI-1-90/8	*	TRI	T	195	66	HY	H	6.3	7000	180	8k	8k			90A	100	200				<1	2	
TGI-1-130/8	*	TRI	T	180	64	HY	H	6.3	500	180	3k	8k			1hA	150	170			<1		2	
TGI-1-130/10	*	TRI	T	205	62	HY	H	6.3	5A	240	10k	10k		150	1hA	250	170			<1		30	
TGI-1/260/12	*	TRI	T	98	67	HY	H	6.3	12A	180	12k				3hA	400			200	50		<5	
TGI-1-325/16	*	TRI	T	230	66	HY	H	6.3	8500	300	16k	16k		150	3hA	200			200	1		1	
TGI-1-400/3.5	*	TRI	S	280	85	HY	H	5.0	18A	180	3500	3k		150	4hA	300		2		20		<1	
TGI-1-400/16	*	TRI	T	268	78	HY	H	6.3	10A	360	16k	16k		170	4hA	500	200		200	5		<1	
TGI-1/500/16	*	TRI	T	138	86	HY	H	6.3	17A	300	16k	16k			5hA	500	200		400	10		50	
TGI-1/500/20	*	TRI	T	300	110		H	6.3	19A	300	20k	16k			5hA	51A			400	10		5	
TGI-1-700/25	*	TRI	T	450	135	HY	H	6.3	20A	420	20k	20k		200	7hA	1A			700	<1		<3	
TGI1-1000/25	*	TRI	T	160	106	HY	H	6.3	20A	300	5k	25k		150	1kA	1A			500	50		50	
TGI1-2000/35	*	TRI	T	420	172	HY	H	6.3	55A	360	5k	35k			2kA	3A			1k	10		<1	
TGI1-2500/35	*	TRI	T	600	215	HY	H	6.3	55A	720	5k	35k		250	2kA	25h			1k	10		<1	
TKH-1	*	TRI	T	85	34	NA	C				150			60	100	30			85				
TKH1B		TRI					C					160		85	30	10		10M	85				
TKHI-1G		PND	T	45	13	AR	C				275	205			60A	25A		100					
TR1-2.5/3	*	TRI	T	120	66	HG	H	5.0	7A	300	3k	3k		15	15A	25h	100						
TR1-5/2	*	TRI	T	275	90	HG	H	5.0	15A	300	2k	2k	100	15	15A	5A	24						
TR1-6/3	*	TRI	T	160	66	HG	H	5.0	13A	300	3k			15	40A	6A	100	100					
TR1-6/15	*	TRI	T	350	90	HG	H	5.0	23A	900	15k	15k		18	20A	6A	100	5					
TR1-15/3	*	TRI	T	250	90	HG	H	5.0	22A	480	3k			15	90A	15A	100	100					
TR1-15/15	*	TRI	T	490	195	HG	H	5.0	40A	18h	15k			20	47A	15A	100	5					
TR1-15/20	*	TRI	T	440	108	HG	H	5.0	20A	900	20k	20k		18	45A	15A	150	5					
TR1-40/15	*	TRI	G	700	245	HG	H	5.0	68A	18h	15k			20	1hA	40A	100	5					
TR1-85/15	*	TRI	T	760	270	HG	H	5.0	130A	24h	15k			20	3hA	85A	100	5					
TR1-130/15		TRI	T		220	HG	H	5.0	130A		15k				3hA	85A							
TG2-0.1/0.1	*	TRI	T	105	40	XE	H	6.3	600	10	100	100	18	11	300	100	2	5M					
TG2-0.5/12	*	TRI	T	225	62	HY	H	6.3	7A	180	12k	12k		70	<4A	500	100						
TG2.5/5		TRI					F	5.0	13A		3k				8A	2A	18						
TGI-2-260/12		TRI	T	285	90	HY	H	6.3	12A		12k					400			200			<5	
TGI-2-325/16		TRI				HY	F	6.3	8500		16k				3hA	200							
TGI-2-400/16	*	TRI	T	78	500		H	6.3	12h	300	16k				4hA	500				5		<1	
TGI-2-400/35		TRI				HY	F	5.0	18A		3500				4hA	300							
TKH-2	*	TRI		57	19	HE	C				2800	350		80	100	12		8M				1	T24
TG3-0.1/1.3	*	TET	T	57	19	XE	H	6.3	600	30	1300	650	30	11	500	100	100	10M	100	10	60	10	7EM
TG3-2.5/10		TRI	T	290	90	KX	H	5.0	20A		10k			25	8A	<3A	30						
TKH3B	*	TET	T	40	10	NA	C				190		110		10	<1	85	20M	67	15	1hμ	1	

Group VII – THYRATRONS – Continued

Type No.		Kind	Bulb			Gas	Cathode				Maximum anode					Avg	Maximum grid						Base No.
			Shape	Lth mm	Diam mm		Kind	E_f V	I_f mA	Warm-up min s	PIV V	E_r V	Firing V	Tube drop V	Pulse I_b mA	I_b mA	Bias V	Input res kΩ	Pulse Ign V	Pulse Time μs	Pulse t_r ns	Pulse pps 10^3	
LP-4	*	COM		29	40		H	4.0	270		150				1		70						
TKH4B	*	TET	T	40	10	NA	C				225	180	115		70	3		99M	92	10			
LP-5	*	COM		29	40		H	4.0	270		100				1	4	40						
TG5R	*	TET	T	19	5		F	1.0	65		170		40										
TKH-5A		TRI		25	7	NA	C					270		110	<1	<1							
TKH-5B	*	TRI	T	25	7	NE	C				270	225			<2	<1	150						
LP-6	*	COM		108	58		H	6.3	1600		275				1	8	350						
TKH-6G	*	HEX	T	50	13	NE	C					285	130			1			100	20			
LP-7	*	COM		62	35		H	4.0	270		25					<1	13						
TKH-7G	*	PND	T	50	13	NE	C				285			140	2	1	20		80		200		
TKH-8G	*	PND	T	50	13	NE	C					285	130			1			80	10			
TKH-9G	*	HEX	T	50	13	NE	C				285				2	1	40		40		200		
TKH-11G		TET	T	60	13		C					215				10			35	7			
TKH-12G		HPT	T	50	13		C				275				1K	10			50				
TKH-13		PND	T	50	13		C				220				5	1			100		5		
MTKH90	*	TRI		37	12	NE	C				200	120	150	50	20	2	45	20M	85				
TGI-200		TRI	S	280	85	KX	F	5.0	15A	60	3500			20	2hA		18	200					
TG212M		TRI	T	105	35	AR	H	4.0	950	30	300	300		27	500	125	7	100					
TG-213	*	TRI	S	155	63		F	2.5	9A		500	500	50	25	1A	500	15						
TG-235	*	TRI	S	220	81		F	5.0	12A		700	700	70	25	6A	1A	16						
1587	*	TET	T	57	19		H	6.3	600	30	1300	650	30	12	500	100	100						7EM

Group VIII—CATHODE RAY TUBES

Type No.	Meth of Focus	Meth of Defl	Dimensions Diam cm	Dimensions Lth cm	Use	Cathode	Typical Heater E V	Typical Heater I mA	Typical E_{FOC} V	Typical E_{A_1} kV	Typical E_{A_2} kV	Typical E_{A_3} kV	Typical E_{A_4} kV	Typical E_{C_1} V	Maximum I_K μA	Maximum Defl sens mm/V	Screen Col	Screen Pers	Defl angle deg	Base No.
LK7M	*	ELS				H	12.6	600			1.4			50	150					
LN-4	*	ELS ELS	17	49	ST	H	6.3	550		1.5	0.2			100	6					
LN5	*	ELS ELM			ST	H	6.3	600		0.6	0.2				15					
LN-7	*	ELM ELM	9	26	ST	H	12.6	300		0.6				65						
LN-8	*	ELS ELS	9	36	ST	H	6.3	550		0.2	1.5			70						
LN9	*	ELS ELM			ST	H	6.3	600		0.6	0.2				15					
L0247	*	ELS ELS	7	19	OD	H	4.0	700	160	0.8				27	75	0.20	GR			
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		
PIM-3			6		IC					18.0							VB			
PIM-4			13		IC					18.0							VB			
3LK1B	*	ELM ELM	3	19	TV	H	6.3	500		2.0				40			WH	MD		
3L01-I	*	ELS ELS	3	12	OS	H	6.3	600	50	0.5				60	300	0.18	GR	MD		
5L038I	*	ELS ELS	5	19	OS	H	6.3	600	300	1.0				60	1m	0.11	GR	MD		
6LK1A	*	ELM ELM	6	27	PR	H	6.3	600		25.0				65	100		BL	MD		
6LK1B	*	ELM ELM	6	27	PR	H	6.3	600		25.0				65	100		WH	SH		
6LK3B	*	ELS ELM		11	TV	H	1.3	300	350	0.3	6.0			12			WH			55
6L01I	*	ELS ELS	5	14	OS	H	6.3	600	135	1.2				60	300	0.15	GR	MD		
7L01M	*	ELS ELS	7	19	RA	H	6.3	600	167	1.4	2.8			76		0.13	PB	SH		
7L055I	*	ELS ELS	7	19	OS	H	6.3	600	180	1.1	2.0			76	500	0.12	GR	MD		
8LK2B	*	ELM ELM	8	26	TV	H	6.3	500		3.0				45	60		WH	MD		
8LM3V	*	ELS ELM	8	21	RA	H	6.3	600	300	0.4	4.0			50			WH	LO		
8L03I	*	ELS ELS	8	30	OS	H	6.3	600	300	0.8	2.3			85		1.0	GR	MD		
8L04I	*	ELS ELS	8	35	OS	H	6.3	300		0.7	3.7			75	300	1.5	GR	MD		
8L029I	*	ELS ELS	8	26	OS	H	6.3	600	350	1.5				45	1000	0.17	GR	MD		
8L030I	*	ELS ELS	8	27	OS	H	6.3	600	400	1.5				45	1000	0.17	GR	MD		
8L039V	*	ELS ELS	8	27	OS	H	6.3	600	400	2.0	4.0			60	1500	0.17	YO	LO		
9L01I	*	ELS ELS	9	35	OD	H	6.3	600	300	1.0	1.0	1.0	2.8	60	1500	0.45	GR	MD		
10LK2B		ELM ELM	8	32	PR	H	1.5	25h		20.0				120	200		WH	MD		
10LK3B	*	ELM ELM	10	30	PR	H	6.3	500		25.0				50	200		WH	MD		
10L02I	*	ELS ELS	10	36	OD	H	6.3	350		2.0	4.0			120		0.25	GR	MD		
10L043I	*	ELS ELS	10	41	OD	H	6.3	600	550	2.0				60		0.20	GR	MD		
11LM2G	*	ELM ELM	11	29	DT	H	6.3	600		20.0				80						
11LM3G	*	ELM ELM	11	36	DT	H	6.3	600		20.0				95						
11L01I	*	ELS ELS	8	41	OS	H	6.3	300	250	<0.1	<0.1	8.0		25		1.8	GR	MD		
12LN1	*	ELS ELM			OS	H	6.3			<0.1	1.2	6.3								
13LK1B	*	ELM ELM	14	37	TV	H	6.3	550		6.0				76	100		WH	MD		
13LK2B	*	ELM ELM	S13	31	TV	H	6.3	500		4.0				55	50		WH	MD		
13LK3B	*	ELM ELM	13	31	TV	H	6.3	500		10.0				90	40		WH	MD		
13LK6B	*	ELM ELM	13	38	PR	H	6.3	880		1.2	45.0			150	550		WH	MD		
13LK7B		ELM ELM	13	39	TV	H	6.3	880		1.2	45.0			150	550		WH	MD		
13LK8A	*	ELS ELM	13	43	PT	H	6.3	600	500	14.0				60			BL	SH		
13LM4V	*	ELM ELM	13	29	OS	H	6.3	600		0.4	12.0			50	350		YO	LO		
13LM6V	*	ELS ELM	13	21	RA	H	6.3	600	425		14.0			50			YO	LO		
13LM7V	*	ELM ELM	13	27	RA	H	6.3	600		0.2	12.0			70			YO	LO		
13LM31M	*	ELM ELM	13	28	OS	H	6.3	600	250	4.0				45	350		YO	LO		
13LM56I	*	ELM ELM	13	29	RA	H	6.3	600		0.2	4.0			50	350		GR	MD		
13LM57		ELM ELM	11	28	OS	H	6.3	600	250		6.0			71			GR	LO		
13LM58K		ELS ELM	13	29	OS	H	6.3	600		0.7	4.0			50			RD	LO		
13LN2	*	ELS ELS	13	45	ST	H	6.3	550		0.2	3.0									
13LN6	*				OD															
13L01B		ELS ELS	13				2.5	2A	425	2.0				40			GR	MD		
13L02B		ELS ELS	13				6.3	600	500	1.8	3.0			50			GR	MD		
13L03I	*	ELS ELS	14	43	OS	H	6.3	600	410	1.5	3.0			50	1000	0.45	GR	MD		
13L04I		ELS ELS	14	43	OS	H	6.3	600	425	1.5	1.5	5.0	8.0	50		0.25	GR	MD		
13L05P		ELS ELS	13				6.3	600	500	1.8	3.0			50			YO	LO		
13L06I	*	ELS ELS	13	34	OS	H	6.3	600	400	1.5				45		0.38	GR	MD		
13L07V	*	ELS ELS	14	45	OD	H	6.3	600	600	2.0	4.0	8.0		80		0.30	WH	LO		
13L09I	*	ELS ELS	14	45	OS	H	6.3	600	300	1.2	4.8			40		1.0	GR	MD		

Group VIII—CATHODE RAY TUBES—Continued

Type No.	Meth of Focus	Meth of Defl	Dimensions Diam cm	Dimensions Lth cm	Use	Cathode	Typical Heater E V	Typical Heater I mA	E_{proc} V	E_{A_1} kV	E_{A_2} kV	E_{A_3} kV	E_{A_4} kV	E_{C_1} V	Maximum I_K μA	Maximum Defl sens mm/V	Screen Col	Screen Pers	Defl angle deg	Base No.
13L036V *	ELS	ELS	14	43	OS	H	6.3	600	525		2.0	4.0		60	1000	0.29	WH	LO		
13L037A *	ELS	ELS	14	43	OS	H	6.3	600	400		1.5	3.0		50	1000	0.43	BL	SH		
13L048V *	ELS	ELS	14	41	OD	H	6.3	600	550	2.0				60		0.17	BL	LO		
13L054A *	ELS	ELS	14	43	OS	H	6.3	600	300	1.5	3.5	6.0	8.0	60	750	0.20	BL	LO		
13L0101M*			13	32	OS	H	6.3	550	11h	3.0	6.0			140		0.15	BL	SH		
13L0102M*	ELS	ELS	13	61	OS	H	6.3	750	300	4.0	15.0	25.0		300		0.15	BL	MD		
13L0104A*	ELS	ELS	13	54	OS	H	6.3	600	700	.4	4.0	8.0	12.0	100		0.13	BL	SH		
16LK1B *	ELS	ELM	R16	19	TV	H	1.4	280	450	0.3	9.0			40	60		WH	SH	70	
16LM1G *	ELM	ELM	13	31	RA	H	6.3	600		20.0				90						50
16L02I *	ELS	ELS	13	45	OD	H	6.3	600	500		2.0	3.5		70	500	0.28	GR	MD		
16L03I *	ELS	ELS	16	35	OS	H	6.3	600	450		1.5			45		0.48	GR	MD		
18LK1B	ELM	ELM	17	35	TV	H	2.5	21h		3.5				35			WH			
18LK2B	ELM	ELM	14	42	TV	H	6.3	550			15.0			60	100		WH	SH		
18LK3V	ELM	ELM	18				2.5	2A		3.5				60			GR	MD		
18LK4B	ELS	ELM	17	34	TV	H	6.3	600			6.0			60	150		WH	SH		
18LK5B *	ELM	ELM	17	35	TV	H	6.3	520		4.0				30	100		WH	MD		
18LK7B	ELM	ELM	17	35	TV	H	6.3	560			4.0			35	100		WH	SH		
18LK9A *	ELM	ELM	19	48	PT	H	6.3	550		25.0				125	250		BL	SH		
18LK11B *	ELM	ELM	17	35	TV	H	6.3	550		8.0				75	100		WH	MD		
18LK12B *	ELM	ELM	17	42	TV	H	6.3	550		15.0				100	100		WH	MD		
18LK13L *	ELM	ELM	17	42	TV	H	6.3	550		25.0				140	200		BL	SH		
18LK14T *	ELM	ELM	17	42	TV	H	6.3	550		25.0				140	500		GR	SH	40	
18LK15	ELM	ELM	17	34	TV	H	6.3	550		5.0				38	100		WH	MD		
18LK17L *	ELM	ELM	17	40	TV	H	6.3	550		25.0				60			BL	SH		
18LM3S *	ELS	ELM	18	29	RA	H	6.3	600	425	0.4	14.0			50			YO	LO		
18LM35V *	ELM	ELM	18	35	RA	H	6.3	600		0.2	4.0			50	350		WH	LO		
18L01A *	ELS	ELS	18	47	OD	H	6.3	600	1k	4.0	8.0			130		0.23	BL	SH		
18L040B	ELS	ELS	18	36	TV	H	6.3	600		2.0				120			WH	MD		
18L047A *	ELS	ELS	18	45	OD	H	6.3	600	550	2.0	6.0			100		0.19	BL	SH		
19LK4B	ELM	ELM	17		TV	H	6.3	600		6.0				60						
20LM1YE *	ELS	ELM	20	46	OD	H	6.3	12h		0.3	4.0	8.0		60	60		GR	LO		
22L01A *	ELS	ELS	15	48	50	H	6.3	600	500		2.0	4.0		70		0.23	BL	SH		
23LK1B	ELM	ELM	19	38	TV	H	6.3	550		8.0				50			WH	MD		
23LK2B	ELM	ELM	22	47	TV	H	6.3	550			10.0			18	100		WH	SH		
23LK5B *	ELM	ELM	23	40	TV	H	6.3	550		12.0				80	100		WH	MD		
23LK6I *	ELM	ELM	24	49	PT	H	6.3	550		25.0				100	150		GR	MD		
23LK7B *	ELM	ELM	R23	42	TV	H	6.3	550		8.0				55	100		WH	MD		
23LK8B *	ELM	ELM	S23	49	TV	H	6.3	550		15.0				60	100		WH	MD		
23LK9B *	ELS	ELM	R23	18	TV	H	12.0	65	250	9.0				25	150		WH	MD	90	
23LK13B *	ELS	ELM	R23	20	TV	H	12.0	65	350	0.1	11.0			60			WH		90	
23LK41I *	ELM	ELM	R23	30	TV	H	6.3	550		8.0				65	50		YG	MD		
23LM3S *	ELS	ELM	23	34	RA	H	6.3	600	425	0.4	14.0			50			YO	LO		
23LM34V *	ELM	ELM	23	43	OS	H	6.3	600		0.2	4.0			50	350		YO	LO		
23L051A *	ELS	ELS	23	57	OS	H	6.3	600	55h	6.0	20.0			200		0.03	BL	SH		
25LM1V *	ELM	ELM	R28	35	OS	H	6.3	550		10.0				60	60		YO	LO		
26L02A *			6	24	PT	H	6.3	300		3.0	6.0			40						
30LK1B			30	45	TV	H	6.3	600		10.0				75						
31LK1B	ELM	ELM	31		TV	H	6.3	550		10.0				52	150		WH	MD		
31LK2B *	ELM	ELM	30	48	TV	H	6.3	600		10.0				55	150		WH	MD		
31LM32V *	ELM	ELM	31	54	RA	H	6.3	600		0.2	4.0			50	350		YO	LO		
31L01P	ELM	ELM	31						250	1.8				50			GR	MD		
31L033V *	ELS	ELS	31	57	OS	H	6.3	600		1.1	4.3	5.5		140			YO	LO		
35LK1B	ELS	ELM	32	38	TV	H	6.3	600	425	12.0				90	150					
35LK2B *	ELS	ELM	R32	46	TV	H	6.3	600	425	0.3	12.0			60	150		WH	SH	70	
35LK4B *	ELS	ELM	R33	44	TV	H	6.3	520	250	14.0				60	100		WH	MD	70	
35LK6B *	ELS	ELM	R35	38	TV	H	6.3	600	425	0.3	12.0			60	125		WH	MD		
40LK1B *	ELM	ELM	40	49	TV	H	6.3	500		12.0				70	150		WH	MD	70	
40LK4TS *	ELS	ELM	R40	40	TV	H	6.3	900	4k	0.5	20.0			132			3C	MD		
42LM2YE *	ELS	ELM	42	59	RA	H	6.3	12h	4k	4.5	11.5	20.0		60	50		OG	LO		
43LK2B *	ELS	ELM	R37	50	TV	H	6.3	600	300	0.3	14.0			60	100		WH	MD	70	

Group VIII – CATHODE RAY TUBES – Continued

Type No.		Meth of		Dimensions		Use	Cathode	Typical							Maximum		Screen		Defl angle	Base No.
		Focus	Defl	Diam	Lth			Heater		E_{proc}	E_{A_1}	E_{A_2}	E_{A_3}	E_{A_4}	E_{C_1}	I_K	Defl sens	Col	Pers		
								E V	I mA	V	kV	kV	kV	kV	V	μA	mm/V			deg	
43LK3B	*	ELS	ELM	R43	51	TV	H	6.3	600	300	0.5	14.0			60	150		WH	MD	70	
43LK6B		ELS	ELM	S45	30	TV	H	6.3	600		0.3	0.5	14.0		25			WH	SH	11A	
43LK7B		ELS	ELM	S45	50	TV	H	6.3	600		0.3	0.3	14.0		60	35		WH	SH	68	
43LK8B	*	ELS	ELM	S45	50	TV	H	6.3	600		0.3	0.5	14.0		50	100		WH	SH		
43LK9B	*	ELS	ELM	R37	33	TV	H	6.3	600	425	0.3	14.0			60	30		WH	MD	110	
43LK11B	*	ELS	ELS					6.3	600	400	0.3	14.0			90	250		WH	MD		
45LM1B	*	ELM	ELM	45	56	RA	H	6.3	600		0.5	12.0			60	350		YO	LO		
45LM2U	*	ELM	ELM	44	51	RA	H	6.3	600		0.5	14.0			60			GR	SH		
45LM3N	*	ELM	ELM	44	54	RA	H	6.3	550		14.0				60			YG	LO		
47LK1B		ELS	ELM	S47	31	TV	H	6.3	300	400	0.4	16.0			55	120		WH	SH	110	
47LK2B	*	ELS	ELM	R44	30	TV	H	6.3	300	400	0.4	16.0			80	300		WH	MD	110	
50LK1B	*	ELS	ELM	R50	32	TV	H	6.3	400	04	16.0				77			WH		110	
51LS1	*	ELS	ELS	51	104	CH	H	6.3	600	500	3.5	7.0			90			YG	MD		
53LK2B	*	ELS	ELM	R48	61	TV	H	6.3	600	300	0.3	16.0			60	150		WH	MD	70	
53LK3B				S50	58	TV	H	6.3	600	300	0.4	16.0			140						
53LK4TS	*	ELS	ELM	R47	65	TV	H	6.3	18h	3k	20.0				70	500		3C	MD		
53LK5B		ELS	ELM	S45	38	TV	H	6.3	600	300	0.5	16.0			25	100		WH	SH	110	
53LK6B		ELS	ELM	S48	385	TV	H	6.3	600	425	0.3	0.5	16.0		90	30		WH	SH	110	
59LK1B		ELS	ELM	S59	37	TV	H	6.3	300	425	0.4	16.0			55			WH	SH	110	
59LK2B		ELS	ELM	S59	36	TV	H	6.3	300	400	0.4	16.0			80	300		WH	MD	110	
61LK1B	*	ELS	ELM	R60	36	TV	H	6.3	300	400	0.4	18.0			44	350				110	
65LK1B		ELS	ELM	38	62	TV	H	6.3	300	400	20.0				80	300					

Group VIII–A – VIDICONS

Type No.		Kind	Target area		Spectral response		Resolution lines		Voltages				Current		Target	Dimen	
			Hgt mm	Width mm	Min kÅ	Max kÅ	Center Min	Corner Max	Heater V	1st An. V	2d An. V	Mod. max V	Heater mA	Signal nA	Ill. lux	Dia mm	Lth mm
LI1		IC							6.3	400	12h	50	510			40	170
LI3		IC							12.6	650	1k	50	300			10	
LI6		IC							12.6	850	13h	50	300			20	320
LI7	*	IC							12.6	850	13h	50	300			130	320
LI13		IM							6.3	400	15h	70	600			80	390
LI14		IM								600	900	35				30	390
LI15		IM								600	900	35	600			30	390
LI17	*	IM							6.3	400	15h	95	600			80	390
LI18	*	VID							6.3	600		80	450			16	160
LI22	*	IM							6.3	11h		120	550			90	300
LI23	*	VID	9.5	12.7			550	350	6.3	300	300	125	600	100		28.6	156
LI101	*	IC							6.3	800	12h	5	300			150	310
LI201	*	IM							6.3	400	15h		600			80	390
LI202	*	IM							6.3	400	15h	150	600			80	390
LI203	*	IM							6.3	500			600			80	390
LI207	*	IM							6.3	400	15h		600			80	390
LI212	*	IM							6.3	300	18h		260			40	230
LI401									6.3				450			340	160
LI407	*	VID	4.5	6	4.0	7.0	350	250	6.3			150	90	5	15	16	112
LI408	*	VID	11	11	5.0	6.4	600	500	6.3	300	300	130	90			28.6	130
LI409	*	VID	11.5	11.5	4.0	5.3	550	400	6.3		300	125	90	10μ	5	28.6	130
LI410	*	VID	18	18	4.0	5.5	800		6.3	700	400	300	630	160		43	218
LI412	*	VID	11.5	11.5	6.5	7.2	550	350	6.3	300	300	60	90	100	1	28.6	130
LI415	*	VID	9.5	12.7			600	600	6.3	300	300	125	640	10μ		28.6	161
LI418	*	VID	4.5	6	4.0	7.0	350	250	6.3			150	90	5	15	16	112
LI420	*	VID	9.5	12.7	4.2	5.7	500	400	6.3				90	100	10	28.6	164
LI421	*	VID	9.5	12.7	5.5	6.1			6.3				640	100		28.6	164
LI424	*	VID	4.5	6.0		5.8	350	250	6.3	300	300		90	50		16	112
LI425	*	VID	11.5	11.5		6.5	550	400	6.3	300	300		90	50		28.6	150
LI428	*	VID	9.5	12.7	5.5	6.1	500	400	6.3				90	100		28.9	164
LI601	*	IM								16h		370				50	200
LI604-K	*	IMD		25			125	100						30μ		55	170

Type No.		Kind	Freq Min GHz	Freq Max GHz	Duty cyl %	Operation	Cathode E_f V	Cathode I_f mA	Maximum E_b V	Maximum I_b mA	Maximum P_o mW	Maximum Col V	Maximum E_μ V	Maximum Helix V	Maximum Gain dB	Maximum NF dB	Maximum VSWR	Maximum Band width MHz	Maximum Mag field gauss	Coupling	Dimen Lth mm	Dimen Diam mm	Wt g
2J55		MAG		13.3	1	P			12k	12A	53W								33h				
3J21		MAG		24.5		C			15k	15	60W												
4J26–30		MAG		1.2	1	P			27k	46A	700W								14h				
4J45		MAG		2.8	1	P			23k	45	650W												
4J50		MAG		12.1	1	P			22k	27A	28W								69h				
GSH-5		NOI	10.0	26.0			6.3			70						18							
UV-5		TWT	3.4	4.4			3.0	900	180	1	<1	600	12	500	18	8	1.6			WG	388	17	83
GSH-6		NOI	25.4	52.0			6.3			60						18							
UV-6		TWT	3.4	4.4			4.0	950	500	4	30	1300	30	11h	30		1.6			WG	388	17	95
UV-7		TWT	3.4	4.4			6.3	850	1400	35	3W	1500	80		26		1.6			WG	397	17	100
GSH-10		NOI	2.6	8.4			6.3			150						18							
GSH-11		NOI	8.4	11.6			6.3			150						18							
K-12		KLO	2.5	3.6		C	6.3		250	40	100										77	30	
KIU12		KLA	2.8			P	9.5		280k		20MW				40			14	800	WG	13h	300	50k
MI-12		MAG	3.0	3.1		P			15k	18A	1hkW								18h				
UV-13		TWT	3.4	4.4			2.4		600	350μ	5				20	9			600				
MI-14		MAG	2.9	3.0		P			15k	18A	1hkW								18h				
UV-14		TWT	3.4	4.4			4.5		1300	5	100				30	25			PM				
K-15		KLO	3.1	5.6		C	6.3		250	50	50										68	25	
KIU15		KLA	1.8			P	12.0		280k		30MW				35			18	700	WG	15h	400	75k
MI-15		MAG	2.9	2.9		P			15k	18A	1hkW								18h				
MI-16		MAG	2.8	2.8		P			15k	18A	1hkW								18h				
K-26		KLO	0.5	0.7		C	6.3		250	60	100										140	33	
GSH-28		NOI	64.0	76.0			6.3			100						17							
GSH-29		NOI	52.0	65.0			6.3			100						17							
K-29		KLO	8.8	10.3		C	6.3		320	45	15										150	58	
K-30		KLO	7.7	9.1		C	6.3		320	50	15										150	58	
K-31		KLO	7.0	8.1		C	6.3		320	50	20										141	46	
K-32		KLO	5.6	7.1		C	6.3		320	50	20										141	56	
K-33		KLO	14.3	16.7		C	6.3		400	45	10										150	58	
K-34		KLO	12.0	14.4		C	6.3		400	45	10										150	58	
K-35		KLO	10.0	12.1		C	6.3		350	45	10										150	58	
K-41		KLO	1.4	2.5		C	6.3		250	60	80										85	30	
K-42		KLO	0.9	1.5		C	6.3		250	60	80										85	30	
K-48		KLO	3.4	4.4		C	6.3		180	70	100										70	25	
MI-51		MAG	9.5	9.5		P			13k	16A	65kW								48h				
MI-52		MAG	9.4	9.5		P			13k	16A	65kW								48h				
MI-53		MAG	9.3	9.4		P			13k	16A	65kW								48h				
MI-54		MAG	9.3	9.3		P			13k	16A	65kW								48h				
M62	*	MAG	2.4	2.4		C			2300	150	150W								18h		200	140	700
M81	*	MAG	2.3	2.4					5500		5kW						3.1			WG	290	140	62h
K-92A		KLO	3.4	3.6		C	6.3		850	90	1W	600									160	140	2k
K-92B		KLO	3.5	3.7		C	6.3		850	90	1W	600									160	140	2k
K-92G		KLO	4.0	4.3		C	6.3		850	90	1W	600									160	140	2k
K-92V		KLO	3.7	4.0		C	6.3		850	90	1W	600									160	140	2k
MI-95		MAG	9.2	9.3		P			13k	16A	65W								48h				
MI-120		MAG	2.8	2.8		P			5k	7A	10kW								13h				
MI-137		MAG	1.8	1.8		P			23k	25A	25kW								16h				
UV-204		TWT	3.4	3.9			13.2		2800	75	20W				20				500				
UV-205		TWT	3.4	4.4			6.3		1400	55	4W				30	30			750				
KU304		KLA	0.8	0.9		C	6.5		16k		10kW				40			6	250	CO	12h	400	60k
KU304A		KLA	0.8	0.8		C	6.5		15k		10kW				37			10	350	CO	10h	400	65k
K-308		KLO	3.4	4.0		C	6.3		220	130	500										73	25	
KU308		KLA	0.8	1.0		C	10.0		10k		4kW				45			8	400	CO	10h	206	35k
KU309		KLA	0.5	0.6		C	4.0		9k		3kW				40				300	CO	10h	250	50k
KU310A		KLA	0.5	0.6		C	5.0		15k		15kW				35			8	500	CO	12h	250	85k
KU310B		KLA	0.6	0.6		C	5.0		15k		15kW				35			8	500	CO	14h	250	85k
K-351		KLO	2.7	3.3		C	6.3		250	40	80										80	29	
K-352		KLO	3.2	7.5		C	6.3		250	40	10										68	25	
UV-421		TWT	0.9	1.2			2.8		200	300μ	5				18	<9			360				

Type No.		Kind	Freq Min	Freq Max	Duty cyl	Operation	Cathode E_f	Cathode I_f	Maximum E_b	Maximum I_b	Maximum P_o	Maximum Col	Maximum E_u	Maximum Helix	Maximum Gain	Maximum NF	VSWR	Band width	Mag field	Coupling	Dimen Lth	Dimen Diam	Wt g
			GH_z	GH_z	%		V	mA	V	mA	mW	V	V	V	dB	dB		MHz	gauss		mm	mm	
UV-422		TWT	0.6	1.0			2.8		450	700μ	5				15	8			420				
UV-438		TWT	3.5	5.3			3.0		560	400μ	5				25	11			600				
UV-440		TWT	1.5	2.4			2.5		400	700μ	10				25	10			500				
M-532		MAG	2.3	3.6		C			5000	200	100W								22h		273	70	25h
M571	*	MAG	2.4	2.4		C			3600	1150	25hW								12h		210	160	15h
MI-588	*	MAG	36.4	37.1		P			15k	12A	28 kW								PM				
MI-589A	*	MAG	9.4	9.5		P			135h	20A	95 kW								PM				
MI-589B	*	MAG	9.3	9.4		P			135h	20A	95 kW								PM				
MI-589V	*	MAG	9.3	9.3		P			135h	20A	95 kW								PM				
0V-612		BWT	37.5	53.6		C	5.0		1500	50	200	400			10						200	130	5k
0V-613		BWT	52.6	81.0		C	5.0		1500	50	80	400			10						200	130	5k
0V-614		BWT	79.0	h1.2		C	6.3		2500	50	50	400			10						200	130	5k
0V-621		BWT	h1.8	h2.0		C	6.3		3000	50	15	500			13						240	140	95h
0V-622		BWT	h1.2	h1.8		C	6.3		4000	50	50	500			13						240	140	95h
700AD		MAG		0.6	20	P			12k	10A	40W								650				
706AU		MAG		3.1		P			22k	20	200W												
707A/B		KLO	2.4	3.5		C	6.3	250		100	275							20					
714AU		MAG		3.3	1	P			19k	20A	165W								22h				
720AYE		MAG		2.8	<1	P			27k	65A	1 kW								29h				
723A/B		KLO	8.5	9.6		C	6.3	300	20	30	300							70					
725A		MAG		9.3		P			12k	10	44W												
726		KLO	2.9	3.2		C	6.3	300	20	170	300							30					
K-743		KLO	33.3	36.6		C			1800	15	10												
K-744		KLO	27.3	33.3		C			1800	15	10												
K-745		KLO	23.0	27.3		C			1500	15	15												
K-746		KLO	20.0	23.0		C			1200	15	15												
K-747		KLO	16.7	20.0		C			1200	15	15												
K-765		KLO	75.0	79.0		C			2400	15	15												
K-766		KLO	70.0	75.0		C			2400	15	15												
K-767		KLO	64.0	70.0		C			2400	15	20												
K-768		KLO	57.6	66.4		C			2400	15	20												
K-769		KLO	52.7	57.6		C			2400	15	20												
K-770		KLO	43.0	52.7		C			2000	15	20												
K-771		KLO	36.2	43.0		C			2000	15	20												
K-801		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-802		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-803		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-804		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-805		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-806		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-807		KLO	2.4	6.1		C	6.3		250	150	100										82	29	
UV1001	*	TWT	5.0	10.3			3.0		800	400μ	5				25	10			900	WG			
UV1002	*	TWT	5.0	10.3			3.0		800	400μ	5				25	10			900	WG			
UV1003	*	TWT	0.9	5.0			2.8		560	700μ	5				25	10			600	WG			
UV1004	*	TWT	0.9	5.0			2.8		560	700μ	5				25	10			600	WG			
UV1005	*	TWT	0.9	5.0			2.8		560	700μ	5				25	10			600	WG			
UV1006	*	TWT	0.9	5.0			2.8		560	700μ	5				25	10			600	WG			
UV1007	*	TWT	5.0	10.3			6.3		1200	<6	100				30	30			PM	WG			
UV1008	*	TWT	5.0	10.3			6.3		1200	<6	100				30	30			PM	WG			
UV1009	*	TWT	0.9	5.0			6.3		1400	18					30	30			PM	WG			
UV1010	*	TWT	0.9	5.0			6.3		1400	18					30	30			PM	WG			
UV1011	*	TWT	0.9	5.0			6.3		1400	18					30	30			PM	WG			
UV1012	*	TWT	0.9	5.0			6.3		1400	18					30	30			PM	WG			

Group X – TRANSISTORS

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

Group X – TRANSISTORS – Continued

Type No.		Kind	Maximum									Typical			Maximum			Minimum		Typ	Min	Maximum		Fig No.
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	fα *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *r'_bC_e	
P17B		GAP	40			400		200	150									32	0.2		20			8
P18		GAP	70			400		200	150									9	0.2		20			8
P18A		GAP	70			400		200	150									16	0.2		20			8
P18B		GAP	70			400		200	150									32	0.2		20			8
P19	*	GAP	20	20	6	30	5	6	30	1	90	E	5	1	33		2.0	20	5.0	5		20	150	3
MP20	*	GAP	50		20	300	1	50	150			C		25				50	1.0			20		10
MP20A	*	GAP	30		20	300		50	150	3	85	E	5	25				50	2.0					17
MP20B	*	GAP	30		20	300		50	150	3	85	E	5	25				80	1.5					17
MP20V	*	GAP	40		30	300		50	150	3	85	E	5	25				20	1.5					17
P21		GAP	50			30	1	50	150	3	85	C	5					20	1.0					10
P21A		GAP	30		20	500	1	50	150	3	85	C	5	25				20	1.0			20		10
P21B		GAP	30		20	500		50	150	3	85	C	5	25				20	1.0			20		10
MP21D	*	GAP	50		30	300		50	150	3	85	E	5	25				60	1.0					17
MP21G	*	GAP	60		30	300		50	150	3	85	E	5	25				20	1.0					17
P21V	*	GAP	60		35	300		50	150		85	E	5	25				20	1.5					17
MP21YE	*	GAP	70		35	300		50	150	3	85	E	5	25				30	0.7					17
P22		GAP	40		20	10		25	100		85						3.3	5	1.0			20		10
P23		GAP	35		30	10		25	100		85						3.3	5	2.0			18		10
MP25	*	GAP	40		40	300	6	75	200	5	75	E	20	<3			3.5	13	0.2		20	50	160	17
MP25A	*	GAP	40		40	400	6	75	200	5	75	E	20	<3			3.5	20	0.2		20	50	160	17
MP25B	*	GAP	40		40	400	6	75	200	5	75	E	20	<3			3.5	30	0.5		20	50	160	17
MP26	*	GAP	70		70	300	6	75	200	5	75	E	35	<2			3.5	13	0.2		20	50	160	17
MP26A	*	GAP	70		70	400	6	75	200	5	75	E	35	<2			3.5	20	0.2		20	50	160	17
MP26B	*	GAP	70		70	400	6	75	200	5	75	E	35	<2			3.5	30	0.5		20	50	160	17
P27	*	GAP	5		5	6		3	30	1	75		5	<1			2.0	20	1.0	10		50	*6k	17
P27A	*	GAP	5		5	6		3	30	1	75	E	5	<1			1.0	20	1.0	5		50	*6k	17
P28	*	GAP	5		5	6		3	30	1	75	E	5	<1			1.0	20	5.0	5		50	*6k	17
P29	*	GAP	12	12	10	100		4	30	1	75		<1	20				20	5.0			20		17
P29A	*	GAP	12	12	10	100		4	30	1	75		<1	20				40	5.0			20		17
P30	*	GAP	12	12	10	100		4	30	1	75	E	<1	20				80	10.0			20		17
P31		GAP			12	100		5	30									25	4.5			50		17
P31A		GAP			12	100		5	30									45	4.5			60		17
P32		GAP			12	100		5	30									45	9.0			20		17
MP35	*	GAN	15		15	20		15	150		75	E	5	1			3.3	10	0.5			60	220	17
MP36A	*	GAN	15		15	20		15	150		75	E	5	1			3.3	15	1.0			60	220	17
MP37	*	GAN	15		15	20		15	150		75	E	5	1			3.3	15	1.0			60	220	17
MP37A	*	GAN	30		30	20		15	150	5	75	E	15	1			3.3	15	1.0			60	220	17
MP37B	*	GAN	30		30	20		15	150	5	75	E	15	1			3.3	25	1.0			60	220	17
MP38	*	GAN	15		15	20		15	150		75	E	5	1			3.3	25	2.0			60	220	17
MP38A	*	GAN	15		15	20		15	150	5	75	E	5	1			3.3	45	2.0			60	220	17
MP39	*	GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	12	0.5			60	220	17
MP39B	*	GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	20	0.5	12		60	220	17
MP40	*	GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	20	1.0			60	220	17
MP40A	*	GAP	30	5	30	150		15	150	5	85	E	5	1			3.3	20	1.0			60	220	17
P40B		GAP			30	20		15	150		85							30	1.0			60		10
MP41	*	GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	30	1.0			60	220	17
MP41A	*	GAP	15	5	15	150		15	150	5	85	E	5	1			3.3	50	1.0			60	220	17
MP42	*	GAP	15		15	150		25	200	5	85	E	1	10				20	1.0					17
MP42A	*	GAP	15		15	150		25	200	5	85	E	1	10				30	1.0					17
MP42B	*	GAP	15		15	150		25	200	5	85	E	1	10				45	1.0					17
P101		SAN	20		10	20	20	1	150	2	120	E	5	1	100	300	3.3	10	0.2	15	25	150		10
P101A		SAN	10	10	10	20	20	1	150	2	120	E	5	1	100	300	3.3	10	0.2	18		150		10
P101B		SAN	20	20	20	20	20	1	150	2	150	E	5	1	100	300	3.3	15	0.2	15		150		10
P102		SAN	10	10	10	20	20	1	150	2	120	E	5	1	100	300	2.0	18	0.5	15		150		10
P103		SAN	10	10	10	20	20	1	150	2	120	E	5	1	100	300	3.3	30	1.0	15		150		10
P103A		GAN			10	20		3	150									30	1.0			100		10
P104		SAP	60	45	60	10	10	1	150	2	150	E	5	1	140		3.3	9.0	0.1			80	1k	10
P105		SAP	30	45	30	10	10	1	150	2	150	E	5	1	140		3.3	9.0	0.1			80	1k	10
P106		SAP	15	45	15	10	10	1	50	2	150	E	5	1	80		2.0	13.5	0.5			80	<2k	10
GT108A	*	GAP	10			50		10	75	1	80	E	5	1			3.3	20	0.5			50	5k	9A

Type No.		Kind	Maximum								Typical		Maximum			Minimum		Typ NF	Min K_M	Maximum		Fig No.
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-3}	h_{22} μmho	h_{21}	fα *f_T max MHz	dB	dB	C_{ob} pF	r_b Ω *$r'_b C_c$	
GT108B	*	GAP	10			50		10	75	1	80	E	5	1			3.3	35	1.0			50	5k	9A
GT108G	*	GAP	10			50		10	75	1	80	E	5	1			3.3	h1.1	1.0			50	5k	9A
GT108V	*	GAP	10			50		10	75	1	80	E	5	1			3.3	60	1.0			50	5k	9A
P108		GAN			10	20		<1	150									20	*1.0			50		10
P108A		GAN			10	20		<1	150									13	1.0			50		10
GT109A	*	GAP	10		6	20		5	30	<1	80	E	5	1			3.3	20	1.0			30	*5k	29
GT109B	*	GAP	10		6	20		5	30	<1	80	E	5	1			3.3	35	1.0			30	*5k	29
GT109D	*	GAP	10		6	20		2	30	<1	80	E	5	1			3.3	20	3.0			40	*5k	29
GT109G	*	GAP	10		6	20		5	30	<1	80	E	5	1			3.3	h1.1	1.0			30	*5k	29
GT109I	*	GAP	10		6	20		5	30	<1	80	E	5	1			3.3	20	1.0			30	*5k	29
GT109V	*	GAP	10		6	20		5	30	<1	80	E	5	1			3.3	60	1.0			30	*5k	29
GT109YE	*	GAP	10		6	20		2	30	<1	80	E	5	1			3.3	50	5.0			40	*5k	29
GT109ZH	*	GAP	10		6	20		1	30	<1	80	E	1	5			3.3	1h				30	*5k	29
P109		GAN			10	20		<1	150									13	*2.0			50		10
P110		GAN			10	20		<1	150									15	*3.0			30		10
MP111	*	SAN	20	5	20	20		3	150	2	120	E	5	1	30	300	2.0	10	0.5			170		17
MP111A	*	SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2.0	10	0.5	18		170		17
MP111B	*	SAN	10	5	20	20		3	150	2	120	E	5	1	30	300	2.0	15	0.5			170		17
MP112	*	SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2.0	15	0.5			170		17
MP113	*	SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2	15	1.0			170		17
MP113A	*	SAN	10	5	10	20		3	150	2	120	E	5	1	30	300	2.0	35	1.2			170		17
MP114	*	SAP	60	10	60	10		10	150		120	E	5	1	300	60		9	0.1					17
GT115A	*	GAP	20	20		30		40	50		85	E	5	25				20	1.0					9A
GT115B	*	GAP	30	20		30		40	50		85	E	5	25				20	1.0					9A
GT115D	*	GAP	20	20		30		40	50		85	E	5	25				1h	1.0					9A
GT115G	*	GAP	30	20		30		40	50		85	E	5	25				60	1.0					9A
GT115V	*	GAP	20	20		30		40	50		85	E	5	25				60	1.0					9A
MP115	*	SAP	30	10	30	10		10	150		120	E	5	1	300	64		9	0.1					17
MP116	*	SAP	15	10	15	10		10	150		120	E	5	1	300	114		15	0.5					17
P135		GAP	30				10	10	150		100		5	1		60	2.0	0.92	0.5	12		50		10
P201E	*	GAP	45	45	30	15h		400	1W	300	85	E	10	200				20	0.1	25				25
P201AE	*	GAP	45	45	30	15h		400	1W	300	85	E	10	200				40	0.2	25				25
P202E	*	GAP	70	35	55	2k		400	1W	300	85	E	10	200				20	0.1	30				25
P203E	*	GAP	70	45	55	2k		400	1W	300	85	E	10	200				20	0.2	20				25
P207		GAP	45	20	40	25A		16m	4W	70	85							15	0.2					24
P207A		GAP	45	20	40	25A		16m	4W	70	85							15						24
P208		GAP	65	30	60	25A		25m	4W	70	85							15						24
P208A		GAP	65	30	60	25A		25m	4W		85							15						24
P209		GAP	65		45	12A		8m	1500	43	85							15	0.1					4
P209A		GAP	65		45	12A		8m	1500	43	85							15	0.1					4
P210		GAP	45		65	12A		12m	1500	43	85							15	0.1					4
P210A	*	GAP	45		65	12A		12m	1500	43	85							15	0.1					4
P210B	*	GAP	65	25	40	12A		15m	P45W	1k	70	E	2	5A				10	0.1					23
P210V	*	GAP	45	25	40	12A		15m	P45W	1k	70	E	2	5A				10	0.1					23
P211		GAP	50			500		50	750		85							50	1.0					26
P212		GAP	70			500		50	750		85							20	1.0					26
P212A		GAP	70			500		50	750		85							50	1.0					26
P213	*	P	45	15	40	5A	1h	150	<12k	250	85	E	10	100				20	<0.2					25
P213A	*	GAP	45	10	30	5A		1000	10W	250	85	E	5	200				20	<0.2					25
P213B	*	GAP	45	10	30	5A		1000	10W	250	85	E	5	200				40	<0.2					25
P214	*	GAP	60	15	55	5A	1h	300	10W	250	85	E	5	200				20	<0.2					25
P214A	*	GAP	60	15	55	5A	1h	300	10W	250	85	E	5	200				50	<0.2					25
P214B	*	GAP	60	15	55	5A	1h	150	<12k	250	85	E	5	200				20	<0.2					25
P214G	*	GAP	60	10	55	5A		15H	10W	250	85	E	5	200				20	<0.2					25
P214V	*	GAP	60	10	55	5A		15H	10W	250	85	E	5	200				20	<0.2					25
P215	*	GAP	80	15	70	5A	1h	300	10W	250	85	E	5	200				20	<0.2					25
P216	*	GAP	40	15	30	75h	1h	500	30W	500	85	E	10	100				18	0.1					25
P216A	*	GAP	40	15	40	75h	1h	500	30W	500	85	E	10	100				20	0.1					25
P216B	*	GAP	35	15	35	75h		1500	P24W	500	85	E	5	1A				10	0.1					25
P216D	*	GAP	50	15	50	75h		2000	P24W	500	85	E	3	2A				15	0.1					25

Group X – TRANSISTORS – Continued

Type No.		Kind	Maximum									Typical			Maximum			Minimum		Typ	Min	Maximum		Fig
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-3}	h_{22} μmho	h_{21}	$f\alpha$ *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *$r_b'C_c$	No.
P216G	*	GAP	50	15	50	75h		2500	P24W	500	85	E	3	2A				5	0.1					25
P216V	*	GAP	35	15	35	75h		2000	P24W	500	85	E	3	2A				30	0.1					25
P217	*	GAP	60	15	45	75h	1h	500	P30W	500	85	E	1	4A				15	0.1					25
P217A	*	GAP	60	15	45	75h	1h	500	P30W	500	85	E	5	1A				20	0.1					25
P217B	*	GAP	60	15	45	75h	1h	500	P30W	500	85	E	5	1A				20	0.1					25
P217G	*	GAP	60	15	60	75h		3000	P24W	500	85	E	3	2A				20	0.1					25
P217V	*	GAP	60	15	60	75h		3000	P24W	500	85	E	3	2A				15	0.1					25
KT301	*	SDN	20	3	20	10	10	40	150	1	120	E	10	3			3	20	30			10		9
KT301A	*	SDN	20	3	20	10	10	40	150	1	120	E	10	3			3	40	30			10		9
KT301B	*	SDN	30	3	30	10	10	40	150	1	120	E	10	3			3	10	30			10		9
KT301D	*	SDN	20	3	20	10	10	40	150	1	120	E	10	3			3	20	60			10		9
KT301G	*	SDN	20	3	20	10	10	40	150	1	120	E	10	3			3	10	60			10		9
KT301V	*	SDN	30	3	30	10	10	40	150	1	120	E	10	3			3	20	30			10		9
KT301YE	*	SDN	20	3	20	10	10	40	150	1	120	E	10	3			3	40	60			10		9
KT301ZH	*	SDN	20	3	20	10	10	40	150	1	120	E	10	3			3	80	60			10		9
P302	*	SAP	35	6	35	500	5h	100	1000	100	120	E	10	120				10	0.2					20
P303	*	SAP	60	10	60	500	5h	100	1000	100	120	E	10	120				6	0.1				*20	20
P303A	*	SAP	60	6	60	500	5h	100	1000	100	120	E	10	120				6	0.1				*20	20
P304	*	SAP	80	10	80	500	5h	100	1000	100	120	E	10	60				5	<0.1					20
GT305A	*	GDP	15	<2	15	40		4	75	1	85	E	1	10				25	140			<6	*3h	20
GT305B	*	GDP	15	<2	15	40		4	75	1	85	E	1	10				65	160					20
GT305V	*	GDP	15	<2	15	40		4	75	1	85	E	1	10				40	180					20
KT306A	*	SPN	15	4	10	30	30	<1	150		100	C	1	10	30			20	300			5	*5h	34
KT306B	*	SPN	15	4	10	30	30	<1	150		100	C	1	10	30			40	500			5	*5h	34
KT306D		SPN	15	4	10	30	30	<1	150		100	C	1	10	30			30	100				*5h	34
KT306G	*	SPN	15	4	10	30	30	<1	150		100	C	1	10	30			40	100			5	*5h	34
KT306V	*	SPN	15	4	10	30	30	<1	150		100	C	1	10	30			20	100			5	*5h	34
P306	*	SAN	60	6	60	400	1h	100	1000	100	120	E	10	100				7	<0.1					20
P306A	*	SAN	80	4	80	400	50	100	1000	100	120	E	10	100				5	<0.1					20
KT307A	*	SPN	10	4	10	20		500	15	<1	85	C	1	10				20	*3h			6		35
KT307B	*	SPN	10	4	10	20		500	15	<1	85	C	1	10				40	*3h			6		35
KT307G	*	SPN	10	4	10	20		500	15	<1	85	C	1	10				80	*3h			6		35
KT307V	*	SPN	10	4	10	20		500	15	<1	85	C	1	10				40	*3h			6		35
P307	*	SDN	80	3	80	30		3	250		70		20	10	70			16	20					38
P307A	*	SDN	80	3	80	30		3	250		70		20	10	70			30	20					38
P307B	*	SDN	80	3	80	15		3	250		70		20	10	70			50	20					38
P307G	*	SDN	80	3	80	15		3	250		70		20	10	70			16	20					38
P307V	*	SDN	60	3	60	30		3	250		70		20	10	70			50	20					38
GT308A	*	GAP	20	3	12	50		2	150	4	85	E	1	10	2			20	90	8		8	*4h	12
GT308B	*	GAP	20	3	12	50		2	150	4	85	E	1	10	2			50	120	8		8	*5h	12
GT308V	*	GAP	20	3	12	50		2	150	4	85	E	1	10	2			80	120	8		8	*5h	12
P308	*	SDN	120	3	120	15		3	250		70		20	10	70			30	20					38
GT309A	*	GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	20	120			10	*5h	9
GT309B	*	GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	60	120	6		10	*5h	9
GT309D	*	GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	20	40			10	*1k	9
GT309G	*	GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	60	80	6		10	*1k	9
GT309V	*	GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	20	80			10	*1k	9
GT309YE	*	GDP	15	6	10	10		5	50	1	70	E	5	1	38		5.0	60	40			10	*1k	9
P309	*	SDN	120	3	120	30		3	250		70		20	10	70			16	20					38
GT310A	*	GDP	12		10	10		5	20	<1	75	E	5	1	38		3.0	20	160	3		4	*3h	29
GT310B	*	GDP	12		10	10		5	20	<1	75	E	5	1	38		3.0	60	160	3		4	*3h	29
GT310D	*	GDP	12		10	10		5	20	<1	75	E	5	1	38		3.0	20	80	4		5	*3h	29
GT310G	*	GDP	12		10	10		5	20	<1	75	E	5	1	38		3.0	60	120	4		5	*3h	29
GT310V	*	GDP	12		10	10		5	20	<1	75	E	5	1	38		3.0	20	120	4		5	*5h	29
GT310YE	*	GDP	12		10	10		5	20	<1	75	E	5	1	38		3.0	60	80	4		5	*5h	29
GT311A	*	GEM	15	2	12	10		3	100		55	E	5	5	30			20	*3h			2	50	12
GT311B	*	GEM	15	2	12	10		3	100		55	E	5	5	30			20	*45.h	7		2	100	12
GT311D			12	2	12			5	150			E	3	15				60				2	75	12
GT311G			12	2	12			5	150			E	3	15				30				2	75	12
GT311I	*	GDP	12	2	10	50		10	150	3	70							1h	450			<3	*1h	12

Type No.	Kind	Maximum								Typical			Maximum			Minimum		Typ	Min	Maximum		Fig No.
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	$f\alpha$ *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *r'_bC_c	
;T311V		12	2	12			5	150			E	3	15				15				2	75	12
;T311YE	* GDP	12	2	12	50		10	150	3	70							15	250			<3	*75	12
;T311ZH	* GDP	12	2	12	50		10	150	3	70							50	300			<3	*1h	12
;-312A	* SPN	15	4	15	30		10	225	<3	115	E	2	20				10	h8.0			5	*5h	34
;-312B	* SPN	30	4	30	30		10	225	<3	115	E	2	20				25	h1.2			5	*5h	34
;T312G	SPN	15		15	30			225		150								*h1.4					34
;-312V	* SPN	15	4	15	30		10	225	<3	115	E	2	20				50	h1.2			5	*5h	34
;T313A	* GDP	15		12	10		3	100		85	E	5	5	30			20	300			<3	*75	12
;T313B	* GDP	15		12	10		3	100		85	E	5	5	30			20	450	7		2	*40	12
P314A	GAP	10		1			10	100		85							0.94	30			15		
P314B	GAP	10		1			5	100		85							0.94	60			10		
P314S	GAP	10		1			5	100		85							0.94	120			6		
KT315A	* SEN			25	100		1	150	1	120							20	250			7	*3h	30
KT315B	* SEN			20	100		1	150	1	120							70	250			7	*5h	30
KT315G	* SEN			35	100		1	150	1	120							70	250			7	*5h	30
KT315V	* SEN			40	100		1	150	1	120							20	250			7	*5h	30
;TB315A	* SEN	30			30		<1	50		125	E	10	1				20	200			5	*5h	35
;TB315B	* SEN	30			30		<1	50		125	E	10	1				1h	200			5	*5h	35
KT316A	* SEN	10	4	10	30	30	<1	150		100							20	*6h			3	*2h	34
KT316B	* SEN	10	4	10	30	30	<1	150		100							40	*8h			3	*2h	34
KT316D	* SEN	10	4	10	30	30	<1	150		100							60	*8h			3	*2h	34
KT316G	* SEN	10	4	10	30	30	<1	150		100							20	*6h			3	*2h	34
KT316V	* SEN	10	4	10	30	30	<1	150		100							40	*8h			3	*2h	34
KT318A	* SPN	20	<4		20		<1	30		125	E						30	430			<4		35
KT318B	* SPN	20	<4		20		<1	30		125	E						50	430			<4		35
KT318D	* SPN	20	<4		20		<1	30		125	E						50	350			<5		35
KT318G	* SPN	20	<4		20		<1	30		125	E						30	350			<5		35
KT318V	* SPN	20	<4		20		<1	30		125	E						70	430			<4		35
KT318YE	* SPN	20	<4		20		<1	30		125	E						70	350			<5		35
KT319A	* SPN	5	<4	5	15		1	100		125							15	100			11		35
KT319B	* SPN	5	<4	5	15		1	100		125							25	100			11		35
KT319V	* SPN	5	<4	5	15		1	100		125							40	100			11		35
GT320A	* GDP	20	3	12	150		10	200	4	90	E	1	10				20	80			8	*5h	16
GT320B	* GDP	20	3	12	150		10	200	4	90	E	1	10				50	120			8	*5h	16
GT320V	* GDP	20	3	9	150		10	200	4	90	E	1	10				80	160			8	*6h	16
GT321A	* GDP	60	4	50	200		500	160	4	80	E	3	500				20	60			80	*6h	13
GT321B	* G P	60	4	50	200		500	160	4	80	E	3	500				40	60			80	*6h	13
GT321D	* GDP	45	2	30	200		500	160	4	80	E	3	500				40	60			80	*6h	13
GT321G	* GDP	45	2	30	200		500	160	4	80	E	3	500				20	60			80	*6h	13
GT321V	* GDP	60	4	40	200		500	160	4	80	E	3	500				80	60			80	*6h	13
GT321YE	* GDP	45	2	30	200		500	160	4	80	E	3	500				80	60			80	*6h	13
GT322A	* GAP	15		15	5		4	50		62	E	5	1	34		1	20	80	7		<2	*2h	31
GT322B	* GAP	15		15	5		4	50		59	E	5	1	34		1	50	80	4		<2	*2h	31
GT322D	* GAP	15		15	5		4	50		62	E	5	1	34		1	20	50	4		<2	*2h	31
GT322G	* GAP	15		15	5		4	50		59	E	5	1	34		1	50	50	4		<3	*2h	31
GT322V	* GAP	15		15	5		4	50		62	E	5	1	34		1	20	80	4		<3	*2h	31
GT322YE	* GAP	15		15	5		4	50		59	E	5	1	34		1	50	50	4		<2	*2h	31
P322	GDP	8			15		2	50		85						5.0	0.97	400			4		
GT323A	* GPN	20	2	10	1A		30	500	10	100	C	5	500				20	2h			30	*3h	12
GT323B	* GPN	20	2	10	1A		30	500	10	100	C	5	500				40	2h			30	*3h	12
GT323V	* GPN	20	2	10	1A		30	500	10	100	C	5	500				80	3h			30	*3h	12
KT324A	* SEN	10	4	10	20		<1	15		100							20	800			<3		35
KT324B	* SEN	10	4	10	20		<1	15		100							40	800			<3		35
KT324D	* SEN	10	4	10	20		<1	15		100							20	600			<3		35
KT324G	* SEN	10	4	10	20		<1	15		100							40	600			<3		35
KT324V	* SEN	10	4	10	20		<1	15		100							80	800			<3		35
KT324YE	* SEN	10	4	10	20		<1	15		100							60	600			<3		35
KT325A	* SEN	15	4	10	30	30	<1	225		120	E	5	10				20	*8h			<3	*1h	36
KT325B	* SEN	15	4	10	30	30	<1	225		120	E	5	10				20	*5h			<3	*1h	36
KT325D	* SEN	15	4	10	30	30	<1	225		120	E	5	10				60	*8h			<3	*1h	36

Type No.	Kind	Maximum									Typical			Maximum			Minimum		Typ	Min	Maximum		Fig
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	fα *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *r'_bC_e	No.
KT325G	* SEN	15	4	10	30	30	<1	225		120	E	5	10				50	*6h			<3	*1h	36
KT325V	* SEN	15	4	10	30	30	<1	225		120	E	5	10				50	*8h			<3	*1h	36
KT326A	* SPN	20	4	15	50		<1	250		120	C	2	10				20	*4h			5	*5h	31
KT326B	* SPN	20	4	15	50		<1	250		120	C	2	10				45	*4h			5	*5h	31
GT328	GEP	15			10		10	45									10	*2k			<2	*10	13
GT328A	* GFP	15	<1	15	10		10	50		*55	E	5	3				20	400			<2	*5	31
GT328B	* GFP	15	<1	15	10		10	50		*55	E	5	3				40	300			<2	*10	31
GT328V	* GFP	15	<1	15	10		10	50		*55	E	5	3				10	300			<2	*10	31
GT329A	* GPN	10	<1		15		5	20									15	12h	4		2	*15	37
GT329B	* GPN	10	<1		15		5	20									15	15h	5		3	*20	37
GT329V	* GPN	10	<1		15		5	20									15	20h	5		<4	*30	37
GT330A	* GPN	10	<2		20		5	50	1								30	5h	5		2	*30	37
GT330B	* GPN	10	<2		20		5	50	1								30	10h	5		3	*50	37
KT337A	* SEN	6	4	6	30		1	150		150	E	<1	10				30	*5h			6		31
KT337B	* SEN	6	4	6	30		1	150		150	E	<1	10				50	*6h			6		31
KT337V	* SEN	6	4	6	30		1	150		150	E	<1	10				70	*6h			6		31
GT338A	* GEM	10		25	1A			100		20											2		12
GT338B	* GEM	15		25	1A			100		20											2		12
GT338V	* GEM	5		10	1A			100		20											2		12
KT339A	* SEN	40	4	24	25		1	250		120	E	10	7				25	*h4.5			2	*50	31
KT339B	* SEN	20	4	12	25		1	250		120	E	10	7				25	*h4.5			2	*25	31
KT339D	* SEN	20	4	12	25		1	250		120	E	10	7				40	*h2.5			2		31
KT339G	* SEN	20	4	12	25		1	250		120	E	10	7				15	*h4.5			2	*25	31
KT339V	* SEN	40	4	24	25		1	250		120	E	10	7				15	*h2.5			2	*50	31
KT342A	* SEN			30	50		1	250	2	150	E	5	1				1h	*3h			8		31
KT342B	* SEN			25	50		1	250	2	150	E	5	1				2h	*3h			8		31
KT342D	* SEN			60	50		1	250	2	150	E	5	1				50	*3h			8		31
KT342G	* SEN			15	50		<1	250	2	150	E	5	10				70	*3h			8		31
KT342V	* SEN			20	50		1	250	2	150	E	5	1				4h	*3h			8		31
KT342YE	* SEN			10	50		<1	250	2	150	E	5	10				h1.4	*3h			8		31
KT343A	* SEN		4	17	50			150	2	150	E	<1	10				30	3h			6		31
KT343B	* SEN		4	17	50			150	2	150	E	<1	10				50	3h			6		31
KT343G	* SEN		4	17	50			150	2	150	E	1	10				20	3h			6		31
KT343V	* SEN		4	9	50			150	2	150	E	<1	10				30	3h			6		31
GT346A	* GEP	20	<1	15	10	11	6	60	1	90				4			10	700.*	5				
GT346B	* GEP	20	<1	15	10	11	6	60	1	90				27			10	600.*	6			*3	
GT346V	* GEP	20	<1	15	10	11	6	60	1	90				27			10	780.*	5				
KT349A	* S P	20	4		40		1	200		150							20				6		12
KT349B	* S P	20	4		40		1	200		150							40				6		12
KT349V	* S P	20	4		40		1	200		150							1h				6		12
KT350A	* S P	20	4		600		1	200		150							15				15		12
KT351A	* S P	20	4		400		1	200		150							20				15		12
KT351B	* S P	20	4		400		1	200		150							50				15		12
KT352A	* S P	20	4		200		1	200		150							25				15		12
KT352B	* S P	20	4		200		1	200		150							70				15		12
P401	* GDP	10	1	10	20	10	5	100	2	85	E	5	5			5.0	16	30			10	*4k	13
GT402A	* GAP		<1	25	500		25	600	10	85	E	1	3				30	<0.1					32
GT402B	* GAP		<1	25	500		25	600	10	85	E	1	3				60	<0.1					32
GT402G	* GAP		<1	40	500		25	600	10	85	E	1	3				60	<0.1					32
GT402V	* GAP		<1	40	500		25	600	10	85	E	1	3				30	<0.1					32
P402	* GDP	10	1	10	20	10	5	100	2	85	E	5	5			5.0	16	60			10	*1k	13
GT403A	* GAP	45	20	30	12h		50	600	10	85	C	5	100				20	<0.1					28
GT403B	* GAP	45	20	30	12h		50	600	10	85	C	5	100				50	<0.1					28
GT403D	* GAP	60	30	45	12h		50	600	10	85	C	5	100				50	<0.1					28
GT403G	* GAP	60	20	45	12h		50	600	10	85	C	5	100				50	<0.1					28
GT403I	* GAP	80	20	60	12h		50	600	10	85	C	5	450				50	<0.1					28
GT403IU	* GAP	45	<1	30	12h		50	600	10	85	C	5	100				30	<0.1					28
GT403V	* GAP	60	20	45	12h		50	600	10	85	C	5	100				20	<0.1					28
GT403YE	* GAP	60	20	45	12h		50	600	10	85	C	5	450				30	<0.1					28
GT403ZH	* GAP	80	20	60	12h		50	600	10	85	C	5	100				20	<0.1					28

Type No.		Kind	Maximum									Typical			Maximum			Minimum		Typ	Min	Maximum		Fig
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *$r_b'C_c$	No.
P403	*	GDP	10	1	10	20	10	5	100	2	85	E	5	5			5.0	30	*h1.2			10	*5h	13
P403A	*	GDP	10	1	10	20	10	5	100	2	85	E	5	5			5.0	16	*h1.2			10	*5h	13
GT404A	*	GAN		<1	25	500		25	600	10	85	E	1	3				30	<0.1					32
GT404B	*	GAN		<1	25	500		25	600	10	85	E	1	3				60	<0.1					32
GT404V	*	GAN		<1	40	500		25	600	10	85	E	1	3				30	<0.1					32
GT404G	*	GAN		<1	40	500		25	600	10	85	E	1	3				60	<0.1					32
P404		GSP	5	5	<5	5		5	10	<1	85	E	3	<1			7.0	15	10			25		5
P404A		GSP	5	5	<5	5		2	10	<1	85	E	3	<1			7.0	15	10			25		5
P405		GSP	5	5	<5	5		5	10	<1	85	E	3	<1			7.0	20	30			15		5
P405A		GSP	5	5	<5	5		2	10	<1	85	E	3	<1			7.0	20	30			15		5
P406		GAP	6	6	6	5	5	6	30	2	85		6	1			2.0	20	10			20	150	17
P407		GAP	6	6	6	5	5	6	30	2	85		6	1			2.0	20	20			20	150	17
P408		G P	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	20	10	5		20	150	3
P409		G P	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	20	20	5		20	150	3
P410	*	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	30	*h2.0	5		4	*3h	6
P410A	*	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	1h	*h2.0	5		4	*3h	6
P411	*	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	30	*h4.0			4	*2h	6
P411A	*	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	1h	*h4.0			4	*2h	6
P414		GDP	10	1	10	10		5	100	2	75						5.0	25	60			10	*1k	16
P414A		GDP	10	1	10	10		5	100	2	75						5.0	60	60			10	*1k	16
P414B		GDP	10	1	10	10		5	100	2	75						5.0	1h	60			10	*1k	16
P415		GDP	10	1	10	10		5	100	2	75						5.0	25	h1.2			10	*5h	16
P415A		GDP	10	1	10	10		5	100	2	75						5.0	60	h1.2			10	*5h	16
P415B		GDP	10	1	10	10		5	100	2	75						5.0	1h	h1.2			10	*5h	16
P416	*	GDP		3	20	25	50	3	100	2	85	E	5	5			5.0	20	40			8	*5h	13
P416A	*	GDP		3	20	25		3	100	2	85	E	5	5			5.0	60	60			8	*5h	13
P416B	*	GDP		3	20	25		3	100	2	85	E	5	5			5.0	1h	80			8	*5h	13
P417	*	G P		<1	10	10	5	3	50	2	85	E	5	5				24	200			5	*4h	19
P417A	*	G P		<1	10	10	5	3	50	2	85	E	5	5				65	200			5	*4h	19
P418		P			10		5	3	50	2		C	5	5				24	400					
P418A		P			10		5	3	50	2		C	5	5				65	400					
P418B		P			10		10	3	50	2		C	6	10				24	700					
P418G		GDP	10		8			3	50		85							8	400			200		6
P418M		GDP	10		8			3	50		85							8	400			200		6
P418V		P			10		10	3	50	2		C	6	10				65	700					
P420		GDP	40		12	25		10	100								6.0	12	*30			20	*5k	10
P421		GDP	40		12	25		10	100								5.0	15	*30			15	*3k	10
P422	*	GDP	40		10	10		5	50		70	E	5	5			5.0	30	*60			10	*1k	16
P422A		GDP	40		12	25		5	100								5.0	15	*60			10	*1k	16
P423	*	GDP	40		10	10		5	50		70	E	5	5			5.0	30	h1.2	10		10	*5h	16
P423A		GDP	40		12	25		5	100								5.0	15	*h1.2				*5h	16
P501		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	10	10			10		19
P501A		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	15	10			10		19
P502		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P502A		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P502B		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P502V		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P503		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	30	60			10		19
P503A		SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	30	60			10		19
P504		SDN	30	2	30	10		2	150	2	120	E	10	5			2.0	10				7		14
P504A		SDN	30	2	30	10		2	150	2	120	E	10	5			2.0	25				7		14
P505		SDN	20	2	20	10		2	150	2	120	E	10	5			2.0	40				7	*1k	14
P505A		SDN	20	2	20	10		2	150	2	120	E	10	5			2.0	20				7	*1k	14
KT601		SDN	100	2	100	30			500		150							16				15	*6h	11
KT601A	*	SPN	100	2	100	30		500	500		150	E	20	<1				16	*40			15	*6h	11
P601	*	GDP	25	<1	25	15h		200	1W	500		C	10	500				20	20		10	200	*5h	20
P601A		GDP	30	<1	30	1A		100	1W	500		C	10	500				40	20		10	200	*5h	20
P601AI	*	GDP	30	<1	30	15h		100	500	65	85	E	3	<1				40	30			150	*7h	18
P601B		GDP	30	<1	25	1A		130	1W	500	85	C	10	500				80	20		10	200	*5h	20
P601BI	*	GDP	30	<1	30	15h		130	500	65	85	E	3	<1				80	30			250	*7h	18

Type No.		Kind	Maximum								Typical			Maximum			Minimum		Typ	Min	Maximum		Fig No.
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	fα *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *r'_bC_e	
P601I	*	GDP	25	<1	25	15h		200	500	65	85	E	3	<1				20	*30			150	*7h	18
KT602A	*	SDN	120	5	100	75	80	70	850	20	120	E	10	10				20	150			4	*3h	33
KT602B	*	SDN	120	5	100	75	80	70	850	20	120	E	10	10				50	150			4	*3h	33
KT602G	$	SDN	80	5	70	75	80	70	850	20	120	E	10	10				50	150			4	*3h	33
KT602V	*	SDN	80	5	70	75	80	70	850	20	120	E	10	10				15	150			4	*3h	33
P602		GDP	30	<1	30	1A		100	1W	500	85	C	10	500				40	20		10	200	*5h	20
P602A		GDP	25	<1	25	1A		130	1W	500	85	C	10	500				80	20		10	200	*5h	20
P602AI	*	GDP	25	<1	25	15h		130	500	65	85	E	3	<1				80	*30			150	*7h	18
P602I	*	GDP	30	<1	30	15h		100	500	65	85	E	3	<1				40	*30			150	*7h	18
KT603A	*	SEN	30	3	30	300		10				C	2	150				10				15	*4h	13
KT603B	*	SEN	30	3	30	300		10				C	2	150				60				15	*4h	13
KT603D	*	SEN	10	3	10	300		1				C	2	150				20				15	*4h	13
KT603G	*	SEN	15	3	15	300		5				C	2	150				60				15	*4h	13
KT603V	*	SEN	15	3	15	300		5				C	2	150				10				15	*4h	13
KT603YE	*	SEN	10	3	10	300		1				C	2	150				60				15	*4h	13
KT604A		SPN	300	5	250	200		50	800	25	150	E	40	20				10	*80			7		33
KT604B		SPN	300	5	250	200		50	800	25	150	E	40	20				30	*80			7		33
P604		GAP	45	15	45	200			400		70							10						15
P604A		GAP	45	15	45	200			400		70							20						15
P604B		GAP	45	15	45	200			400		70							40						15
KT605A	*	SEN	300	5	250	200		50	400	25	150	E	40	20				10	*80			7		18
KT605B	*	SEN	300	8	250	200		50	400	25	150	E	40	20				30	*80			7		18
P605	*	GDP	45	1	40	500		2m	500	65	85	E	3	500			20	20	30			130	*5h	18
P605A	*	GDP	45	1	40	500		2m	500	65	85	E	3	500			40	40	30			130	*5h	18
KT606A	*	SEN	60	4	60	400			2500	25	120								35.0			10	*10	42
KT606B	*	SEN	60	4	60	400			2500	25	120								35.0			10	*12	42
P606	*	GDP	35	<1	25	500		2m	500	65	85	E	3	500			20	20	30			130	*5h	18
P606A	*	GDP	35	<1	25	500		2m	500	65	85	E	3	500			40	40	30			130	*5h	18
P607	*	GDP	30	<2	25	300		300	1500	65	85	E	10	100				20	*60			50	*2h	18
P607A	*	GDP	30	<2	25	300		300	1500	65	85	E	10	100				60	*60			50	*2h	18
KT608A	*	SEN	60	4	60	400		10	500	*2h	120	E	5	200				20	20.0			15		13
KT608B	*	SEN	60	4	60	400		10	500	*2h	120	E	5	200				40	20.0			15		13
P608	*	GDP	30	<2	25	300		300	1500	65	85	E	10	100				40	90			50	*2h	18
P608A	*	GDP	30	<2	25	300		300	1500	65	85	E	10	100				80	90			50	*2h	18
P608B		GDP	50	<2	40	300		300	1500	65	85	E	10	100				40	90			50	*2h	18
P609	*	GDP	30	<2	25	300		300	1500	65	85	E	10	100				40	120			50	*2h	18
P609A	*	GDP	30	<2	25	300		300	1500	65	85	E	10	100				80	120			50	*2h	18
P609B		GDP	50	<2	40	300		300	1500	65	85	E	10	100				80	120			50	*2h	18
KT611A	*	SEN	200	3	180	100		200	800	65	150	E	40	20				10	6.0			5	*2h	33
KT611B	*	SEN	200	3	180	100		200	800	65	150	E	40	20				30	6.0			5	*2h	33
KT611G	*	SEN	180	3	150	100		200	800	65	150	E	40	20				30	6.0			5	*2h	33
KT611V	*	SEN	180	3	150	100		200	800	65	150	E	40	20				10	6.0			5	*2h	33
GT701A	*	GAP		15	55	12A		5000	50W	400	85	C	20	100				10	<0.1					23
P701	*	SDN	40	2	40	500	7h	100	1000	100	150	E	10	500				10	12.5					20
P701A	*	SDN	60	2	60	500	7h	100	1000	100	150	E	10	200				15	12.5					20
P701B	*	SDN	35	<3	35	500	7h	100	1000	100	150	E	10	200				30	20					20
P702	*	SDN	60	3	80	2A		5000	40W	400	120	C	10	1A				25	4.0					21
P702A	*	SDN	60	3	80	2A		2500	40W	400	120	C	10	1A				10	4.0					21
GT703A	*	GAP			30	35h		100	15W	300	85	C	1	100				30	<0.1					21
GT703B	*	GAP			30	35h		100	15W	300	85	C	1	100				50	<0.1					21
KT801A	*	SDN		<3	80	2A		10m	5W	50	150	E	5	1A				13	*10					33
KT801B	*	SDN		<3	60	2A		10m	5W	50	150	E	5	1A				20	*10					33
KT802A	*	SPN	150	3	130	5A		60m	50W	400	150	C	10	2A				15	*10					21
KT803A	*	SPN		4	60	10A		5m	60W		150							10	*20					21
GT804A	*	GDN			45	10A		10m	15W		65							20	10					18
GT804B		GDN			55	10A		10m	15W		65							20	10					18
GT804V		GDN			75	10A		10m	15W		65							20	10					18
KT805A	*	SDN		5	160	5A		60m	30W	300	150	C	10	2A				15	20					21
KT805B	*	SDN		5	135	5A		60m	30W	300	150	C	10	2A				15	20					21
GT806A	*	GAP	75	<2		20A		12m	30W	500	85							10	10					21

Group X – TRANSISTORS – Continued

Type No.		Kind	Maximum								Typical			Maximum			Minimum		Typ	Min	Maximum		Fig No.
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	Common	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	fα *f_T max MHz	NF dB	K_M dB	C_{ob} pF	r_b Ω *r'_bC_c	
GT806B	*	GAP	100	<2		20A		12m	30W	500	85							10	10					21
GT806V	*	GAP	120	<2		20A		12m	30W	500	85							10	10					21
KT807A	*	SEN		4	100	500		5m	10W	120	120							15	5					43
KT807B	*	SEN		4	100	500		5m	10W	120	120							30	5					43
KT808A	*	SEN		4	120	10A		3m	50W		100							10	7			500		21
KT902A		SDN	65	5	110	5A		10m	P30W		120							15	*35					21
KT903A		SPN	60	4	60	3A		10m	30W	300	115							15	*1h			180		21
KT903B	*	SPN	60	4	60	3A		10m	30W	300	115							40	*1h			180		21
KT904A	*	SPN	60	4	60	800		1500	5W	60	120								*3h			12	15n	42
KT904B	*	SPN	60	4	60	800		1500	5W	60	120								*3h			12	20n	42
GT905A	*	G P	75		75	3A			6W	20	85													41
GT905B	*	G P	60		60	3A			6W	20	85													41
KT907A	*	SPN		4	60	1A		3m	<14W	60	120								*3h			20	15n	42
KT907B	*	SPN		4	60	1A		3m	<14W	60	120								*3h			20	25n	42
KT908A	*	SPN		5	100	10A		25m	50W	500								8	*50					21
KT908B	*	SPN		5	60	10A		50m	50W		150							20						21
KT909	*								1W										G1.8					
KT911	*								1W										G1.8					
KT913A	*	SEN		<4	55	10h			3W	50	150							9	1k.*			6		39
KT913B	*	SEN		<4	55	16h			5W	100	150							9	1k.*			10		39
KT913V	*	SEN		<4	55	22h			10W	100	150							9	1k.*			12		39
KT916A	*	SEN		<4	55	40h			20W	220	160							9	1k.*			20		39
S1A		GPP	40			10	10		100			E	20	<1				1.0	0.5		19			7
S1B		GPP	40			6	10		50			E	20	<1				1.2	0.5		22			7
S1D		GPP	40			6	10		50			E	20	<1				1.2	5.0		22			7
S1G		GPP	40			6	10		50			E	20	<1				1.2	1.5		22			7
S1V		GPP	40			10	10		100			E	20	<1				1.2	1.5		19			7
S1YE		GPP	40			6	10		50			E	20	<1				1.2			15			7
S2A		GPP	30			10	10		100			E	10	<1				1.2	0.5					7
S2B		GPP	20			6	10		50			E	10	<1				1.5	1.5					7
S2G		GPP	20			6	10		50			E	10	<1				1.5						7
S2V		GPP	20			6	10		50			E	10	<1				1.5	5.0					7
S3A		GPP	40			10	10		100			E	20	<1				1.0	0.5		19			8
S3B		GPP	40			6	10		50			E	20	<1				1.2	0.5		22			8
S3D		GPP	40			6	10		50			E	20	<1				1.2	5.0		22			8
S3G		GPP	40			6	10		50			E	20	<1				1.2	1.5		22			8
S3V		GPP	40			10	10		100			E	20	<1				1.2	1.5		19			8
S3YE		GPP	40			6	10		50			E	20	<1				1.2	10.0		15			8
S4A		GPP	30			6	10		100			E	10	<1				1.2	0.5					8
S4B		GPP	20			6	10		50			E	10	<1				1.5	1.5					8
S4G		GPP	20			6	10		50			E	10	<1				1.5	10.0					8
S4V		GPP	20			6	10		50			E	10	<1				1.5	5.0					8

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min H_z	Frequency Max H_z	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1DA191	*	AGC		2	RTL	6.3	3.0		1			5	40k							51
1GF191	*			3		6.3	3.5	4.5	<3				1hk	1	3				400	51
1GF192	*	MVB	4	2		3.0		1.4	8					39	2				20μ	51
1GF193	*	MVB	2	2		3.0	5.5	1.4	4				1hk	1	3				5hμ	51
1IE201				30		12.6	4.0				15							10		51
1IL101A-B	*			6	RTL	3.0		2.4			8							5	450	51
1IL131A	*			8		4.0	0.2	0.78	18	1h	<4							4	400	51
1IL131B	*			8		4.0	0.2	0.78	25	2h	8							4	300	51
1IL131V	*			8		4.0	0.2	0.78	38	3h	<6							4	200	51
1IL132A	*	DUPLICATE OF 1IL131A																		
1IL132B	*	DUPLICATE OF 1IL131B																		
1IL132V	*	DUPLICATE OF 1IL131V																		
1IL141A	*	NOR		10	RTL	4.0	0.20	0.95	78	32	3							4	100	58
1IL141B	*	NOR		10	RTL	4.0	0.25	0.78		46	5							4	800	58
1IL371	*	HAD	2	9	ECL	5.0	1.45	0.95			220							5	8	63
1IL373	*	HAD	2	9	ECL	5.0	1.45	0.95			125							5	8	63
K1IR071	*	MNR		10		15	11.0	3.5											3	51
1IR141A	*	SHR		16		4.0	0.20	0.78		1h	<5							4	12h	58
1IR141B	*	SHR		16		4.0	0.20	0.78		2h	<7							4	15h	58
1IR201		MOS		31		12.6	4.0				15							10		51
1IR202		MOS		19		12.6	4.0				12							10		51
K1IR441	*	SHR		138	MOS	12.6	1.5	15.0	<2									10		53
K1IR442	*	SHR		543	MOS	12.6	1.5	15.0	<1									10		53
1IR451		MOS		12		12.6					40			10	9					51
1JAM351	*	MEM		160	RTL	12.6	2.0	8.0			<2									51
1JAM352	*	MEM		128	RTL	12.6	2.0	8.0			<2									51
1JAM881	*	MEM																		51
1KP191	*	COM		1	RTL	3.0	3.0	0.35	3	70										51
1KT011A	*			2	RTL	3.5		6.5	10					1	2					54
1KT011B	*			2	RTL	3.5		6.5	10					1	2					54
1KT011G	*			2	RTL	3.5		3.5	10					1	2					54
1KT011V	*			2	RTL	3.5		3.5	10					1	2					54
1KT241A,B	*			2										1	2					54
1KT461	*	DCD	2	5		10.0			80		200								300	53
1KT462ABV	*	DCD	2	4		5.0													60	53
1KT463ABV	*	DCD	2	4		5.0													60	53
1KT464ABV	*	DCD	2	4		5.0													60	53
1KT465ABV	*	DCD	2	4		5.0													60	53
1KT466ABV	*	DCD	2	4		5.0													60	53
1KT467ABV	*	DCD	2	4		5.0													60	53
1KT491				4	RTL	5.0				2h	100								50	51
1KT491A	*	SWI		4	RTL	3.3	1.6	0.65			100								100	51
1KT491B	*	SWI		4	RTL	5.5	1.6	0.65			100								100	51
1KT491V	*	SWI		4	RTL	15.1	1.6	0.65			100								100	51
1LB041		NND	3	1	DTL	6.3					18							5	50	51
1LB042		NND	4	1	DTL	6.3	0.5	2.6			18						3	5	50	51
1LB043		NND	5	1	DTL	6.3	0.5	2.6			18						3	5	50	51
1LB044		NND	6	1	DTL	6.3	0.5	2.6			18						3	5	50	51
1LB061,A	*	NDR		10	TTL	5.0	0.3	2.3			18						3	10	40	51
1LB0610		NDR		6	TTL	5.0	0.25	2.3			7						4	10	110	51
1LB062,A	*	NDR		10	TTL	5.0	0.25	2.3			7						3	10	100	51
1LB063		NDR		10	TTL	5.0	0.3	2.3			18						2	10	40	51
1LB064		NDR		10	TTL	5.0	0.25	2.3			7						2	10	100	51

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1LB065.A	*	NDR		6	TTL	5.0	0.3	2.3			18						8	10	45	51
1LB066.A	*	NDR		6	TTL	5.0	0.25	2.3			7						8	10	110	51
1LB067		NDR		6	TTL	5.0	0.3	2.3			18						6	10	45	51
1LB068		NDR		6	TTL	5.0	0.25	2.3			7						6	10	110	51
1LB069		NDR		6	TTL	5.0	0.3	2.3			18						4	10	45	51
1LB091A	*	NND	5	2	DTL	5.0	0.35	0.25			12						6	5	50	51
1LB091B	*	NND	5	2	DTL	5.0	0.35	0.25			12						6	4	50	51
1LB091G	*	NND	5	2	DTL	5.0	0.35	0.25			12						6	3	50	51
1LB091V	*	NND	5	2	DTL	5.0	0.35	0.25			12						6	2	50	51
1LB092A	*	NDR	4	4	DTL	5.0	0.4	2.5			19						6	16	50	51
1LB092B	*	NND	4	4	DTL	5.0	0.4	2.5			19						6	12	50	51
1LB101	*	NDR		6	RTL	3.0		2.4			13							5	450	51
1LB102A-B	*	NDR		3	RTL	3.0		2.4			13							5	450	51
1LB103A-B	*	NDR		4	RTL	3.0		2.4			13							5	450	51
1LB104A-B	*	NDR		5	RTL	3.0		2.4			13							5	450	51
1LB105A-G	*	NDR		7	RTL	3.0		2.4			13							25	450	51
1LB106A-G	*	NDR	1	4	RTL	3.0		2.4			13							25	450	51
1LB107A-G	*	NDR	1	5	RTL	3.0		2.4			13							25	450	51
1LB108A-G	*	NDR	1	6	RTL	3.0		2.4			13							25	450	51
1LB109A-B	*	NDR		7	RTL	3.0		2.4			8							5	450	51
1LB1011A-B	*	NDR		4	RTL	3.0		2.4			8							5	450	51
1LB1012A-B	*	NDR		5	RTL	3.0		2.4			8							5	450	51
1LB1013A-B	*	NDR		2	RTL	3.0		2.4			13							5	450	51
1LB1014A-G	*	NDR	1	3	RTL	3.0		2.4			8							25	450	51
1LB111		NOR		2	RTL	4.0	0.2	0.95		1h	<1							4	400	62
1LB112		NOR		2	RTL	4.0	0.2	0.95		2h	<1							4	400	62
1LB113		NOR		2	RTL	4.0	0.2	0.95		3h	<1							4	100	62
1LB131A	*	NOR		8	RTL	4.0	0.2	0.78		18	<4							4	400	51
1LB131B	*	NOR		8	RTL	4.0	0.2	0.78		25	8							4	300	51
1LB131V	*	NOR		8	RTL	4.0	0.2	0.78		38	<9							4	200	51
1LB132A	*	NOR		8	RTL	4.0	0.2	0.78		18	1							4	400	51
1LB132B	*	NOR		8	RTL	4.0	0.2	0.78		25	4							4	300	51
1LB132V	*	NOR		8	RTL	4.0	0.2	0.78		3h	<3							4	200	51
1LB133A	*	NOR		8	RTL	4.0	0.5	2.2		18	7							50	400	51
1LB133B	*	NOR		8	RTL	4.0	0.5	2.2		25	11							50	300	51
1LB133V	*	NOR		8	RTL	4.0	0.5	2.2		38	17							50	250	51
1LB134A	*	NOR		6	RTL	4.0	0.5	2.2		1h	7							50	400	51
1LB134B	*	NOR		6	RTL	4.0	0.5	2.2		2h	11							50	300	51
1LB134V	*	NOR		6	RTL	4.0	0.5	2.2		3h	17							50	250	51
1LB135A	*	NOR		8	RTL	4.0	0.2	0.95		18	<1							4	400	51
1LB135B	*	NOR		8	RTL	4.0	0.2	0.95		25	2							4	300	51
1LB135V	*	NOR		8	RTL	4.0	0.2	0.95		38	1							4	200	51
1LB136A	*	DUPLICATE OF 1LB131A																		
1LB136B	*	DUPLICATE OF 1LB131B																		
1LB136V	*	DUPLICATE OF 1LB131V																		
1LB137A	*	DUPLICATE OF 1LB132A																		
1LB137B	*	DUPLICATE OF 1LB132B																		
1LB137V	*	DUPLICATE OF 1LB132V																		
1LB138A	*	DUPLICATE OF 1LB133A																		
1LB138B	*	DUPLICATE OF 1LB133B																		
1LB138V	*	DUPLICATE OF 1LB133V																		
1LB139A	*	DUPLICATE OF 1LB134A																		
1LB139B	*	DUPLICATE OF 1LB134B																		
1LB139V	*	DUPLICATE OF 1LB134V																		
1LB1310A	*	DUPLICATE OF 1LB135A																		

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Sup-ply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min H_z	Frequency Max H_z	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1LB1310B	*	DUPLICATE OF 1LB135B																		
1LB1310V	*	DUPLICATE OF 1LB135V																		
1LB141A	*	NOR		8	RTL		0.2	0.78			1						4	500		58
1LB141B	*	NOR		8	RTL		0.2	0.78			2						4	400		58
1LB142A	*	OR		8	RTL	4.0	0.20	0.95			<3						10	1k		58
1LB142B	*	OR		8	RTL	4.0	0.20	0.95			4						10	800		58
1LB143A	*	NOR		5	RTL	4.0	0.20	0.95		1k	48						50	1k		58
1LB143B	*	NOR		5	RTL	4.0	0.20	0.95		2k	48						50	800		58
1LB144A		NOR		8	RTL	4.0	0.15	0.95			2						4	500		58
1LB144B		NOR		8	RTL	4.0	0.15	0.95			2						4	500		58
1LB145A		NOR		8	RTL	4.0	0.15	0.95			2						10	500		58
1LB145B		NOR		8	RTL	4.0	0.15	0.95			2						10	500		58
1LB146A		NOR		10	RTL	4.0	0.15	0.95			2						50	500		58
1LB146B		NOR		10	RTL	4.0	0.15	0.95			2						50	500		58
1LB151	*	OR		8	RTL															51
1LB152	*	OR		8	RTL															51
1LB153	*	OR		8	RTL		0.35	2.2									10			51
1LB154	*	NOR		6	RTL															51
1LB211A		NDR	5	2	DTL	5.0	0.35	2.5			12						6	12	35	53
1LB211B		NDR	5	2	DTL	5.0	0.35	2.5			12						6	10	35	53
1LB211G		NDR	5	2	DTL	5.0	0.35	2.5			12						6	5	35	53
1LB211V		NDR	5	2	DTL	5.0	0.35	2.5			12						6	8	35	53
1LB212A		NDR	4	4	DTL	5.0	0.4	2.5			19						6	20	50	53
1LB212B		NDR	4	4	DTL	5.0	0.4	2.5			19						6	16	50	53
1LB251		MND	6	16	DTL	27.0		15			17			10	7		5	10	4k	51
1LB301	*	NDR	2	6	RTL	5.0	0.4	2.4			88						4	10	11	51
1LB302	*	NDR		4	RTL	5.0	0.4	2.4			44						8	10	12	51
1LB303	*	NDR	4	16	RTL	5.0	0.4	2.4			176						2	10	11	51
1LB304	*	NDR	3	12	DTL	5.0	0.4	2.4			132						3	10	11	51
1LB306	*	NDR		10	RTL	5.0					120						4	20		51
1LB307	*	NDR	2	6	RTL	5.0	0.4	2.4			88						4	5	11	51
1LB308	*	NDR		4	RTL	5.0	0.4	2.4			44						8	5	12	51
1LB309	*	NDR	4	16	RTL	5.0	0.4	2.4			176						2	5	11	51
1LB3010	*	NDR	3	12	DTL	5.0	0.4	2.4			132						3	5	<16	51
1LB311	*	NDR		8	RTL	5.0	2.3	2.4										10		61
1LB312	*	NDR		4	RTL	5.0	2.3	2.4										10		61
1LB313	*	NDR		16	RTL	5.0	2.3	2.4										10		61
1LB314	*	NDR		12	RTL	5.0	2.3	2.4										10		61
1LB316	*	NDR		10	RTL	5.0	2.3	2.4										10		61
1LB317	*	NDR		8	RTL	5.0	2.3	2.4										5		61
1LB318	*	NDR		4	RTL	5.0	2.3	2.4										5		61
1LB319	*	NDR		16	RTL	5.0	2.3	2.4										5		61
1LB3110	*	NDR		12	RTL	5.0	2.3	2.4										5		61
1LB331	*	NND	2	8	DTL	5.0	0.35	2.4			25						4	10	30	51
1LB331A		NND	2	8	TTL	5.0	0.4	2.4			20						4	10	22	51
1LB331B		NND	2	8	TTL	5.0	0.4	2.4			20						4	10	35	51
1LB332	*	NND	1	4	DTL	5.0	0.35	2.4			25						8	10	37	51
1LB332A		NND	1	4	TTL	5.0	0.4	2.4			20						8	10	25	51
1LB332B		NND	1	4	TTL	5.0	0.4	2.4			20						8	10	35	51
1LB333	*	NND	4	16	TTL	5.0	0.35	2.4			25						2	10	30	51
1LB334	*	NND	3	12	TTL	5.0	0.35	2.4			25						3	10	30	51
1LB336	*	NND		10	TTL	5.0	0.35	2.4			41						4	10	42	51
1LB337	*	NND		6	TTL	5.0	0.35				41						4			51
1LB338	*	NND		12	TTL	5.0	0.35				25						2			51
1LB339	*	NND	2	8	TTL	5.0	0.35	2.4			25						4	5	30	51

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min H_z	Frequency Max H_z	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1LB3310	*	NND	1	4	TTL	5.0	0.35	2.4			25						8	5	37	51
1LB3311	*	NND	4	16	TTL	5.0	0.35	2.4			25						2	5	30	51
1LB3312	*	NND	3	12	TTL	5.0	0.35	2.4			25						3	5	30	51
1LB3313	*	NND		10	TTL	5.0	0.35	2.4			41						4	5	58	51
1LB3315	*	NND		6	TTL	5.0	0.35				41						4			51
1LB3316	*	NND		12	TTL	5.0	0.35				25						2			51
1LB341		NOR			TTL	5.0					2							10	100	51
1LB341A	*	NND		20	TTL	5.0	0.3	2.3			8							10	100	51
1LB341B	*	NND		20	TTL	5.0	0.3	2.3			8							10	60	51
1LB342		NOR			TTL	5.0					2							10	100	51
1LB342A	*	NND		15	TTL	5.0	0.3	2.3			6							10	100	51
1LB342B	*	NND		15	TTL	5.0	0.3	2.3			6							10	60	51
1LB361	*	NND	2	8	TTL	5.0	0.4	2.4			8							10	60	51
1LB362	*	NND	1	4	TTL	5.0	0.4	2.4			4							10	85	51
1LB363	*	NND	4	16	TTL	5.0	0.4	2.4			16							10	60	51
1LB364	*	NND	3	12	TTL	5.0	0.4	2.4			12							10	60	51
1LB366	*	NND	2	8	TTL	5.0	0.4	2.4			8							5	60	51
1LB367	*	NND	1	4	TTL	5.0	0.4	2.4			4							5	85	51
1LB368	*	NND	4	16	TTL	5.0	0.4	2.4			16							5	60	51
1LB369	*	NND	3	12	TTL	5.0	0.4	2.4			12							5	60	51
1LB371	*	NOR	2	7	ECL	5.0	1.45	0.95			70							15	6	63
1LB372	*	NOR	2	11	ECL	5.0	1.45	0.95			115							15	6	63
1LB375	*	NOR	2	11	ECL	5.0	1.45	0.95			250							100	7	63
1LB376	*	NOR	2	9	ECL	5.0	1.45	0.95			70							15	6	63
1LB378	*	NOR	2	7	ECL	5.0	1.45	0.95			70							15	6	63
1LB379	*	NOR	2	11	ECL	5.0	1.45	0.95			210							15	6	63
1LB3710	*	NOR	2	11	ECL	5.0	1.45	0.95			115							15	6	63
1LB3716	*	NOR	2	11	ECL	5.0	1.45	0.95			95							100	7	63
1LB3717	*	NOR	2	9	ECL	5.0	1.45	0.95			165							15	6	63
1LB3718	*	NOR	2	9	ECL	5.0	1.45	0.95			70							15	6	63
1LB3719	*	NOR	2	7	ECL	5.0	1.45	0.95			160							15	6	63
1LB381		ONR		10	TTL	5.0					110							15	3	63
1LB391		ONR		6	TTL	5.0					40						9	15	10	51
1LB392		ONR		6	RTL	5.0					40						9	15	10	51
1LB471		MNR	6	16	DTL	12.6	2.0	13.9			25							10		51
1LB472		MNR	8	15	DTL	12.6	2.0	14			45			10	6			10	1μ	51
1LB551	*	NDR	2	8	TTL	5.0	0.45	2.4			25						4	10	37	63
1LB552	*	NDR	1	4	TTL	5.0	0.45	2.4			25						8	10	42	63
1LB553	*	NDR	4	16	TTL	5.0	0.45	2.4			25						2	10	37	63
1LB554	*	NDR	3	12	TTL	5.0	0.45	2.4			25						3	10	37	63
1LB556	*	NDR		10	TTL	5.0	0.45	2.4			40						4	30	50	63
1LB557	*	NDR		6	TTL	5.0	0.4				40									63
1LB558	*	NDR		12	TTL	5.0	0.4				25									63
1LB561A	*	NND		3		5.0	0.3	2.5			17						10	6	60	51
1LB561B	*	NND		3		5.0	0.3	2.5			17						10	4	60	51
1LB561V	*	NND		3		5.0	0.3	2.5			17						10	2	60	51
1LB562	*	NND	7	5		5.0	0.3	2.5			25						10	16	30	51
1LB563A	*	NND	12	4		5.0	0.3	2.5			34						10	6	60	51
1LB563B	*	NND	12	4		5.0	0.3	2.5			34						10	4	60	51
1LB563V	*	NND	12	4		5.0	0.3	2.5			34						10	2	60	51
1LB564A	*	ORD	12	4		5.0	0.3	2.5			34						4	6	60	51
1LB564B	*	ORD	12	4		5.0	0.3	2.5			34						4	4	60	51
1LB564V	*	ORD	12	4		5.0	0.3	2.5			34						4	2	60	51
1LB581	*	NND	1	4	TTL	5.0	0.3	2.4			15							10		63
1LB582	*	NND	1	4	TTL	5.0	0.3	2.4			15							5		63

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1LB583	*	NND	1	4	TTL	5.0	0.3	2.4			15							10		63
1LB584	*	NND	1	4	TTL	5.0	0.3	2.4			15							10		63
1LB586	*	NND	1	4	TTL	5.0	0.3	2.4			15							10		63
1LB587	*	NND	1	4	TTL	5.0	0.3	2.4			15							5		63
1LB588	*	NND	1	4	TTL	5.0	0.3	2.4			15							5		63
1LB589	*	NND	1	4	TTL	5.0	0.3	2.4			15							5		63
K1LB721	*	ONR		22	MOS	27.0	1.0	20.0			80			15	6			15	600	63
K1LB722	*	ONR		17	MOS	27.0	1.0	20.0			45			15	6			15	600	63
K1LB781	*	ONR		22	MOS	27.0	1.0	20.0			80			15	6			15	60	51
K1LB782	*	ONR		17	MOS	27.0	1.0	20.0			45			15	6			15	600	51
1LI041		AND	3			6.3				6										51
1LI042		AND	4			6.3				6										51
1LI043		AND	5			6.3				6										51
1LI044		AND	8			6.3				6										51
1LI045		AND	10			6.3				6										51
1LI091	*	AND	8	5	DTL	5.0		2.5									6	12	52	51
K1LI721	*	AND		28	MOS	27.0	1.0	20.0			160			15	6			15	600	63
K1LI781	*	AND		28	MOS	27.0	1.0	20.0			160			15	6			15	600	51
1LL201		MOR		14	TTL	12.6	4.0	13			8							10	800	51
1LN101A-B	*	INV		1	RTL	3.0		2.4			13							5	450	51
1LN102A-G	*	INV	1	2	RTL	3.0		2.4			13							25	450	51
1LN103A-B	*	INV		2	RTL	3.0		2.4			8							5	450	51
1LP061,A	*	OR		3	TTL	5.0											8	10	6	51
1LP062,A	*	OR		3	TTL	5.0											8	10	10	51
1LP063		OR		3	TTL	5.0											6		6	51
1LP064		OR		3	TTL	5.0											6		10	51
1LP065,A	*	OR		4	TTL	5.0											4		6	51
1LP066,A	*	OR		4	TTL	5.0											4		10	51
1LP067		OR		4	TTL	5.0											3		6	51
1LP068		OR		4	TTL	5.0											3		10	51
1LP091	*		6			25				<2									5	51
1LP131A	*	HAD		8	RTL	4.0	0.2	0.78	1h		<4							4	400	51
1LP131B	*	HAD		8	RTL	4.0	0.2	0.78	2h		8							4	300	51
1LP131V	*	HAD		8	RTL	4.0	0.2	0.78	3h		<6							4	200	51
1LP141		OR		8															500	58
1LP141A	*	NDR		8	RTL		0.2	0.78	1h		<3							4	500	58
1LP141B	*	NDR		8	RTL		0.2	0.78	2h		4							4	500	58
1LP142		OR		8		4.0	0.15	0.95			2							4	500	58
1LP142A	*	NOR		8	RTL		0.2													58
1LP142B	*	NOR		8	RTL		0.2													58
1LP143A	*	NOR		8	RTL	4.0	0.2	0.78			1							4	1k	58
1LP143B	*	NOR		8	RTL	4.0	0.2	0.78			<2							4	800	58
1LP144A	*	ONR		8	RTL	4.0	0.2	0.78		17	<3							4	1k	58
1LP144B	*	ONR		8	RTL	4.0	0.2	0.78		34	4							4	800	58
1LP145A	*	OR		8	RTL	4.0	0.2													58
1LP145B	*	OR		8	RTL	4.0	0.2													58
1LP151	*	NOR		8	RTL		0.2			5h								4	100	51
1LP201		MOS		8							12									51
1LP211			6			25				<2									5	53
1LP251		MOS	8	8		27					17								6μ	51
1LP281	*	OR	8		RDL	4.5														51
1LP301	*	OR		4	RTL	5.0														51
1LP311	*	OR		4	RTL	5.0	2.3	2.4										10		61
1LP331	*	OR		4	RTL	5.0											4		5	51
1LP333	*	OR		2	RTL	5.0													5	51

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1LP371	*	OR		6	ECL		0.80													63
1LP372	*	OR		6	ECL		0.82													63
1LP391				6													6			51
1LP421		MOS		10							2							15		51
1LP471		MOS	8	18	TTL	12.6	2.0	14			25			10	6			10	1μ	51
1LP551	*	OR		4		5.0													5	63
1LP553	*	OR		2		5.0													5	63
1LP561	*	AND	8															5		51
1LR061,A	*	ANR		7	TTL	5.0	0.3	2.3			24						4	10	45	51
1LR062,A	*	ANR		7	TTL	5.0	0.25	2.3			10						4	10	110	51
1LR063		ADR		7	TTL	5.0	0.3	2.3			24						4	10	45	51
1LR064		ADR		7	TTL	5.0	0.25	2.3			10						4	10	110	51
K1LR071	*	MNR		50		15	11.0	2.0											3	51
1LR271		ADR	7	1	DTL	3.0					30		12M				4	6	30	51
1LR281A	*	OR	20	5	DTL	3.0	0.5	2.4			6	5M					4	6		51
1LR281B	*	OR	20	5	DTL	3.0	0.5	2.4			6	10M					4	6		51
1LR301	*	OR	2	9	RTL	5.0	0.4	2.4			100						2	10	<14	51
1LR303	*	OR	1	10	RTL	5.0	0.4	2.4			70						3	10	<14	51
1LR304	*	OR	1	5	RTL	5.0	0.4	2.4			50						4	10	<14	51
1LR305	*	OR	2	9	RTL	5.0	0.4	2.4			100						2	5	<14	51
1LR306	*	OR	1	10	RTL	5.0	0.4	2.4			70						3	5	<14	51
1LR307	*	OR	1	5	RTL	5.0	0.4	2.4			50						4	5	<14	51
1LR311	*	ANR		12	RTL	5.0	2.3	2.4										10		61
1LR313	*	ANR		10	RTL	5.0	2.3	2.4										10		61
1LR314	*	ANR		8	RTL	5.0	2.3	2.4										5		61
1LR315	*	ANR		12	RTL	5.0	2.3	2.4										5		61
1LR316	*	ANR		10	RTL	5.0	2.3	2.4										5		61
1LR317	*	ANR		8	RTL	5.0	2.3	2.4										5		61
1LR331	*	ADR	2	12	RTL	5.0	0.35	2.4			35						4	10	35	51
1LR331A		ADR	2	12	DTL	5.0	0.4	2.4			20							10	28	51
1LR331B		ADR	2	12	DTL	5.0	0.4	2.4			20						4	10	40	51
1LR333	*	ADR	1	10	RTL	5.0	0.35	2.4			55							10	37	51
1LR334	*	ANR	8	8	DTL	5.0	0.35	2.4			55							10	33	51
1LR335	*	ADR	2	12	RTL	5.0	0.35	2.4			35						4	5	35	51
1LR336	*	ADR	1	10	RTL	5.0	0.35	2.4			55							5		51
1LR338	*	ANR	8	8	DTL	5.0	0.35	2.4			55							5	33	51
1LR341		ADR			DTL	5.0					2							10	100	51
1LR341A	*	ADR		14	RTL	5.0	0.3	2.3			5							10	100	51
1LR341B	*	ADR		14	RTL	5.0	0.3	2.3			5							10	60	51
1LR342		ADR			DTL	5.0					2							10	100	51
1LR342A	*	ADR		11	RTL	5.0	0.3	2.3			4							10	100	51
1LR342B	*	ADR		11	RTL	5.0	0.3	2.3			4							10	60	51
1LR361	*	ADR	2	12	DTL	5.0	0.4	2.4			11							10	80	51
1LR363	*	ANR	1	10	DTL	5.0	0.4	2.4			11							10	120	51
1LR364	*	ANR	1	6	DTL	5.0	0.4	2.4			<6							10	80	51
1LR365	*	AOR	2	12	DTL	5.0	0.4	2.4			11							5	80	51
1LR366	*	ANR	1	10	DTL	5.0	0.4	2.4			11							5	120	51
1LR367	*	ANR	1	6	DTL	5.0	0.4	2.4			<6							5	80	51
1LR421		MOS		15	TTL	12.6	3.0	10			36						15	30	500	51
1LR551	*	ADR	1	6		5.0	0.45	2.4			34						2	10	42	63
1LR553	*	ADR	1	10		5.0	0.45	2.4			50						2	10	42	63
1LR581	*	ANR	1	5		5.0	0.3	2.4			15							10		63
1LR583	*	ANR	1	10		5.0	0.3	2.4			15							10		63
1LR584	*	ANR	1	6		5.0	0.3	2.4			15							10		63
1LR585	*	ANR	1	5		5.0	0.3	2.4			15							5		63

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1LR586	*	ANR	1	10		5.0	0.3	2.4			15							5		63
1LR587	*	ANR	1	6		5.0	0.3	2.4			15							5		63
K1LR721	*	ANR		22	MOS	27.0	1.0	20.0			80			15	6			15	600	63
K1LR781	*	ANR		22	MOS	27.0	1.0	20.0			80			15	6			15	600	51
1LS131A	*	NOR		8		4.0		0.78		1h	<4							4	400	51
1LS131B	*	NOR		8		4.0		0.78		2h	8							4	300	51
1LS131V	*	NOR		8		4.0		0.78		3h	<6							4	200	51
1LS132A	*	DUPLICATE OF 1LS131A																		
1LS132B	*	DUPLICATE OF 1LS131B																		
1LS132V	*	DUPLICATE OF 1LS131V																		
1LS151	*	OR		8	RTL															51
1LS271		ADR	7	2	DTL	3.0					30		12M				4	6	30	51
1LS281A	*	OR	20	4	DTL	3.0	0.5	2.4			60	5M					6	6		51
1LS281B	*	OR	20	4	DTL	3.0	0.5	2.4			60	10M					6	6		51
1MA191A,B	*	AGC		4	RTL	6.3	0.5						2hk							51
1ND041			3			4.5	0.85													51
1ND042			4			4.5	0.85													51
1ND043			6			4.5	0.85													51
1ND044			8			4.5	0.85													51
K1NT291A	*	DMP		2					10		15					60				62A
K1NT291B	*	DMP		2					10		15					90				62A
K1NT291D	*	DMP		2					10		15					60				62A
K1NT291G	*	DMP		2					10		15					3h				62A
K1NT291I	*	DMP		2					10		15					3h				62A
K1NT291V	*	DMP		2					10		15					2h				62A
K1NT291YE	*	DMP		2					10		15					90				62A
K1NT291ZH	*	DMP		2					10		15					2h				62A
K1NT591A	*	DMP		2				10.0			50					60				54
K1NT591B	*	AMP		2				10.0			50					1h				54
K1NT591D	*	AMP		2				10.0			50					60				54
K1NT591G	*	AMP		2				10.0			50					3h				54
K1NT591I	*	AMP		2				10.0			50					3h				54
K1NT591V	*	AMP		2				10.0			50					2h				54
K1NT591ZH	*	AMP		2				10.0			50					2h				54
K1NT591YE	*	AMP		2				10.0			50					1h				54
K1NT661A	*	SWI		4		5.0														51
1PP191	*			4	TTL	10.0			10	10		20	2M	15	2					51
1SV191	*	AMP	2	2	RTL	6.3	6.3	0.25	<3				5hk							51
1TK101A-B	*	FLP	4	3	DTL	3.0		2.4			8							4		51
1TK102A-D	*	FLP	6	5		3.0		2.4			8							20		51
1TK191A,B	*	SWI	3	2	DTL	5.0	4.6	3.5	8									4		51
1TK251		MOS	6	18	TTL	27.0	2.0	15			17			1	7		5	10	4μ	51
1TK471		MOS	8	22	TTL	12.6	2.0	14			15				7					51
1TR061,A	*	FLP		8	TTL	5.0	0.3	2.3			36						3	10	40	51
1TR062,A	*	FLP		8	TTL	5.0	0.3	2.3			14						3	10	100	51
1TR063		ADR		10	TTL	5.0	0.3	2.3			36						2	10	40	51
1TR064		ADR		10	TTL	5.0	0.3	2.3			14						2	10	100	51
1TR131A	*	NOR		8	RTL	4.0	0.2	0.78	18	1h	<4							4	400	51
1TR131B	*	NOR		8	RTL	4.0	0.2	0.78	25	2h	8							4	300	51
1TR131V	*	NOR		8	RTL	4.0	0.2	0.78	38	3h	<6							4	200	51
1TR132A	*	DUPLICATE OF 1TR131A																		
1TR132B	*	DUPLICATE OF 1TR131B																		
1TR132V	*	DUPLICATE OF 1TR131V																		
1TR141A	*	FLP		8	RTL	4.0	0.20	0.78		1h	2							4	1k	58
1TR141B	*	FLP		8	RTL	4.0	0.20	0.78		2h	<4							4	800	58

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1TR151	*	OR		8	RTL		0.2			5h								4	100	51
1TR371	*	FLP	2	17	ECL	5.0	1.45	0.95			280							100	7	63
1TR373	*	FLP	2	17	ECL	5.0	1.45	0.95			185							100	7	63
1TR421		MOS		22	TTL	12.6	3.0	10			40								500	51
K1TR721	*	FLP		28	MOS	27.0	1.0	29.0			80			15	6			15	600	63
K1TR781	*	FLP		28	MOS	27.0	1.0	20.0			80			15	6			15	600	51
K1TSH181A	*	FLP		4	RTL	3.0		3.0	20μ											63
K1TSH181B	*	FLP		4	RTL	4.0		4.0	40μ											63
K1TSH181D	*	FLP		4	RTL	6.3		6.3	20μ											63
K1TSH181G	*	FLP		4	RTL	6.3		6.3	40μ											63
K1TSH181V	*	FLP		4	RTL	4.0		4.0	20μ											63
1TSH191	*	SCH		4	RTL	3.0	1.5	2.0	<4				1hk	8	2					51
K1UB181A	*	AMP		4	RTL	6.3										900				63
K1UB181B	*	AMP		4	RTL	6.3										13h				63
K1UB181G	*	AMP		4	RTL	12.6										20h				63
K1UB181V	*	AMP		4	RTL	12.6										15h				63
1UB191	*	AMP		2		6.3	1.0	3.0	6					1	3	5			500	51
1UE201		MMP		26		12.6	4.0	13			70							10	800	51
1UI461		AMP		10		10.0					100									57
1UI461A,B	*	AMP		9		5.0					100								100	53
1UI462		AMP	2	4		20.0			3h										200	57
1UI462A,B	*	AMP		12		5.0					150								100	53
1UI463A,B	*	AMP		12		5.0					150								100	53
1UI464A,B	*	AMP		14		5.0					150								100	53
K1US181A	*	AMP		2	RTL	6.3										250				63
K1US181B	*	AMP		2	RTL	6.3										400				63
K1US181D	*	AMP		2	RTL	12.6										800				63
K1US181G	*	AMP		2	RTL	12.6										500				63
K1US181V	*	AMP		2	RTL	12.6										350				63
K1US182A	*	AMP		3	RTL	4.0										15				63
K1US182B	*	AMP		3	RTL	6.3										25				63
K1US182V	*	AMP		3	RTL	6.3										40				63
1US191	*	AMP		1		6.3	0.3	0.75	1			5	1hk	5	3	3				51
1US192	*	AMP		2		6.3	0.5	0.8	<3			5	1hk			10				51
1US221A	*	AMP		2		6.3		3.8				0	7hk			8h				53
1US221B	*	AMP		2		6.3		3.8				0	7hk			1k				53
1US221D	*	AMP		2	RTL	12.6		9.6						15	2	2k				53
1US221G	*	AMP		2	RTL	12.6		9.6						15	2	1k				53
1US221V	*	AMP		2		12.6		9.6				0	7hk			1k				53
1US222A	*	AMP		3		4.0	0.1					0	8M	1	3	40				53
1US222B	*	AMP		3		6.3	0.1					0	8M	1	3	60				53
1US222V	*	AMP		3		6.3	0.05					0	8M	1	3	90				53
1US231A	*	LFA		8	RTL	6.3	0.5		15		100	20	1hk	10	3	5h				51
1US231B	*	LFA		8	RTL	6.3	0.5		15		100	20	1hk	10	3	3h				51
1US231V	*	LFA		8	RTL	6.3	0.5		15		100	20	1hk	10	3	1h				51
1US481		AMP		5		3.0					50		50M							53
K1US671	*	MMP		3		12.0			5		60		1hk			13h				54
K1US731A,B	*	LFA		15		12.6							20k	10	3	2h				53
K1US731V	*	LFA		15		12.6							20k	10	3	80				53
1US732A,B	*	LFA		8	RTL	12.6						30	20k	1	3	50				53
1US732V	*	LFA		8	RTL	12.6						30	20.	1	3	20				53
1US771	*	AMP	5	6	RTL	12.6			7					40	3	1h				51
K1UT181A	*	AMP		4	RTL	4.0			10μ							15				63
K1UT181B	*	AMP		4	RTL	6.3			10μ							22				63
K1UT181V	*	AMP		4	RTL	6.3			20μ							22				63

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
1UT191	*	AMP		2	RTL	6.3	0.3	0.7	2			5	2hk	15	2	4				51
1UT221A	*	AMP		4	RTL	4.0	2.0			10		0	2M	6	3	26				53
1UT221B	*	AMP		4	RTL	4.0	6.3	3.0		10		0	2M	6	3	40				53
1UT221G		AMP		4		6.3						0	2M			22				53
1UT221V	*	AMP		4	RTL	6.3	3.0		<1			0	2M	3	3	40		15		53
1UT321		AMP		24		12.6					120	0	2M	15	4					53
1UT321A	*	OPA	1	9	DTL	6.3			6					4	3	4k				63
1UT321B	*	OPA	1	9	DTL	12.6			12					4	3	10k				63
1UT322A,B	*	OPA	1	24	DTL	12.6		10.0	8							1hk				63
1UT401A	*	OPA	1	9	DTL	6.3			6					4	3	4k				53
1UT401B	*	AMP	1	9		12.6			12					4	3	10k				53
1UT402A,B	*	OPA	2	24	DTL	12.6		10.0	8							1hk				53
1UT771	*	AMP	2	5	DTL	6.3			3							<40				1
1UYE191	*	AMP		4		3.0	1.5	0.6	<2			20	5hk	30	3					51
2DA181	*	DET	1	1	DTL	6.3					14		10k						4μ	57
2DA351	*	AMP	3	3	RTL	6.3					15	5hk	25M	5	2					55
2DS191		LIM		4		5.0						500	1M							55
K2DS241	*	DET		2	RTL															65
2DS351	*	DET	3	3	RTL	6.3					30	5hk	25M	5	2	30				55
2FP201		FIL																		55
2GF181	*	MVB	6	2		63.0					86	50	6hk						4μ	57
2GF182	*	MVB	6	2		6.3	6.0	2.8			76		2hk						300	57
2GF201		MVB		2		7.5			2											55
2GS191		OSC		1		5.0			2				70M							55
2GS192		OSC		1		5.0			2				15M							55
2GS193		OSC		1		5.0			2				15M							55
K2GS371	*	REG		5	RTL	9.0			30		300									63
2ID231	*			25		4.0	1.45	0.85			171						4	10	15	64
2IL071				16		3.0	0.35	0.65			18							3	200	60
2IL072				16		3.0	0.35	0.65			18							4	200	60
2IL073				16		3.0	0.35	0.65			18							5	200	60
2IL231	*			30		4.0	1.45	0.85			250							10	35	64
2IL401B	*	HAD				5.0	0.3	2.5			360							4	190	65
2IL401V	*	HAD				5.0	0.3	2.5			360							2	190	65
2IR111				12	TTL	3.0	0.35	0.8			35							4	400	56
2IR112				12	TTL	3.0	0.35	0.8			35							6	400	56
2IR161	*			12	RTL	3.0	0.30	2.3			40						10	6	500	56
2IR162	*			12	RTL	3.0	0.30	2.3			40						10	6	500	56
2IR401A	*	BRG		20		5.0	0.3	2.5			420							6	250	65
2IR401B	*	BRG		20		5.0	0.3	2.5			420							4	250	65
2IR402A	*	BRG				5.0	0.3	2.5			380							6	105	65
2IR402B	*	BRG				5.0	0.3	2.5			380							4	105	65
2IR403A	*	BRG				5.0	0.3	2.5			430							6	105	65
2IR403B	*	BRG				5.0	0.3	2.5			430							4	105	65
2IS401A	*	HAD				5.0	0.3	2.5			300							6	270	65
2IS401B	*	HAD				5.0	0.3	2.5			300							4	270	65
2IYE111				15		3.0	0.35	0.8			30							3	300	56
2IYE112				15		3.0	0.35	0.8			30							5	300	6
2IYE161	*	COU		15	RTL	3.0	0.30	2.3			35							6	500	56
2IYE162	*	COU		15	RTL	3.0	0.30	2.3			35							6	500	56
2IYE231	*			29		4 0	1.45	0.85			185							10	50	64
2IYE401A	*	COU				5.0	0.3	2.5			250							6	250	65
2IYE401B	*	COU				5.0	0.3	2.5			250							4	250	65
2KD281	*	COM	8	2	DTL	6.3		1.7			100								20	57
2KD282	*	COM	14		RDL	6.3		1.25	<3										20	57

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
2KD351	*	COM	3		RTL	6.3			<3		20									55
K2KT241	*	COM		6	RTL	12.0			15				6M							65
2KT281		SWI	8	2	DTL	6.3	0.5	2.5											20	57
2LB011	*	NND		4	RTL	4.0	1.3	0.3			15						6	2	100	58
2LB012	*	NOR		4	RTL	4.0	1.3	0.3			30						6	1	100	58
2LB013	*	NOR		4	RTL	4.0	1.3	0.3			30						6	1	100	58
2LB014	*	NND		6	RTL	4.0	1.3	0.3			25						6	2	100	58
2LB015	*	NND		5	RTL	4.0	1.3	0.3			20						6	2	100	58
2LB016	*	NOR		5	RTL	4.0	1.3	0.3			38						6	1	100	58
2LB017	*	NOR		5	RTL	4.0	1.3	0.3			38						6	1	100	58
2LB041	*	NDR	2	8	TTL	4.0	2.4	0.3			68						10	10	100	61
2LB042	*	NDR	2	6	TTL	4.0	2.4	0.3			56						5	10	150	61
2LB051		NOR		8	RTL	4.0	0.3	1.4			50							2	250	61
2LB052	*	NOR		4	RTL	4.0	0.3	1.4			25							2	250	61
2LB053	*	NOR		4	RTL	4.0	0.3	1.4			25							3	250	61
2LB071		NOR		12	RTL	3.0	0.35	0.65			18						6	3	200	60
2LB072		NOR		12	RTL	3.0	0.35	0.65			18						6	4	200	60
2LB073		NOR		12	RTL	3.0	0.35	0.65			18						6	5	200	60
2LB074		NOR		16	RTL	3.0	0.35	0.65			19						6	3	200	60
2LB075		NOR		16	RTL	3.0	0.35	0.65			19						6	4	200	60
2LB076		NOR		16	RTL	3.0	0.35	0.65			19						6	5	200	60
2LB111		NND		16	RTL	3.0	0.35	0.8									10	3	400	56
2LB112		NND		16	RTL	3.0	0.35	0.8			19						10	4	400	56
2LB113		NND		16	RTL	3.0	0.35	0.8			19						10	6	400	56
2LB114		NND		10	RTL	3.0	0.35	0.8			25						10	3	400	56
2LB115		NND		10	RTL	3.0	0.35	0.8			25						10	4	400	56
2LB116		NND		10	RTL	3.0	0.35	0.8			25						10	6	400	56
2LB117		NND		9	RTL	3.0	0.35	0.8			40						10	3	400	56
2LB118		NND		9	RTL	3.0	0.35	0.8			40						10	4	400	56
2LB119		NND		9	RTL	3.0	0.35	0.8			40						10	6	400	56
2LB1110		NOR		8	RTL	3.0	0.35	0.8			35						10	3	250	56
2LB1111		NOR		8	RTL	3.0	0.35	0.8			35						10	4	250	56
2LB1112		NOR		8	RTL	3.0	0.35	0.8			35						10	6	250	56
2LB161	*	NOR		16	RTL	3.0	0.30	2.3			65						10	6	500	56
2LB162	*	NOR		16	RTL	3.0	0.30	2.3			65						10	6	500	56
2LB163	*	NOR		16	RTL	3.0	0.30	2.3			65						10	6	500	56
2LB164	*	NOR		10	RTL	3.0	0.30	2.3			35						10	6	350	56
2LB165	*	NOR		10	RTL	3.0	0.30	2.3			35						10	6	350	56
2LB166	*	NOR		10	RTL	3.0	0.30	2.3			35						10	6	350	56
2LB167	*	NOR		9	RTL	3.0	0.34	2.3			50						10	6	500	56
2LB168	*	NOR		9	RTL	3.0	0.34	2.3			50						10	6	500	56
2LB169	*	NOR		9	RTL	3.0	0.34	2.3			50						10	6	500	56
2LB1610	*	NOR		8	RTL	3.0	0.30	2.3			40						10	6	350	56
2LB1611	*	NOR		8	RTL	3.0	0.30	2.3			40						10	6	350	56
2LB1612	*	NOR		8	RTL	3.0	0.30	2.3			40						10	6	350	56
2LB171A	*	NND	10	1	DTL	6.0	0.3	2.6			12						8	4	35	59
2LB171B	*	NND	10	1	DTL	6.0	0.3	2.6			12						6	4	35	59
2LB172	*	NND	10	2	DTL	6.0	0.3	2.6			24						3	4	25	59
2LB172B	*	NND	10	2	DTL	6.0	0.3	2.6			24						6	4	25	59
2LB173	*	NND	8	3	DTL	6.0	0.3	2.6			32						8	8	35	59
2LB173A	*	NND	8	3	DTL	6.0	0.3	2.6			32						8	60	35	59
2LB174A	*	NOR	12	3	DTL	6.0	0.3	2.6			39						2	4	24	59
2LB174B	*	NOR	12	3	DTL	6.0	0.3	2.6			39						2	6	24	59
2LB181	*		3	1	DTL	6.3	6.0	3.5			49	600	1M						5 hμ	57
2LB211			10	1		4.0				7	15									57

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
2LB231	*	NOR		21	TTL	4.0	1.45	0.85			128						3	10	15	64
2LB232B	*	NOR		20		4.0	1.45	0.85			112						4	10	15	64
2LB401A	*	NND				5.0	0.3	2.5			210							6	150	65
2LB401B	*	NND				5.0	0.3	2.5			210							4	150	65
2LB401V	*	NND				5.0	0.3	2.5			210							2	150	65
2LB402	*	NND				5.0	0.3	2.5			450							16	70	65
2LB403A	*	NND				5.0	0.3	2.5			135							6	150	65
2LB403B	*	NND				5.0	0.3	2.5			135							4	150	65
2LB403V	*	NND				5.0	0.3	2.5			135							2	150	65
2LB404A	*	NND				5.0	0.3	2.5			300							6	150	65
2LB404B	*	NND				5.0	0.3	2.5			300							4	150	65
2LB404V	*	NND				5.0	0.3	2.5			300							2	150	65
2LB405	*	NND				5.0	0.3	2.5			300							2	150	65
2LB406A	*	NND				5.0	0.3	2.5			190							6	150	65
2LB406B	*	NND				5.0	0.3	2.5			190							4	150	65
2LB406V	*	NND				5.0	0.3	2.5			190							2	150	65
2LI041	*			4	RTL			1.4			18						4	1	60	61
2LL231				20	TTL	4.0	1.45	0.85			112						4	10	15	64
2LN021		NND	2	5	DTL	4.0	0.3	1.4			35							3	70	58
2LN022	*	NND	2	5	DTL	4.0	0.3	1.4			35							5	70	58
2LN051	*	NND		8	DTL	4.0	0.4	3.0			8							3	250	61
2LN052		NND		8	RTL	4.0	0.3	1.4			25							2	250	61
2LN111		NND		5	RTL	3.0	0.35	0.8			35						10	3	500	56
2LN112		NND		5	RTL	3.0	0.35	0.8			35						10	4	500	56
2LN113		NND		5	RTL	3.0	0.35	0.8			35						10	6	500	56
2LN114		NND		5	RTL	3.0	0.35	0.8			40						10	3	250	61
2LN115		NND		5	RTL	3.0	0.35	0.8			40						10	4	250	61
2LN116		NND		5	RTL	3.0	0.35	0.8			40						10	6	250	61
2LN151	*	NND	2	5	RTL	4.0	0.33	1.4			35							5	36	58
2LN161	*	NOR		5	RTL	3.0	0.30	2.3			40						10	6	500	56
2LN162	*	NOR		5	RTL	3.0	0.30	2.3			40						10	6	500	56
2LN163	*	NOR		5	RTL	3.0	0.30	2.3			40						10	6	500	56
2LN164	*	NOR		5	RTL	3.0	0.30	2.3			45						10	6	350	56
2LN165	*	NOR		5	RTL	3.0	0.30	2.3			45						10	6	350	56
2LN166	*	NOR		5	RTL	3.0	0.30	2.3			45						10	6	350	56
2LN181	*	INV		3	RTL	6.3	6.0	4.0			<1							3		57
2LN182	*	INV	2	3	RTL	6.3	6.0	4.0			28							3		57
2LN183	*	INV	1	3	RTL	6.3	4.0	4.0			28							3		57
2LN211		NOR		6		4.0	0.3	2.5			50							4		57
2LP021	*	DIO	9			4.0					23									58
2LP022	*	DIO	8			4.0					16									58
2LP171	*	EXP	10	2	DTL	6.0					<19									59
2LP172	*	EXP	9	1	DTL	6.0					9								4	59
2LP173	*	EXP	8			6.0				1	11									59
2LP401	*	EXP																		65
2LR171	*	ANR	8	4	DTL	6.0	0.3	2.6			30						8	8	100	59
2LR221		ANR	8	3	DTL	4.0	0.3	2.3			25						10	10	250	57
2LS011	*	ADR		6	RTL	4.0	1.3	0.3			30						6	8	100	58
2LS021	*	ADR	6	2	DTL	4.0	0.33	1.35			18						8	3	70	58
2LS022	*	ADR	6	2	DTL	4.0	0.33	1.35			18						8	5	70	58
2LS023	*	ADR	6	4	DTL	4.0	0.33	1.35			33						8	3	20	58
2LS024	*	ADR	6	4	DTL	4.0	0.33	1.35			33						8	5	20	58
2LS025	*	ADR	8	1	DTL	4.0	0.33	1.35		3	18						8	3	150	58
2LS026	*	ADR	8	1	DTL	4.0	0.33	1.35		3	18						8	5	150	58
2LS027		ADR	8	2	DTL	4.0	0.33	1.35			21						8	3	50	58

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min H_z	Frequency Max H_z	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
2LS028		ADR	8	2	DTL	4.0	0.33	1.35			21						8	5	50	58
2LS151	*	ADR	6	2	DTL	4.0	0.33	1.4			22						8	5	35	58
2LS152	*	ADR	6	4	DTL	4.0	0.33	1.4			30						8	5	22	58
2LS211			8			10.0				2										57
2MP351	*	MOD	4		RTL			0.03												55
2MS191				2		5.0			<2			300	34h							55
2MS192				3		5.0			<3			300	34h							55
2ND021	*	DIO	6			10.0				3									20	58
2ND022	*	DIO	9			10.0				3									20	58
2NK041	*		4					1.4									4	1	10	61
2NK051	*	DIO	4					1.2	5											61
2NK281	*		4			6.3			5											57
2NS191A				4		5.0			<3				14M							55
2NS191B				4		5.0			<3				14M							55
2NT011	*			4		5.0			15		15					25				58
2NT012	*			4		5.0					15					35				58
2NT013	*			4		5.0			15		15					80				58
2NT171	*			4		10.0			20							70				59
2NT172	*			4		10.0			20							150				59
2NT173	*			4		10.0			20							280				59
2NT191				5		5.0														55
2NYE281	*					15.0														57
2PD281	*	CN	14			6.3	1.0				50									57
2PD282	*	CN	14			6.3	1.0				50									57
2PM351	*	AMP	3	3	RTL	6.3		2.0			30	800k	2M	5	3					55
2PN151	*		6	4		4.0	3.45	0.33	10		28						6			61
2PN152	*		3	6		4.0	0.33	1.8			73						5			61
2PN381	*	AGC		12	RTL															55
K2PP241	*	REG		2	RTL				4											65
2PP351	*	AGC	4	1	RTL	6.3	2.5				20									55
2PS351	*	CN		7	DTL	6.3					35		40M	5	2					55
2SV381	*	AMP		11	RTL			11.3												55
2TK041	*	FLP	4	5		4.0	2.4	0.3			37								400	61
2TK171A	*	FLP	16	2	DTL	6.0	0.3	2.6			52		3M					4		59
2TK171B	*	FLP	16	2	DTL	6.0	0.3	2.6			52		5M					4		59
2TK181	*	FLP	3	6	DTL	6.3	6.0	4.0			21		2M					4	300	57
2TR071				16		3.0	0.35	0.65			10							3	200	60
2TR072				16		3.0	0.35	0.65			10							4	200	60
2TR073				16		3.0	0.35	0.65			10							5	200	60
2TR111		NOR		12	RTL	3.0	0.35	0.8			35							3	500	56
2TR112		NOR		12	RTL	3.0	0.35	0.8			35							4	500	56
2TR113		NOR		12	RTL	3.0	0.35	0.8			35							6	500	56
2TR114		NOR		8	RTL	3.0	0.35	0.8			20							2	400	56
2TR115		NOR		8	RTL	3.0	0.35	0.8			20							3	400	56
2TR116		NOR		8	RTL	3.0	0.35	0.8			20							5	400	56
2TR161	*	FLP		12	RTL	3.0	0.30	2.3			45						10	6	500	56
2TR162	*	FLP		12	RTL	3.0	0.30	2.3			45						10	6	500	56
2TR163	*	FLP		12	RTL	3.0	0.30	2.3			45						10	6	500	56
2TR164	*	FLP		8	RTL	3.0	0.30	2.3			25							6	500	56
2TR165	*	FLP		8	RTL	3.0	0.30	2.3			25							6	500	56
2TR166	*	FLP		8	RTL	3.0	0.30	2.3			25							6	500	56
2TR171A	*		14	2	DTL	6.0	0.3	2.6			31		6M					4		59
2TR171B	*		14	2	DTL	6.0	0.3	2.6			31		6M					6		59
2TR172			14	2	DTL	3.0	0.3	2.6			40		6M					5		59
2TR211		FLP	6	3		4.0		2.7			25								1μ	57

Type No.		Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
2TR231	*	FLP		25	TTL	4.0	1.45	0.85			128							10	35	64
2TS051	*	FLP	4	4		4.0	0.3	1.4			25							2	250	61
K2TS241	*	FLP		4		12.0		5.0	10			10k	20k						5μ	65
K2UB241	*	AMP		3	RTL	12.0			15				6M			@				65
2UE181	*	EMF		1	RTL	6.3	4.0				7			3	3					57
2UE182	*	EMF		1	RTL	6.3	0.8				33			3	3				100	57
2UI021	*	AMP	1	5	DTL	4.0	0.3	1.35			40							15	200	58
2UI071		AMP		12	TTL	3.0	0.35	0.65			14						1	20	200	60
2UI111		AMP		10	TTL	3.0	0.35	0.85			30								300	56
2UI151	*	AMP	1	5	RTL	4.0	0.33	1.4			48							5	18	58
2UI181	*	AMP		1	RTL	6.3	1.0				22	60	1hk	8	2	3			500	57
2UI182	*	AMP		2	RTL	6.3	1.0				31	250	4hk	6	2	3			500	57
2UI183	*	AMP		2	RTL	6.3	0.25				48			8	2	3			500	57
2UN021	*		2	5		4.0	0.33	1.35			28							3	210	58
2UN022	*		2	5		4.0	0.33	1.35			28							5	210	58
2UP161	*	AMP		14	RTL	3.0	0.30	2.3			60						10	20	500	56
K2UP241	*	MIX		3	RTL	9.0			<4			30M	1MM							65
2US181	*	AMP		2	RTL	6.3					62	22M	37M			7				57
2US191A		AMP		2		5.0			<3			44M	50M			35				55
2US191B		AMP		2		5.0			<3			44M	50M			70				55
2US192		AMP		3		5.0			<2			5hk	1M			6h				55
2US193		AMP		2		5.0			<2			300	34h			2h				55
2US194		AMP		2		5.0			<2			300	34h							55
2US201		AMP		6		7.5			4			500	3k	7	3	1k				55
2US202			1	1		7.5			<2			40k	1hk							55
K2US241	*	AMP		2	RTL	12.0			4					2	2					65
K2US242	*	AMP		1	RTL	9.0						1hk	30M	2	2					65
K2US243	*	AMP		1	RTL	9.0			<2					15	1					65
K2US244	*	LFA		4	RTL	9.0			6					20	3	1h				65
K2US245	*	LFA		5	RTL	12.0			<6					15	3	1h				65
K2US246	*	AMP		3	RTL	12.0			8			30M	45M							65
K2US247	*	LFA		2	RTL	12.0			28			30M	45M							65
K2US248	*	LFA		3	RTL	12.0			15			4M	10M							65
K2US249	*	LFA		1	RTL	12.0			4			5hk	50M							65
2US281	*	AMP		1	RTL	6.3			4		70			2	2					57
2US282	*	AMP		3	RTL	6.3			5		70			2	2					57
2US283	*	AMP		2	RTL	6.3			5		70			2	2					57
2US284	*	AMP		2	RTL	6.3			5		85			4	2					57
2US285	*	AMP	6	3		6.3	1.4	2.3			65									57
2US351	*	AMP	2	3	DTL	6.3					20		150M	5	1	5				55
2US352	*	AMP		4	RTL	6.3		1.5			17	5hk	25M	5	2	1h				55
2US353	*	AGC	4	4	DTL	6.3		0.6			30	5hk	25M	2	3	70				55
2US354	*	LFA	1	6	DTL	6.3					16	5	10M	4	3	20				55
2US355	*	LFA		4	DTL	6.3					14	20	20k	4	3	4h				55
2US356	*	AMP	2	2	DTL	6.3					32			18	2	10				55
2US357	*	AGC	2	3	RTL	6.3					30	5hk	25M	2	2	30				55
K2US371	*	LFA		9	RTL	9.0	0.03	1.8	5			60	10k							63
K2US372	*	LFA		5	RTL	12.0	0.05				225	50	15k							63
K2US373	*	AMP		6	RTL	5.0			<3		14					18k				63
2US381	*	AMP		5	RTL									3	3	6				55
2US382	*	AMP		2	RTL									75	1	55				55
2UYE181	*	AMP		1		6.3	4.0				7	200	3hk	3	3				<2μ	57
K2ZHA241	*	MIX		2	RTL	25.0			3			65M	1MM	15	1					65
K2ZHA242	*	MIX		2	RTL	9.0						1hk	30M	5	2					65
K2ZHA243	*	AGC		2	RTL	3.0								5	2					65

Group X-A—INTEGRATED CIRCUITS—Continued

Type No.	Kind	No. Diodes	No. Xistors	Logic	Voltage Supply V	Voltage In Logic0 V	Voltage Out Logic1 V	Current In mA	Current Out μA	Max P mW	Frequency Min Hz	Frequency Max Hz	Input res ohms No.	Input res ohms Exp	Max gain dB	Fan In	Fan Out	Max time ns	Dwg No.
K2ZHA244 *	AMP		3	RTL	12.0			10			3M	6M							65
K2ZHA371 *	CN		6	RTL	5.0			3							2h				63
K2ZHA372 *	DET		8	RTL	5.0			4					1	3					63
K2ZHA373 *	AMP		4	RTL	5.0			4		22					7				63

Group X-B—MOS TRANSISTORS

Type No.	Kind	I_{DS} Min mA	I_{DS} Max mA	S (gain) Min mA/V	S (gain) Max mA/V	V_{GS} Min V	V_{GS} Max V	V_{DS} Max V	V_{DG} Max V	I_{GR} nA	Max noise μV *dB	C_{IN} pF	C_{SD} pF	Fig
KP101D	*SFP	0.3	5.0	0.35				10			*10	12		34
KP101G	*SFP	0.15	2.0	0.15				10			*5	12		34
KP101YE	*SFP	0.3	5.0	0.35				10				12		34
KP102I	*SFP	0.7	1.8	0.35	1.0		10	15	15	15	10	10	0.2	30
KP102K	*SFP	1.3	3.0	0.45	1.2		10.0	15	15	15	10	10	0.2	30
KP102L	*SFP	2.4	6.0	0.65	1.3		10.0	15	15	15	10	10	0.2	30
KP102YE	*SFP	0.18	0.55	0.25	0.7		10.0	15	15	15	10	10	0.2	30
KP102ZH	*SFP	0.4	1.0	0.3	0.9		10.0	15	15	15	10	10	0.2	30
KP103I	*SFP	1.0	2.1	0.8	2.6	0.8	3.0	10	15	20	*3	20	8.0	30
KP103K	*SFP	1.7	3.8	1.4	3.5	1.4	4.0	10	15	20	*3	20	8.0	30
KP103L	*SFP	3.0	6.6	1.8	3.8	2.0	6.0	10	17	20	*3	20	8.0	30
KP103M	*SFP	5.4	12.0	2.0	4.4	2.8	7.0	10	17	20	*3	20	8.0	30
KP103YE	*SFP	0.3	0.7	0.4	0.8	0.4	1.5	10	15	20	*3	20	8.0	30
KP103ZH	*SFP	0.55	1.2	0.7	2.1	0.5	2.2	15	15	20	*3	17	8.0	30
KP301B	*SJP	0.5μ			1.0		30	20				<4		31
KP901A	*SFN		20	50			50		100			50		40

Type No.		Type	Maximum			Maximum @ 25 °C			Maximum			Recovery			f_{Max}	Fig No.
			I_F @25 mA	T_{opr} °C	I_S @ 25 °C mA	PIV V	E_F @ *Min E_F V	I_F mA	I_R @ μA	E_r @ V	T °C	τ @ μs	I_F mA	E_R V	MHz	
D1A		GEP	.16	70		20	1.0	2	250	10	20				150M	1
D1B		GEP	16	70		30	1.0	1	250	25	20				150M	1
D1D		GEP	16	70		75	1.0	2	250	75	20				150M	1
D1G		GEP	16	70		50	1.0	5	250	50	20				150M	1
D1V		GEP	25	70		30	1.0	8	250	25	20				150M	1
D1YE		GEP	12	70		100	1.0	1	250	100	20				150M	1
DIZH		GEP	12	70		100	1.0	5	250	100	20				150M	1
D2A		GEP	50	70		7	1.0	50	250	7	20				150M	6
D2B	*	GEP	16	70	50	30	1.0	5	100	30	25				250M	6
D2D	*	GEP	16	70	50	75	1.0	15	250	75	25				150M	6
D2G	*	GEP	16	70	50	75	1.0	2	250	75	25				150M	6
D2I	*	GEP	16	70	50	100	*1.0	2	250	100	25				150M	4
D2K		GEP	16	70		100	1.0	5	800	100	20					4
D2M		GEP	16	70		100	1.0	5	250	100	20					4
D2N		GEP	16	70		150	1.0	5	800	150	20					4
D2P		GEP	16	70		150	1.0	5	250	150	20					4
D2R		GEP	16	70		200	1.0	5	250	200	20					4
D2V	*	GEP	25	70	78	40	1.0	9	250	40	20				150M	4
D2YE	*	GEP	16	70	50	100	1.0	<5	250	100	25				150M	4
D2ZH	*	GEP	8	70	50	150	1.0	8	250	150	25				150M	4
MD3	*	GEA	12	70	50	15	1.0	5	100	15	25	0.1	20	10		1
D7A	*	GEA	300	70	25	50	0.5	300	100	50	20					11
D7B	*	GEA	300	70	25	100	0.5	300	100	100	20				50k	11
D7D	*	GEA	300	70	25	300	0.5	300	100	300	20				50k	11
D7G	*	GEA	300	70	25	200	0.5	300	100	200	20				50k	11
D7V	*	GEA	300	70	25	150	0.5	300	100	150	20				50k	11
D7YE	*	GEA	300	70	25	350	0.5	300	100	350	20				50k	11
D7ZH	*	GEA	300	70	25	400	0.5	300	100	400	20				50k	11
D9A		GEP	25	70		10	1.0	10	250	10	20				40M	1
D9B	*	GEP	40	70	125	10	1.0	90	250	10	20				1hk	1B
D9G	*	GEP	30	70	98	30	1.0	30	250	30	20				1hk	1B
D9D	*	GEP	30	70	98	30	1.0	60	250	30	20				1hk	1B
D9I	*	GEP	30	70	98	30	1.0	30	120	30	20				1hk	1B
D9K	*	GEP	30	70	98	30	1.0	60	60	30	20				1hk	1B
D9L	*	GEP	15	70	48	100	1.0	30	250	100	25				1hk	1B
D9M		GEP	30	70		30	1.0	60	250	50	20					1
D9V	*	GEP	20	70	62	30	1.0	10	250	30	25				1hk	1B
D9YE	*	GEP	20	70	62	50	1.0	30	250	50	25				1hk	1B
D9ZH	*	GEP	15	70	48	100	1.0	10	250	100	20				1hk	1B
D10	*	GEP	50	70		10	1.5	3	100	10	20				100M	2
D10A	*	GEP	50	70		10	1.5	5	200	10	20				100M	2
D10B	*	GEP	50	70		10	1.5	8	200	10	20				100M	2
D11	*	GEP	20	70		30	1.0	100	250	30	20				50M	2
D12	*	GEP	20	70		50	1.0	50	250	50	20				50M	2
D12A	*	GEP	20	70		50	1.0	100	250	50	20				50M	2
D13	*	GEP	20	70		75	1.0	100	250	75	20				50M	2
D14	*	GEP	20	70		100	1.0	30	250	100	20				50M	2
D14A	*	GEP	20	70		100	1.0	100	250	100	20				50M	2
D15		GEP				30	1.0	15	300	30					300M	
D16		GEP				50	1.0	5	500	50					500M	
D16A		GEP				50	1.0	10	500	50					300M	
D17		GEP				100	1.0	4	400	100					300M	
D18	*	GEP	16	60	50	20	1.0	20	10	20	25	0.1	50	10	40M	2
D19		GEP	45	70		40	1.0	45	100	40	50					1
D19A		GEP	60	70		20	1.0	60	100	20	50					1

Type No.		Type	Maximum			Maximum @ 25 °C			Maximum			Recovery			f_{Max}	Fig No.
			I_F @ 25 mA	T_{Opr} °C	I_S @ 25 °C mA	PIV V	E_F @ I_F *Min E_F V	mA	I_R @ E_r @ T μA	V	°C	τ @ I_F μs	mA	E_R V	MHz	
D19B		GEP	45	70		20	1.0	45	100	20	50					1
D20	*	GEP	16	70		10	1.0	20	1m	20	25				40M	2
D21		GEP	16	70		150	1.0	5	250	100	20				150M	4
D101	*	SIP	30	150	100	75	2.0	2	10	75	125				600M	2
D101A	*	SIP	30	150	100	75	1.0	1	10	75	125				600M	2
D102	*	SIP	30	150	100	50	2.0	2	10	50	125				600M	2
D102A	*	SIP	30	150	100	50	1.0	1	10	50	125				600M	2
KD102A	*	SID	100	100	2A	250	1.0	50	50	250	100					1A
KD102B	*	SID	100	100		300	1.0	50 3	100	300	100					1A
D103	*	SIP	30	150	100	30	2.0	2	30	30	125				100M	2
D103A	*	SIP	30	150	100	30	1.0	1	30	30	125				100M	2
KD103A	*	SID	100	100	2A	50	1.0	50	50	50	100	4.0	50	20		1A
KD103B	*	SID	100	100	2A	50	1.2	50	50	50	100	4.0	50	20		1A
D104	*	SIP	30	150	100	100	2.0	2	150	100	100				100M	2
D104A	*	SIP	30	150	100	100	1.0	1	150	100	100				100M	2
D105	*	SIP	30	150	100	75	2.0	2	100	75	100				100M	2
D105A	*	SIP	30	150	100	75	1.0	1	100	75	100				100M	2
KD105A		SIA	300			200	1.0	300	300	150	85					7A
KD105B	*	SIA	300		85	400	1.0	300	300	300	85				1k	7A
KD105G	*	SID	300	85		800	1.0	300 1h	300	800	85				1k	7A
KD105V	*	SIA	300		85	600	1.0	300	300	450	85				1k	7A
D106	*	SIP	30	150	100	30	2.0	2	30	30	25				100M	2
D106A	*	SIP	30	150	100	30	1.0	1	30	30	25				100M	2
D107		SIP	10	125		10	1.0	10	<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
KD108G	*	SID	300	85		1k	1.0	300 1h	300	1k	85				1k	7A
D109		SIP	10	125		50	1.0	10	20	30	25					2
D201A		SI	200	125		25	1.5		500	25					100k	13
D201B		SI	200	125		50	1.5		500	50					100k	13
D201D		SI	400	125		100	2.0		500	100					100k	13
D201G		SI	200	125		100	1.5		500	100					100k	13
D201TS		SI	400	125		200	2.0		500	200					100k	13
D201V		SI	400	125		50	2.0		500	50					100k	13
D201YE		SI	200	125		200	2.0		500	200					100k	13
D201ZH		SI	400	125		200	2.0	400	500	200					100k	13
D202	*	SIA	400	125		100	1.0	400	500	100	85				100k	13
KD202A	*	SID	3A	130		50	1.0	3A	1000	50	120				12h	13
KD202B	*	SID	1A	130		50	1.0	1A	1000	50	120				12h	13
KD202D	*	SID	3A	120		200	1.0	3000	1000	200	120				12h	13
KD202G	*	SID	1A	120		100	1.0	1000	1000	100	120				12h	13
KD202I	*	SID	1A	120		300	1.0	1000	1000	300	120				12h	13
KD202K	*	SID	3A	120		400	1.0	3000	1000	400	120				12h	13
KD202L	*	SID	1A	120		400	1.0	1000	1000	400	120				12h	13
KD202M	*	SID	3A	120		500	1.0	3000	1000	500	120				12h	13
KD202N	*	SID	1A	120		500	1.0	1000	1000	500	120				12h	13
KD202R	*	SID	3A	120		600	1.0	3000	1000	600	120				12h	13
KD202S	*	SID	1A	120		600	1.0	1000	1000	600	120				12h	13
KD202V	*	SID	3A	120		100	1.0	3000	1000	100	120				12h	13
KD202YE	*	SID	1A	120		200	1.0	1000	1000	200	120				12h	13
KD202ZH	*	SID	3A	120		300	1.0	3000	1000	300	120				12h	13
D203	*	SIA	400	125		200	1.0	400	500	200	85				100k	13
KD203A	*	SID	10A	100		600	1.0	10A	1.5 15h	600	100				1k	14
KD203B	*	SID	10A	100		800	1.0	10A	1.5 15h	800	100				1k	14
KD203D	*	SID	10A	100		1k	1.0	10A	1.5 15h	1k	100				1k	14

Type No.		Type	Maximum			Maximum @ 25 °C			Maximum			Recovery			f_{Max}	Fig No.
			I_F @ 25 mA	T_{Opr} °C	I_S @ 25 °C mA	PIV V	E_F @ I_F *Min E_F V	I_F mA	I_R @ E_r @ T μA	V	°C	τ @ I_F μs	mA	E_R V	MHz	
KD203G	*	SID	10A	100		1k	1.0	10A	1.5	15h	1k 100				1k	14
KD203V	*	SID	10A	100		800	1.0	10A	1.5	15h	800 100				1k	14
D204	*	SIA	400	125		300	1.0	400	500	300	85				100k	13
D205	*	SIA	400	125		400	1.0	400	500	400	85				100k	13
KD205A	*	SIA	500	70		500	1.0	500 1h	200	500	70				1k	19D
KD205B	*	SIA	500	70		400	1.0	500 1h	200	400	70				1k	19D
KD205D	*	SIA	500	70		100	1.0	500 1h	200	100	70				1k	19D
KD205G	*	SIA	500	70		200	1.0	500 1h	200	200	70				1k	19D
KD205V	*	SIA	500	70		300	1.0	500 1h	200	300	70				1k	19D
KD205YE	*	SIA	300	70		500	1.5	300 1h	200	500	70				1k	19D
D206	*	SIA	100	100		100	1.0	100	100	100	100				100k	10
D207	*	SIA	100	100		200	1.0	100	100	200	100				100k	10
D208	*	SIA	100	100		300	1.0	100	100	300	100				100k	10
D209	*	SIA	100	100		400	1.0	100	100	400	100				100k	10
D210	*	SIA	100	100		500	1.0	100	100	500	100				100k	10
D211	*	SIA	100	100		600	1.0	100	100	600	100				100k	10
D214		SIA	5A	125		100	1.0	5A	3000	100	125					14
D214A		SIA	10A	125		100	1.0	10A	3000	100	125					14
D214B		SIA	2A	125		100	1.0	2000	3000	100	20				1k	14
D215	*	SIA	5A	125		200	1.0	5A	3000	200	125					14
D215A		SIA	10A	125		200	1.0	10A	3000	200	125					14
D215B		SIA	2A	125		200	1.0	2000	3000	200	20				1k	14
D217	*	SIA	100	100		800	1.0	100	150	800	100				1k	9
MD217	*	SID	100	100		800	1.0	100 75	150	800	100				1μ	9
D218	*	SIA	100	100		1000	1.0	100	150	1000	100				1k	9
D219A	*	SIA	50	100	500	70	1.0	50	30	70	100	0.5	30	30		2
D219S	*	SIA	50	120	500	100	1.0	50	1							2
D220	*	SIA	50	100	500	50	1.5	50	20	50	100	0.5	30	30		2
D220A	*	SIA	50	100	500	70	1.5	50	30	70	100	0.5	30	30		2
D220B	*	SIA	50	100	500	100	1.5	50	40	100	100	0.5	30	30		2
D220S	*	SIA	50	120	500		1.5	50								2
D221		SIA	400	125		400	1.0	400	500	400	125				3k	13
D222		SIA	400	125		600	1.0	400	500	600	125				3k	13
D223	*	SIA	50	125	500	50	1.0	50	50	50	100				30k	2
D223A	*	SIA	50	125	500	100	1.0	50	50	100	100				20k	2
D223B	*	SIA	50	125	500	150	1.0	50	50	150	100				20k	2
D224		SIA	5A	125		50	1.0	5000	3000	50	20					14
D224A		SIA	10A	125		50	1.0	10A	3000	50	20					14
D224B		SIA	2A	125		50	1.0	2000	3000	50	20					14
D225		SIA	30	125		5	1.0	30		5	20					8
D226	*	SIA	300	125		400	1.0	300	30	400	20					9
D226A		SIA	300	125		300	1.0	300	30	300	20					9
D226B	*	SIA	300	80		400	1.0	300	300	300	80				1k	9
D226D	*	SIA	300	80		100	1.0	300	300	70	80				1k	9
D226G	*	SIA	300	80		200	1.0	300	300	150	80				1k	9
D226V	*	SIA	300	80		300	1.0	300	300	200	80				1k	9
D226YE		SIA	300	125		400	1.0	300	300	400	80					9
D229A		SIA	400	125		200	1.0	400	50	200	20					3
D229B		SIA	400	125		400	1.0	400	50	400	20					3
D229D	*	SID	400	85		300	1.0	400	500	300	85				1k	13
D229YE	*	SID	400	85		400	1.0	400	500	400	85				1k	13
D229G	*	SID	400	85		200	1.0	400	500	200	85				1k	13
D229V	*	SID	400	85		100	1.0	400	500	100	85				1k	13
D230A		SIA	300	125		200	1.0	300	50	200	20					9
D230B		SIA	300	125		400	1.0	300	50	400	20					9

Type No.	Type	Maximum			Maximum @ 25 °C			Maximum			Recovery			f_{Max}	Fig No.
		I_F @ 25 mA	T_{Opr} °C	I_S @ 25 °C mA	PIV V	E_F @ I_F *Min E_F V	mA	I_R @ E_r @ T µA	V	°C	τ @ I_F µs	mA	E_R V.	MHz	
D231,P	SIA	10A	130		300	1.0	10A	3000	300	130					14
D231A,P	SIA	10A	130		300	1.0	10A	3000	300	130					14
D232,P	SIA	10A	130		400	1.0	10A	3000	400	130					14
D232A,P	SIA	10A	130		400	1.0	10A	3000	400	130					14
D232B,P	SIA	10A	130		400	1.0	10A	3000	400	130					14
D233,P	SIA	10A	130		500	1.0	10A	3000	500	130					14
D233A	SIA	10A	125		500	1.5	10A	3000	500	20					14
D233B,P	SIA	10A	130		500	1.0	10A	3000	500	130					14
D234B,P	SIA	10A	130		600	1.0	10A	3000	600	130					14
D242,P *	SID	10A	130		100	1.25	10A	3m	100	120				1k	14
D242A,P*	SID	10A	130		100	1.0	10A	3m	100	120				1k	14
D242B,P*	SID	5A	130		100	1.5	5A	3m	100	120				1k	14
D243,P *	SID	10A	130		200	1.25	10A	3m	200	120				1k	14
D243A,P*	SID	10A	130		200	1.0	10A	3m	200	120				1k	14
D243B,P*	SID	5A	130		200	1.5	5A	3m	200	120				1k	14
D244,P *	SID	10A	130		50	1.25	10A	3m	50	120				1k	14
D244A,P*	SID	10A	130		50	1.0	10A	3m	50	120				1k	14
D244B,P*	SID	5A	130		50	1.5	5A	3m	50	120				1k	14
D245 *	SID	10A	130		300	1.25	10A	3m	300	120				1k	14
D245A *	SID	10A	130		300	1.0	10A	3m	300	120				1k	14
D245B *	SID	5A	130		300	1.5	5A	3m	300	120				1k	14
D246 *	SID	10A	130		400	1.25	10A	3m	400	120				1k	14
D246A *	SID	10A	130		400	1.0	10A	3m	400	120				1k	14
D246B *	SID	5A	130		400	1.5	5A	3m	400	120				1k	14
D247 *	SID	10A	130		500	1.25	10A	3m	500	120				1k	14
D247B *	SID	5A	130		500	1.5	5A	3m	500	120				1k	14
D248B *	SID	5A	130		600	1.5	5A	3m	600	120				1k	14
D302 *	GEA	1A	70		200	0.3	1A	800	200	20				50k	16
D302A *	GEA	1A	55		200	0.3	1A	1200	200	20				50k	16
D303 *	GEA	3A	70		150	0.35	3A	1000	150	20				50k	16
D303A *	GEA	3A			150	0.35	3A	1200	150	20					16
D304 *	GEA	5A	70		100	0.3	5A	2000	100	20				50k	16
D305 *	GEA	10A	70		50	0.35	10A	2500	50	20				50k	16
D310 *	GEM	250	60	800	20	0.5	500	100	20	70	0.3	500	20		2
D311 *	GEM	40	70	500	30	0.4	10	100	30	25	0.05	50	10		2
D311A *	GEM	80	70	600	30	0.4	10	100	30	25	0.05	50	10		2
D311B *	GE	20	60	250	30	0.5	10	100	30	25	0.05	50	10		2
D312 *	GEM	50	60	500	100	0.5	10	100	100	20	0.5	50	10		2
D312A *	GEM	50	60	500	75	0.5	10	100	75	20	0.5	50	10		2
D312B *	GEM	50	70	500	100	0.5	10	100	100	25	0.7	50	10		2
KD401A *	SIM	30	100		75	1.0	5	5	75	25	2.0	10	30		2
KD401B *	SIM	30	100		75	1.0	5	5	75	25	2.0	10	30		2
KTS401A *	SI	500	70	5A	500	2.5	400	100	500	25					21
KTS401B *	SI	500	70	5A	500	2.5	400	100	500	25					22
KTS401V *	SI	500	60		400	2.5	500	100	400	25					22A
GD402A *	GE	25	60		15	0.5	25	100	15	25				100M	2
GD402B *	GE	25	60		15	0.5	25	100	15	25				100M	2
GD403A *	GE	5	55		5										2
GD403B *	GE	5	55		5										2
GD403V *	GE	5	55		5										2
GD405A *	GEA	30	72		18	1.0	4		40	10					1A
GD406A *	GEA	30	72		25	1.0	7		100	18					1A
KD503A *	SPN	20	70	200	30	1.0	10	10			0.01	10	10		1
KD503B *	SPN	20	70	200	30	1.2	10	10			0.01	10	10		1
KD503V *	SPN	10			10	1.3	10		1		0.05	10	10		2

Type No.		Type	Maximum			Maximum @ 25 °C			Maximum			Recovery			f_{Max}	Fig No.
			I_F @ 25 mA	T_{OPR} °C	I_S @ 25 °C mA	PIV V	E_F @ I_F *Min E_F V	I_F mA	I_R @ E_T @ T μA	V	°C	τ @ I_F μs	mA	E_R V	MHz	
KD504A	*	SIA	240	100		40	1.2	100	2			0.01	300	30		5
GD507A	*	GEB	16	60	100	20	0.5	16	50	20	25	0.1	20	10		2
KD509A	*	SEN	150	85	15h	50	1.1	100 5				4.0n	10	10		5
KD510A	*	SEN	250	85	15h	50	1.1	200 5				4.0n	10	10		5
KD512A	*	SEN	20	100	200	15	1.0	10	100	15	100	1.0n	10	10		1
KD513A	*	SEN	100	85	15H	50	1.1	100	100	50	85	4.0n	10	10		33A
KD514A	*	SEN	50	85		10	1.0	10 5				0.1n				1C
D1001		GE	100	80		2000	6.5	100	150	2000					100k	17
D1001A		GE	100	80		1000	3.5	100	150	1000					100k	17
D1002		GE	300	80		2000	7.5	300	300	2000					100k	17
D1002A		GE	300	80		1000	4.0	300	300	1000					100k	17
D1003A		GE	300	80		500	2.0	300	300	500					100k	17
D1004	*	SIA	100	100	600	2000	6.0	100	250	2000	100				1k	20A
D1005A	*	SIA	50	100	300	4000	6.0	100	250	4000	100				1k	20A
D1005B	*	SIA	100	100	600	4000	11.0	100	250	4000	100				1k	20B
D1006	*	SIA	100	100	600	6000	11.0	100	250	6000	100				1k	20B
D1006A	*	SIA	500	100	3A	6k	11.0	500 1h	250	6k	100				1k	20B
D1007	*	SIA	75	100	450	8000	11.0	100	250	8000	100				1k	20B
D1007A	*	SIA	500	100	3A	8k	11.0	500 1h	250	8k	100				1k	20B
D1008	*	SIA	50	100	300	10k	11.0	500	250	10k	100				1k	20B
D1008A	*	SIA	500	100	3A	10k	11.0	500 1h	250	10k	100				1k	20B
D1009	*	SIA	100	125	600	2000	4.0	100	300	2000	70				1k	18A
D1009A	*	SIA	100	125	600	1000	3.0	100	300	1000	70				1k	19B
D1010	*	SIA	300	125	18h	2000	8.0	300	300	2000	70				1k	18B
D1010A	*	SIA	300	125	18h	1000	5.0	300	300	1000	70				1k	19C
D1011A	*	SIA	300	125	18h	500	2.5	300	300	500	70				1k	19B
D1602A		GE	300	70		200	1.0	300	1	200						
D1602B		GE	300	70		300	1.0	300	1	300						
D1602V		GE	300	70		400	1.0	300	1	400						
DG-TS1		GEP	16	70	100	50	*1.0	2	1000	50	20					6
DG-TS2		GEP	16	70	100	75	*1.0	4	500	50	20					6
DG-TS3		GEP	25			50	1.0	2	100	50	20					6
DG-TS4		GEP	16	70	100	100	*1.0	2	800	75	20					6
DG-TS5		GEP	16	70	100	100	*1.0	1	250	75	20					6
DG-TS6		GEP	16	70	100	125	*1.0	1	800	100	20					6
DG-TS7		GEP	16	70	100	125	*1.0	1	250	100	20					6
DG-TS8		GEP	25	70	100	50	*1.0	10	500	30	20					6
DG-TS9		GEP	50	70	100	45	*1.0	10	100	10	20					6
DGTS10		GEP	50	70	100	45	*1.0	5	60	10	20	150				6
DGTS12		GEP	16	70		30	1.0					150				6
DGTS13		GEP	16	70		30	1.0									6
DGTS14		GEP	16	70		50	1.0									6
DGTS15		GEP	50	70		150	1.0	1	800	150	20					6
DGTS16		GEP	50	70		150	1.0	1	250	150	20					6
DGTS17		GEP	50	70		200	*1.0	1	800	200	20					6
DGTS21		GEA	300	70		50	0.5	300	300	50	20				50k	3
DGTS22		GEA	300	70		100	0.5	300	300	100	20				50k	3
DGTS23		GEA	300	70		150	0.5	300	300	150	20				50k	3
DGTS24		GEA	300	70		200	0.5	300	300	200	20				50k	3
DGTS25		GEA	100	70		300	0.3	100	300	300	20				50k	3
DGTS26		GEA	100	70		350	0.3	100	300	350	20				50k	3
DGTS27		GEA	100	70		400	0.3	100	300	400	20				50k	3

Group XI-A – DIODES – SWITCHING

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

Group XI-B – DIODES – TUNNEL

Type No.	Kind	Type	Maximum		Min	V_{FM}		Capacity pF	Fig No.
			I_p mA	I_p/I_v	V_p mV	Min mV	Max mV		
AI-101A	*	TUN GAS	1	5	160			4	23D
AI-101B	*	TUN GAS	1	5	160			8	23D
AI-101D	*	TUN GAS	2	6	160			10	23D
AI-101G	*	TUN GAS	2	6	160			4	23D
AI-101I	*	TUN GAS	5	6	180			13	23D
AI-101V	*	TUN GAS	2	6	160			5	23D
AI-101YE	*	TUN GAS	5	6	180			8	23D
AI-101ZH	*	TUN GAS	5	6	180			6	23D
AI-201A	*	TUN GAS	10	10	180			8	23D
AI-201B	*	TUN GAS	10	10	180			6	23D
AI-201D	*	TUN GAS	20	10	200			7	23D
AI-201G	*	TUN GAS	20	10	200			10	23D
AI-201I	*	TUN GAS	50	10	260			30	23D
AI-201K	*	TUN GAS	H1	10	330			20	23D
AI-201L	*	TUN GAS	H1	10	330			50	23D
AI-201V	*	TUN GAS	10	10	180			15	23D
AI-201ZH	*	TUN GAS	50	10	260			15	23D
AI-301A	*	TUN GAS	2	8	180	650		12	23D
AI-301B	*	TUN GAS	5	8	180	850	1150	25	23D
AI-301G	*	TUN GAS	10	8	180	800		50	23D
AI-301V	*	TUN GAS	5	8	180	1000	1300	25	23D
GI304A	*	TUN GEA	5.1	5	75	420		20	23A
GI304B	*	TUN GEA	5.5	5	75	420		20	23A
GI305A	*	TUN GEA	10.1	5	85	430		30	23A
GI305B	*	TUN GEA	11.0	5	85	430		30	23A
1I-302A	*	TUN GE	2.3	4.5	60		400	80	23A
1I-302B	*	TUN GE	5.8	4.5	60		400	150	23A
1I-302G	*	TUN GE	17	4.5	60		400	200	23A
1I-302V	*	TUN GE	11.5	4.5	60		400	180	23A

Group XI-C—DIODES—SWITCH CONTROL

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

Group XI-D—DIODES—VARACTORS

Type No.		Kind	Type	Maximum		Capacity @ 4V				Q	Power max	Temp		Fig No.
				Volts V	I_R μA	Min pF	Max pF	TC	Exp (−)		mW	Min (−)°C	Max (+)°C	
KV101A	*	VAR	SID	4		160	240			12		10	55	23D
KV102A	*	VAR	SID	45	1	14	23	3	4	40	90	40	85	1A
KV102B	*	VAR	SID	45	1	19	30	3	4	40	90	40	85	1A
KV102D	*	VAR	SID	45	1	19	30	4	4	40	90	40	85	1A
KV102G	*	VAR	SID	45	1	19	30	3	4	100	90	40	85	1A
KV102V	*	VAR	SID	80	1	25	40	3	4	40	90	40	85	1A
KV103A	*	VAR	SID	80		18	32			50	5W	40	85	14
KV103B	*	VAR	SID	80		28	48			40	5W	40	85	14
KV104A	*	VAR	SI	45	5	90	120	3	4	100	100	40	85	1A
KV104B	*	VAR	SI	45	5	106	144	3	4	100	100	40	85	1A
KV104D	*	VAR	SI	80	5	128	192	4	4	100	100	40	85	1A
KV104G	*	VAR	SI	80	5	95	143	4	4	100	100	40	85	1A
KV104V	*	VAR	SI	45	5	128	192	3	4	100	100	40	85	1A
KV104YE	*	VAR	SI	45	5	95	143	3	4	150	100	40	85	1A
KV105A	*	VAR	SI	90	50	400	600	4	4	500	150	55	100	9
KV105B	*	VAR	SI	50	50	400	600	3	4	500	150	55	100	9
KV106A	*	VAR	SID	120		20	50			40	5W	55	100	13
KV106B	*	VAR	SID	90		15	35			60	5W	55	100	13
KA602A	*	VAR	SEN	60	100	<5	<9				25h	60	100	30A
KA602B	*	VAR	SEN	60	100	<3	<5				15h	60	100	30A
D901A	*	VAR	SIA	80	1	22	32	4	4	25	250	55	85	8
D901B	*	VAR	SIA	45	1	22	32	3	4	30	250	55	85	8
D901D	*	VAR	SIA	80	1	34	44	4	4	25	250	55	85	8
D901G	*	VAR	SIA	45	1	28	38	3	4	30	250	55	85	8
D901V	*	VAR	SIA	80	1	28	38	4	4	25	250	55	85	8
D901YE	*	VAR	SIA	45	1	34	44	3	4	30	250	55	85	8
D902	*	VAR	SIA	25	10	6	12			30	250	40	100	2

Group XI–E – LIGHT EMITTING DIODES

Type No.		Kind	Type	Output Cd/m² *mW	I_F Typ mA	E_F Typ V	I_F Max mA	Temperature Min −°C	Temperature Max +°C	Fig No.
KL101A	*	LED	SCD	10	10	5.5	10	10	70	39
KL101B	*	LED	SCD	15	20	5.5	20	10	70	39
KL101V	*	LED	SCD	20	40	5.5	40	10	70	39
AL102A	*	LED	GPE	5	5	3.2	10	60	70	40
AL102B	*	LED	GPE	40	20	4.5	20	60	70	40
AL102V	*	LED	GPE	50	30	5.0	30	60	70	40
AL103A	*	LED	GAE	*1	50	1.6		60	85	41
AL103B	*	LED	GAE	*0.6	50	1.6		60	85	41
KL104A	*	DIN	SCD	15	10	5.5		10	70	42

Group XI–F – HALL TRANSDUCERS

Type No.		Kind	I max mA	Mean Sens mV/mA T	TC Sens %/°C	Impedance In Ω	Impedance Out Ω	TC Res %/°C	Non-Equi Potential × 10⁻³	Active Area mm²	Max Lgth mm	Max Wdth mm
DKHG-05	*	GE	30	.085	0.03	40	90	0.6	3.0	20	10	7
DKHG-05M	*	GE	12	.085	0.03	40	120	0.6	3.0	4.2	3	3
DKHG-05S	*	GE	50	.085	0.03	40	110	0.6	1.1	72	15	10
DKHG-1	*	GE	20	.17	0.3	120	200	0.5	2.1	20	10	7
DKHG-2	*	GE	13	.35	0.3	200	320	0.5	2.0	18	10	7
DKHG-2S	*	GE	22	.35	0.3	220	360	0.5	1.1	72	15	10
DKHG-2M	*	GE	6	.35	0.3	200	350	0.5	1.1	4.2	3	3
K-7	*	SI	10	45	0.08	500	1000	1.3	1.0	18	10	7
K-7M	*	SI	5	45	0.08	500	1000	1.3	1.0	4.2	3	3
K-7S	*	SI	20	45	0.08	500	1000	1.3	1.0	72	15	10
K-14	*	SI	5	90	0.15	1100	2100	1.0	1.0	18	10	7

Group XI–G – MISCELLANEOUS DIODES

Type No.		Kind	Type	Current			Voltage		Max cap	Switching			Power	Fig No.
				I_F mA	I_s mA	I_R μA	V_F V	V_R V	pF	Ratio	Damp dB	t_{rr} ns	mW	
GI401A	*	BWD	GE	0.3		40H	0.33	<0.1	2.5					23C
GI401B	*	BWD	GE	0.5		56H	0.33	<0.1	5.0					23C
AI402B	*	BWD	GAS	0.1		10H	0.6	<0.3	4					23B
AI402G	*	BWD	GAS	0.1		10H	0.6	<0.3	8					23B
AI402I	*	BWD	GAS	0.4		40H	0.6	<0.3	10					23B
AI402YE	*	BWD	GAS	0.2		20H	0.6	<0.3	8					23B
403A	*	BWD	GEA	100			0.12	<0.4	8					23A
1A501A		PIN				0.5			0.1	150	0.8		100	
1A501G		PIN				0.5			0.16	150	0.8		100	
1A501I		PIN				0.5			0.07	150	0.8		100	
1A504A		PIN				100			0.9	500	0.5		25h	
1A504B		PIN				100			0.9	200	0.8		25h	
KD901A	*	1DA	SI	10		0.2	0.7		4.0					36
KD901B	*	2DA	SI	10		0.2	0.7		4.0					36
KD901G	*	4DA	SI	10		0.2	0.7		4.0					36
KD901V	*	3DA	SI	10		0.2	0.7		4.0					36
KD902D	*	1DA	SI	1.0		0.2	0.85		2.0					36
KD902I	*	4DA	SI	1.0		0.2	0.85		2.0					36
KD902YE	*	2DA	SI	1.0		0.2	0.85		2.0					36
KD902ZH	*	3DA	SI	1.0		0.2	0.85		2.0					36
KD903A	*	8DA	SI	1.0	350	0.5	1.2		10.0			150		35
KD903B	*	8DA	SI	75	350	0.5	1.2		10.0			150		35
KD904A	*	1DA	SI	1.0		0.2	0.8		2.5					36
KD904B	*	2DA	SI	1.0		0.2	0.8		2.5					36
KD904D	*	3DA	SI	1.0		0.2	0.8		2.5					36
KD904G	*	4DA	SI	1.0		0.2	0.8		2.5					36
KD904V	*	3DA	SI	1.0		0.2	0.8		2.5					36
KD904YE	*	4DA	SI	1.0		0.2	0.8		2.5					36
KD906	*	4DA	SI	50		1.0	1.0	75						34
KD907	*	DA	SI	50		6.0	1.0		6.0				6	37
KD907A	*	1DA	SEN	10	700	6.0	1.0	40	4.0				4	37
KD907B	*	2DA	SEN	10	700	6.0	1.0	40	4.0				4	37
KD907G	*	4DA	SEN	10	700	6.0	1.0	40	4.0				4	37
KD907V	*	3DA	SEN	10	700	6.0	1.0	40	4.0				4	37
KD908A	*	8DA	SEN	200	15h	10.0	1.2	40	5.0				6	36
KD909	*	8DA	SI	200	800			40	5.0				50	38
KD910A	*	1DA	SPN	2		0.5	0.5	5.0	1.5				5	39
KD910B	*	2DA	SPN	2		0.5	0.5	5.0	1.5				5	39
KD910V	*	3DA	SPN	2		0.5	0.5	5.0	1.5				5	39
KD911A	*	3DA	SPN	200	800	0.5	0.62	5.0					30	39

Group XII – DIODES – POWER RECTIFIERS

Type No.		Kind	Type	Maximum				Maximum E_R in volts available for following subclasses																Cooling		
				Opr temp °C	I_f Amp	E_f V	I_r mA	15	30	45	50	55	70	80	100	110	150	2h	3h	4h	5h	6h	7h	8h	Kind	Rate	Radiator
VG-5		POW	GE	75	5	0.5			X		X			X	X		X	X	X					AN		
VG-5		POW	GE	75	10	0.5			X		X			X	X		X							AF	10M	
VG-10		POW	GE	75	10	0.5			X															AN		
VG-10-30		POW	GE	75	20	0.5	10		X															AF	10M	
VG-10-45		POW	GE	75	20	0.5	8			X														AF	10M	
VG-10-55		POW	GE	75	20	0.5	6					X												AF	10M	
VG-10-80		POW	GE	75	20	0.5	5							X										AF	10M	
VG-10-110		POW	GE	75	20	0.5	4									X								AF	10M	
VG-10-150		POW	GE	75	20	0.5	3										X							AF	10M	
VG-30		POW	GE	75	30	0.5			X		X			X	X		X							AF	10M	
VG-50		POW	GE	75	50	0.5	40	X	X															AF	10M	
VG-50		POW	GE	75	50	0.5	30			X		X												AF	10M	
VG-50		POW	GE	75	50	0.5	20						X			X	X							AF	10M	
VG-100		POW	GE	75	100	0.5			X		X			X	X		X							AF	10M	
VGV200		POW	GE	75	200	0.6	100	X	X	X	X	X		X	X									W	4L	
VGV500		POW	GE	75	500	0.6			X		X			X	X									W	4L	
VGV1000		POW	GE	75	1000	0.8			X		X			X	X									W	4L	
VK2-10	*	POW	SI	200	10	0.7	2				X				X			X	X	X	X	X	X	AN		
VK2-25	*	POW	SI	200	25	0.7	5				X				X			X	X	X	X	X		AF	5M	X
VK2-50	*	POW	SI	200	50	0.7	10				X				X			X	X	X	X	X		AF	5M	X
VK2-100	*	POW	SI	200	150	0.7	10				X				X			X	X	X	X	X		AF	15M	X
VK2-200	*	POW	SI	200	200	0.7	20				X				X			X	X	X	X	X		AF	12M	X
VKV200		POW	SI	200	200	0.9					X				X			X	X	X	X	X		W	4L	X
VKV200		POW	SI	200	500	0.9					X				X			X	X	X				W	4L	X
VKV1000		POW	SI	200	1000	0.9					X				X			X	X					W	4L	X

Group XII—A—SILICON CONTROLLED DIODES
HIGH POWER

Type No.	Kind	Type	Max forward current					PIV	Maximum					I_R	Fig No.
			None	Air-cool		Water-cool			Power	Gate pulse					
				With rad	Forced air rad	2L/m	5L/m	V	W	Gate W	V	A	Width μs	mA	
VKDU25 *	SCR	SI4			25		200	1k						10	25
VKDU50 *	SCR	SI4			50		200	1k						10	26
VKDU100 *	SCR	SI4			100		200	1k						10	26A
VKDU150 *	SCR	SI4			150		200	1k						10	26A
VKDUV-200 *	SCR	SI4					200	1k						10	43
VKU-10-0.25	SCR	SI4	1	5	10			50	20	1.25	20	1.0	20	20	24
VKU-10-0.5	SCR	SI4	1	5	10			100	20	1.25	20	1.0	20	20	24
VKU-10-0.75	SCR	SI4	1	5	10			150	20	1.25	20	1.0	20	20	24
VKU-10-1.0	SCR	SI4	1	5	10			200	20	1.25	20	1.0	20	20	24
VKU-10-1.5	SCR	SI4	1	5	10			250	20	1.25	20	1.0	20	20	24
VKU-10-2.0	SCR	SI4	1	5	10			400	20	1.25	20	1.0	20	20	24
VKU-10-2.5	SCR	SI4	1	5	10			500	20	1.25	20	1.0	20	20	24
VKU-10-3.0	SCR	SI4	1	5	10			600	20	1.25	20	1.0	20	20	24
VKU-20-0.25	SCR	SI4	3	10	20			50	20	1.25	20	1.0	20	20	25
VKU-20-0.5	SCR	SI4	3	10	20			100	20	1.25	20	1.0	20	20	25
VKU-20-0.75	SCR	SI4	3	10	20			150	20	1.25	20	1.0	20	20	25
VKU-20-1.0	SCR	SI4	3	10	20			200	20	1.25	20	1.0	20	20	25
VKU-20-1.5	SCR	SI4	3	10	20			250	20	1.25	20	1.0	20	20	25
VKU-20-2.0	SCR	SI4	3	10	20			400	20	1.25	20	1.0	20	20	25
VKU-20-2.5	SCR	SI4	3	10	20			500	20	1.25	20	1.0	20	20	25
VKU-20-3.0	SCR	SI4	3	10	20			600	20	1.25	20	1.0	20	20	25
VKU-50-0.25	SCR	SI4	15	32	50			50	30	1.87	20	1.5	20	20	25
VKU-50-0.5	SCR	SI4	15	32	50			100	30	1.87	20	1.5	20	20	25
VKU-50-0.75	SCR	SI4	15	32	50			150	30	1.87	20	1.5	20	20	25
VKU-50-1.0	SCR	SI4	15	32	50			200	30	1.87	20	1.5	20	20	25
VKU-50-1.5	SCR	SI4	15	32	50			250	30	1.87	20	1.5	20	20	25
VKU-50-2.0	SCR	SI4	15	32	50			400	30	1.87	20	1.5	20	20	25
VKU-50-2.5	SCR	SI4	15	32	50			500	30	1.87	20	1.5	20	20	25
VKU-50-3.0	SCR	SI4	15	32	50			600	30	1.87	20	1.5	20	20	25
VKU100-0.25	SCR	SI4		22	100			50	40	2.5	20	2.0	20	20	26
VKU100-0.5	SCR	SI4		22	100			100	40	2.5	20	2.0	20	20	26
VKU100-0.75	SCR	SI4		22	100			150	40	2.5	20	2.0	20	20	26
VKU100-1.0	SCR	SI4		22	100			200	40	2.5	20	2.0	20	20	26
VKU100-1.5	SCR	SI4		22	100			250	40	2.5	20	2.0	20	20	26
VKU100-2.0	SCR	SI4		22	100			400	40	2.5	20	2.0	20	20	26
VKU100-2.5	SCR	SI4		22	100			500	40	2.5	20	2.0	20	20	26
VKU100-3.0	SCR	SI4		22	100			600	40	2.5	20	2.0	20	20	26
VKUV-100-0.25	SCR	SI4	15			60	100	50	40	2.5	20	2.0	20	20	27
VKUV-100-0.5	SCR	SI4	15			60	100	100	40	2.5	20	2.0	20	20	27
VKUV-100-0.75	SCR	SI4	15			60	100	150	40	2.5	20	2.0	20	20	27
VKUV-100-1.0	SCR	SI4	15			60	100	200	40	2.5	20	2.0	20	20	27
VKUV-100-1.5	SCR	SI4	15			60	100	250	40	2.5	20	2.0	20	20	27
VKUV-100-2.0	SCR	SI4	15			60	100	400	40	2.5	20	2.0	20	20	27
VKUV-100-2.5	SCR	SI4	15			60	100	500	40	2.5	20	2.0	20	20	27
VKUV-100-3.0	SCR	SI4	15			60	100	600	40	2.5	20	2.0	20	20	27

Group XII–B—SILICON CONTROLLED DIODES LOW POWER

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

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

Type No.		Kind	Type	Maximum			Typical			Max Z	TC	K_θ	Fig No.
				I_z mA	T_{opr} C	P_z mW	E_z V	ΔE_z %	I_z mA	Ω	%/°C	mW/°C	
D6		REG	SI	18	150	125	6.5		5.0	10	.03		
D7		REG	SI	18	150	125	7.5		5.0	10	.06		
D8		REG	SI	14	150	125	8.5		5.0	10	.07		
KS133A	*	REG	SIA	81	100	300	3.3	10	10.0	65	.1		12
KS139A	*	REG	SIA	70	100	300	3.9	10	10.0	60	.1		12
KS147A	*	REG	SIA	58	100	300	4.7	10	10.0	56	.08		12
KS156A	*	REG	SIA	55	100	300	5.6	10	10.0	46	.05		12
KS168A	*	REG	SIA	45	100	300	6.8	10	10.0	28	.06		12
KS194A		REG	SI		60		9.4	5		18	.005		
KS194B		REG	SI		60		9.4	5		18	.003		
KS194G		REG	SI		60		9.4	5		18	.001		
KS194V		REG	SI		60		9.4	5		18	.001		
KS211B	*	REG	SI	33	120	280	11.0	20	10.0	15	.02		33
KS211D	*	REG	SI	33	120	280	11.0	15	10.0	15	.005		33
KS211G	*	REG	SI	33	120	280	11.0	15	10.0	15	.01		33
KS211V	*	REG	SI	33	120	280	11.0	20	10.0	15	.02		33
KS620A	*	REG	SIA	84	100	5W	120	15	50	150	.2		33
KS630A	*	REG	SIA	72	100	5W	130	15	50	180	.2		33
KS650A	*	REG	SIA	66	100	5W	150	15	25	255	.2		33
KS680A	*	REG	SIA	56	100	5W	180	15	25	330	.2		33
D808	*	REG	SI	33	125	280	7.7	10	5.0	6	.07	3	8
D809	*	REG	SI	29	125	280	8.7	10	5.0	10	.08	3	8
D810	*	REG	SI	26	125	280	9.7	10	5.0	12	.09	3	8
D811	*	REG	SI	23	125	280	11.0	10	5.0	15	.095	3	8
D813	*	REG	SI	20	125	280	12.7	10	5.0	18	.095	3	8
D814-A	*	REG	SIA	40	100	340	7.8	10	5.0	6	.07		8
D814-B	*	REG	SIA	36	100	340	8.8	10	5.0	10	.08		8
D814-D	*	REG	SIA	24	100	340	12.8	10	5.0	18	.095		8
D814-G	*	REG	SIA	29	100	340	11.0	10	5.0	15	.095		8
D814-V	*	REG	SIA	32	100	340	9.8	10	5.0	12	.09		8
D815A,P	*	REG	SIA	14H	125	8W	5.6	15	50.0	<1	.056		13
D815B,P	*	REG	SIA	11H	125	8W	6.8	15	50.0	1	.062		13
D815D,P	*	REG	SIA	650	125	8W	12.0	15	25.0	3	.11		13
D815G,P	*	REG	SIA	800	125	8W	10.0	15	25.0	<3	.10		13
D815I	*	REG	SIA	14H	125	8W	4.7	15	50.0	<1	.056		13
D815V,P	*	REG	SIA	950	125	8W	8.2	15	50.0	1	.088		13
D815YE,P	*	REG	SIA	550	125	8W	15.0	15	25.0	<4	.13		13
D815ZH,P	*	REG	SIA	450	125	8W	18.0	15	25.0	<5	.14		13
D816A,P	*	REG	SI	230	125	5W	22	10	10.0	7	.12		13
D816B,P	*	REG	SIA	180	100	5W	27	15	15.0	12	.15		13
D816D,P	*	REG	SIA	110	100	5W	47	15	15.0	22	.15		13
D816G,P	*	REG	SIA	130	100	5W	39	15	15.0	18	.15		13
D816V,P	*	REG	SIA	150	100	5W	33	15	15.0	15	.15		13
D817A,P	*	REG	SIA	90	100	5W	56	15	50.0	52	.18		13
D817B,P	*	REG	SIA	75	100	5W	68	15	50.0	60	.18		13
D817G,P	*	REG	SIA	50	100	5W	100	15	50.0	60	.18		13
D817V,P	*	REG	SIA	60	100	5W	82	15	50.0	75	.18		13
D818A	*	REG	SID	33	100	300	9.0	10	11.0	25	.02	70	12
D818B	*	REG	SID	33	100	300	9.0	10	11.0	25	.02	70	12
D818D	*	REG	SI	33	120	300	9.0		11.0	25	.002	70	8
D818G	*	REG	SID	33	100	300	9.0	10	11.0	25	.005	70	12
D818V	*	REG	SID	33	100	300	9.0	10	11.0	25	.01	70	12
D818YE	*	REG	SI	33	120	300	9.0		11.0	25	.001	70	8
KS162A	*	REG	SIA	22	100	150	6.2	<1	10.0	33	−6		33A
KS168V	*	REG	SIA	23	100	150	6.8	<1	10.0	28	5		33A

Type No.	Kind	Type	Maximum			Typical			Max Z	TC	K_θ	Fig No.
			I_z mA	T_{Opr} C	P_z mW	E_z V	ΔE_z %	I_z mA	Ω	%/°C	mW/°C	
KS170A *	REG	SIA	23	100	150	7.0	<1	10.0	20	1		33A
KS175A *	REG	SIA	18	100	150	7.5	<1	5.0	16	+4		33A
KS182A *	REG	SIA	17	100	150	8.2	<1	5.0	14	5		33A
KS191A *	REG	SIA	15	100	150	9.1	<1	5.0	18	6		33A
KS196B *	REG	SIA	20	100	200	9.4	5	5.0	18	0.25		12
KS196G *	REG	SIA	20	100	200	9.4	5	5.0	18	0.05		12
KS196V *	REG	SIA	20	100	200	9.4	5	5.0	18	0.1		12
KS210B *	REG	SIA	14	100	150	10.0	<1	5.0	22	7		33A
KS213B *	REG	SIA	10	100	150	13.0	<1	5.0	25	8		33A
KS433A *	REG	SIA	191	125	1W	3.3	10	60	14	−10		12
KS439A *	REG	SIA	176	125	1W	3.9	10	51	12	−10		12
KS447A *	REG	SIA	159	125	1W	4.7	10	43	10	−8		12
KS456A *	REG	SIA	139	125	1W	5.6	10	36	7	+5		12
KS468A *	REG	SIA	119	125	1W	6.8	10	29	5	+6.5		12
KS482A *	REG	SIA	96	125	1W	8.2	10	24	5	8		12
KS515A *	REG	SIA	53	125	1W	15.0	10	13.0	17	10		12
KS518A *	REG	SIA	45	125	1W	18.0	10	11.0	22	11		12
KS527A *	REG	SIA	30	125	1W	27.0	10	7.5	40	11		
KS522A *	REG	SIA	37	125	1W	22.0	10	9.0	29	11		12
KS527A *	REG	SIA	30	125	1W	27.0	10	7.5	40	11		12
SK1-5.6/1000	REG	SI		65	10W	5.6		1A	<1	.045		24
SK1-6.8/1000	REG	SI		65	10W	6.8		1A	1	.05		24
SK1-8.2/1000	REG	SI		65	10W	8.2		1A	2	.07		24
SK1-10/500	REG	SI		65	10W	10.0		500	2	.08		24
SK1-12/500	REG	SI		65	10W	12.0		500	3	.09		24
SK1-15/500	REG	SI		65	10W	15.0		500	4	.10		24
SK1-18/500	REG	SI		65	10W	18.0		500	4	.11		24
SK1-22/150	REG	SI		65	10W	22.0		150	7	.11		24
SK1-24/150	REG	SI		65	10W	24.0		150	8	.12		24
SK1-28/150	REG	SI		65	10W	28.0		150	12	.12		24
SK1-30/150	REG	SI		65	10W	30.0		150	30	.12		24
SK1-36/150	REG	SI		65	10W	36.0		150	45	.12		24
SK1-43/150	REG	SI		65	10W	43.0		150	60	.12		24
SK1-51/150	REG	SI		65	10W	51.0		150	70	.12		24
SK1-62/50	REG	SI		65	10W	62.0		50	80	.14		24
SK1-75/50	REG	SI		65	10W	75.0		50	100	.14		24
SK1-95/50	REG	SI		65	10W	91.0		50	100	.14		24
SK1-110/50	REG	SI		65	10W	110.0		50	110	.14		24
SK1-120/50	REG	SI		65	10W	120.0		50	112	.14		24
SK1-150/50	REG	SI		65	10W	150.0		50	150	.15		24
SK1-180/50	REG	SI		65	10W	180.0		50	150	.15		24
SK1-220/25	REG	SI		65	10W	220.0		25	300	.15		24
SK1-270/25	REG	SI		65	10W	270.0		25	400	.15		24
SK1-300/25	REG	SI		65	10W	300.0		25	500	.15		24
SK2-5.6/2000	REG	SI		65	15W	5.6		2A	<1	.04		25
SK2-6.8/2000	REG	SI		65	15W	6.8		2A	1	.05		25
SK2-8.2/2000	REG	SI		65	15W	8.2		2A	2	.7		25
SK2-10/1000	REG	SI		65	15W	10.0		2A	2	.08		25
SK2-12/1000	REG	SI		65	15W	12.0		1A	2	.09		25
SK2-15/1000	REG	SI		65	15W	15.0		1A	3	.10		25
SK2-18/700	REG	SI		65	15W	18.0		700	4	.11		25
SK2-22/300	REG	SI		65	15W	22.0		300	5	.12		25
SK2-24/300	REG	SI		65	15W	24.0		300	6	.12		25
SK2-28/300	REG	SI		65	15W	28.0		300	8	.12		25
SK2-30/300	REG	SI		65	15W	30.0		300	25	.12		25
SK2-36/300	REG	SI		65	15W	36.0		300	30	.12		25

Group XIII – DIODES – REGULATORS – Continued

Type No.	Kind	Type	Maximum			Typical			Max Z	TC	K_θ	Fig No.
			I_z mA	T_{opr} C	P_z mW	E_z V	ΔE_z %	I_z mA	Ω	%/°C	mW/°C	
SK2-43/300	REG	SI		65	15W	43.0		300	35	.12		25
SK2-51/200	REG	SI		65	15W	51.0		200	45	.12		25
SK2-62/200	REG	SI		65	15W	62.0		200	60	.14		25
SK2-75/100	REG	SI		65	15W	75.0		100	80	.14		25
SK2-91/100	REG	SI		65	15W	91.0		100	90	.14		25
SK2-110/100	REG	SI		65	15W	110.0		100	100	.14		25
SK2-120/100	REG	SI		65	15W	120.0		100	100	.14		25
SK2-150/100	REG	SI		65	15W	150.0		100	120	.14		25
SK2-180/100	REG	SI		65	15W	180.0		100	200	.15		25
SK2-220/50	REG	SI		65	15W	220.0		50	300	.15		25
SK2-270/50	REG	SI		65	15W	270.0		50	350	.15		25
SK2-300/50	REG	SI		65	15W	300.0		50	450	.15		25
2S-156A	REG	SI	55	120	300	5.6	10	10	46	.05		12
2S-168A	REG	SI	45	120	300	6.8	10	10	28	.06		12
2S920A,P	REG	SI	42	130	5W	120		5	100	.16		13
2S930A,P	REG	SI	38	130	5W	130		5	120	.16		13
2S950A,P	REG	SI	33	130	5W	150		2.5	170	.16		13
2S980A,P	REG	SI	28	130	5W	180			220	.16		13

Type No.	Kind	Type	Typical wavelength	Maximum							Min cur sens	Opr temp		Fig No.
				Res	L_c	NF_0	VSWR	Pulse pwr		Pulse energy				
								Cont	Peak	Cont	Peak		Min	Max	
			cm	Ω	dB	dB		mW	mW	erg	erg	A/W	(−)°C	(+)°C	
2A201A				1k					20			5.5			
2A202A				1k					20			2.5			
D3A	VID	SI	3.2	950			2.5	50	300				60	70	20
D3B	VID	SI	9.8	950			2.5	50	300				60	70	20
D401	MIX	GE	8.5	1k	13.0			15					5	50	29
D402	MIX	SI		650	10.0	2.5	3.0	10		0.02			60	85	
D403A	MIX	GE	9.8	700	9.0	3.0	3.0		150	0.15			60	100	20
D403B	MIX	GE	9.8	600	8.5	3.0	3.5		150	0.15			60	100	20
D403V	MIX	GE	9.8	600	9.0		2.8		150	0.15			60	100	20
D404	MIX	SI		520	8.5	2.5	2.5	10	80	0.02	1.5		60	85	
D405	* MIX	SIP	3.0	400	7.0		2.0	20	300	0.6	0.3		60	100	30
D405A	* MIX	SIP	3.0	500	6.5		1.7	20	300	1.0	0.3		60	100	30
D405AP	* MIX	SIP	3.0	500	6.5		1.7		80	1.0	0.3		60	100	30
D405B	MIX	SI		330	8.0		1.4		80	1.0	1.5		60	100	31
D405BP	MIX	SI		330	8.0		1.4		80	1.0	1.5		60	100	31
D406	MIX	SI						40	300	0.1			60	100	30
D408	* MIX	SI	9.8	390	6.0	7.5	1.3	100	500		0.5		60	125	30
D409A	* MIX	SI	9.8	575	7.5	21	1.7		300		0.7				30
D409AP	* MIX	SI	9.8	575	7.5	21	1.7		300		0.7				30
D501	* MUL	SIP	h.2						100				60	100	30
D602A	VID	GE	3.2	600			3.2		50			1.5	60	85	28
D602B	VID	GE	3.2	900			3.2		50			1.5	60	85	28
D602V	VID	GE	3.2	900			3.2		50			4.0	60	85	28
D603	* VID	SI	9.8	900			2.0		200			4.0	60	100	30
D604	* VID	SI	3.2	900		8.0	4.0	10	300			2.5	60	100	30
D605	* DET	SIP	3.2		14.0			600	2k				60	100	30
D607				12h					5			4.0			
D607A				12h					5			3.5			
D608				12h								4.0			
D609				2k					2			4.0			
DG-S1	MIX	GE	9.8	400	8.5	3.0	3.0	80	250	0.1	3.0		60	70	28
DG-S2	MIX	GE	9.8	400	6.5	3.0	3.0	80	250	0.1	3.0		60	70	28
DG-S3	MIX	GE	3.2	400	8.5	3.0	3.5	80	250	0.1	3.0		60	70	28
DG-S4	MIX	GE	3.2	400	6.5	3.0	3.0	50	250	0.1	3.0		60	70	28
DK-I1M	* DET	SIP	9.8						200			0.5	60	100	30
DK-I2M	* DET	SIP	3.2						200			0.2	60	100	30
DK-S1M	* MIX	SIP	9.8	400	8.5	2.7	3.5	80	300	0.3	2.0		60	100	30
DK-S2M	* MIX	SIP	9.8	400	6.5	2.0	3.0	50	300	0.36	2.0		60	100	30
DK-S3	MIX	SI	3.2	400	8.5	2.7	3.0	50	200	0.06	0.6		60	70	30
DK-S4	MIX	SI	3.2	400	6.5	2.7	2.5	30	100	0.06	0.3		60	70	30
DK-S5	MIX	SI	2.0	400	8.0	2.5	3.0	30	200	0.06	0.2		60	70	28
DK-S7	MIX	SI	3.2	900	7.0	2.0	2.0	50		0.15			60	80	28
DK-S7M	* MIX	SI	3.0	700	7.5	2.0	2.0		100	0.3			60	80	29
DK-V1	* DET	SIP	9.8	15k				50	200			0.8	50	70	29
DK-V2	* DET	SIP	9.8	10k				50	100			1.2	50	70	29
DK-V3	* DET	SIP	3.2	15k				50	200			0.4	50	70	29
DK-V4	* DET	SI	3.2	10k				50	100			0.8	50	70	29
DK-V5M	* DET	SI	9.8	10k				50	200			0.8	60	100	30
DK-V6M	* DET	SI	9.8	25k				50	200			0.8	60	100	30
DK-V7M	* VID	SIP	3.2	10k				50	200			0.4	60	100	30
DK-V8	VID	SI	3.2	15h			3.0	50			0.3		60	70	28
DK-V11	VID	SI		10k			2.5	50				1.5	50	70	28

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

Type No.	Kind	Type	Bulb dimen			Cathode			Maximum				Output sens		Dynodes			Application
			Shape	Diam	Lth	Area	Surf	Sens μA/lm	E_b	I_k	Dark I		Min	Opr E_b	Design	Mat'l	No.	
				mm	mm	cm^2			V	μA	Amp	(−) Exp	Amp/L	V				
F-1	*PHO	VC	T	39	93	<3	S4	100	300		1	14						
F-2	*PHO	VC	T	20	67		S4	30	300		1	8	1					
F-3	*PHO	VC	G	92	140		S10	70	50		1	9						
F-4	*PHO	VC	T	39	93		S4	70	300		5	11						
F-5	*PHO	VC	T	42	93		S1		300		8	11						
F-6	*PHO	VC	G	33	76		S10	50	300		1	11						
F-7	*PHO	VC	T	44	97		MG		300		1	11						
F-8	*PHO	VC	G	27	62		S4	80	300		1	8						
F-9	*PHO	VC	G	40	88		S20	100	300		1	13						
F-10	*PHO	VC	T	60	100		S20	80	300		1	12						
FEU-1	*PHM		G	40	124		S4	400	350		1	7	1	220				
FEU-1B	PHM		B	80	285	44	S13	90	2000	300	1	7	3		L	AMK	11	6
FEU-1B1V	PHM		T	80	225	44	S13	90	2500	1m	1	7	30		C	AMK	10	7
FEU-1B2V	PHM		T	80	225	44	S13	30	2500		1	7	300		C	AMK	12	7
FEU-1S	PHM		T	48	205	12	S13	90	1950	300	1	7	3		L	AMK	11	6
FEU-1V	PHM		T	48	166	12	S13	90	2500	1m	1	7	30		C	AMK	10	7
FEU-2	*PHM		G	31	71		S4	400	250		1	7	1	220			1	
FEU-2B	PHM			150	295	155	S13	90	2000	300	1	7	3		L	AMK	11	6
FEU-2B1V	PHM		B	80	225	44	S13	90	2500		1	7			C		12	7
FEU-2M	PHM		T	34	130	5	S13	90	1600	300	1	7	3		L	AMK	13	5
FEU-2V	PHM		T	50	170	12	S10	90	2500	1m	1	7	300		C	AMK	12	7
FEU-3B	PHM		B	200	295	227	S13	90	2000	300	1	7	3		L	AMK	11	6
FEU-3M	PHM		T	19	75	<2	S13	90	1500	100	5	8	1		L	AMK	8	5
FEU-4	*PHM		G	38	110	2	S20	600	240		1	14					1	
FEU-5	*PHM		T	34	100	2	S5	400	240		1	14					1	
FEU-11	PHM		T	52	179	16	S4	80	2500	25m	8	7	5	1700	V	CAM	12	7
FEU-12	*PHM		T	52	179	16	S10	80	2500		8	7	5		V	CAM	12	7
FEU-12A	*PHM		T	52	179	20	S10	50	1700	25	8	7	5	1700	V		12	
FEU-13	*PHM		T	52	129	17	S5	50	2200	5m	4	7	6	2200	V	CAM	12	
FEU-14	*PHM		T	52	129	17	S10	60	2200	5m	4	7	6	2200	V	CAM	12	
FEU-14A	*PHM		T	52	129	20	S10	60	1700	5	4	7	6	1700	V		12	
FEU-15	*PHM		T	34	115	5	S10	40	2000	5m	1	7	30	1700	L	CAM	12	
FEU-15A	*PHM		T	34	113	5	S10	40	2000		1	7	30	1700	V		12	
FEU-15B	PHM		T	34	113	5	S10	20	2000		6	8	20	1700	V		12	
FEU-16	*PHM		T	34	115	5	S4	25	2000	5m	4	7	5	1700	L	CAM	12	
FEU-16A	*PHM		T	34	113	5	S4	40	2000		1	7	30	1700	V		12	
FEU-17	PHM		T	48	181	<1	S2	20	1400	100	3	7	10	900	L		13	
FEU-17A	PHM		T	48	181	<1	S4	20	1400	100	3	7	10	900	L		13	
FEU-18	*PHM		T	48	181	<1	S5	20	1400	100	3	7	10	900	L		13	
FEU-18A	PHM		T	48	181	<1	S5	20	1400	100	3	7	10	900	L		13	
FEU-19A	*PHM		T	48	195	9	S4	15	2600	200	1	6	1000	1700	L		13	7
FEU-19M	*PHM		T	34	200	19		10	2600		12	6	1	1100	V		12	
FEU-20	*PHM		T	34	95	<2	S4	20	900	100	8	9	1	900	L		8	
FEU-22	*PHM		T	48	181	<1	S1	25	2000	300	2	8	3	1400	L		13	
FEU-23	PHM			305	450	700	S10	20	2400	10			10		L	AMK	11	5
FEU-24	*PHM		T	80	230	12	S4	35	2000	200	3	7	10	1600	L		13	6
FEU-25	*PHM		T	34	109	8	S4	20	1700	100	5	8	1	1250	L		9	6
FEU-26	*PHM		T	22	70	<1	S4	20	900	75	5	8	11	900			7	
FEU-27	*PHM		T	30	108	5	S10	30	2000		5	9	1	1100			11	
FEU-28	*PHM		T	34	122	5	S1	20	1800	100	2	6	10	1800			11	
FEU-29	*PHM		T	48	195	5	S4	45	2300	200	3	8	10	1000	L	CAM	13	7
FEU-30	*PHM		T	67	210	20	S4	40	3500		1	4	10k	3500			14	
FEU-31	*PHM		T	22	79	10	S4	20	1400	75	5	7	10	1300	L		8	
FEU-32	*PHM		T	34	123	5	S10	25	1800	200	1	8	1	1250	L	AMK	11	6
FEU-33	*SCC		T	48	195	9	S4	30	2900		1	6	100	2100	L		13	7

Type No.	Kind	Type	Bulb dimen			Cathode			Maximum				Output sens		Dynodes			Application
			Shape	Diam	Lth	Area	Surf	Sens μA/lm	E_b	I_k	Dark I		Min	Opr E_b	Design	Mat'l	No.	
				mm	mm	cm²			V	μA	Amp	(−) Exp	Amp/L	V				
FEU-34	PHM					9	S13	30	2700		1	5	1000		L		13	
FEU-35	*PHM		T	31	113	5	S4	40	1750	50	2	9	1	1700	L		8	
FEU-36	*PHM		T	48	195	9	S4	40	2900	200	2	5	100	1600	L		13	
FEU-37	*PHM		T	48	193	11	S4	30	2000	200	5	6	1000	2000	L		11	
FEU-38	*PHM		T	48	200	9	S20	100	2900	400	5	6		1300	L		13	
FEU-39	*PHM		T	48	178	9		10	2600		12	6	1	1100	V		11	
FEU-39A	*PHM		T	48	178	9	S4	25	1800	10	1	6	1000	1800	L		11	
FEU-40	NSP		T	20	91		S13	30	1900		5	7	1				8	
FEU-42	NSP		T	48	205		S13	30	2200		1	7	1	1800			11	
FEU-43	NSP		T	80	290		S13	30	2200		1	7		1800			11	
FEU-44	NSP		B	150	310		S13	30	2200		1	7	1	1800			11	
FEU-45	NSP		B	200	340		S13	30	2200		1	7	1	1800			11	
FEU-46	NSP		T	48	130		S13	30	1800		1	10	1	1800			10	
FEU-47	NSP		T	48	169		S13	30	2500		1	7	1	2300			10	
FEU-48	NSP		T	80	230		S13	30	2500		1	7	1	2300			10	
FEU-49	*PHM		B	170	202	180	S20	50	2500	10m	3	6	10	1650	V		12	
FEU-50	*PHM		T	89	360	23	S4	20					1000				13	
FEU-51	*PHM		T	34	110	5	S20	60		100	3	7	100	2300			11	
FEU-52	*PHM		B	80	125	28	S20	50	2500	10m	5	8	10	1700	V	CAM	12	7
FEU-53	*PHM		T	51	110	16	S4	25	2500	10m	1	7	2000	2500	V	CAM	14	7
FEU-54	*PHM		T	22	90	2	S4	20	1800	500	8	7	25	1700	V		14	
FEU-55	*PHM		T	22	90	2	S10	20	1800	500	8	7	25	1700	V		14	
FEU-56	*PHM		B	80	120	28	S4	30	2500	10m	8	8	10	1700	V		12	
FEU-58	*PHM		T	22	90	2	S4	15	2100	500	2	7	30	2000	V		14	
FEU-59	*PHM		T	51	107	15	S4	20		10m	2	5	20		V		14	
FEU-60	* PHM		T	15	59	<1	S4	20	1600	50	3	8	30	1600			10	
FEU-62	*PHM		T	34	86	<1	S1	15	1800	100	6	7	10	1500			11	
FEU-63	* PHM					78	S20	60					1000					
FEU-64	*PHM		T	48	170	<1	S4	25	1250	100	5	8	1000	1500			11	
FEU-65	* PHM					176	S5	40					1000					
FEU-67	*PHM		T	22	76	<1	S2	20	1250		5	9	3	1250			8	
FEU-68	* PHM			15	70			100			4	10	1	1200				
FEU-69	*PHM		T	22	75	<1	S20	90	1350				10					
FEU-70	*PHM		T	34	125		SI0	50	1800		6	9	100	1800				
FEU-74	* PHM		T	3	30	4		40	1500		3	10	10					
FEU-75	* PHM			15	70			60			4	10	1	1200				
FEU-77	* PHM						S20											
FEU-80	* PHM																	
FEU-81	*PHM		T	52	122		SI0	50	1800		8	8	100	1800				
FEU-82	*PHM		T	80	152		SI0	50	2500		2	7	100	1800				
FEU-85	*PHM		T	30	90	5	S4	80			3	8	100	900				
FEU-93	*PHM		T	52	120	13	S4	30	2500		5	8	10	1600	V		12	
FEU-97	*PHM		T	52	110		S4		2000		7	9	30	1350				
FEU-R3	PHM		T	47	109	2	S13	90	1400		1	10			C		10	
FEU-R5	PHM		T	47	109	2	S13	90	1400		1	7	1		C		10	
STSV-3	*PHO	VC	G	27	62	5	S4	80	300		1	8	1	240				
STSV-4	*PHO	VC	G	39	129	114	S4	80	300		1	7	1	240				
STSV-6	PHO	VC	T	27	104		S1		30		5	11						
STSV51	*PHO	VC	G	30	63		S4	100	240		1	8						
TSG-1	PHO	GS	G	56	131		S1	75	240		1	7	1					
TSG-3	*PHO	GS	G	27	62		S1	100	300		1	7	1	240				
TSG-4	*PHO	GS	G	39	129		S1	100	300		1	7	1					
TSV-1	PHM	VC	G	56	131		S1	20	240		1	7	1					
TSV-3	PHO	VC	G	27	62		S1	20	240		1	7	1					
TSV-4	PHO	VC	G	39	129		S1	20	240		1	7	1					
TSV-6	PHO	VC	T	27	104		S1		30		5	11						

Group XVIII – THERMOCOUPLES

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

Type No.	Kind	Use	Dimen Lth mm	Dimen Diam mm	Shape	Resistance Min Ω	Resistance Max Ω	T.C. %	Temp Min (−)°C	Temp Max (+)°C	Power Min mW	Power Max mW	Sens Ω/mW
TOS-M	TMS	CON	6	3	DSC		6k	3.0		180		50	
KMT-1	TMS	MEA	13	4	CYL	20K	1M	5.1	20	180		8h	
MMT-1	TMS	MEA	13	4	CYL	1	200	2.9	70	120		4h	
ST1-17	TMS	MEA				300	22k	7.0	60	100		5h	
ST1-18			1			<2	2200	5.0	60	300		45	
ST1-19	TMS	MEA				3	2200	4.0	60	300		60	
ST-1-21	TMS		48	12	CYL	33	100		60	85		60	
ST-1-30	TMS		60	6	CYL	200	33k		60	85			
TKI-1	TMS	MEA	5	5	CYL	5	40	0.4	40	70			
TSH-1	TMS	MEA					125	3.4			7.0	11	
TST-1A	TMS	REG	6	18		4	20	1.4				40	
ST-2-26	TMS					1k	100k	3.0	60	125			
TKI-2	TMS	MEA	5	5	CYL	10	1000	2.6	40	70			
TSH-2	TMS	MEA					150	3.4			13.5	18	
ST3-17	TMS	MEA				33	340	4.5	60	100		5h	
ST3-18			<1			<1	3	4.1	90	125		15	
ST3-19	TMS	MEA				2	15	4.5	90	125		45	
ST-3-21	TMS					680	15k		60	85		60	
ST-3-22	TMS			40	CYL		1k	3.5	60	85	6.0	12	
ST3-23	TMS	COM				2	5	3.7	0	125		5h	
ST-3-24	TMS		<1		DSC	680	33h	3.0	60	85			
ST-3-25	TMS		<1		DSC	15h	33h	3.3	100	125	0.1	8	
ST-3-26	TMS					100	680	3.0	60	125			
TKI-3	TMS	MEA	5	5	CYL	10	20k	2.8	40	70			
KMT-4	TMS	MEA	24	7	CYL	20k	1M	5.1	20	180		8h	
MMT-4	TMS	MEA	24	7	CYL	1	200	2.9	70	120			
ST-4-15	TMS	MEA	<2	10		1500	1800	3.6	60	180		10	
MMT-5	TMS	MEA	5	14	CYL	1k	200k	2.9	70	120		4h	
MMT-6	TMS					10	1000	2.9	70	120		50	
KMT-8	TMS					100	10k	4.6	40	60			
MMT-8	TMS	COM	22	23	DSC	1	1000	2.9	40	60		10	
T8D	TMS		8	3	CYL	150					10	15	20
T8E	TMS		8	3	CYL	150					7	10	30
T8M	TMS		8	3	CYL	200					9	11	66
T8R	TMS		8	3	CYL	125					7	12	10
T8S1	TMS		8	3	CYL	120					9.5	24	10
T8S1M	TMS		8	3	CYL	120					9.5	24	10
T8S2	TMS		8	3	CYL	150					8	19	12
T8S2M	TMS		8	3	CYL	150					8	19	12
T8S3	TMS		8	3	CYL	150					7	23	10
T8S3M	TMS		8	3	CYL	150					7	23	10
MMT-9	TMS	COM	<3	19	DSC	10	5000	2.9	60	120		10	
T9	TMS		8	3	CYL	125					7	19	10
KMT10	TMS	CON	30	6	CYL	100k	3M	5.1	0	120		2h	
KMT-11	TMS	CON	<4	<1	CYL	100k	3M	5.1	0	120		2h	
KMT-12	TMS					100	10k	4.6	40	120			
MMT-12	TMS					5	5k	2.9	40	120		3	
MMT-13	TMS		9		DSC	10	2200	2.9	60	125	0.3		
KMT-14	TMS	MEA	4	80	CYL	510	7500	4.5		300		1h	
KMT-17	TMS		5		DSC	300	20k	4.2	60	155	0.1	5h	
TKP-20	TMS	POW	33	68			500	2.0				2h	
STI-21	TMS					10k	100k		60	85		60	
TKP-50A	TMS	POW	33	68			2000	2.3				2h	
TKP-50B	TMS	POW	33	68			750	2.3				2h	
TKP-300	TMS	POW	33	68			10k	3.5				20	

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

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

Type No.		Kind	Radiation	Quenching	Cathode	Dimensions Lth mm	Dimensions Diam mm	Plateau Min V	Plateau Max V	Maximum Rate 10^3/min	Maximum Plateau Width V	Maximum Plateau Slope %V	Temp Min (−)°C	Temp Max (+)°C	Cap pF	Min R_i MΩ
SNM–3	*	COU	NEU	SQ	SS	130	42	1400	1800		100	0.01	10	30		10G
SNM–5		COU	NEU	SQ	SS	300	35	1200	1800		100	0.05	20	30		
SNM–7		COU	NEU	SQ	SS	650	35	1800	2500		100	0.05	0	30		
SNM–8	*	COU	NEU	SQ	SS	10h	94	2000	2500		150	0.05	0	30		10G
SNM–9	*	COU	NEU	SQ	SS	133	1	1100	1500		1k	0.05	0	50		
STS–1		COU	GAM	SQ	FE	94	16	280	320	60	80	0.12	40	50	10	5
STS–2		COU	GAM	SQ	FE	180	24	285	335	40	80	0.12	40	50	10	5
STS–3		COU	GAM	SQ	FE	265	23	285	335	30	80	0.12	40	50	10	5
STS–5		COU	BET	SQ	FE	113	12	285	335	200	80	0.12	40	50	10	5
STS–6		COU	BET	SQ	FE	200	22	285	335	60	80	0.12	40	50	10	5
STS–8		COU	GAM	SQ	FE	220	23	285	335	40	80	0.12	40	50	10	5
T20BFL		COU	AAB			7	20	1200	1300		300	0.01	20	40		
T25BFL		COU	AAB			7	25	1300	1400		300	0.01	20	40		
T30BFL		COU	AAB			7	30	1400	1500		300	0.01	20	40		
T40BFL		COU	AAB			7	40	1500	1600		300	0.01	20	40		
T50BFL		COU	AAB			7	50	1500	1600		300	0.01	20	40		
T60BFL		COU	AAB			7	60	1900	2000		300	0.01	20	40		
T80BFL		COU	AAB			80	90	2000	2100		300	0.01	20	40		
VS–4		COU	GAM	SQ	W	180	23	720	800	25	200	0.07	40	50	25	8
VS–6		COU	GAM	SQ	W	266	23	720	800	25	200	0.07	40	50	25	8
VS–8		COU	GAM	SQ	W	185	16	720	800	25	150	0.07	40	50	25	30
VS–9		COU	GAM	SQ	W	367	33	720	800	25	250	0.07	40	50	25	8
VS–9T		COU	GAM	SQ	W	367	33	720	800	25	200	0.1	40	150	25	8
VS–11		COU	GAM	SQ	W	185	33	720	800	25	200	0.07	40	50	25	8
VS–13		COU	GAM	SQ	W	100	23	720	800	25	150	0.07	40	50	25	8
VS–14		COU	GAM	SQ	W	160	23	720	800	25	200	0.07	40	50	25	8
VS–16		COU	GAM	SQ	W	250	23	720	800	25	200	0.07	40	50	25	8
S110N	*	COU	NEU		SS	270	<20	2850	2950		100	0.1	10	100		1G
SNMU–5	*	COU	NEU	SQ	SS	300	<29	1700	2200		100	0.05	20	30		10G
SNM–10	*	COU	NEU		SS	336	18	1500	3000			0.02	50	150		
SNM–11	*	COU	NEU		SS	336	18	1500	3000			0.01	50	150		
SNM–12	*	COU	NEU		SS	215	8	500	700			0.05	50	100		
SNM–13	*	COU	NEU		SS	85	8	450	600			0.05	50	100		
SNM–14	*	COU	NEU		SS	153	18	1500	3000			0.02	50	150		
SNM–15	*	COU	NEU		SS	21h	150	1800	2300	5		0.03	30	40		
SNM–16	*	COU	NEU		SS			2000	2800			0.03	50	150		
SNM–17	*	COU	NEU		SS			2000	2800			0.03	50	150		
SNM–18	*	COU	NEU		SS	320	32	1350				0.01	40	50	7	
SNM–20	*	COU	NEU		SS	270	<20	1700	2200			0.05	10	100		1G
SNM–30	*	COU	NEU		SS			1800	2800			0.02	50	150		
SNM–31	*	COU	NEU		SS			1800	2800			0.02	50	150		
SNM–32	*	COU	NEU		SS	323	19	1500	3000			0.02	50	150		
S1–9A	*	COU	ALP			70	44	360	400		60	0.2				
S1–11N	*	COU	NEU			314			2950		200	0.05				
SRM–1N	*	COU				274	52		300							

Group XXII – DISCHARGE DIODES

Type No.		Dimen Lth mm	Dimen Diam mm	Gas	Cath Type	Cath Kind	Firing Min V	Firing Max V	Pulse I-amp J-joule	Pulse Time s	Pulse Operating frequency pps	Min inter res MΩ	Max cap pF	Amb temp Min (−)°C	Amb temp Max (+)°C
R-1	*	16	24		C			2 k			10			60	100
R-2		17	16.5		C		1300	2 k			600	20		50	80
R2M	*	12	16		C			2 k			10			60	200
R-3	*	70	21.5		C	BA0		600	140	8μ	300	100	1	60	70
R-4	*	20	7.5		C	BA0		75						60	50
R-5	*	41	22		C	BA0	160	250				100		60	100
R-6	*	110	55		C	WNB		800	2 kW		200M	100	<3	60	100
R-7	*	50	18	HK	C	BA0	270	330			2	20	10	60	100
R-8	*	50	20	HK	C	BA0	450	550			2	20	10	60	100
R-9	*	55	20	HK	C	BA0	900	1100			2	20	10	60	100
R-10	*	55	24	HK	C	BA0	1350	1650			2	20	10	60	100
R-11	*	137	40		C	NI	2250	2750	2 hμ					60	100
R-12	*	30	12	AR	C	K	128	192	20	1μ	100	1000		60	70
R-18	*	36	14	AR	C	K		1500	5 hW		650M		<1	60	70
R-21	*	100	24	NA	C		1100	1500	500	30μ	40		60	100	
R-24	*	112	24	NA	C		2000	6700	300	1 hμ			60	100	
R-54							7200	9800							
R-350	*	62	20	AR	C	NI	310	390	3	2	0.002	5 k	10	50	70
R-450		62	20	AR	C	BA	440	480	3	2	0.002	5 k	10	50	50
RB-1		52	19		C	BA	150	190				400			
RB-2	*	25	19		C	BA		220	50	15μ	50	100	<1	60	85
RB-3	*	41	22		C	BA	220	235	30	1 hμ	7	100		60	100
RB-5	*	60	16		C	BA	340	460	10 J		1	200		60	70
RB-5A		60	16		C	BA	370	510	<1 J		8			60	50
RB-90		62	17.5	NA	C	BA	80	100	30m	2	0.005	100	100	60	70
RB-280	*	210	95	AR	C	BA	250	310	30	10	0.002	40	20	60	70
RB-350		210	95	AR	C	BA	310	390	30	10	0.002	40	20	60	70
RB-430		210	95	AR	C	BA	390	470	30	10	0.002	40	20	60	70
SK-127		37	20	NA		MG		72	1	20	1				
SK-220		37	20	HE				140	<1	20	1				
4378D	*	62	17		C	BA	80	100					100	60	70

Group XXIII – DECATRONS

Type No.		Kind	Voltages Ep Min V	Voltages Typ Firing V	Voltages Typ Oper V	Voltages Typ K-K V	Voltages Pulse reset Min V	I_K Max mA	Pulse Min μs	Counting Rate Min Hz	Counting Rate Max Unit	Counting Rate Max Exp	Dimen Lth mm	Dimen Diam mm
A101	*	DEC	420	375	150	40	150	0.45	200	.01	10	3	76	34
A102	*	DEC		430	210		165	1.5		.01	10	3	76	34
A103	*	DEC		430	275		140	0.85		50	10	3	76	34
A106	*	DEC		420	295		110	1.4			10	5	76	34
A107	*	DEC		440	290		50	1.75			10	6	38	18
A108	*	DEC		250	135		18	0.75		15	10	3	38	18
OG-1		DEC	450	300	150	50		1.3	40		8	3	76	34
OG-2		DEC	450	300	150	50		1.3	60		3	3	76	34
OG-3		DEC	460	420	190	40		0.7	18		20	3	83	30
OG-4	*	DEC	425	420	175	35		0.5	160	.01	2	3	76	30
OG-5		DEC	400	350	175	60		1.3	35		10	3	76	34

Group XXIII–A – CHARACTER AND NUMERICAL INDICATORS

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

Group XXIV – LIGHT AMPLIFIERS

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

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

Base No.	Section 1										Section 2							A_3	Sec 4		A_5	Deflection 1				Deflection 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A		K	A		D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
P19	2	7		4	5	3			CP																				
P20	4	5	1	2	8	9			7																				
P21	4	5	3	1	6	3			CP																				
P22	2	6	1	7	3	8			4																				
P23	2	7	3	5	8	3			1																				
P24	4	9	1	7	2	1			10																				
P25	4	5	9	1	7	2	8		3																				
P26	4	9	1	10	6	1			3																				
P27	2	6	3	4	5	3			1																				
P28	2	4	6	7	1	6			3																				
P29	3	4	6	7	2	5			1																				
P30	3	6	4	1	7	4			5																				
P31	4	5	7	1	2	8			6																				
P32	4	5	9	6	7	1			3																				
P33	4	5	1	2	9	8			7	8																			
P34	4	5	6	7	3	8	2		1																				
P35	4	5	3	2	8	9	1	3	6								7												
P36	4	9	1	10	6	7			3																				
P37	4	5	6	8	1	7	3	2	9																				
P38	4	5		7	2	1			CP																				
P39	3	7	4	CP	5	2			1																				
P40	4	5	3	2	1	3			9																				
P41	3	10	12	7	4	12			1																				
P42	1	2		6	5	4			CP	3																			
P43	1	2		6	5	2			CP	2																			
P44	4	5	1	7	2	1			CP																				
PD3	4	5	1	2	9	7			6								8												
PD5	2	7	1	5	4	1			3								6								CP				
PD6	2	7	8	CP	6	1			3								4	5											
PD7	4	5	2	1	7	2			6					3		2	8												
PD8	6	8	3	1	2	3			CP					5		3	CP												
PD9	4	5	6	7	3	6			1								9												
PS1	1	8	6	7	5	2			3	4																			
PS2	1	7		6	3	4			2	5																			
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PS4	4	5		3	7	1			CP	2																			
PS5	4	5	6	7	3	2			1								9												
PS6	1	7		4	6	2			CP																				
PS7	2	7	8	5	4	8			CP																				
PS8	2	7		4	5				CP																				
PS9	4	5	3	7	2	3			1																				
PT1	3	5		2	1	6			4		5	7		8			9												
PT2	7	8	6	CP	3	6			2					5			4												
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PT8	4	5	7	2	3	7			6					9			1												
T1E	4	5	1	2	9				7	8																			
T1S	1	4		3					CP																				
T2E	4	5	1	8	CP				9						C		3												
T2S	4	5	1	2					7																				
T3E	10	12	7	4	1				CP																				
T3S	1	4	5	3					2																				
T4S	4	5	1	8					CP																				
T10	2	6		5					7																				
T11	1	7	2	4					CP																				
T12	3	7	4	2					1																				
T13	2	7	1	8					5																				
T14	5	10	1	3					7																				
T15	4	5	1	9					CP																				
T16	1	7	3	5					4																				
T17	1	6	3	7					2																				
T19	3	8	2	4					1	5				9			6												

Base No.	Section 1										Section 2							A_3	Sec 4		A_5	Deflection 1				Deflection 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A		K	A		D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
T20	3	9	1	2	4				5	6				8	1		11												
T21	5	10	1	3					4	2				8			9												
T22	3	4	2	5	1				6																				
T23	3	4	2	1					6																				
T24			1	4					CP																				
T25	4	8	2	5					1																				
T26	4	8	6	3					1																				
T27	4	8	6	1					3																				
T28	5	7	1	3					6																				
T29	2	4		3					1																				
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T31	2	3	5	4					1																				
T32	10	12	7	4					1																				
TD1	4	8	6	7					1					3			5												
TD3	2	7	8	CP					3								4	5											
TD6	3	8	2	4					1					9			6												
TE1	1	6	4	8	5				2																				
TE2	1	7		2	CP				4																				
TE3	4	5		8	2				3						C		9												
TE4	1	3		2	4				CP																				
TE5	1	3		4	2				CP																				
TE6	2	7		5	4				CP																				
TE7	1	7	7	3	6				CP																				
TE8	1	2	5	6	9				CP																				
TE9	4	5	1	9	8				CP																				
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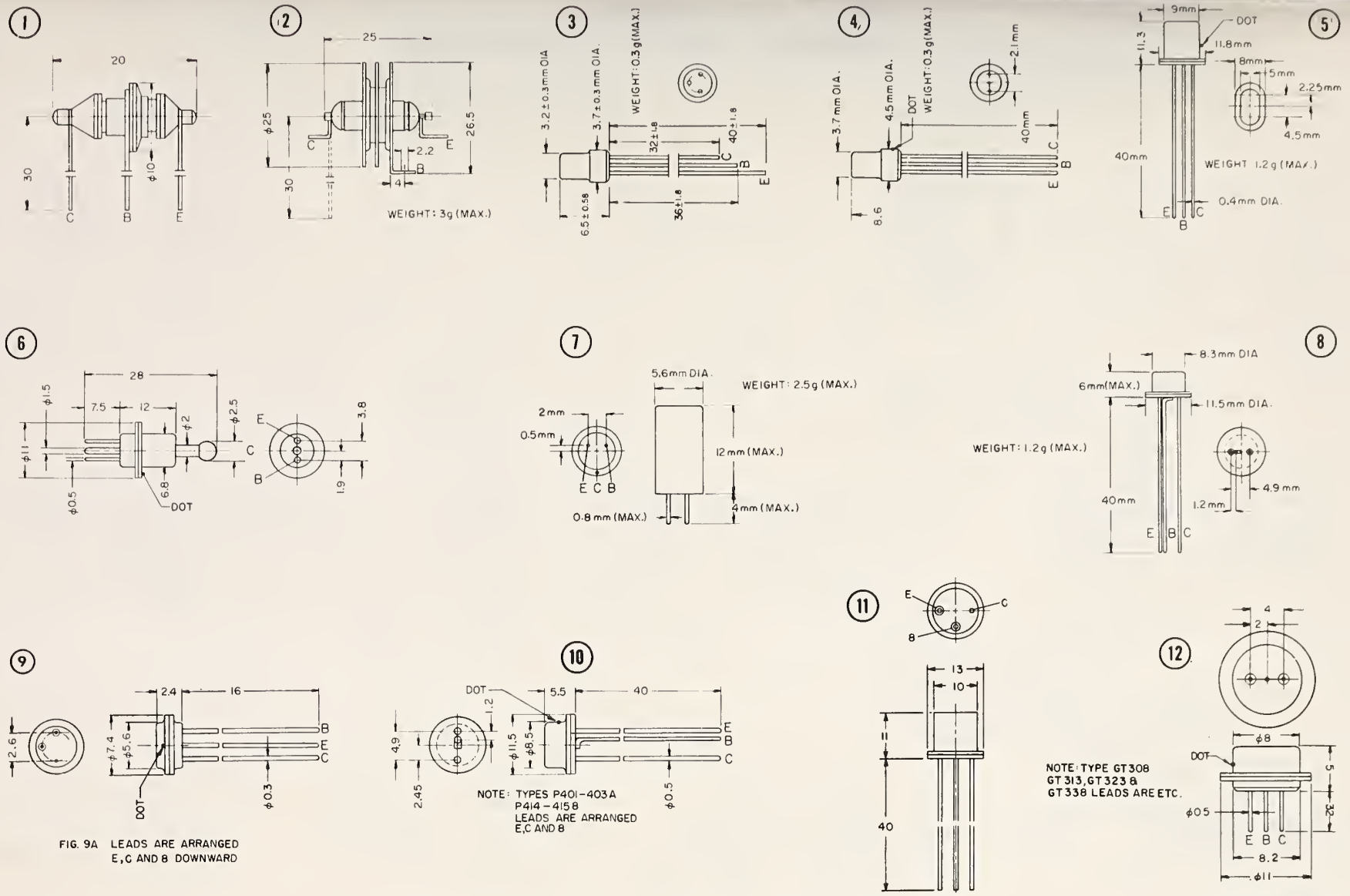
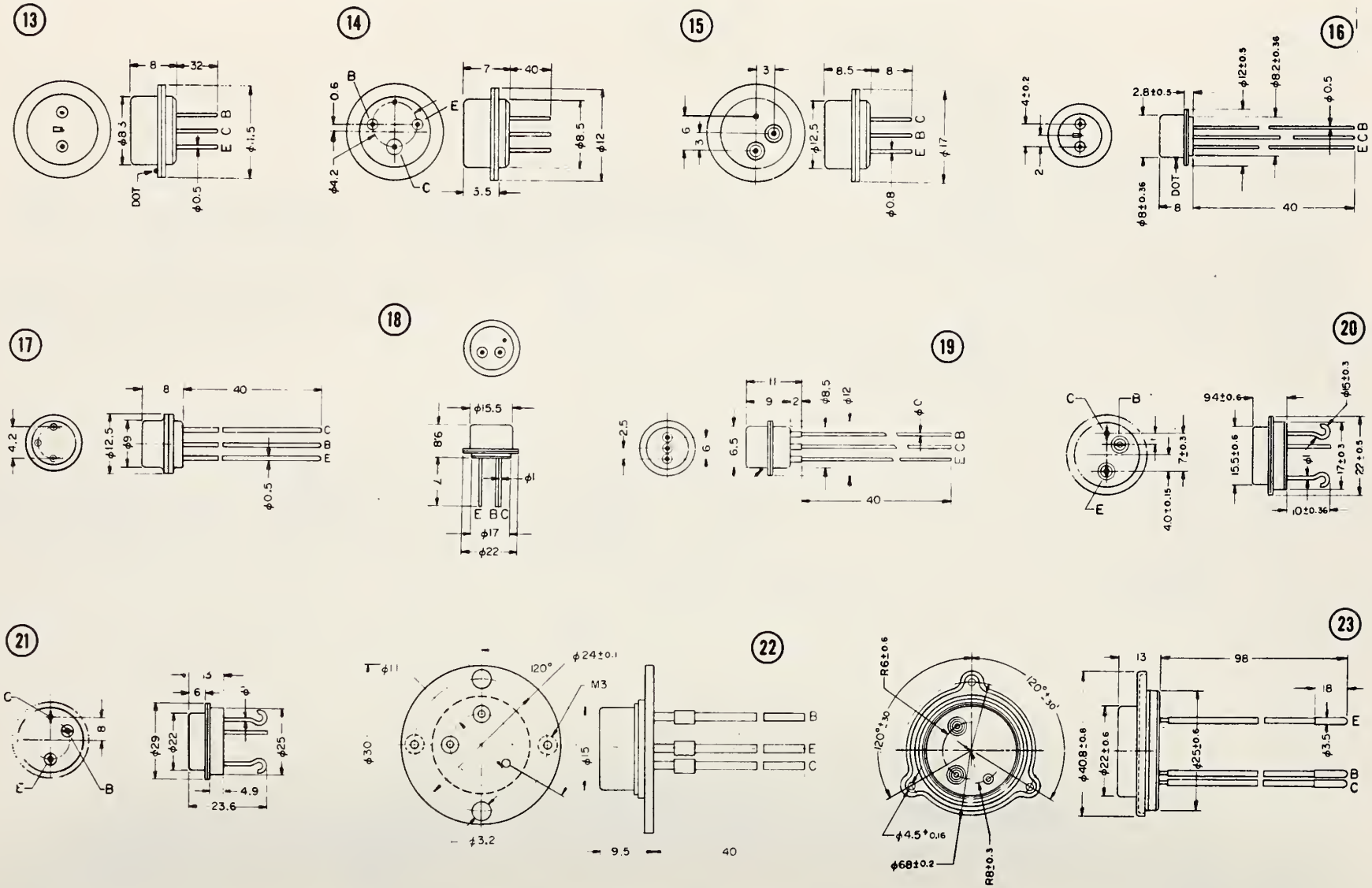
TS6	2	6	3	5					4																				
TS7	4	5	9	2					1																				
TS8	2	7	1	5					CP	3																			
TS9	2	7		CP					CP																				
TT1	4	5	7	8					9								1	6	3	2									
4AC	2	7	7						CP																				
4AJ			2						5	3																			
4BB	2	7	8	CP					CP																				
4BQ	2	7	8						3																				
4D	1	4		3					2																				
4F	1	3		4					2																				
4G	1	4	3						2																				
4T2	1	2		4					CP																				
5AA	2	7	8						5																				
5AW	1	5	4	3	2	4			CP																				
5BT	2	7	3	5	8	3			CP																				
5CL	3	5		4	2	5			1																				
5F	1	5	4	CP	3	4			2																				
5M	2	7	8	CP					4																				
5S	2	7		5					3																				
5Y	2	7		CP	4	7			3																				
6AR	1	7		6	3	5			2																				
6AU	1	7		6	4	1			5									3											
6BT	3	4	5						2	6							7												
6BY	2	7	3	CP					CP																				
6CC	3	4	2	1	6	2			5																				
6F	1	6	5	CP	3	4			2																				
6Q	2	7	8	5					3	1																			
6X	2	7		5	4	7			3																				
7AB	2	7		4					3					5			6												
7AT	1	7		4	3	6	3	1	2																				
7AV	1	7		3	4	5			1																				
7BA	1	7		3	4	5			2																				
7BD	3	4	2	1	6	7			5																				
7BF	3	4	7	5					2					6			1												

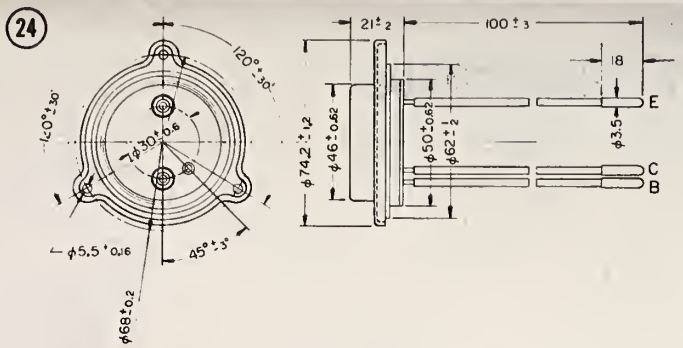
Base No.	Section 1										Section 2							A_3	Sec 4		A_5	Deflection 1				Deflection 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A		K	A		D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
7BK	3	4	7	1	6	2			5																				
7BP	1	7	4	2	3	4			CP					6		4	CP												
7BQ	3	4	2	1					7																	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

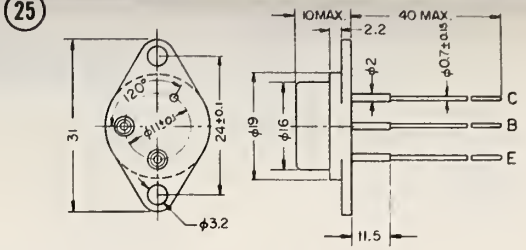


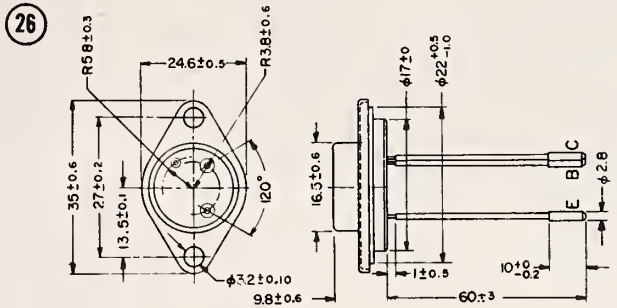
TRANSISTOR OUTLINE DRAWINGS

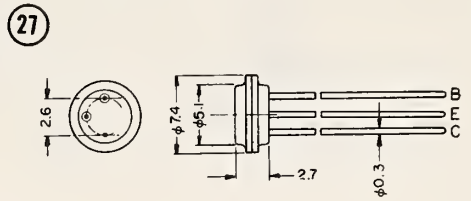
GROUP X

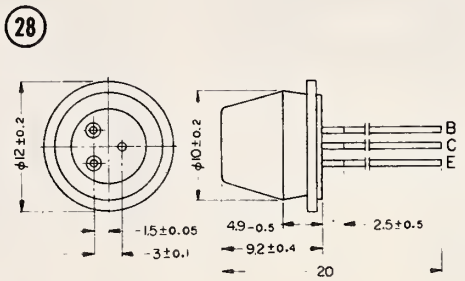

13
14
15
16
17
18
19
20
21
22
23
DOT
E C B
B E C
E B C
C B E
ECB
TRANSISTOR OUTLINE DRAWINGS
(CON'T)

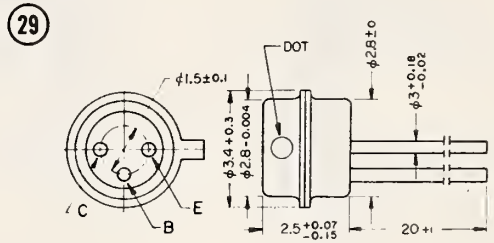








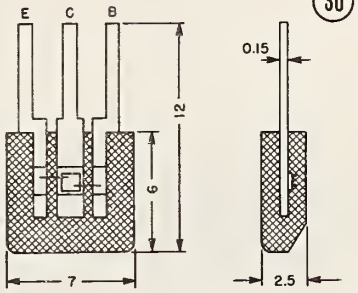




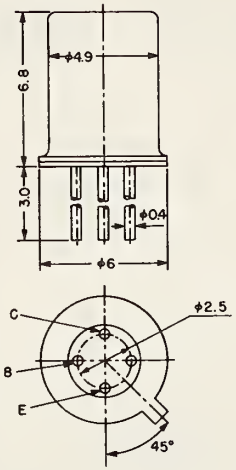
TRANSISTOR OUTLINE DRAWINGS (CON'T)

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

30



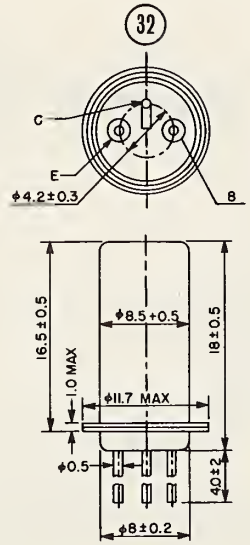
31



NOTE: TYPE KT339 LEADS ARE B,E,C.

TYPE: KP301 LEADS ARE D,G,S.

32



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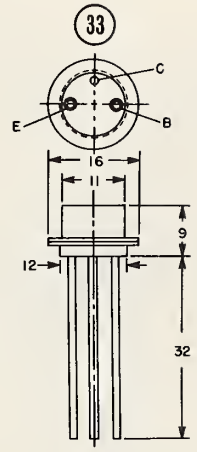
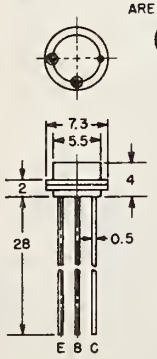
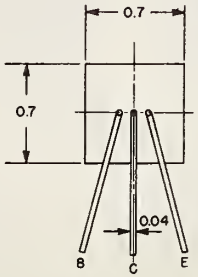


NOTE: TYPE KP101 LEADS ARE GSD

34



35



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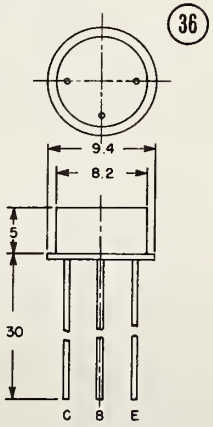
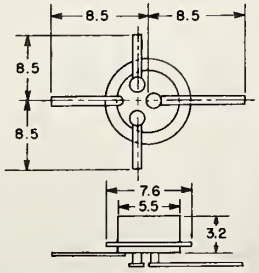
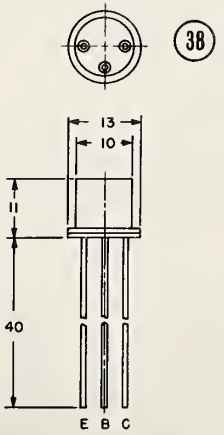


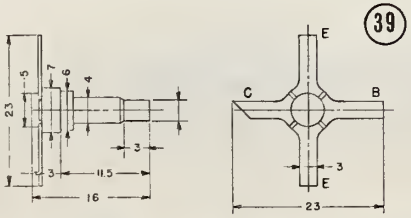
37



38



39



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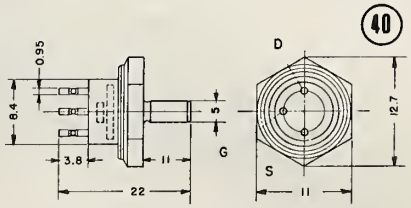
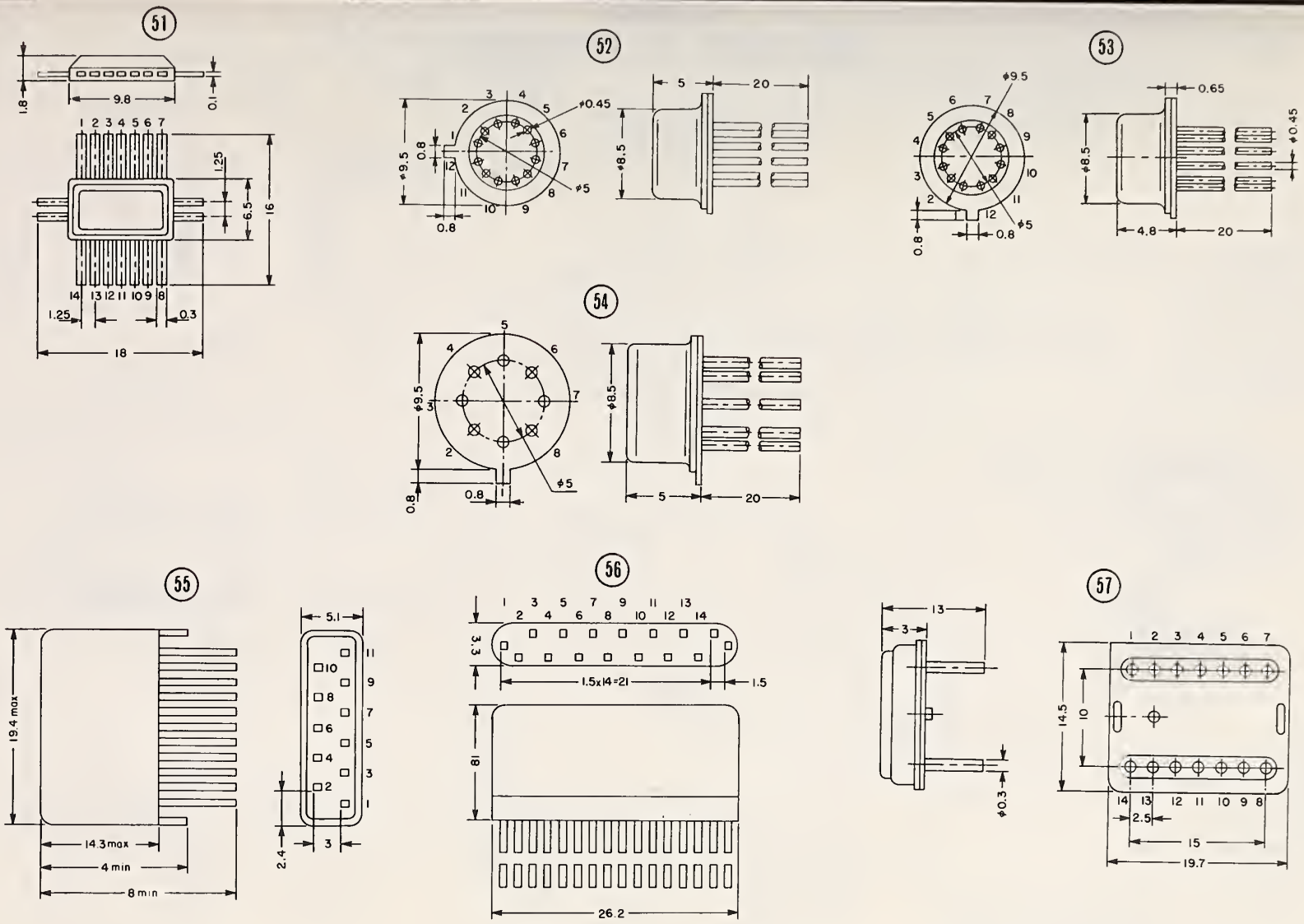
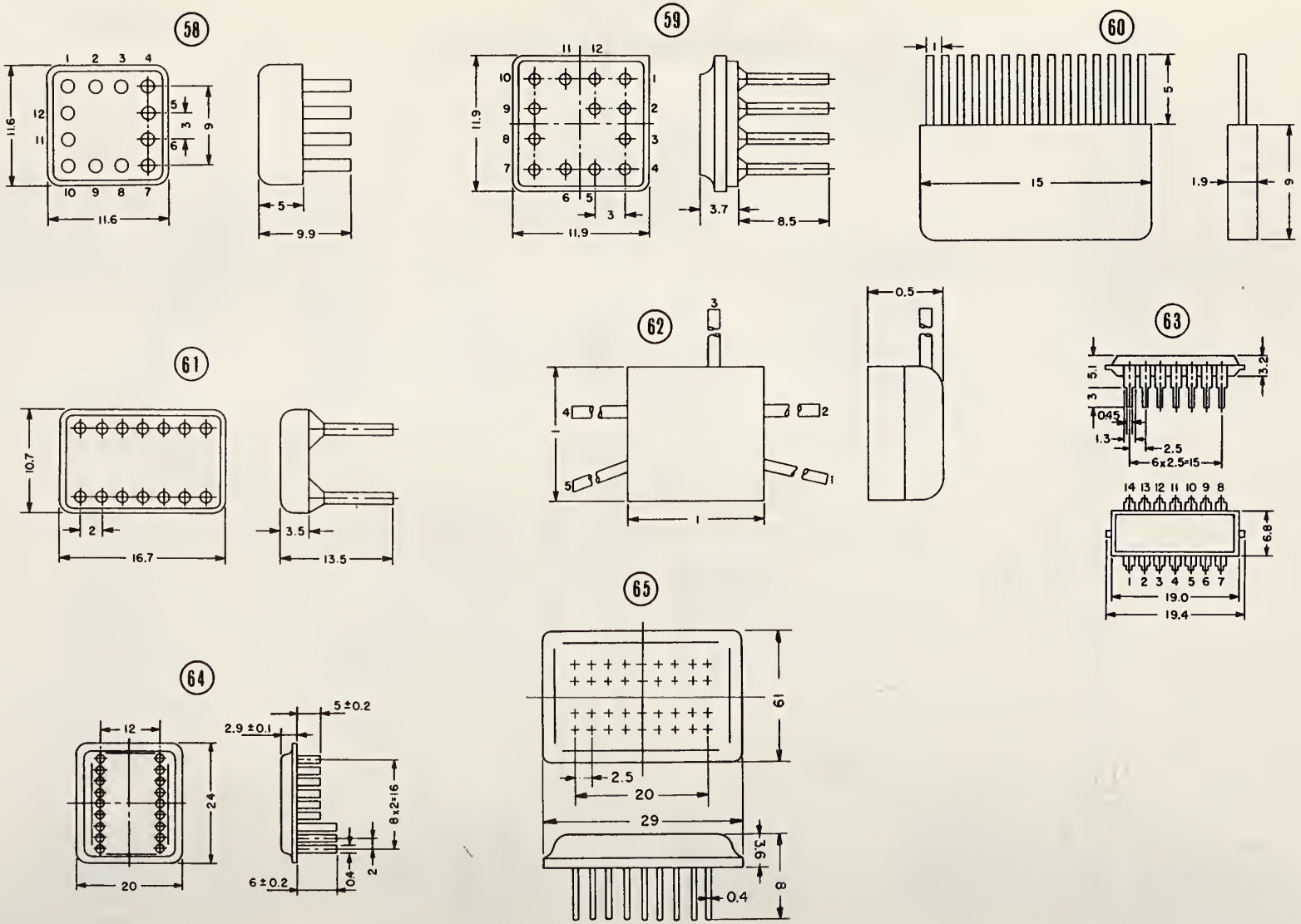


TRANSISTOR OUTLINE DRAWINGS (CON'T)



INTEGRATED CIRCUITS

(CON'T)


58
59
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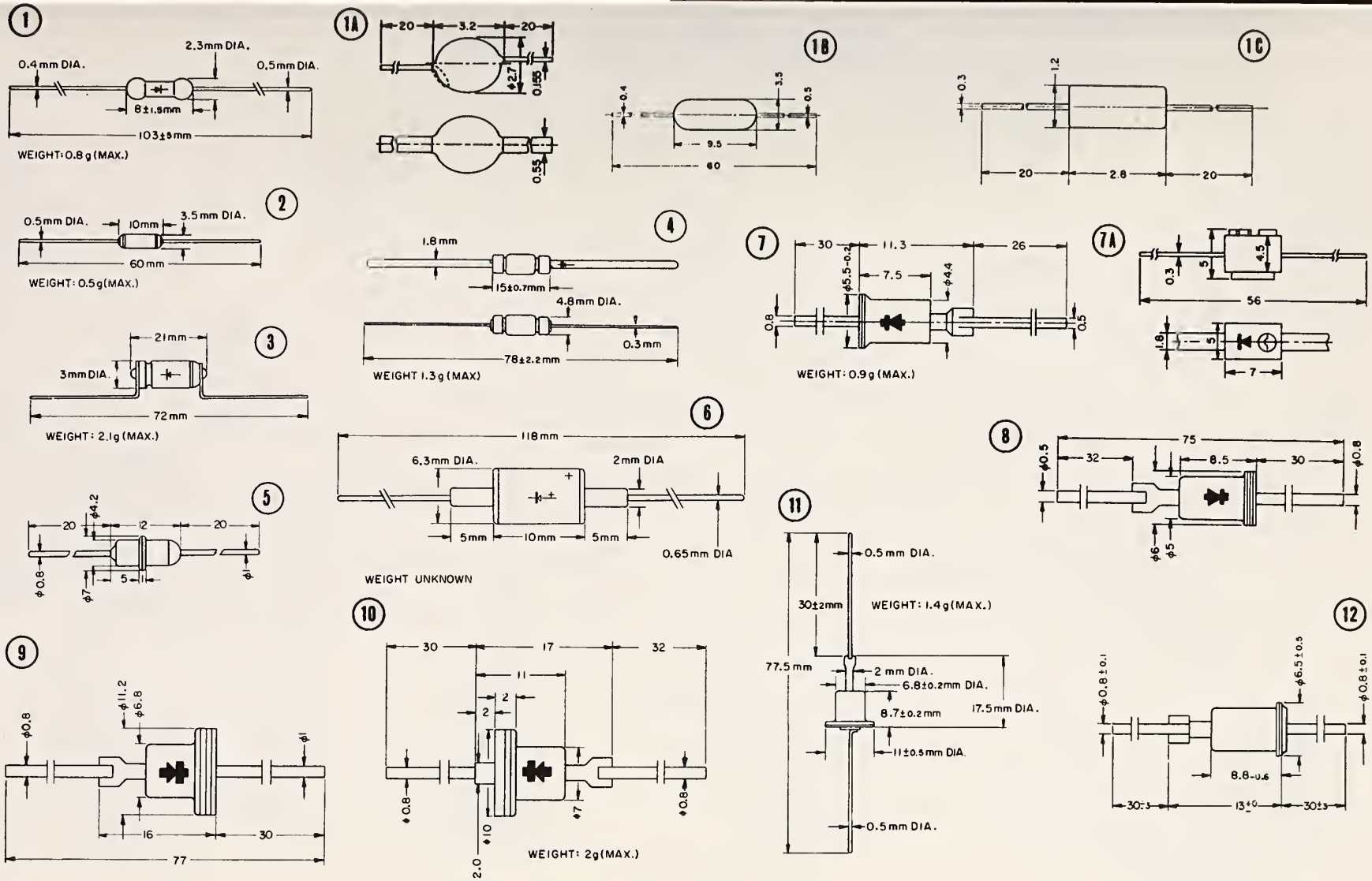
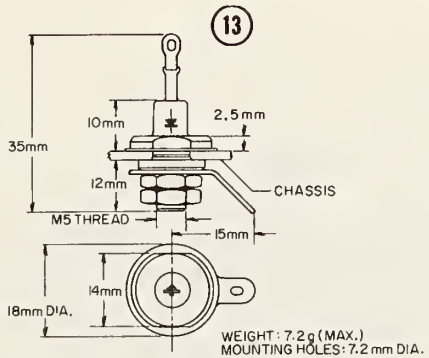
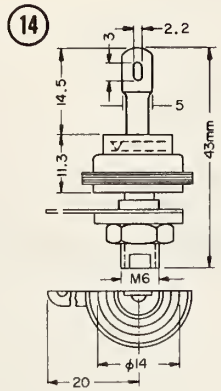
65
INTEGRATED CIRCUITS
(CON'T.)

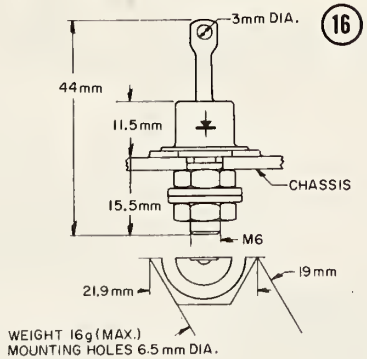


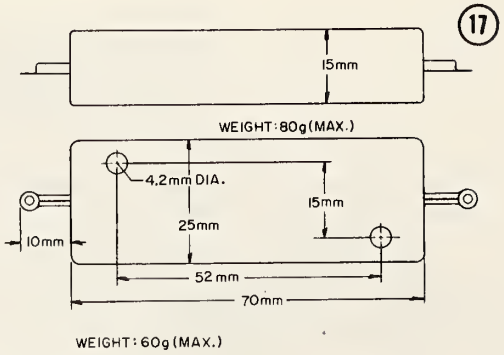
DIODE OUTLINE DRAWINGS

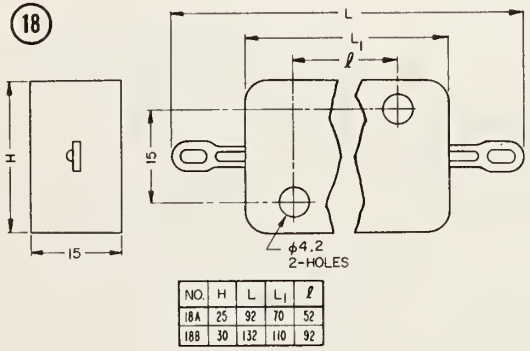
GROUPS XI, XII, XIII & XIV



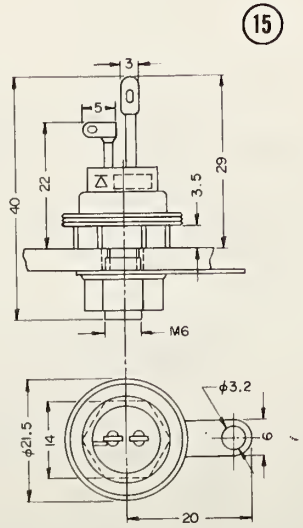


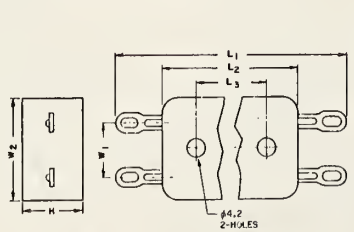




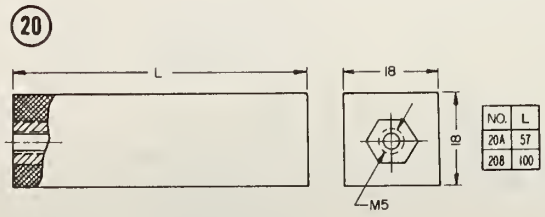


NO.	H	L	L_1	ℓ
18A	25	92	70	52
18B	30	132	110	92

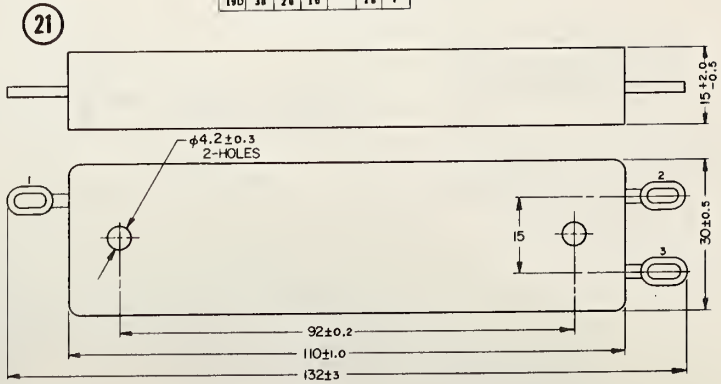




	L_1	L_2	L_3	W_1	W_2	H
19A	92	70	52	25	12	15
19B	92	70	52	25	12	15
19C	132	110	92	50	15	15
19D	38	28	18		18	7



NO.	L
20A	57
20B	100



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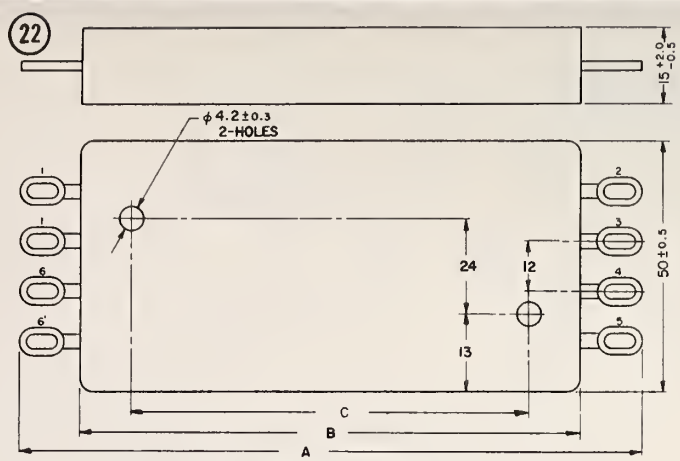
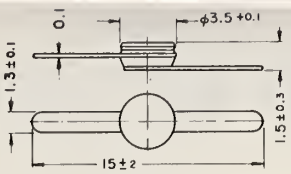
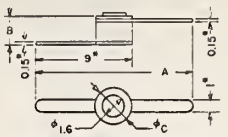
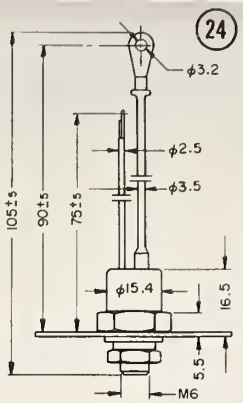


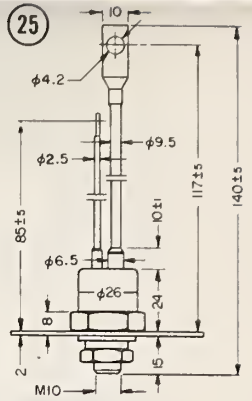
No.	A	B	C
22	62 ± 0.2	80 ± 1.0	102 ± 3
22A	74 —	64 —	52 —



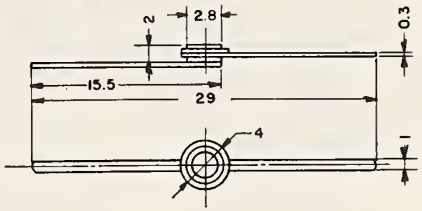


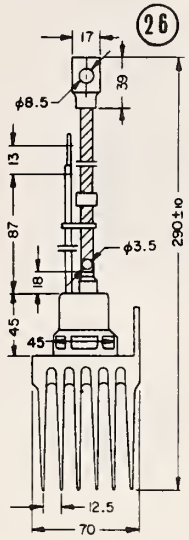
No.	A	B	C
23B	17	1.9±0.3	2.8±0.2
23C	18	2.0 —	4.7 —
23D	29	2.8 —	4.0±0.2

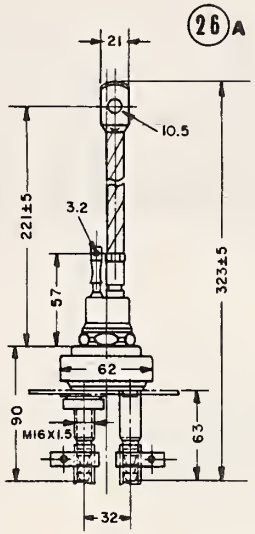


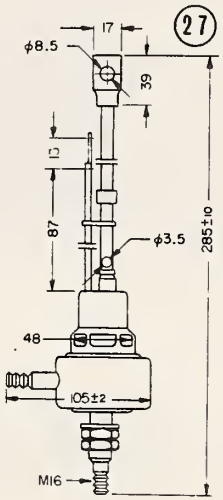


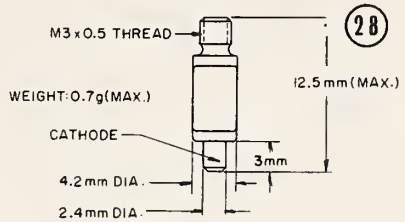
NOTE: SK1 & SK2 DIODES HAVE SAME DIMENSIONS EXCEPT FOR THE THIRD (CONTROL) LEAD

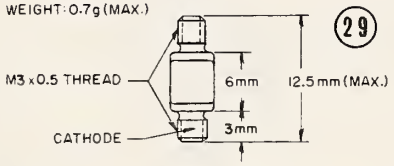


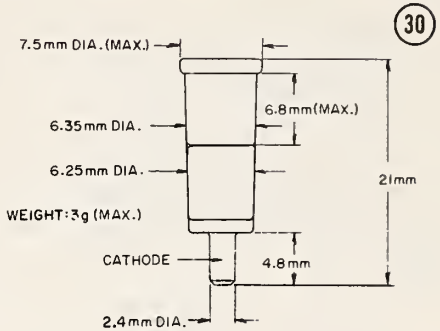


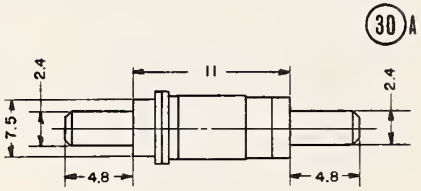












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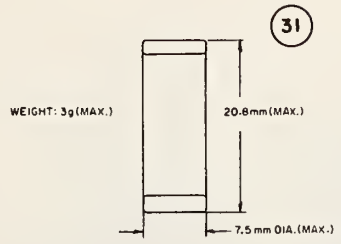

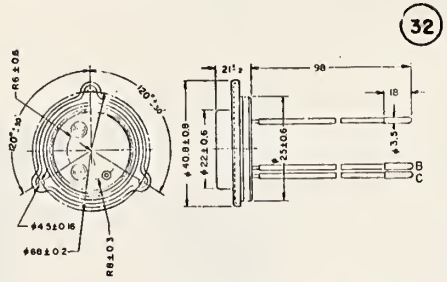

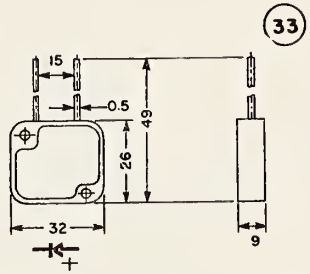

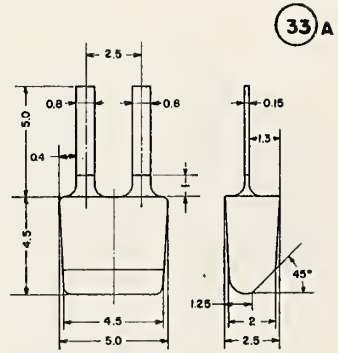

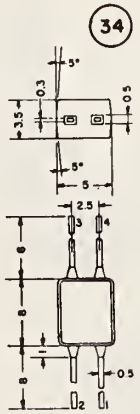

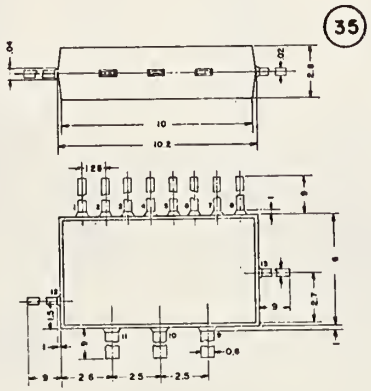

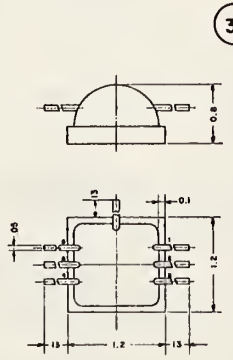

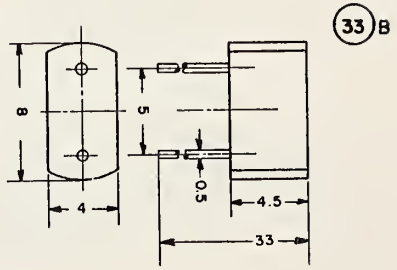

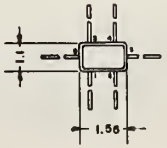

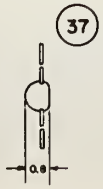

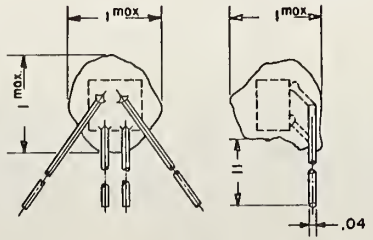

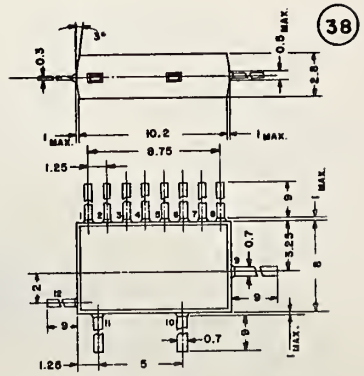

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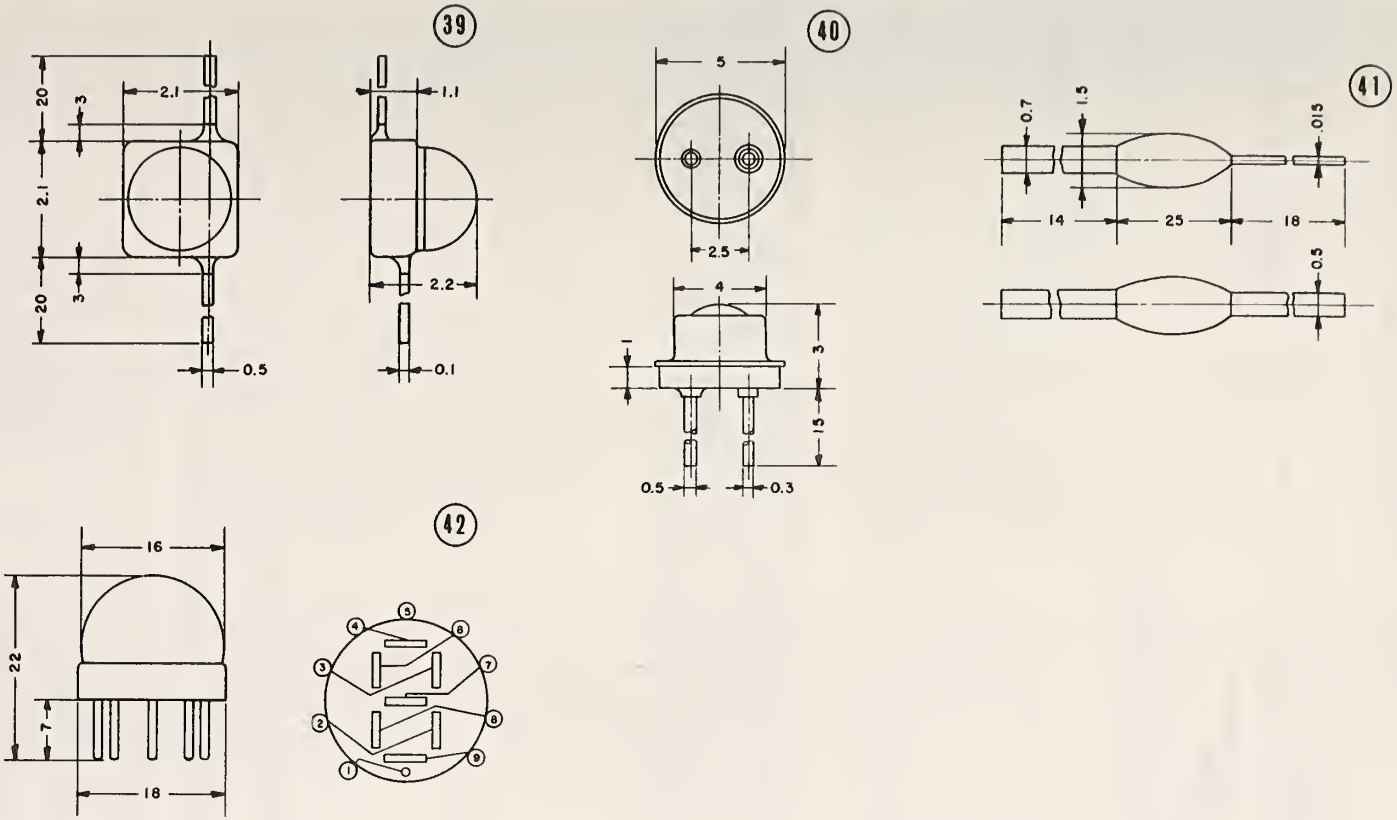

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This tabulation includes published data on U.S.S.R. electron devices as collected from publications, mostly handbooks, published by the various ministries and institutes of the U.S.S.R. Information is given on all active devices ranging from receiving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

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