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NATIONAL BUREAU OF STANDARDS • A. V. Astin, *Director*

Tabulation of Data on Receiving Tubes

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Foreword

This tabulation of data on receiving tubes currently in use has been prepared as part of the National Bureau of Standards Electron Devices Data Service. Established in 1948 to provide technical data on radio tubes to members of the Bureau staff, the service has since been extended to other scientists in government and in industry. In the course of the program, a large volume of information on domestic and foreign tubes has been accumulated on punched cards from which it could be automatically printed. It was felt desirable to make these data available in a single reference source as an aid to circuit designers in selecting tube types for particular uses.

The engineer should find this manual useful in narrowing down the choice of tubes to one or a few types. However, it is not practical to give all possible operating conditions nor to provide the characteristic curves for each tube in a tabulation such as this. It will still be necessary to consult the tube manufacturer's literature for such detailed information.

All information appearing in this publication was taken from manufacturers' published specifications and every effort has been made to ensure accuracy and completeness. However, the Bureau cannot assume responsibility for omissions nor for results obtained with these data.

Additional NBS prepared tabulations which are also available include the following: "Tabulation of Data on Microwave Tubes" NBS Handbook 70 (1961), which represents a listing of foreign and domestic microwave tubes; "Diode Source Book" (published by Semiconductor Products magazine, 1961), which contains charts giving the characteristics of semiconductor diodes, and "Electron Tube Interchangeability Chart" (published by Electronic Industries, 1962).

A. V. Astin, *Director.*

Contents

Tabulation of Data on Receiving Tubes

A tabulation of Receiving-Type Electron Tubes with some characteristics of each type has been prepared in the form of two major listings, a Numerical Listing in which the tubes are arranged by type number, and a Characteristic Listing in which the tubes are arranged by tube type and further ordered on the basis of one or two important parameters. The tabulation is accompanied by a listing of similar tube types and basing connections for the listed tubes.

1. Introduction

The Electron Devices Section of the National Bureau of Standards has developed over the past several years an Electron Devices Data Service. This service attempts to obtain and maintain a file of data on all electron devices, i.e., tubes, transistors, and semiconductor diodes, manufactured in the United States and other countries. In an effort to make this service more readily available to engineers applying electronics in laboratories throughout the country, it was decided to develop a method of tabulating the essential information on these devices in handbook form for ready reference. For this publication on Receiving Tubes, an easily decipherable code and format for the tube characteristics was developed which would be suitable for a punched card system allowing automatic transfer to the printed page. The sources of information were the manufacturers' published handbooks and data sheets. The accuracy of the printed information is reasonably assured by verifying tabulations, by various sortings, and cross checking with manufacturers' publications.

This tabulation includes only the information normally furnished by the manufacturers in their handbooks or data sheets, and includes those tubes generally known as "Receiving Tubes." These include tubes to be found in home entertainment devices, military equipment, general purpose electronic laboratory equipment, etc. The tabulation is limited to tubes with not more than 25 watts plate dissipation and with maximum operating frequency less than 1,000 megacycles per second. One further restriction is that the tubes are currently active types, most of which have been registered with EIA and are produced by foreign or United States manufacturers. These tubes appear in the manufacturers' "New Equipment Price Lists" or are those on which a new or revised data sheet has been issued since 1956. Types listed by manufacturers as "For Replacement Only" or as "Discontinued" types are tabulated only in the Numerical Listing.

The user of this tabulation should be reminded that industry has used various letter suffixes to designate improved versions of a tube type. For example the letter "W" indicates that the type has been improved for military end-use and "WA" and/or "WB" indicate further improvements. Thus the "6AL5W" is an improved version of the "6AL5" and this is continued to the ultimate improved type designation "5726/6AL5W/6097".

To avoid these complex designations, this tabulation lists only the type numbers by which a type is most commonly designated. The user should be cautioned that these versions of a tube may not be bilaterally interchangeable as the improved versions may differ in some physical dimensions or in one or more electrical characteristics.

2. Organization of the Tabulation

The Receiving Tube Tabulation comprises four principal sections as follows:

1. *Numerical Listing.* In this, the tubes are arranged by type number in the numerical-alphabetical sequence which is standard in the industry.

2. *Characteristics Listing.* Here the current tubes are grouped according to the number of electrodes, and within the group they are arranged by increasing value of one or two pertinent characteristics.

3. *Similar Tube Types.* Following each tube listed is one or more types similar to it. Here are found those tubes from sections 1 and 2 which are coded as having similar types available, together with some older tubes not included in sections 1 and 2 but which are similar to a current listed tube.

Tubes which are identical in all respects except heater ratings, e.g., 3BE6, 4BE6, 12BE6, etc., have been omitted from the similar tubes list since they are obviously similar types and may be found by turning to the characteristics listing where they will be found in a group or in close proximity to one another.

4. *Electronic Industries Association (EIA) Base Connections.* This section shows the base connections in tabular form for the EIA Base Numbers shown in the Numerical and Characteristic Listings. This tabular form contains all the information shown in the normal basing diagram and specifically indicates the use for each base pin. Initial confusion at this method of display will be more than compensated by the ready applicability of the specific information contained in this tabular form.

The format has column headings of the base pin numbers up to twelve and one column for a top cap or external connection. Under these headings, is printed the symbol for the tube element or elements corresponding to the pin number for

each base number. The code for the symbols is shown below:

H	Heater
F	Filament
HCT	Heater Center Tap
FCT	Filament Center Tap
K	Cathode
G1, G2, etc.	Grid Number
P	Plate
D	Deflector
T	Target
IC	Internal Connection
IS	Internal Shield
SH	Shell, Sleeve, etc.

A prefixed number is used before the code letter to indicate the section number of the tube (e.g., the two sections in a twin triode) and a postfixed number to indicate the number of the element in a section. In those cases in which an element is common to more than one section, no prefixed number is used (e.g., a single common screen grid, G2 in a twin pentode).

A blank in the column of a pin number indicates that there is no pin in the base or that the pin has no internal or external connection.

3. Sorting and Terminology of the Tabulation

To assist the user in understanding and applying the tabulation, the method of sorting and the definition of terms and abbreviations are explained in this section.

3.1. Sorting Methods

The Numerical Listing is arranged in numerical-alphabetical sequence by tube type number. In the Characteristics Listing the tubes are arranged in 46 groups by tube structure. Within these groups the tubes are arranged according to increasing value of one or two important parameters and finally by tube type number.

Given below are the groups into which the tubes are arranged and the characteristics by which the tubes are sorted within a group, e.g., all of the single triodes are grouped together, and are arranged in order of increasing value of "μ". Where two or more tubes have the same μ, these are then arranged by increasing value of "gm". Tubes with identical values of both μ and gm are then sorted by type number.

Group heading	Characteristics sorted on		
	Primary	Secondary	Tertiary
1. Regulator, Single Diode, Cold Cathode. 2. Regulator, Single Diode, Filamentary Cathode. 3. Reference, Single Diode, Cold Cathode.	E_b*	I_b*	Type No.
4. Rectifier, Single Diode, Cold Cathode. 5. Rectifier, Single Diode, Filamentary Type. 6. Rectifier, Single Diode, Heater Type. 7. Damper, Single Diode	E_{px}*	I_b	Type No.
8. Diode, Twin, Cold Cathode 9. Diode, Twin, Filamentary Type. 10. Diode, Twin, Heater Type 11. Diode, Multiple 12. Diode with Triode	E_{px}	I_b	Type No.
13. Diode, Twin, with Triode 14. Diode with Tetrode 15. Diode, Triple, with Triode 16. Diode with Pentode	E_{px}	I_b	Type No.
17. Triode, Single 18. Triode, Twin 19. Triode, Dual Dissimilar 20. Triode, Triple 21. Triode with Diode 22. Triode with Tetrode 23. Triode with Beam Type 24. Triode with Pentode 25. Triode with Hexode 26. Triode with Pentagrid	μ	gm	Type No.
27. Tetrode, Single 28. Tetrode, Twin 29. Tetrode with Diode 30. Tetrode with Triode	gm	Type No.	
31. Beam, Single 32. Beam, Twin 33. Beam, Miscellaneous 34. Beam with Triode 35. Pentode, Single 36. Pentode, Twin 37. Pentode, Dissimilar 38. Pentode with Diode 39. Pentode with Triode	gm	r_p	Type No.
40. Pentagrid, Single 41. Pentagrid with Triode	gm	r_p	Type No.
42. Hexode, Single 43. Hexode with Triode	gm	Type No.	
44. Thyratron, Triode Type 45. Thyratron, Tetrode Type	E_{px}	I_b	Type No.
46. Indicator, Electron Ray	E_b	I_b	Type No.

*E_b and E_{px} used for sorting are the maximum values, I_b is the typical value.

3.2. Terminology

The Numerical and Characteristic Listings are in tabular form containing 22 columns. The headings of these columns and their meanings are given below.

A blank in any column indicates that the characteristic designated by the column is not applicable to the tube in question or that no value was given in the available data.

Definitions

Type Number. This column lists the numerical-alphabetical designation assigned to the tube type by the manufacturer.

Code. A letter "S" indicates that this tube is similar to some other type. Such a tube will be found in the Similar Tubes List on pages 109 through 117 with its similar types. It is to be noted that these tubes are similar, not necessarily equivalent or directly interchangeable.

An asterisk (*) in this column indicates that the tube is on the Military Preferred List issued by the Department of Defense as "Military Standard Electron Tubes; Selection and use of", MIL–STD–200F, 15 March 1962.

A plus sign (+) is used to designate a tube not on the Military Preferred List but which the

manufacturer refers to as a ruggedized, reliable, or premium type.

In the Numerical List the letters "OBS" have been used to indicate that these tube types were not found on any manufacturers current price list and are thus considered as "replacement only" types and as such should not be considered in the design of new equipment. These will not appear in the Characteristics Listing but have been included in the Numerical List for reference only.

Kind. An easily decipherable three letter symbol is used here showing the tube to be a diode, triode, beam pentode, etc.

BEA	Beam
DIO	Diode
DWD	Double Diode
GTB	Gated Beam
HEX	Hexode
PDD	Pentode—Diode
PND	Pentode
PTG	Pentagrid
SHB	Sheet Beam
TDI	Triode Dissimilar
TET	Tetrode
TRD	Triple Diode
TRI	Triode
TRT	Triple Triode
TTR	Twin Triode
TWP	Twin Pentode

Type. A three-letter symbol is used to amplify the characterization under "Kind." Thus a tube is designated as single, twin, or combined with some other type in a multiple structure, in one envelope.

NOTE: A tube containing two or more different structures in one envelope will be listed once for each such structure in the Numerical Listing and once in each appropriate group in the Characteristic Listing, e.g., the 6X8 is listed as a triode with a pentode section and also as a pentode with a triode section. The data given on any one line refers to the section of the tube as designated in the column headed "Kind."

DIO	With Diode
DIS	Dissimilar (as applied to Dual Triodes)
DSD	Dissimilar with Diode
DTR	With Dissimilar Dual Triode
DWD	With Double Diode
GTB	With Gated Beam
PDD	With Pentode—Diode
PND	With Pentode
QUA	Quadruple
SIN	Single-Type
SXD	Sextuple
TDI	With Triode Dissimilar
TET	With Tetrode
TRD	With Triple Diode
TRI	With Triode
TTR	With Twin Triodes
TWN	Twin Type

Bulb. Designates the type, size, and shape of the bulb by an alphabetical-numerical code defined as follows:

A. Initial Letter
   - MT—Metal Tubular or Cylindrical Shape
   - S—Indicates the "ST" design, i.e., the domed-conical-body glass bulb
   - T—Glass tubular or cylindrical shape

B. Number—this number multiplied by one-eighth (⅛) inch gives the bulb diameter. Only the whole number is used, thus a T6 ½ bulb is designated T6.

C. Descriptive terms are used for the following:

ACO	Acorn Design
CM	Ceramic-Metal Design
LIT	Lighthouse Design
PC	Printed Circuit Design
PEN	Pencil Design
ROK	Rocket Design

Use. Gives the application for which the tube was developed or is most useful as stated in the manufacturer's data sheet. If a tube is particularly suited to some band of frequencies such as audio, intermediate, very high, etc., it is so designated in this column by AFA, IFA, VHF, etc. Such designation is the only reference to the frequency of operation of tubes in this Tabulation.

AFA	Audiofrequency amplifier
AFD	Audiofrequency Driver
CA	Cascode Amplifier
CON	Converter
DA	Damper
DET	Detector
DIS	Discriminator
EL	Electrometer
GA	Gating Amplifier
GEN	General Purpose
GGA	Grounded Grid Amplifier
HDA	Horizontal Deflection Amplifier
HF	High Fidelity
IFA	Intermediate-frequency Amplifier
IND	Indicator (Electron Ray)
MIX	Mixer
ONA	On-Off Applications (Computer Service)
OSC	Oscillator
PA	Power Amplifier
REC	Rectifier
REF	Voltage Reference
REG	Voltage Regulator
RFA	Radio Frequency Amplifier
SEM	Secondary Emission Tube
THY	Thyratron
TRG	Trigger
UHF	Ultra-high Frequency Amplifier
VA	Voltage Amplifier
VDA	Vertical Deflection Amplifier
VDO	Vertical Deflection Oscillator
VHF	Very-high Frequency Amplifier

Char. Refers to a specific characteristic of the given tube.

GAS	Gas-filled (as applied to rectifiers, regulators, etc.)
HIP	High Perveance
RCO	Remote Cut-off i.e., more than 17 volts
SCO	Sharp Cut-off i.e., 7 volts or less
SRC	Semi-remote Cut-off i e., more than 7 to 17 volts
VAC	Vacuum (as applied to rectifiers)

Reg. Indicates the manufacturer who registered the type with the EIA. In some cases a manufacturer may no longer make a tube which he registered but it was impractical to try to list all companies making a given tube type so the present system was adopted as being fair to all manufacturers.

The not equal sign ($\neq$) is the symbol used to indicate that the original registrant is no longer producing receiving tubes, but the type is currently being manufactured by another company or companies.

AM	Amperex Electronic Corp.
BE	Bendix Electron Tube Products
CG	Canadian General Electric Co. Ltd.
CH	Chatham Electronics
CI	Compagnie Industrielle Francaise
GE	General Electric Co.
HI	Hitachi Ltd.
HY	CBS Hytron
LR	Standard Elektrik Lorenz
MI	Marconi Italiama
MU	Mullard Ltd.
NU	National Union Electric Corp.
PL	Philco (Lansdale)
RA	Raytheon Manufacturing Co.
RC	Radio Corporation of America
RE	Rogers Electronic Tubes Ltd.
RV	Radio Valve Co. Ltd.
SH	Siemens & Halske
SO	Sonotone Corp.
ST	Standard Telephones & Cables Ltd.
SY	Sylvania Electric Products, Inc.
TA	Thorn AEI Radio Valves & Tubes Ltd.
TE	Telefunken G.M.B.H.
TO	Tokyo Shibaura Electric Co. Ltd. (Toshiba)
TS	Tungsol Electric Inc.
VI	Victoreen Instrument Co.
WE	Western Electric Co., Inc.
WH	Westinghouse Electric Corp.

Cath. K. Designates the type of cathode.

C	Cold Cathode
F	Filamentary Cathode
H	Heater type (i.e., unipotential cathode)

E_f. Specifies the nominal heater or filament voltage in volts. In the case of tubes whose heater or filament is center tapped to allow series or parallel operation of the sections, the value given is for series connection.

I_f. Typical heater or filament current in milliamperes.

Max. E_b or E_{px}. Maximum plate voltage permissible in the tube. In the case of diodes and thyratrons the value is the peak inverse voltage which can be applied to the tube.

Max. I_b. Maximum plate current in milliamperes which the tube may pass.

P_p. Maximum plate dissipation of the tube in watts. In the case of twin tubes the dissipation is for one section only, e.g., the 6SN7GTB is listed at a dissipation of 5 watts. The manufacturer gives this as the value for each plate, but with both units operating the total for both plates must not exceed 7.5 watts. For this reason multiple tubes should be checked in the manfacturer's data before operating the tube with maximum dissipation in each section.

E_b. Typical value for the d-c plate or operating voltage in volts.

I_b. Typical d-c anode current in milliamperes for the operating voltage in the preceding column.

Gm. Typical value of grid-plate transconductance of the tube in micromhos.

μ. Typical tube amplification factor.

r_p. Typical value for plate resistance in ohms.

Capacity in: Typical value for input capacitance of the tube, i.e., between grid #1 and all other electrodes.

Capacity out: Typical value for the output capacitance of the tube, i.e., between the anode and all other electrodes.

NOTE: These capacity values are measured without an external, grounded shield.

EIA Base No. This column designates the number assigned by the EIA to the base connections of the tube. These Base Numbers will be found in the last section of the Tabulation beginning on page 119. The designation "FL" is used to indicate flexible or flying leads on the miniature or subminiature tubes. The column is left blank where no Base Number is applicable as in lighthouse and ceramic-metal tubes.

3.3. Unit Symbols

While the normally used electrical unit is printed at the top of each column, it will be noted that letter symbols are used following some numbers to indicate a change of unit.

Symbol	Column heading	Unit
K	Max E_b or E_{px}	Kilovolts.
U	Max I_b and I_b	Microamperes.
A	Max I_b and I_b	Amperes.
K	r_p	Kilohms.
M	r_p	Megohms.

4. Numerical Listing of Data on Receiving Tubes

DATA ON RECEIVING TUBES - NUMERICAL LISTING

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS k	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
0A2WA	S*	DIO	SIN	T5	REG	GAS	RC	C			185	30		151	18						5BO
0A3A	S	DIO	SIN	T9	REG	GAS	RA	C			105	40		75	22						4AJ
0A4G	S	TRI	SIN	ST12	TRG	GAS	SY	C			225	100		225	25						4V
0B2WA	S*	DIO	SIN	T5	REG	GAS	RA	C			133	30		108	18						5BO
0B3A		DIO	SIN	T9	REG	GAS	RA	C			130	30		90	18						4AJ
0C2		DIO	SIN	T5	REG	GAS	RC	C			115	30		75	18						5BO
0C3A	S	DIO	SIN	T9	REG	GAS	RA	C			133	40		105	22						4AJ
0D3A	S	DIO	SIN	T9	REG	GAS	RA	C			185	40		150	22						4AJ
0G3		DIO	SIN	T5	REG	GAS	TS	C			115	10		87	6						
0Z4G	S	DIO	TWN	T7	REC	GAS	RA	C			1K	200		300	75						4R
1A3		DIO	SIN	T5	REC	VAC	RC	H	1.4	150	330	5		117	500U						5AP
1A7GT		PTG	SIN	T9	CON		‡HY	F	1.4	50	110	4		90	600U			600K			7Z
1AB5		PND	SIN	T9	VA	RCO	SY	F	1.2	130				150	7	1400		125K	2.8	4.2	5BF
1AD2		DIO	SIN	T9	REC	VAC	GE	H	1.2	200	22K	50		225	7					1.6	12DQ
1AD4		PND	SIN	T3X2	VA	SCO	RA	F	1.2	100	100	7		45	3	2000		500K	4.0	4.0	FL
1AD5	S	PND	SIN	T3	VA	SCO	SY	F	1.2	40	68	4		68	2	700		700K	1.8	2.8	8CP
1AE4		PND	SIN	T5	RFA	SCO	RA	F	1.2	100	90	11		90	4	1600		500K	3.6	4.4	6AR
1AF4		PND	SIN	T5	VA	SCO	SY	F	1.4	25	110	3		68	1	900		2M	3.8	7.5	6AR
1AG4		PND	SIN	T3X2	PA	SCO	RA	F	1.2	40	90	4		41	2	1000		180K			FL
1AH4		PND	SIN	T3X2	RFA	SCO	RA	F	1.2	40	90	2		68	1	800		2M	3.5	4.5	FL
1AJ2		DIO	SIN	T9	REC	VAC	TS	F	1.2	200	26K	50		140	7					1.8	12EL
1AJ5	OBS	DIO	PND	T3X2	DET	VAC	RA	F	1.2	40					1						FL
1AJ5	OBS	PND	DIO	T3X2	VA	SCO	RA	F	1.2	40	90	2		45	1	400		300K	1.7	2.4	FL
1AK4		PND	SIN	T3X2	RFA	SCO	RA	F	1.2	20	90	1		68	750U	800		2M	3.5	4.5	FL
1AK5	OBS	DIO	PND	T3X2	DET	VAC	RA	F	1.2	20					2						FL
1AK5	OBS	PND	DIO	T3X2	VA	SCO	RA	F	1.2	20	90	1		45	500U	300		400K	2.0	2.7	FL
1AN5		PND	SIN	T5	IFA		PE	F	1.4	25	120	2	0.2	85	2	900		10M	3.7	7.5	7ES
1AU3		DIO	SIN	T12	REC	VAC	SY	F	1.2	200	30K	50		225	7						7C
1AX2A		DIO	SIN	T6	REC	VAC	‡HY	F	1.4	650	25K	11		20K	300U						9Y
1B3GT	S*	DIO	SIN	T9	REC	VAC	RC	F	1.2	200	30K	17		35	2						3C
1C5GT		PND	SIN	T9	PA	SRC	‡HY	F	1.4	100	110	12		90	8	1600		115K			6X
1DN5	S	DIO	PND	T5	DET	VAC	TS	F	1.4	50					250U						6BW
1DN5	S	PND	DIO	T5	AFA	SRC	TS	F	1.4	50	90	3		68	2	600		600K			6BW
1E8	OBS	PTG	SIN	T3	CON		SY	F	1.2	40	68	4		68	1			400K	6.0	5.0	8CN
1F5G	OBS	PND	SIN	ST14	PA	SRC	SY	F	2.0	120	180		1.8	135	8	1700		200K			6X
1G3GT	S	DIO	SIN	T9	REC	VAC	RC	F	1.2	200	33K	30		25	1						3C
1G4GT	OBS	TRI	SIN	T9	VA	RCO	GE	F	1.4	50	110	4		90	2	800	9	11K	2.2	3.4	5S
1H2		DIO	SIN	T6	REC	VAC	GE	H	1.4	550	24K	50		10	500U			•		1.0	9LX
1H5GT		DIO	TRI	T9	DET	VAC	‡HY	F	1.4	50											5Z
1H5GT		TRI	DIO	T9	VA	SCO	‡HY	F	1.4	50	110			90	150U	300	65	240K			5Z
1J3A	S	DIO	SIN	T9	REC	VAC	GE	F	1.2	200	28K	50		225	7						3C
1K3	S	DIO	SIN	T9	REC	VAC	GE	F	1.2	200	26K	50		50	500U					1.6	3C
1L4	S	PND	SIN	T5	RFA	SCO	RC	F	1.4	50	110	6		90	3	900		600K	3.6	7.5	6AR
1L6		PTG	SIN	T5	CON		SY	F	1.4	50	110	4		90	500U			650K			7DC
1LC5	S	PND	SIN	T9	RFA	SCO	SY	F	1.4	50	110	5		90	1	800		1M	3.2	7.0	7AD

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
1LC6	S	PTG	SIN	T9	CON		SY	F	1.4	50	110	3		90	750U			650K		5.5	7AK
1LE3		TRI	SIN	T9	GEN	RCO	SY	F	1.4	50	110			90	1	800	14	19K	1.7	3.0	4AA
1LG5	S	PND	SIN	T9	RFA	SRC	SY	F	1.4	50	110	5		90	2	800		1M	3.2	7.0	7AD
1LN5	S	PND	SIN	T9	RFA	SCO	#PL	F	1.4	50	110			90	2	800		1M	3.0	8.0	7AD
1M3		TRI	SIN	T3	IND		AM	F	1.4	25	90	30CU	0.4	85	170U						FL
1N2A	S	DIO	SIN	T12	REC	VAC	SY	F	1.2	200	28K	50			500U					1.4	3C
1N5GT	S	PND	SIN	T9	RFA	SCO	#HY	F	1.4	50	110	5		90	1	800		2M	2.8	9.0	5Y
1P5GT	OBS	PND	SIN	T9	RFA	SRC	#HY	F	1.4	50	110			90	2	800		800K	3.0	10.0	5Y
1R4		DIO	SIN	T9	REC	VAC	SY	H	1.4	150	117	1									4AH
1R5WA	+	PTG	SIN	T5	CON		RC	F	1.2	50	100		0.1	90	900U					7.5	7AT
1S2A		DIO	SIN	T6	REC	VAC	RE	H	1.4	550	22K	4C								1.8	9DT
1S4		PND	SIN	T5	PA	SRC	RC	F	1.4	100	90	11		68	7	1600		100K			7AV
1S5	S	DIO	PND	T5	DET	VAC	RC	F	1.4	50					250U						6AU
1S5	S	PND	DIO	T5	VA	SCO	RC	F	1.4	50	90	3		68	2	600		600K	2.2	2.4	6AU
1T4WA	S+	PND	SIN	T5	IFA	SRC	RA	F	1.2	50	10C	5	0.4	90	4	900		170K	3.8	6.5	6AR
1U4WA	S+	PND	SIN	T5	VA	SCO	TS	F	1.2	50	135	2	0.2	90	2	900			3.6	6.6	6AR
1U5WA	S	DIO	PND	T5	DET	VAC	#NU	F	1.4	50					250U						6BW
1U5WA	S	PND	DIO	T5	AFA	SCO	#NU	F	1.4	50	90	3		68	2	600		600K			6BW
1U6		PTG	SIN	T5	CON		SY	F	1.4	25	110	4		90	600U			500K	2.0	6.5	7CD
1V2		DIO	SIN	T6	REC	VAC	RC	F	0.6	300	8K	1C		25	500U					0.8	9U
1V6	OBS	TRI	PND	T3X2	OSC		RA	F	1.2	40	90	2		45	400U				4.0	1.9	FL
1V6	OBS	PND	TRI	T3X2	CON	SCO	RA	F	1.2	40	90	2		45	400U			1M	3.2	2.4	FL
1X2A		DIO	SIN	T6	REC	VAC	#HY	F	1.2	200	20K	11		14K	175U					1.0	9Y
1X2B		DIO	SIN	T6	REC	VAC	SY	F	1.2	200	22K	45		18K	100U					1.0	9Y
1Y2		DIO	SIN	ST12	REC	VAC	WH	F	1.3	280	38K	5									4P
1Z2		DIO	SIN	T5	REC	VAC	#NU	F	1.2	265	15K	8		18	2						7CB
2A3	S	TRI	SIN	ST16	PA	RCO	RC	F	2.5	2500	300		15.0	250	60	5200	4	800	7.5	5.5	4D
2A7	OBS	PTG	SIN	ST12	CON		RC	H	2.5	800	300	14	1.0	250	4			360K	7.0	9.0	7C
2AF4B	S	TRI	SIN	T5	UHF	SRC	SY	H	2.4	600	150	28	2.2	80	16	6600	15	2270			7DK
2AH2		DIO	SIN	T9	REC	VAC	GE	H	2.5	300	24K	8C		100	7					1.4	12DG
2AS2		DIO	SIN	T9	REC	VAC	GE	H	2.5	330	24K	80		100	7					1.4	12EW
2B3		DIO	SIN	T9	REC	VAC	GE	F	1.8	250	27K	50		12	500U					1.3	8HC
2B22	OBS	DIO	SIN	L1T	REC	HIP	GE	H	6.3	750	30C			100	5						
2BN4A		TRI	SIN	T5	VHF	SCO	GE	H	2.3	600	275	22	2.2	15C	9	6800	43	6300	3.2	1.4	7EG
2C51	S	TRI	TWN	T6	GEN	SRC	BT	H	6.3	300	300	18	1.5	150	8	5500	35		2.2	1.0	8CJ
2C53	S	TRI	SIN	T9	REG		#NU	H	6.3	300	8K	100	12.0	5K	900U	1C00	450	4C0K			
2CW4	S	TRI	SIN	MT4	RFA	SCO	RC	H	2.0	450	135		1.5	70	7	12500	68	5440	4.3	1.8	12AQ
2CY5	S	TET	SIN	T5	VHF	SCO	WH	H	2.4	6C0	180	2C	2.0	125	10	8C00		100K	4.5	3.0	7EW
2D21W	S+	TET	SIN	T5	THY	GAS	TS	H	6.3	600	1K	50C		650	100						7BN
2DF4		PND	SIN	T6	PA	RCO	GE	F	2.5	345	250	5C	4.5	120	37	6900			7.5	5.5	9JL
2DS4	S+	TRI	SIN	MT4	RFA	SRC	RC	H	2.1	450	300	15	1.0	110	7	9000	63	7000	4.3	1.8	12AQ

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
2DV4	+	TRI	SIN	MT4	OSC	SCO	RC	H	2.1	450	125	15	1.0	75	10	11500	35	3100	4.4	1.9	12EA
2DX4		TRI	SIN	T5	UHF		WH	H	2.4	600	150	20	2.2	85	10	11000	30	2700	3.7	0.38	7DK
2DZ4	S+	TRI	SIN	T5	UHF	SRC	SY	H	2.4	600	135	20	2.3	80	15	6700	14	2000	2.2	1.3	7DK
2E24	OBS	BEA	SIN	T9	PA	RCO	RC	F	6.3	650	500	75	13.5	250	40	3200			9.5	7.0	7CL
2E25	OBS	BEA	SIN	ST11	PA	RCO	‡HY	F	6.0	1000	400	75	10.5	250	40	2500			8.5	6.0	5BJ
2E26	S	BEA	SIN	T9	PA	RCO	RC	H	6.3	800	600	75	17.0	250	42	3500			12.5	7.0	7CK
2E30		BEA	SIN	T5	PA	RCO	TS	F	6.0	650	250		10.0	250	44	3700		63K	9.5	6.6	7CQ
2E31		PND	SIN	T3X2	RFA	SCO	RA	F	1.2	50	45	1		22	400U	500		350K	4.2	4.0	FL
2E35	S+	PND	SIN	T3X2	PA	SCO	RA	F	1.2	30	45	1		45	450U	500		250K	2.7	5.7	FL
2EA5	OBS	TET	SIN	T5	VHF	SCO	‡PL	H	2.3	600	250	20	3.2	250	10	8000		150K	3.8	2.3	7EW
2EN5		DIO	TWN	T5	DET	VAC	‡PL	H	2.1	450		5							3.7		7FL
2ER5	S+	TRI	SIN	T5	VHF	SRC	RE	H	2.1	600	250	20	2.2	200	10	10500	80		4.4	4.0	7FP
2ES5	S	TRI	SIN	T5	AFA	SCO	‡PL	H	2.4	600	250	22	2.2	200	10	9000	75	8000	3.2	3.2	7FP
2EV5	S	TET	SIN	T5	VHF	SCO	WH	H	2.4	600	275	20	3.2	250	12	8800		150K	4.5	2.9	7EW
2FH5	S	TRI	SIN	T5	VHF	SCO	‡PL	H	2.4	600	150	22	2.2	135	11	9000		5600	3.2	3.2	7FP
2FK5		TRI	SIN	T5	RFA		SY	H	2.3	600	200	22	2.3	135	12	15000	75	5000	4.4	2.6	7GM
2FQ5A	S	TRI	SIN	T5	VHF	SCO	SY	H	2.3	600	200	22	2.5	135	9	12000	74	6300	5.0	3.5	7FP
2FS5		BEA	SIN	T5	RFA	SCO	GE	H	2.4	600	300	20	3.2	275	10	10000		240K	4.8	2.0	7GA
2FV6	S	TET	SIN	T5	VHF	SCO	RC	H	2.4	600	275	20	2.0	125	10	8000		100K	4.5	3.0	7FQ
2FY5	S	TRI	SIN	T5	VHF	RCO	AM	H	2.4	600	200	20	2.2	135	11	13000	70		4.75	3.3	7FP
2G5	OBS	TRI	SIN	ST12	IND		‡HY	H	2.5	800	250			250	240U						6R
2G21	S	TRI	PTG	T3X2	OSC		RA	F	1.2	50	45	2		22	1				3.8	3.7	FL
2G21	S	PTG	TRI	T3X2	MIX		RA	F	1.2	50	45	2		22	200U				3.5	3.6	FL
2G22	S	TRI	PTG	T3X2	OSC		RA	F	1.2	50	45	2		22	1				3.8	3.7	FL
2G22	S	PTG	TRI	T3X2	MIX		RA	F	1.2	50	45	2		22	200U				3.5	3.6	FL
2GK5	S	TRI	SIN	T5	VHF	SCO	SY	H	2.3	600	200	22	2.5	135	12	15000	78	5400	5.0	3.5	7FP
2GU5		BEA	SIN	T5	RFA	SCO	GE	H	2.4	600	300	20	3.0	275	10	15500		165K	7.0	3.2	7GA
2GW5		TRI	SIN	T5	VHF	SCO	SY	H	2.4	600	200	25	2.5	135	12	15000	70	5800	5.5	4.0	7GK
2HA5		TRI	SIN	T5	RFA		AM	H	2.2	600	220	22	2.6	135	12	14500	72				
2L2		DIO	SIN	T6	REC	VAC	TA	H	2.0	200	19K										FL
2T4	S	TRI	SIN	T5	OSC	SRC	SY	H	2.4	600	200	30	3.5	80	18	7000	13	1860	2.9	0.2	7DK
2V2		DIO	SIN	T11	REC	VAC	GE	F	2.5	200	21K	80		20	1						8FV
3A2		DIO	SIN	T6	REC	VAC	RC	H	3.2	220	18K	80		25	2					1.0	9DT
3A3	S	DIO	SIN	T9	REC	VAC	RC	H	3.2	220	30K	80		35	2					1.5	8EZ
3A4		PND	SIN	T5	PA	RCO	RC	F	2.8	100	150	18	2.0	135	15	1900		90K	4.8	4.2	7BB
3A5		TRI	TWN	T5	VA	SRC	RC	F	2.8	110	135	5	0.5	90	4	1800	15	8300	0.9	1.0	7BC
3AF4B		TRI	SIN	T5	OSC	SRC	SY	H	3.2	450	150	28	2.2	100	20	7500	16	2130	2.2	0.45	7DK
3AJ8		TRI	PTG	T6	GEN		RE	H	3.6	600	550	6	0.8	100	14	3700	22		2.6	2.1	9CA
3AJ8		PTG	TRI	T6	CON		RE	H	3.6	600	550	12	1.7	200	4			1M	4.8	7.9	9CA
3AL5		DIO	TWN	T5	DET	HIP	GE	H	3.2	600	330	54		117	9					2.5	6BT
3AT2		DIO	SIN	T9	REC	VAC	RA	H	3.2	220	30K	88			2						
3AU6	S	PND	SIN	T5	IFA	SCO	GE	H	3.2	600	300		3.0	250	8	4500		2M	5.5	5.0	7BK

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
3AV6		DWD	TRI	T5	DET	VAC	SY	H	3.2	600					1						7BT
3AV6		TRI	DWD	T5	VA	SCO	SY	H	3.2	600	300		0.5	250	1	1600	100	62K	2.2	0.8	7BT
3AW3	S	DIO	SIN	T9	REC	VAC	RA	H	3.2	220	30K	88			2					1.5	8EZ
3B2	S	DIO	SIN	T12	REC	VAC	RC	H	3.2	220	35K	80		30	1					1.8	8GH
3B4	CBS	BEA	SIN	T5	PA	RCO	#HY	F	2.5	165	150	25	3.0	150	25	1900			4.6	7.6	7CY
3B7		TRI	TWN	T9	UHF	SRC	SY	F	2.8	110	180	15	2.7	135	11	1900	20		1.4	1.8	7BE
3B24WA		DIO	SIN	T12	REC	VAC	WE	F	5.0	3000	20K	300		200	140						3K
3B28	S*	DIO	SIN	T16	REC	GAS	CH	F	2.5	5000	10K	1000		3K	250						4P
3BA6	S	PND	SIN	T5	RFA	RCO	GE	H	3.2	600	300		3.0	250	11	4400		1M	5.5	5.0	7BK
3BC5		PND	SIN	T5	RFA	SRC	GE	H	3.2	600	300		2.0	250	8	5700		800K	6.5	1.8	7BD
3BE6		PTG	SIN	T5	CON		GE	H	3.2	600	300	14	1.0	250	3			1M	5.5	8.0	7CH
3BN4		TRI	SIN	T5	VHF	SCO	GE	H	3.0	450	275	22	2.2	150	9	6800	43	6300	3.2	1.4	7EG
3BN6		GTB	SIN	T5	DIS		GE	H	3.2	600	300	12		121	440U				4.2		7DF
3BU8A	S	PND	TWN	T6	VHF	SCO	GC	H	3.2	600	300	12	1.1	100	2	1500			6.0	3.0	9FG
3BX6		PND	SIN	T6	GEN	SCO	RE	H	3.4	600	550		2.5	250	10	6800		650K	7.5	3.3	9AQ
3BY6	S	PTG	SIN	T5	GA	SRC	GE	H	3.2	600	300		2.0	250	6	1900			5.4	7.6	7CH
3BY7		PND	SIN	T6	PA		RE	H	3.4	600	550		2.5			6000		600K			9AQ
3BZ6		PND	SIN	T5	IFA	RCO	SY	H	3.2	600	330		2.3	125	14	8000		260K	7.0	2.0	7CM
3C2		DIO	SIN	T12	REC	VAC	GE	F	3.2	210	33K	80		30	1					1.4	8FV
3C23		TRI	SIN	ST16	THY	GAS	GE	F	2.5	7000	1K	6000		600	2000						3G
3CB6	S	PND	SIN	T5	IFA	SCO	GE	H	3.2	600	300		2.3	200	10	6200		600K	6.5	2.0	7CM
3CE5		PND	SIN	T5	RFA	SCO	#PL	H	3.2	600	300		2.0	125	11	7600		300K	6.5	1.9	7BD
3CF6	S	PND	SIN	T5	IFA	SCO	RC	H	3.2	600	300		2.0	200	10	6200		600K	6.5	2.0	7CM
3CS6	S	PTG	SIN	T5	GA	SCO	GE	H	3.2	600	300	14	1.0	100	1	1100		1M	5.5	7.5	7CH
3CY5	S	TET	SIN	T5	VHF	SCO	WH	H	2.9	450	180	20	2.0	125	10	8000		100K	4.5	3.0	7EW
3D6	S	BEA	SIN	T9	PA	SRC	SY	F	2.8	110	180	30	4.5	150	10	2400			7.5	5.5	6BA
3D21B	*	PND	SIN	ST14	OSC	RCO	#HY	H	12.6	850	4K		15.0	600	30	5500					6BU
3DG4		DIO	TWN	T12	REC	VAC	GE	F	3.3	3800	1K	1200		275	350						5DE
3DK6		PND	SIN	T5	IFA	SCO	WH	H	3.2	600	330		2.3	125	12	9800		350K	6.3	1.9	7CM
3DT6A		PND	SIN	T5	DET	SCO	RC	H	3.2	600	330		1.7	150	1	800		150K	5.8		7EN
3DX4		TRI	SIN	T5	UHF		WH	H	3.0	450	150	20	2.2	85	10	11000	30	2700	3.7	0.38	7DK
3DZ4		TRI	SIN	T5	UHF	SRC	SY	H	3.2	450	135	20	2.3	80	15	6700	14	2000	2.2	1.3	7DK
3EA5	S	TET	SIN	T5	VHF	SCO	#PL	H	3.0	450	250	20	3.2	250	10	8000		150K	3.8	2.3	7EW
3EH7	S	PND	SIN	T6	IFA		RE	H	3.4	600	500		2.5			12500		500K			9AQ
3EJ7	S	PND	SIN	T6	IFA		RE	H	3.4	600	550		2.5			15000		350K			9AQ
3ER5	S	TRI	SIN	T5	VHF	SRC	RE	H	2.8	450	250	20	2.2	200	10	10500	80		4.4	4.0	7FP
3ES5	S	TRI	SIN	T5	AFA	SCO	#PL	H	3.0	450	250	22	2.2	200	10	9000	75	8000	3.2	3.2	7FP
3EV5	S	TET	SIN	T5	VHF	SCO	WH	H	2.9	450	275	20	3.2	250	12	8800		150K	4.5	2.9	7EW
3FH5	S	TRI	SIN	T5	VHF	SCO	#PL	H	3.0	450	150	22	2.2	135	11	9000		5600	3.2	3.2	7FP
3FK5		TRI	SIN	T5	RFA		SY	H	2.9	450	200	22	2.3	135	12	15000	75	5000	4.4	2.6	7GM
3FQ5A	S	TRI	SIN	T5	VHF	SCO	SY	H	2.8	450	200	22	2.5	135	9	12000	74	6300	5.0	3.5	7FP
3FS5		BEA	SIN	T5	RFA	SCO	GE	H	2.9	450	300	20	3.2	275	10	10000		240K	4.8	2.0	7GA
3FW7		TRI	DIS	T3	MIX	SCO	TO	H	3.5	600	150	20		90	7	6000	36	6000	2.6	1.8	8LM
3FW7		TRI	DIS	T3	OSC	SRC	TO	H	3.5	600	150	20		90	9	9500	36	3800	3.0	1.4	8LM
3FX7		TRI	TWN	T3	AFA	SCO	TO	H	3.5	600	100	20	1.7	90	9	9500	36	3800	3.1	1.05	8LK

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
3FY5	S	TRI	SIN	T5	VHF	RCO	AM	H	3.1	450	200	20	2.2	135	11	13000	70		4.75	3.3	7FP
3GK5	S	TRI	SIN	T5	VHF	SCO	SY	H	2.8	450	200	22	2.5	135	12	15000	78	5400	5.0	3.5	7FP
3GS8	S	PND	TWN	T6		SCO	SY	H	3.2	600	300	12	1.1	100	8	1200			6.0	3.2	9FG
3GU5		BEA	SIN	T5	RFA	SCO	GE	H	3.1	450	300	20	3.0	275	10	15500		165K	7.0	3.2	7GA
3GW5		TRI	SIN	T5	VHF	SCO	SY	H	3.0	450	200	25	2.5	135	12	15000	70	5800	5.5	4.0	7GK
3HA5		TRI	SIN	T5	RFA		AM	H	2.7	450	220	22	2.6	135	12	14500	72				
3HM6		PND	SIN	T6	IFA	SCO	WH	H	3.2	600	250	25	2.5	125	13	15000		156K	8.7	2.1	9PM
3HS8	S	PND	TWN	T6		SCO	GE	H	3.2	300	300	12	1.1	100	2	1100					9FG
3HT6		PND	SIN	T6	IFA	SRC	WH	H	3.2	600	250	25	2.5	125	15	14000		143K			9PM
3KF8	S	PND	TWN	T6	VHF	SCO	RA	H	3.2	600	300	12	1.1	100	3	1800			6.0	3.0	9FG
3LF4		BEA	SIN	T9	PA	SRC	SY	F	2.8	50	110	12		110	8	2000		110K			6BB
3Q4	S	PND	SIN	T5	PA	SRC	RC	F	2.8	50	90	12		90	8	2000		120K			7BA
3Q5G		BEA	SIN	T9	PA	SRC	SY	F	2.8	50	110	12		90	10	2200		90K	8.0	6.5	7AP
3S4	S	PND	SIN	T5	PA	SRC	RC	F	2.8	50	90	12		68	6	1400		100K			7BA
3V4WA	S+	PND	SIN	T5	PA	SRC	#NU	F	1.2	100	90	8						120K	5.5	3.8	6BX
4AU6	S	PND	SIN	T5	IFA	SCO	RC	H	4.2	450	300		3.0	250	8	4500		2M	5.5	5.0	7BK
4AV6		DWD	TRI	T5	DET	VAC	RC	H	4.2	450					1						7BT
4AV6		TRI	DWD	T5	VA	SCO	RC	H	4.2	450	330		0.6	250	1	1600	100	62K	2.2	0.8	7BT
4B32	S*	DIO	SIN	T18	REC	GAS	CH	F	5.0	7250	10K	5000		3K	1250						4AT
4BA6	S	PND	SIN	T5	RFA	RCO	GE	H	4.2	450	300		3.0	250	11	4400		1M	5.5	5.0	7BK
4BC5		PND	SIN	T5	RFA	SRC	GE	H	4.2	450	300		2.0	250	8	5700		800K	6.5	1.8	7BD
4BC8	S	TRI	TWN	T6	CA	SRC	SY	H	4.2	600	250	22	2.2	150	10	6200	35	5300	2.6	1.3	9AJ
4BE6		PTG	SIN	T5	CON		GE	H	4.2	450	300	14	1.0	250	3			1M	5.5	8.0	7CH
4BL8		TRI	PND	T6	CON		RE	H	4.6	600	550		1.5	100	14	5000	20		2.5	1.8	9DC
4BL8		PND	TRI	T6	CON		RE	H	4.6	600	550		1.7	170	10	6200		400K	5.2	3.4	9DC
4BN6		GTB	SIN	T5	DIS		GE	H	4.2	450	300	12		121	4400				4.2		7DF
4BQ7A	S	TRI	TWN	T6	CA	SCO	SY	H	4.2	600	250	20	2.0	150	9	6400	38	5900	2.6	1.2	9AJ
4BS8	S	TRI	TWN	T6	CA	SCO	WH	H	4.2	600	150	20	2.0	150	10	7200	36	5000	2.6	1.4	9AJ
4BU8	S	PND	TWN	T6	VHF	SCO	GE	H	4.2	450	300	12	1.1	100	2	1500			6.0	3.0	9FG
4BX8		TRI	TWN	T6	CA	SCO	WH	H	4.5	600	150	20	2.0	65	9	6700	25		2.4	1.25	9AJ
4BZ6	S	PND	SIN	T5	IFA	RCO	GE	H	4.2	450	330		2.3	125	14	8000		260K	7.0	2.0	7CM
4BZ7	S	TRI	TWN	T6	CA	SCO	SY	H	4.2	600	250	20	2.0	150	10	6800	36	5300	2.6	1.2	9AJ
4BZ8	OBS	TRI	TWN	T6	CA	SRC	#PL	H	4.2	600	250	20	2.2	125	10	8000	45	5600			9AJ
4CB6	S	PND	SIN	T5	IFA	SCO	GE	H	4.2	450	300		2.3	200	10	6200		600K	6.5	2.0	7CM
4CE5	OBS	PND	SIN	T5	RFA	SCO	GE	H	4.2	450	300		2.0	125	11	7600		300K	6.5	1.9	7BD
4CS6		PTG	SIN	T5	GA	SCO	SY	H	4.2	450	300	14	1.0	100	1	1100		1M		7.5	7CH
4CX7		TRI	TWN	T6	CA	SRC	SY	H	4.2	600	250	20	2.0	150	9	6400	39		2.4	1.3	9FC
4CY5		TET	SIN	T5	VHF	SCO	WH	H	4.5	300	180	20	2.0	125	10	8000		100K	4.5	3.0	7EW
4DE6	S	PND	SIN	T5	IFA	SRC	SY	H	4.2	450	330		2.3	125	16	8000		250K	6.5	2.0	7CM
4DK6		PND	SIN	T5	IFA	SCO	WH	H	4.2	450	330		2.3	125	12	9800		350K	6.3	1.9	7CM
4DT6A		PND	SIN	T5	DET	SCO	RC	H	4.2	450	330		1.7	150	1	800		150K	5.8		7EN
4EH7		PND	SIN	T6	IFA		RE	H	4.4	450	500		2.5			12500		500K			9AQ
4EJ7		PND	SIN	T6	IFA		RE	H	4.4	450	550	25	2.5	200	10	15000		350K	10.0	3.0	9AQ
4ES8		TRI	TWN	T6	CA	SRC	RE	H	4.5	600	130	22	1.8	90	15	12500		2500			9AJ
4EW6	S	PND	SIN	T5	IFA	SCO	GE	H	4.2	600	330		3.1	125	11	14000		200K	10.0	2.4	7CM

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
4FK5		TRI	SIN	T5	RFA		SY	H	4.0	300	200	22	2.3	135	12	15000	75	5000	4.4	2.6	7GM
4FS7		TRI	PND	T5	RFA	SCO	MU	H	4.6	600	125	15	1.5	100	14	5500	17		2.4	1.1	9MP
4FS7		PND	TRI	T5	CON	SCO	MU	H	4.6	600	250	18	2.0	170	10	12000			6.0	3.5	9MP
4GK5		TRI	SIN	T5	VHF	SCO	SY	H	4.0	300	200	22	2.5	135	12	15000	78	5400	5.0	3.5	7FP
4GM6	S	PND	SIN	T5	IFA	SRC	RC	H	4.2	600	330		3.1	125	14	13000		200K	10.0	2.4	7CM
4GS8	S	PND	TWN	T6		SCO	SY	H	4.2	450	300	12	1.1	100	8	1200			6.0	3.2	9FG
4GW5		TRI	SIN	T5	VHF	SCO	SY	H	4.2	300	200	25	2.5	135	12	15000	70	5800	5.5	4.0	7GK
4GZ5		PND	SIN	T5	AFA		TS	H	4.0	600	300		4.8	250	16	8400		150K	8.5	3.8	7CV
4HA5		TRI	SIN	T5	RFA		AM	H	3.9	300	220	22	2.6	135	12	14500	72				
4HM6		PND	SIN	T6	IFA	SCO	WH	H	4.2	450	250	25	2.5	125	13	15000		156K	8.7	2.1	9PM
4HS8	S	PND	TWN	T6		SCO	GE	H	4.2	450	300	12	1.1	100	2	1100					9FG
4HT6		PND	SIN	T6	IFA	SRC	WH	H	4.2	450	250	25	2.5	125	15	14000		143K			9PM
4KF8	S	PND	TWN	T6	VHF	SCO	RA	H	4.2	450	300	12	1.1	100	3	1800			6.0	3.0	9FG
4KN8		TRI	TWN	T6	VHF	SCO	HI	H	4.2	600	220	22	2.2	110	16	16000	45	2800			9AJ
5A6	S	BEA	SIN	T6	PA	RCO	TS	F	5.0	230	150	40		150	28	4300			8.5	6.0	9L
5AM8		DIO	PND	T6	DET	HIP	SY	H	4.7	600					5						9CY
5AM8		PND	DIO	T6	IFA	SRC	SY	H	4.7	600	300		2.8	200	12	7000		600K	6.0	2.6	9CY
5AN8	S	TRI	PND	T6	GEN	RCO	SY	H	4.7	600	300		2.6	200	13	3300	19	5750	2.0	0.27	9DA
5AN8	S	PND	TRI	T6	GEN	SRC	SY	H	4.7	600	300		2.0	200	10	6200		300K	7.0	2.3	9DA
5AQ5		BEA	SIN	T5	PA	RCO	GE	H	4.7	600	250		12.0	250	47	4100		52K	8.0	8.5	7BZ
5AR4		DIO	TWN	T9	REC	VAC	GE	H	5.0	1900	2K	825									5DA
5AS4A	S	DIO	TWN	ST16	REC	VAC	RC	F	5.0	3000	2K	1000		450	275						5T
5AS8		DIO	PND	T6	DET	HIP	RC	H	4.7	600	330	50			5					3.0	9DS
5AS8		PND	DIO	T6	VHF	SRC	RC	H	4.7	600	300		2.5	200	10	6200		300K	7.0	2.4	9DS
5AT4A		DIO	TWN	ST16	REC	VAC	CH	H	5.0	4250	2K	2000		550	800						5L
5AT8	S	TRI	PND	T6	OSC	SRC	RC	H	4.7	600	250		1.5	100	8	5800	40	6900	2.0	0.5	9DW
5AT8	S	PND	TRI	T6	MIX	SRC	RC	H	4.7	600	250		2.0	250	8	4600		750K	4.5	0.9	9DW
5AU4	S	DIO	TWN	T12	REC	VAC	GE	F	5.0	3750	1K	1075		400	325						5T
5AV8	S	TRI	PND	T6	GEN	RCO	SY	H	4.7	600	300		2.5	200	13	3300	19	5750	2.0	0.27	9DZ
5AV8	S	PND	TRI	T6	GEN	SRC	SY	H	4.7	600	300		2.0	200	10	6200		300K	7.0	2.3	9DZ
5AW4	OBS	DIO	TWN	T12	REC	VAC	THY	F	5.0	3700	2K	750		450	250						5T
5AZ3	S	DIO	TWN	T12	REC	VAC	THY	H	5.0	3000	2K	1000		450	275						12BR
5AZ4	S	DIO	TWN	T9	REC	VAC	SY	F	5.0	2000	1K	375		500	125						5T
5D8	S	TRI	PND	T6	GEN	RCO	SY	H	4.7	600	300		2.5	200	13	3300	19	5750	1.9	1.4	9EC
5R8	S	PND	TRI	T6	GEN	SRC	SY	H	4.7	600	300		2.0	200	10	6200		300K	6.0	2.6	9EC
5HC3		DIO	TWN	T12	REC	VAC	RC	F	5.0	3000	2K	1000		1K							9NT
5DE8	S	TRI	PND	T6	OSC	SRC	SY	H	4.7	600	300		2.5	150	18	8500	40	5000	2.8	1.5	9EG
5BE8	S	PND	TRI	T6	MIX	SRC	SY	H	4.7	600	300		2.8	250	10	5200		400K	4.4	2.6	9EG
5BK7A		TRI	TWN	T6	CA	SRC	GE	H	4.7	600	300		2.7	150	18	9300	43	4600	3.0	1.0	9AJ
5BQ7A	S	TRI	TWN	T6	CA	SCO	GE	H	5.6	450	300	20	2.0	150	9	6400	38	5900	2.6	1.2	9AJ
5BR8A	S	TRI	PND	T6	OSC	SRC	TS	H	4.7	600	300		2.7	150	18	8500	40	5000			9FA
5BR8A	S	PND	TRI	T6	MIX	SRC	TS	H	4.7	600	300		2.8	250	10	5200		400K	5.0	2.6	9FA
5BS8	S	TRI	TWN	T6	CA	SCO	WH	H	5.6	450	150	20	2.0	150	10	7200	36	5000	2.6	1.4	9AJ
5BT8		DWD	PND	T6	DET	VAC	WH	H	4.7	600					1					1.3	9FE

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
5BT8		PND	DWD	T6	IFA	SRC	WH	H	4.7	600	300		2.0	200	10	6200		300K	7.0	2.3	9FE
5BW8		DWD	PND	T6	DET	VAC	GE	H	4.7	600					5					1.3	9HK
5BW8		PND	DWD	T6	IFA	SRC	GE	H	4.7	600	330		3.0	250	10	5200		250K	4.8	2.6	9HK
5BZ7	CBS	TRI	TWN	T6	CA	SCO	GE	H	5.6	450	300	20	2.0	150	10	6800	36	5300	2.6	1.2	9AJ
5CG8	S	TRI	PND	T6	OSC	SRC	RC	H	4.7	600	250		1.5	100	8	5800	40	6900			9GF
5CG8	S	PND	TRI	T6	MIX	SRC	RC	H	4.7	600	250		2.0	250	8	4600		750K	4.8	0.9	9GF
5CL8A	S	TRI	TET	T6	OSC	SRC	GE	H	4.7	600	330		2.5	125	14	8000	40	5000	2.8	1.5	9FX
5CL8A	S	TET	TRI	T6	MIX	SRC	GE	H	4.7	600	330		3.0	125	12	6500		200K	5.0	2.0	9FX
5CM6	S	BEA	SIN	T6	PA	RCO	SY	H	4.7	600	315		12.0	250	47	4100		50K	8.0	8.5	9CK
5CM8	S	TRI	PND	T6	GEN	SCO	SY	H	4.7	600	300		1.0	250	2	2000	100	50K	1.6	0.22	9FZ
5CM8	S	PND	TRI	T6	GEN	SRC	SY	H	4.7	600	300		2.0	200	10	6200		600K	6.0	2.6	9FZ
5CQ8	S	TRI	TET	T6	OSC	SCO	RC	H	4.7	600	300		2.7	125	15	8000	40	5000			9GE
5CQ8	S	TET	TRI	T6	MIX	SCO	RC	H	4.7	600	300		2.8	125	12	5800		140K			9GE
5CR8	OBS	TRI	PND	T6	GEN	SRC	SY	H	4.7	600	330		2.8	125	12	4000	22	5500	2.0	1.4	9GJ
5CR8	OBS	PND	TRI	T6	GEN	SRC	SY	H	4.7	600	330		2.3	125	13	7700		300K	6.0	2.8	9GJ
5CU4		DIO	TWN	T12	REC	HIP	RA	H	5.0	3300	800	425		260	385						8KD
5CZ5		BEA	SIN	T6	PA	RCO	RC	H	4.7	600	350		12.0	250	48	4800		73K	6.0	6.0	9HN
5DH8		TRI	PND	T6	GEN	SRC	GE	H	5.2	600	300		2.0	250	7	4400	53	12K	2.4	1.4	9EG
5DH8		PND	TRI	T6	IFA	SCO	GE	H	5.2	600	300		2.2	125	14	8600		150K	6.5	2.2	9EG
5DJ4	S	DIO	TWN	T12	REC		SY	F	5.0	3000	2K	1000		550	275						8KS
5DN4	S	DIO	TWN	T12	REC	VAC	RA	F	5.0	3300	1K	1300		425	350						8KS
5EA8	S	TRI	PND	T6	OSC	SRC	GE	H	4.7	600	330		3.0	150	18	8500	40	5000	3.0	0.3	9AE
5EA8	S	PND	TRI	T6	MIX	SRC	GE	H	4.7	600	330		3.1	125	12	6400		80K	5.0	2.6	9AE
5EH8	S	TRI	PND	T6	OSC	SRC	SY	H	4.7	600	300		2.5	125	14	7500	40		2.8	1.7	9JG
5EH8	S	PND	TRI	T6	MIX	SRC	SY	H	4.7	600	300		2.8	125	12	6000		170K	4.8	2.4	9JG
5ES8		TRI	TWN	T6	CA	SRC	RE	H	5.6	450	130	22	1.8	90	15	12500		2500			9AJ
5EU8	S	TRI	PND	T6	OSC	SRC	RA	H	4.7	600	330		3.0	150	18	8500	40	5000	3.0	1.6	9JF
5EU8	S	PND	TRI	T6	MIX	SRC	RA	H	4.7	600	330		3.1	125	12	6400		80K	5.0	2.6	9JF
5EW6		PND	SIN	T5	IFA	SCO	RC	H	5.6	450	330		3.1	125	11	14000		200K	10.0	2.4	7CM
5FG7		TRI	PND	T6	OSC	SCO	GE	H	4.7	600	330		2.5	125	13	7500	43	5700	3.0	1.3	9GF
5FG7		PND	TRI	T6	MIX	SRC	GE	H	4.7	600	330		3.0	125	11	6000		180K	5.0	2.4	9GF
5FV8	S	TRI	PND	T6	VDO	SRC	SY	H	4.7	600	330	70	2.0	125	14	8000	40	5000	2.8	1.5	9FA
5FV8	S	PND	TRI	T6	IFA	SRC	SY	H	4.7	600	330		2.3	125	12	6500		200K	5.0	2.0	9FA
5GH8	S	TRI	PND	T6	VA	SRC	GE	H	4.7	600	330		2.5	125	14	8500	46	5400	3.4	0.3	9AE
5GH8	S	PND	TRI	T6	OSC	SRC	GE	H	4.7	600	350	20	2.5	125	12	7500		200K	5.5	2.6	9AE
5GM6		PND	SIN	T5	IFA	SRC	RC	H	5.6	450	330		3.1	125	14	13000		200K	10.0	2.4	7CM
5GX6		PND	SIN	T5		SCO	TS	H	4.7	60	300		1.7	150	4			140K			7EN
5HG8		TRI	PND	T6	VHF	SCO	SY	H	5.3	450	125	17	1.9	100	14	5500	17	3100	2.4	1.1	9MP
5HG8		PND	TRI	T6	VHF		SY	H	5.3	450	250	20	2.2	170	10	12000	70	350K	6.0	3.5	9MP
5J6		TRI	TWN	T5	RFA	SCO	GE	H	4.7	600	300	15	1.5	100	8	5300	38	7100	2.2	0.4	7BF
5KD8		TRI	PND	T6	OSC	SRC	SY	H	5.6	450	330		2.5	125	14	7500	40		2.8	1.5	9AE
5KD8		PND	TRI	T6	MIX	SRC	SY	H	5.6	450	330		3.0	125	10	5000		200K	5.0	2.6	9AE
5KE8	+	TRI	PND	T6	OSC	SRC	RC	H	5.6	450	280	20		125	13	8000	40	5000	2.4	2.0	9DC
5KE8	+	PND	TRI	T6	MIX	SCO	RC	H	5.6	450	280	20		125	10	12000		125K	5.0	3.4	9DC
5R4WGB	S+	DIO	TWN	T16	REC	VAC	TS	F	5.0	2000	950	165		900	165						5T

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
5T4	S	DIO	TWN	T10	REC	VAC	RC	F	5.0	2000	2K	675		550	225						5T
5T8		TRD	TRI	T6	DET	HIP	GE	H	4.7	600					5						9E
5T8		TRI	TRD	T6	AFA	SCO	GE	H	4.7	600	300		1.0	250	1	1200	70	58K	1.6	1.1	9E
5U4GB	S	DIO	TWN	T11	REC	VAC	GE	F	5.0	3000	2K	900		450	250						5T
5U8	S	TRI	PND	T6	OSC	SRC	GE	H	4.7	600	300		2.7	150	18	8500	40	5000	2.5	0.4	9AE
5U8	S	PND	TRI	T6	MIX	SRC	GE	H	4.7	600	300		2.8	250	10	5200		400K	5.0	2.6	9AE
5V3A	S	DIO	TWN	T12	REC	VAC	TS	F	5.0	3000	2K	1400		425	350						5T
5V4G	S	DIO	TWN	ST14	REC	VAC	SY	H	5.0	2000	1K	525		375	175						5L
5V6GT	S	BEA	SIN	T9	PA	RCO	GE	H	4.7	600	315		12.0	250	47	4100		50K	9.0	7.5	7S
5X4G	S	DIO	TWN	ST16	REC	VAC	SY	F	5.0	3000	2K	675		550	225						5Q
5X8	S	TRI	PND	T6	OSC	SRC	SY	H	4.7	600	250		1.5	100	8	5800	40	6900	2.0	0.5	9AK
5X8	S	PND	TRI	T6	MIX	SRC	SY	H	4.7	600	250		2.0	250	8	4600		750K	4.3	0.7	9AK
5Y3GT	S	DIO	TWN	T9	REC	VAC	RC	F	5.0	2000	1K	400		400	125						5T
5Y4GA	S	DIO	TWN	T12	REC	VAC	SY	F	5.0	2000	1K	400		350	125						5Q
5Z3	S	DIO	TWN	ST16	REC	VAC	RC	F	5.0	3000	1K	675		450	225						4C
5Z4	S	DIO	TWN	MT8	REC	VAC	RC	H	5.0	2000	1K	375		350	125						5L
6A3	OBS	TRI	SIN	ST16	PA	RCO	SY	F	6.3	1000	250			250	60	5200	4	800			4D
6A7	S	PTG	SIN	ST12	CON		RC	H	6.3	300	300	14	1.0	250	4			360K	7.0	9.0	7C
6A8GT	S	PTG	SIN	T9	CON		‡HY	H	6.3	300	300	14	1.0	250	4			360K	6.0	12.0	8A
6AB4	S	TRI	SIN	T5	GEN	SRC	GE	H	6.3	150	300		2.5	250	10	5500	60	11K	2.2	0.5	5CE
6AB7	S	PND	SIN	MT8	RFA	SRC	RC	H	6.3	450	300		3.8	300	12	5000		700K	8.0	5.0	8N
6AC7	S	PND	SIN	MT8	RFA	SCO	RC	H	6.3	450	300		3.0	300	10	9000		1M	11.0	5.0	8N
6AD4	OBS	TRI	SIN	T3	VA	SCO	SY	H	6.3	150	150	2	0.3	100	1	2000	70	35K	1.9	2.2	8DK
6AF3		DIO	SIN	T6	DA	VAC	TS	H	6.3	1200	4K	750	6.0	20	185					6.0	9CB
6AF4A	S	TRI	SIN	T5	UHF	SRC	RC	H	6.3	225	150	28	2.2	100	20	7500	16	2130	2.2	0.45	7DK
6AF6G	S	TRI	DIS	T9	IND		RC	H	6.3	150	250			250	2						7AG
6AF11		TDI	PND	T9		SCO	GE	H	6.3	600	330		1.1	200	7	5500	68	12K			12DP
6AF11		TDI	PND	T9	CON	SCO	GE	H	6.3	600	330		2.0	200	9	4400	41	9400			12DP
6AF11		PND	TDI	T9	IFA	SRC	GE	H	6.3	600	330		5.0	250	24	11000		68K			12DP
6AG5	S	PND	SIN	T5	VHF	SRC	RC	H	6.3	300	300		2.0	250	6	5000		800K	6.5	1.8	7BD
6AG7	S	PND	SIN	MT8	PA	SRC	RC	H	6.3	650	300		9.0	300	30	11000		130K	13.0	7.5	8Y
6AG11		DWD	TTR	T9	HF	VAC	GE	H	6.3	750		18								2.2	12DA
6AG11		TTR	DWD	T9	HF	SCO	GE	H	6.3	750	330		2.0	125	8	7800	66	8500	3.8	0.24	12DA
6AH4GT		TRI	SIN	T9	VDA	RCO	SY	H	6.3	750	500	180	7.5	250	30	4500	8	1780	7.0	1.7	8EL
6AH6WA	S+	PND	SIN	T5	IFA	SRC	RA	H	6.3	450	330	28	3.3	300	10	9000		500K	10.0	4.5	7BK
6AJ4	S	TRI	SIN	T6	UHF	SRC	GE	H	6.3	225	150	20	2.0	125	16	10000	42	4200			9BX
6AJ5	S	PND	SIN	T5	UHF	SCO	WE	H	6.3	175	180	18	1.7	28	3	2500		100K	4.0	2.1	7BD
6AK4		TRI	SIN	T3	UHF	RCO	SY	H	6.3	150	250	20	3.0	200	10	3800	20	5300	1.9	0.8	8DK
6AK5	S	PND	SIN	T5	UHF	SRC	WE	H	6.3	175	180	18	1.7	180	8	5100		500K	4.0	2.1	7BD
6AK6		PND	SIN	T5	PA	RCO	RC	H	6.3	150	300		2.8	180	15	2300		200K	3.6	4.2	7BK
6AL3		DIO	SIN	T6	DET	VAC	RE	H	6.3	1550	550	550	5.0	250	220					8.6	9CB

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6AL5	S	DIO	TWN	T5	DET	HIP	RC	H	6.3	300	330	54		117	9					2.5	6BT
6AL7GT		HEX	SIN	T9	IND		GE	H	6.3	150	365			315							8CH
6AL11		PND	DIS	T9	AFA	SCO	GE	H	6.3	900	330		1.7	150	1	1000		150K			12BU
6AL11		PND	DIS	T9	DET	SRC	GE	H	6.3	900	275		10.0	250	39	6500		100K	11.0	12.0	12BU
6AM4		TRI	SIN	T6	MIX	SCO	GE	H	6.3	225	200		2.0	200	10	9800	85	8700			9BX
6AM8A		DIO	PND	T6	DET	HIP	SY	H	6.3	450					5						9CY
6AM8A		PND	DIO	T6	IFA	SRC	SY	H	6.3	450	300		2.8	200	12	7000		600K	6.0	2.6	9CY
6AN4	S	TRI	SIN	T5	UHF	SCO	SY	H	6.3	225	300	30	4.0	200	13	10000	70		2.9	0.3	7DK
6AN5WA	S*	PND	SIN	T5	PA	SRC	RA	H	6.3	450	330	55	4.6	120	33	8500			9.0	5.5	7BD
6AN6	OBS	DIO	QUA	T5	REC	VAC	SY	H	6.3	200	210	45		75	3						7BJ
6AN8	S	TRI	PND	T6	GEN	RCO	RC	H	6.3	450	300		2.6	200	13	3300	19	5750	2.0	0.27	9DA
6AN8	S	PND	TRI	T6	GEN	SRC	RC	H	6.3	450	300		2.0	200	10	6200		300K	7.0	2.3	9DA
6AQ5	S	BEA	SIN	T5	PA	RCO	TS	H	6.3	450	250		12.0	250	47	4100		52K	8.0	8.5	7BZ
6AQ6	S	DWD	TRI	T5	DET	VAC	RC	H	6.3	150		1									7BT
6AQ6	S	TRI	DWD	T5	VA	SCO	RC	H	6.3	150	300			250	1	1200	70	58K	1.8	1.7	7BT
6AQ8	S	TRI	TWN	T6	RFA	SCO	RE	H	6.3	435				230	10	6000	57	9700			9AJ
6AR5	S	PND	SIN	T5	PA	RCO	†HY	H	6.3	400	250		8.5	250	33	2300		68K			6CC
6AR6WA	S	BEA	SIN	T11	PA	RCO	WE	H	6.3	1200	565	115	19.0	250	77	5400		21K	11.0	7.0	6BQ
6AR8	S	SHB	SIN	T6	DET	SRC	GE	H	6.3	300	300	30	2.0	250	10	4000				5.0	9DP
6AR11		PND	TWN	T9	IFA	SRC	GE	H	6.3	800	330	11	3.1	125		10500		200K	10.0	2.9	12DM
6AS5		BEA	SIN	T5	PA	RCO	RC	H	6.3	800	150		5.5	150	36	5600			12.0	6.2	7CV
6AS6	S	PND	SIN	T5	VA	SRC	WE	H	6.3	175	180	18	1.7	120	5	3200		110K	3.9	2.2	7CM
6AS7GYB	S	TRI	TWN	T12	REG	RCO	GE	H	6.3	2500	250	125	13.0	135	125	7000	2	280	6.5	2.2	8BD
6AS8		DIO	PND	T6	DET	HIP	RC	H	6.3	450	330	50			5					3.0	9DS
6AS8		PND	DIO	T6	VHF	SRC	RC	H	6.3	450	300		2.5	200	10	6200		300K	7.0	2.4	9DS
6AS11		TDI	PND	T9	CON	SCO	GE	H	6.3	1050	330		2.0	200	9	4400	41	9400	2.4	3.8	12DP
6AS11		TDI	PND	T9	IFA	SCO	GE	H	6.3	1050	330		1.5	200	7	5500	68	12K	3.0	2.2	12DP
6AS11		PND	TDI	T9	VHF	SRC	GE	H	6.3	1050	330		5.0	200	24	10500		70K	9.5	4.4	12DP
6AT6	S	DWD	TRI	T5	DET	VAC	RC	H	6.3	300					1						7BT
6AT6	S	TRI	DWD	T5	VA	SCO	RC	H	6.3	300	300		0.5	250	1	1200	70	58K	2.2	0.8	7BT
6AT8A	S	TRI	PND	T6	OSC	SRC	RC	H	6.3	450	250		1.5	100	8	5800	40	6900	2.0	0.5	9DW
6AT8A	S	PND	TRI	T6	MIX	SCO	RC	H	6.3	450	250		2.0	250	8	4600		750K	4.5	0.9	9DW
6AU4GTA	S	DIO	SIN	T9	DA	HIP	TS	H	6.3	1800	4K	1000	6.0	15	175					8.5	4CG
6AU5GT		BEA	SIN	T9	PA	RCO	RC	H	6.3	1250	550	400	10.0	115	60	5600		6000	11.3	7.0	6CK
6AU6WA	S+	PND	SIN	T5	IFA	SCO	RC	H	6.3	300	330		3.3	250	8	4500		2M	5.5	5.0	7BK
6AU7		TRI	TWN	T6	AFA	RCO	RC	H	6.3	300	300	60	2.8	250	10	2200	17	7700	1.6	0.4	9A
6AU8A	S	TRI	PND	T6	GEN	SCO	GE	H	6.3	600	300		2.5	150	9	4900	40	8200	2.6	0.34	9DX
6AU8A	S	PND	TRI	T6	GEN	SRC	GE	H	6.3	600	300		3.0	200	15	7000		150K	7.5	3.4	9DX
6AV5GA	S	BEA	SIN	T11	HDA	RCO	GE	H	6.3	1200	550	400	11.0	250	57	5900		14K	14.0	7.0	6CK
6AV6	S	DWD	TRI	T5	DET	VAC	†NU	H	6.3	300					1						7BT
6AV6	S	TRI	DWD	T5	VA	SCO	†NU	H	6.3	300	330		0.6	250	1	1600	100	62K	2.2	0.8	7BT
6AV11	S	TRT		T9	GEN	RCO	GE	H	6.3	600	330	20	2.8	250	10	2200	17	7700	1.9		12BY
6AW6	OBS	PND	SIN	T5	VA	SCO	†HY	H	6.3	300	300		2.0	250	7	5000		800K	6.5	1.5	7CM
6AW8A	S	TRI	PND	T6	VA	SCO	SY	H	6.3	600	300		1.0	200	4	4000	70	18K	3.2	0.32	9DX
6AW8A	S	PND	TRI	T6	VHF	SRC	SY	H	6.3	600	300		3.2	200	13	9000		400K	10.0	3.6	9DX

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6AX3	S	DIO	SIN	T9	DA	VAC	GE	H	6.3	1200	5K	1000	5.3		165				7.5	5.5	12BL
6AX4GT	S+	DIO	SIN	T9	DA	VAC	TS	H	6.3	1200	4K	750	4.8	21	125					5.0	4CG
6AX5GT	S	DIO	TWN	T9	REC	VAC	RC	H	6.3	1200	1K	375		350	125						6S
6AX7		TRI	TWN	T6	VA	SCO	SY	H	6.3	300	300		1.0	250	1	1600	100	62K	1.6	0.46	9A
6AX8		TRI	PND	T6	VA	SRC	‡PL	H	6.3	450	300		2.7	150	18	8500	40	5000	2.5	1.0	9AE
6AX8		PND	TRI	T6	VHF	SRC	‡PL	H	6.3	450	300		2.8	250	10	4800		400K	5.0	3.5	9AE
6AY3A	S	DIO	SIN	T9	DA	VAC	SY	H	6.3	1200	5K	1100	6.5		175					6.5	9HP
6AY11		DWD	TTR	T9	DET	VAC	GE	H	6.3	690		5									12DA
6AY11		TTR	DWD	T9	AFA	SCO	GE	H	6.3	690	330		1.0	250	1	1900	100	53K	2.0	0.22	12DA
6AZ5		DIO	TWN	T3	GEN	VAC	SY	H	6.3	150	420	24		150	4				1.6		8DF
6AZ8	S	TRI	PND	T6	OSC	RCO	RC	H	6.3	450	300		2.5	200	13	3300	19	5750	2.0	1.7	9ED
6AZ8	S	PND	TRI	T6	IFA	SRC	RC	H	6.3	450	300		2.0	200	10	6000		300K	6.5	2.2	9ED
6B3	OBS	DIO	SIN	T6	DA	VAC	WH	H	6.3	1200	4K	750		22	150					5.3	9BD
6B10		DWD	TTR	T9	DET	VAC	GE	H	6.3	600		5									12BF
6B10		TTR	DWD	T9	OSC	RCO	GE	H	6.3	600	330	20	3.0	250	10	2500	18	7200			12BF
6BA3		DIO	SIN	T9	DA	VAC	RC	H	6.3	1200	5K	1000	5.3	32	250					4.4	9HP
6BA4	OBS	TRI	SIN	ROK	UHF		SY	H	6.3	400	200	20		150	10	8000	70				
6BA5	OBS	PND	SIN	T3	VA	SRC	SY	H	6.3	150	150		0.7	100	6	2200		175K	3.2	1.6	8DY
6BA6	S	PND	SIN	T5	RFA	RCO	RC	H	6.3	300	300		3.0	250	11	4400		1M	5.5	5.0	7BK
6BA7	S	PTG	SIN	T6	CON		RC	H	6.3	300	300	22	2.0	250	4			1M	6.7	8.3	8CT
6BA8A	S	TRI	PND	T6	VA	SRC	SY	H	6.3	600	300		2.0	200	8	2700	18	6700	2.5	0.4	9DX
6BA8A	S	PND	TRI	T6	VHF	SRC	SY	H	6.3	600	300		3.2	200	13	9000		400K	10.0	3.6	9DX
6BA11		TRI	TWP	T9	VDO	RCO	TS	H	6.3	300	300	20	1.5	250	5	1800	18		2.0	1.9	12ER
6BA11		TWP	TRI	T9	GA		TS	H	6.3	300	300	12	1.1	100		1700			6.0	3.0	12ER
6BC4		TRI	SIN	T6	UHF	SRC	RC	H	6.3	225	250	25	2.5	150	14	10000	48	4800	2.9	0.26	9DR
6BC5	S	PND	SIN	T5	RFA	SRC	‡PI	H	6.3	300	300		2.0	250	8	5700		800K	6.5	1.8	7BD
6BC7	S	TRD		T6	DET	HIP	‡PL	H	6.3	450	330	54		2	12					3.5	9AX
6BC8	S	TRI	TWN	T6	CA	SRC	SY	H	6.3	400	250	22	2.2	150	10	6200	35	5300	2.6	1.3	9AJ
6BD4A		BEA	SIN	T12	REG	SRC	RC	H	6.3	600	27K	2	25.0		1	100	2K		3.8	0.4	8FU
6BD6	S	PND	SIN	T5	IFA	RCO	RA	H	6.3	300	300	14	3.0	250	9	2000		800K	4.3	5.0	7BK
6BD11		TDI	PND	T9	GEN	SCO	GE	H	6.3	1050	330		1.5	200	7	5500	68	12K	3.0	2.2	12DP
6BD11		TDI	PND	T9	CON	SCO	GE	H	6.3	1050	330		2.0	200	9	4400	41	9400	2.4	3.8	12DP
6BD11		PND	TDI	T9	VHF	SCO	GE	H	6.3	1050	330		4.0	135	17	10400		45K	11.0	4.6	12DP
6BE3	S	DIO	SIN	T9	DA	VAC	GE	H	6.3	1200	5K	1200	6.5							8.0	12BL
6BE6	S	PTG	SIN	T5	CON		RC	H	6.3	300	300	14	1.0	250	3			1M	5.5	8.0	7CH
6BE8	S	TRI	PND	T6	OSC	SRC	SY	H	6.3	450	300		2.5	150	18	8500	40	5000	2.8	1.5	9EG
6BE8	S	PND	TRI	T6	MIX	SRC	SY	H	6.3	450	300		2.8	250	10	5200		400K	4.4	2.6	9EG
6BF5		BEA	SIN	T5	VDA	RCO	‡PL	H	6.3	1200	250	120	5.0	110	39	7500		12K	14.0	6.0	7BZ
6BF6	S	DWD	TRI	T5	DET	VAC	RC	H	6.3	300					1						7BT
6BF6	S	TRI	DWD	T5	AFA	RCO	RC	H	6.3	300	300		2.5	250	10	1900	16	8500	1.8	0.7	7BT
6BF7W	OBS	TRI	TWN	T3	GEN	SRC	SY	H	6.3	300	110		1.0	100	8	4800	35	7000	2.0	0.28	8DG
6BF11		PND	DIS	T9	DET	SCO	GE	H	6.3	1200	330		1.7	150	1	1000		150K			12EZ

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6BF11		PND	DIS	T9	AFA		GE	H	6.3	1200	165	65	6.5	145	36	8600		30K	13.0	10.0	12EZ
6BF8		DIO	SXT	T6	DET	VAC	GE	H	6.3	450	165	11			5					4.4	9NX
6BG6GA		BEA	SIN	T12	HDA	RCO	GE	H	6.3	900	700	400	20.0	250	75	6000		25K	11.0	6.0	5BT
6BH3		DIO	SIN	T9	DA	VAC	RC	H	6.3	1600	6K	1100	6.5							6.5	9HP
6BH6	S	PND	SIN	T5	RFA	SRC	RC	H	6.3	150	300		3.0	250	7	4600		1M	5.4	4.4	7CM
6BH8	S	TRI	PND	T6	GEN	SRC	GE	H	6.3	600	300		2.5	150	10	3300	17	5150	2.6	0.38	9DX
6BH8	S	PND	TRI	T6	GEN	SRC	GE	H	6.3	600	300		3.0	200	15	7000		150K	7.0	2.4	9DX
6BJ3		DIO	SIN	T9	DA	VAC	GE	H	6.3	1200	3K	840	4.0	21	250					5.5	12BL
6BJ6	S	PND	SIN	T5	RFA	RCO	TS	H	6.3	150	300		3.0	250	9	3600		1M	4.5	5.5	7CM
6BJ7	S	TRD		T6	DET	VAC	GE	H	6.3	450	330	10			1					3.0	9AX
6BJ8		DWD	TRI	T6	REC	VAC	SY	H	6.3	600		54		3	9						9ER
6BJ8		TRI	DWD	T6	OSC	RCO	SY	H	6.3	600	330	22	4.0	250	8	2800	20	7150	2.8	0.31	9ER
6BK4		BEA	SIN	T12	REG	SRC	RC	H	6.3	200	27K	2	25.0		1	200	2K		2.6	1.0	8GC
6BK5		BEA	SIN	T6	PA	SRC	GE	H	6.3	1200	250		9.0	250	37	8500		100K	13.0	5.0	9BQ
6BK6	OBS	DWD	TRI	T5	REC	HIP	SY	H	6.3	300					1						7BT
6BK6	OBS	TRI	DWD	T5	VA	SCO	SY	H	6.3	300	300			250	1	1600	100	62K			7BT
6BK7A	S	TRI	TWN	T6	CA	SRC	GE	H	6.3	450	300		2.7	150	18	9300	43	4600	3.0	1.0	9AJ
6BL4		DIO	SIN	T12	DA	VAC	RC	H	6.3	3000	4K	1200	8.0	12	200					11.5	8GB
6BL7GTA	S	TRI	TWN	T9	VDA	RCO	SY	H	6.3	1500	500	210	10.0	250	40	7000	15	2150	4.2	0.9	8BD
6BL8	S	TRI	PND	T6	CON	SCO	TS	H	6.3	450	250	14	1.5	100	14	5000	20		2.5	1.8	9DC
6BL8	S	PND	TRI	T6	CON		TS	H	6.3	450	250	14	1.7	170	10	6200		400K	5.5	3.8	9DC
6BN4A		TRI	SIN	T5	VHF	SCO	GE	H	6.3	200	275	22	2.2	150	9	6800	43	6300	3.2	1.4	7EG
6BN6		GTB	SIN	T5	DIS		GE	H	6.3	300	300	12		121	440U				4.2		7DF
6BN8		DWD	TRI	T6	DET	VAC	SY	H	6.3	600		54		3	9					1.9	9ER
6BN8		TRI	DWD	T6	VHF	SCO	SY	H	6.3	600	330		1.7	250	2	2500	70	28K	3.6	0.25	9ER
6BQ5		BEA	SIN	T6	PA	SRC	SY	H	6.3	760	300	65	12.0	250	50	11300		38K	10.8	6.5	9CV
6BQ6GT	S	BEA	SIN	T9	HDA	RCO	SY	H	6.3	1200	550	400	11.0	250	55	5500		20K	15.0	7.5	6AM
6BQ7A	S	TRI	TWN	T6	CA	SCO	RC	H	6.3	400	250	20	2.0	150	9	6400	38	5900	2.6	1.2	9AJ
6BR3		DIO	SIN	T6	DA	VAC	TO	H	6.3	1200	6K	1200	6.5	19	250					8.5	9CB
6BR5	S	TRI	TWN	T6	IND		AM	H	6.3	300	300	3	0.2	250	370U						
6BR8A	S	TRI	PND	T6	OSC	SRC	SY	H	6.3	450	300		2.7	150	18	8500	40	5000			9FA
6BR8A	S	PND	TRI	T6	MIX	SRC	SY	H	6.3	450	300		2.8	250	10	5200		400K	5.0	2.6	9FA
6BS3		DIO	SIN	T9	DA	VAC	RC	H	6.3	1200	5K	1100	6.0	12	140					6.5	9HP
6BS8	S	TRI	TWN	T6	CA	SCO	WH	H	6.3	400	150	20	2.0	150	10	7200	36	5000	2.6	1.4	9AJ
6BT8	OBS	DWD	PND	T6	DET	VAC	WH	H	6.3	450					1					1.3	9FE
6BT8	OBS	PND	DWD	T6	IFA	SRC	WH	H	6.3	450	300		2.0	200	10	6200		300K	7.0	2.3	9FE
6BU5		BEA	SIN	T12	REG	SCO	GE	H	6.3	150	20K	2	20.0	20K	1				3.0	0.9	
6BU8A	S	PND	TWN	T6	VHF	SCO	CG	H	6.3	300	300	12	1.1	100	2	1500			6.0	3.0	9FG
6BV8	OBS	DWD	TRI	T6	DET	VAC	GE	H	6.3	600					10					2.4	9FJ
6BV8	OBS	TRI	DWD	T6	VA	SRC	GE	H	6.3	600	330		2.7	200	11	5600	33	5900	3.6	0.4	9FJ
6BW4	S	DIO	TWN	T6	REC	VAC	SY	H	6.3	900	1K	350		325	100						9DJ
6BW8		DWD	PND	T6	DET	VAC	GE	H	6.3	450					5					1.3	9HK
6BW8		PND	DWD	T6	IFA	SRC	GE	H	6.3	450	330		3.0	250	10	5200		250K	4.8	2.6	9HK
6BX7GT	S	TRI	TWN	T9	VDA	RCO	SY	H	6.3	1500	500	180	10.0	250	42	7600	10	1300	4.4	1.1	8BD
6BX8	OBS	TRI	TWN	T6	VHF	SCO	WH	H	6.3	400	150	20	2.0	65	9	6700	25		2.4	1.25	9AJ

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6BY5GA		DIO	TWN	T12	DA	VAC	SY	H	6.3	1600	3K	525			175						6CN
6BY6	S	PTG	SIN	T5	GA	SRC	RC	H	6.3	300	300		2.0	250	6	1900			5.4	7.6	7CH
6BY8		DIO	PND	T6	DET	HIP	‡PL	H	6.3	600	430	180			45					4.8	9FN
6BY8		PND	DIO	T6	VA	SCO	‡PL	H	6.3	600	300		3.0	250	11	5200		1M	5.5	5.0	9FN
6BZ6	S	PND	SIN	T5	IFA	RCO	SY	H	6.3	300	330		2.3	125	14	8000		260K	7.0	2.0	7CM
6BZ7	S	TRI	TWN	T6	CA	SCO	‡PL	H	6.3	400	250	20	2.0	150	10	6800	36	5300	2.6	1.2	9AJ
6BZ8	S	TRI	TWN	T6	CA	SRC	‡PL	H	6.3	400	250	20	2.2	125	10	8000	45	5600			9AJ
6C4WA	S*	TRI	SIN	T5	OSC	RCO	RC	H	6.3	150	330	28	3.8	250	10	2200	17	7700	1.7	1.1	6BG
6C5	S	TRI	SIN	MT8	GEN	RCO	RC	H	6.3	300	300		2.5	250	8	2000	20	10K	3.0	11.0	6Q
6C6	S	PND	SIN	ST12	GEN	SCO	GE	H	6.3	300	300		0.8	250	2	1200		1M	5.0	6.5	6F
6C9		TET	TWN	T6	VHF	SCO	SY	H	6.3	400	250	20	1.5	125	10	8000		100K			10F
6C10		TRT		T9	GEN		GE	H	6.3	450	330		1.0	250	1	1600	100	62K	1.6		12BQ
6CA4		DIO	TWN	T6	REC	VAC	RE	H	6.3	1000	1K	500		350	150						9M
6CA5		BEA	SIN	T5	PA	SRC	GE	H	6.3	1200	130		5.0	125	37	9200		15K	15.0	9.0	7CV
6CA7		PND	SIN	T9	PA	RCO	TS	H	6.3	1500	800	150	25.0	250	100	11000		15K			8ET
6CB5A	S	BEA	SIN	T12	HDA	RCO	RC	H	6.3	2500	800	770	23.0	175	90	8800		5000	22.0	10.0	8GD
6CB6A	S	PND	SIN	T5	IFA	SCO	RC	H	6.3	300	300		2.3	200	10	6200		600K	6.5	2.0	7CM
6CD6GA	S	BEA	SIN	T12	HDA	RCO	GE	H	6.3	2500	700	700	20.0	175	75	7700		7200	22.0	8.5	5BT
6CE5	S	PND	SIN	T5	RFA	SCO	‡HY	H	6.3	300	300		2.2	125	11	7600		300K	6.5	1.9	7BD
6CF6	S	PND	SIN	T5	IFA	SCO	RC	H	6.3	300	300		2.0	200	10	6200		600K	6.5	2.0	7CM
6CG7	S	TRI	TWN	T6	GEN	RCO	RC	H	6.3	600	300	20	3.5	250	9	2600	20	7700	2.3	2.2	9AJ
6CG8A	S	TRI	PND	T6	OSC	SRC	GE	H	6.3	450	250		1.5	100	8	5800	40	6900	2.6	0.05	9GF
6CG8A	S	PND	TRI	T6	MIX	SCO	GE	H	6.3	450	250		2.0	250	8	4600		750K	4.8	0.9	9GF
6CH7	OBS	TRI	TWN	T6	CA	SCO	GE	H	6.3	400	250	20	2.0	150	10	6800	36	5300	2.4	0.8	9EW
6CH8	S	TRI	PND	T6	GEN	RCO	RC	H	6.3	450	300		2.6	200	13	3300	19	5750	1.9	1.6	9FT
6CH8	S	PND	TRI	T6	GEN	SRC	RC	H	6.3	450	300		2.0	200	10	6200		300K	7.0	2.25	9FT
6CK4		TRI	SIN	T9	VDA	RCO	SY	H	6.3	1250	550	350	12.0	250	40	5500	7	1200	8.0	1.8	8JB
6CL5	S	BEA	SIN	T12	HDA	RCO	SY	H	6.3	2500	700	840	25.0	175	90	6500		6000	20.0	11.5	8GD
6CL6	S	PND	SIN	T6	PA	SRC	RC	H	6.3	650	300		7.5	250	31	11000		150K	11.0	5.5	9BV
6CL8A	S	TRI	TET	T6	OSC	SRC	GE	H	6.3	450	330		2.5	125	14	8000	40	5000	2.8	1.5	9FX
6CL8A	S	TET	TRI	T6	MIX	SRC	GE	H	6.3	450	330		3.0	125	12	6500		200K	5.0	2.0	9FX
6CM6	S	BEA	SIN	T6	PA	RCO	SY	H	6.3	450	315		12.0	250	47	4100		50K	8.0	8.5	9CK
6CM7		TRI	DIS	T6	VDA	RCO	RC	H	6.3	600	500	70	5.5	250	20	4400	18	4100	3.5	0.4	9ES
6CM7		TRI	DIS	T6	VDO	SRC	RC	H	6.3	600	500	70	1.2	200	5	2000	21	10K	2.0	0.5	9ES
6CM8	S	TRI	PND	T6	GEN	SCO	SY	H	6.3	450	300		1.0	250	2	2000	100	50K	1.6	0.22	9FZ
6CM8	S	PND	TRI	T6	GEN	SRC	SY	H	6.3	450	300		2.0	200	10	6200		600K	6.0	2.6	9FZ
6CN7	S	DWD	TRI	T6	DET	VAC	GE	H	6.3	300					5					3.6	9EN
6CN7	S	TRI	DWD	T6	VA	SCO	GE	H	6.3	300	300		1.0	250	1	1200	70	58K	1.5	0.5	9EN
6CQ4	S	DIO	SIN	T9	DA	VAC	WH	H	6.3	1600	6K	1200	6.5						8.5	11.5	
6CQ8	S	TRI	TET	T6	OSC	SCO	RC	H	6.3	450	300		2.7	125	15	8000	40	5000	2.7	1.2	9GE
6CQ8	S	TET	TRI	T6	MIX	SCO	RC	H	6.3	450	300		2.8	125	12	5800		140K	5.0	3.3	9GE
6CR5	OBS	BEA	SIN	T6	HDA	RCO	WH	H	6.3	1200	600	400	11.0	250	65	6000		18K	12.9	6.9	9HC

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS h	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6CR6		DIO	PND	T5	DET	VAC	TS	H	6.3	300					2						7EA
6CR6		PND	DIO	T5	AFA	RCO	TS	H	6.3	300	300		2.5	250	10	2200		800K			7EA
6CR8	OBS	TRI	PND	T6	GEN	SRC	SY	H	6.3	450	330		2.8	125	12	4000	22	5500	2.0	1.4	9GJ
6CR8	OBS	PND	TRI	T6	IFA	SCO	SY	H	6.3	450	330		2.3	125	13	7700		300K	6.0	2.8	9GJ
6CS5	S	BEA	SIN	T6	PA	RCO	‡HY	H	6.3	1200	300		10.0	200	47	8000		28K	15.0	9.0	9GR
6CS6	S	PTG	SIN	T5	GA	SCO	SY	H	6.3	300	300	14	1.0	100	1	1100		1M	5.5	7.5	7CH
6CS7		TRI	DIS	T6	OSC	RCO	SY	H	6.3	600	500	70	1.2	250	10	2200	17	7700	1.8	0.5	9EF
6CS7		TRI	DIS	T6	VDA	RCO	SY	H	6.3	600	500	105	6.5	250	19	4500	16	3450	3.0	0.5	9EF
6CS8	OBS	TRI	PND	T6	GEN	SRC	SY	H	6.3	450	330		2.8	125	12	4000	22	5500	1.9	0.26	9FZ
6CS8	OBS	PND	TRI	T6	IFA	SCO	SY	H	6.3	450	330		2.3	125	13	7700		300K	6.0	2.8	9FZ
6CU5		BEA	SIN	T5	PA	RCO	RC	H	6.3	1200	135		6.0	120	50	7500		10K	13.0	8.5	7CV
6CU6	S	BEA	SIN	T11	HDA	RCO	‡HY	H	6.3	1200	600	400	11.0	250	57	5900		14K	15.0	7.0	6AM
6CU8	S	TRI	PND	T6	GEN	RCO	RC	H	6.3	450	300		2.6	200	13	3300	19	5750	1.9	1.6	9GM
6CU8	S	PND	TRI	T6	GEN	SRC	RC	H	6.3	450	300		2.0	200	10	6200		300K	7.0	2.4	9GM
6CW4	S	TRI	SIN	MT4	RFA	SCO	RC	H	6.3	130	135		1.5	70	7	12500	68	5440	4.3	1.8	12AQ
6CW5		PND	SIN	T6	AFA	RCO	RE	H	6.3	760	275	110	14.0	170	70	10000		23K	12.0	6.0	9CV
6CX7	S	TRI	TWN	T6	CA	SRC	SY	H	6.3	400	250	20	2.0	150	9	6400	39		2.4	1.3	9FC
6CX8	S	TRI	PND	T6	GEN	SCO	GE	H	6.3	750	330		2.0	150	9	4600	40	8700	2.2	0.38	9DX
6CX8	S	PND	TRI	T6	VHF	SRC	GE	H	6.3	750	330		5.0	200	24	10000		70K	9.0	4.4	9DX
6CY5	S	TET	SIN	T5	VHF	SCO	WH	H	6.3	200	180	20	2.0	125	10	8000		100K	4.5	3.0	7EW
6CY7		TRI	DIS	T6	VDA	RCO	GE	H	6.3	750	350	120	5.5	150	30	5400	5	920	5.0	1.0	9EF
6CY7		TRI	DIS	T6	VDO	SCO	GE	H	6.3	750	350		1.0	250	1	1300	68	52K	1.5	0.3	9EF
6CZ5	S	BEA	SIN	T6	PA	RCO	RC	H	6.3	450	350	140	12.0	250	48	4800		73K	6.0	6.0	9HN
6D4	S+	TRI	SIN	T5	THY	GAS	SY	H	6.3	250	350	110		300	25						5AY
6D10		TRT		T9	GEN	SCO	SY	H	6.3	450	330		2.0	125	4	4200	57	14K	2.2	0.5	12BQ
6DA4A		DIO	SIN	T9	DA	VAC	SY	H	6.3	1200	5K	900	8.0	30	185				9.0	7.0	4CG
6DA5	S	TRI	TWN	T6	IND		AM	H	6.3	300	300	3	0.2	250	370U						
6DA7	OBS	TRI	DIS	T6	VDA	RCO	‡HY	H	6.3	1000	500	40	6.0	150	40	5700	6	1100	5.5	0.82	9EF
6DA7	OBS	TRI	DIS	T6	VDO	SRC	‡HY	H	6.3	1000	300	20	2.0	250	9	2600	20	7700	2.0	0.42	9EF
6DB5	S	BEA	SIN	T6	VDA	RCO	‡HY	H	6.3	1200	300	200	10.0	200	47	8000		28K	15.0	9.0	9GR
6DB6		PND	SIN	T5	VHF	SCO	WH	H	6.3	300	300		3.0	150	6	2000		50K	6.0	5.0	7CM
6DC6		PND	SIN	T5	VA	SRC	RC	H	6.3	300	300		2.0	200	9	5500		500K	6.5	2.0	7CM
6DC8		DWD	PND	T6			RE	H	6.3	300	200	5			800U						9HE
6DC8		PND	DWD	T6			RE	H	6.3	300	300	16	2.2	200	11	4500		600K	5.0	5.2	9HE
6DE4	S	DIO	SIN	T9	DA	VAC	RC	H	6.3	1600	5K	1100	6.5		175						4CG
6DE6	S	PND	SIN	T5	IFA	SRC	‡PL	H	6.3	300	330		2.3	125	16	8000		250K	6.5	2.0	7CM
6DE7	S	TRI	DIS	T6	VDA	RCO	SY	H	6.3	900	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
6DE7	S	TRI	DIS	T6	VDO	RCO	SY	H	6.3	900	330	77	1.5	250	6	2000	18	8750	2.2	0.52	9HF
6DG6GT	S	BEA	SIN	T9	PA	RCO	RA	H	6.3	1200	200		10.0	200	47	8000		28K	15.0	10.0	7S
6DJ8	S	TRI	TWN	T6	CA	SRC	RE	H	6.3	365	130	25	1.8	90	15	12500	33				9AJ
6DK6	S	PND	SIN	T5	VHF	SCO	RA	H	6.3	300	330		2.3	125	12	9800		350K	6.3	1.9	7CM
6DL5		PND	SIN	T5	PA	SRC	RE	H	6.3	200	300	35	6.0	250							7DQ
6DM4A	S	DIO	SIN	T9	DA	VAC	WH	H	6.3	1200	5K	1200	6.5	200						8.5	4CG

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6DN6		BEA	SIN	T12	HDA	RCO	SY	H	6.3	2500	700	700	15.0	125	70	9000		4000	22.0	11.5	5BT
6DN7		TRI	DIS	T9	VDA	RCO	GE	H	6.3	900	550	150	10.0	250	41	7700	15	2000	4.6	1.0	8BD
6DN7		TRI	DIS	T9	VDO	RCO	GE	H	6.3	900	350		1.0	250	8	2500	22	9000	2.2	0.7	8BD
6DQ4	S	DIO	SIN	T9	DA	VAC	RA	H	6.3	1200	6K	1000	6.0		175					5.0	4CG
6DQ5		BEA	SIN	T12	PA	RCO	RC	H	6.3	2500	900	1000	24.0	175	110	10500		5500	23.0	11.0	8JC
6DQ6B		BEA	SIN	T12	HDA	RCO	GE	H	6.3	1200	770	610	18.0	250	65	7300		18K	15.0	7.0	6AM
6DR4		TRI	SIN	T5	VA	SCO	#HY	H	6.3	150	330		1.2	250	1	1600	100	62K	1.6	0.46	6BG
6DR7	S	TRI	DIS	T6	VDA	RCO	SY	H	6.3	900	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
6DR7	S	TRI	DIS	T6	VDO	SCO	SY	H	6.3	900	330	70	1.0	250	1	1600	68	40K	2.2	0.34	9HF
6DR8		DWD	PND	T6	DET	VAC	RE	H	6.3	300		5									9HE
6DR8		PND	DWD	T6	IFA		RE	H	6.3	300	50	5		25	2	2100		200K			9HE
6DS4	S+	TRI	SIN	MT4	RFA	SRC	RC	H	6.3	135	300	15	1.0	110	7	9000	63	7000	4.3	1.8	12AQ
6DS5		BEA	SIN	T5	PA	RCO	RC	H	6.3	800	250		8.0	250	32	5800		28K	9.5	6.3	7BZ
6DS8		TRI	PTG	T6	VA		RE	H	6.3	300	250	6	0.8	25	2	2200	20				9CA
6DS8		PTG	TRI	T6	CON		RE	H	6.3	300	50	5		25	1	1500		200K			9CA
6DT4		DIO	SIN	T9	DA	VAC	RA	H	6.3	1200	6K	1450	7.5						7.5	10.0	4CG
6DT5		BEA	SIN	T6	VDA	RCO	WH	H	6.3	1200	315	190	9.0	250	38	6200			12.5	4.9	9HN
6DT6		PND	SIN	T5	DET	SCO	RC	H	6.3	300	330		1.7	150	1	800		150K	5.8		7EN
6DT8		TRI	TWN	T6	RFA	SRC	RC	H	6.3	300	300		2.5	250	10	5500	60	11K	2.7	1.6	9AJ
6DV4	+	TRI	SIN	MT4	OSC	SCO	RC	H	6.3	135	125	15	1.0		10	11500	35	3100	4.4	1.9	12EA
6DW4	S	DIO	SIN	T9	DA	VAC	RC	H	6.3	1200	5K	1300	8.5	25	350					6.5	9HP
6DW5	S	BEA	SIN	T6	PA	RCO	SY	H	6.3	1200	330	225	11.0	200	55	5500		15K	14.0	9.0	9CK
6DX4		TRI	SIN	T5	UHF		WH	H	6.3	200	150	20	2.2	85	10	11000	30	2700	3.7	0.38	7DK
6DX8	S	TRI	PND	T6	PA	SCO	RE	H	6.3	720	300	12	1.0	200	3	4000	65				9HX
6DX8	S	PND	TRI	T6	PA	SCO	RE	H	6.3	720	300	40	4.0	170	18	11000		100K			9HX
6DY7		BEA	TWN	T12	PA	RCO	SY	H	6.3	1200	400		15.0	250	50	6000		28K			8JP
6DZ4		TRI	SIN	T5	UHF	SRC	SY	H	6.3	225	135	20	2.3	80	15	6700	14	2000	2.2	1.3	7DK
6DZ7		PND	TWN	T12	PA	SRC	GE	H	6.3	1520	440		13.2	250	48	11300		38K	11.0	5.0	8JP
6DZ8	OBS	TRI	PND	T6	AFA	SCO	SO	H	6.3	900	150	5	0.8	120	800U	1400	100				9EX
6DZ8	OBS	PND	TRI	T6	PA		SO	H	6.3	900	150	60	6.5	145	45	7500					9EX
6E5	S	TRI	DIS	T9	IND		RC	H	6.3	300	250			250	240U						6R
6EA5	S	TET	SIN	T5	VHF	SCO	#PL	H	6.3	200	250	20	3.2	250	10	8000		150K	3.8	2.3	7EW
6EA7	S	TRI	DIS	T9	VDA	RCO	GE	H	6.3	1050	550	50	10.0	175	48	6500	5	770	6.0	1.3	8BD
6EA7	S	TRI	DIS	T9	VDO	SCO	GE	H	6.3	1050	350		1.0	250	2	1900	65	34K	2.2	0.6	8BD
6EA8	S	TRI	PND	T6	OSC	SRC	GE	H	6.3	450	330		3.0	150	18	8500	40	5000	3.0	0.3	9AE
6EA8	S	PND	TRI	T6	MIX	SRC	GE	H	6.3	450	330		3.1	125	12	6400		80K	5.0	2.6	9AE
6EB5	OBS	DIO	TWN	T5	REC	VAC	#PL	H	6.3	300	550	40			6						6BT
6EB8	S	TRI	PND	T6	VA	SCO	SY	H	6.3	750	330		1.0	250	2	2700	100	37K	2.4	0.36	9DX
6EB8	S	PND	TRI	T6	VHF	SRC	SY	H	6.3	750	330		5.0	200	25	12500		75K	11.0	4.2	9DX
6EC7		PND	SIN	T6	RFA	SRC	TA	H	6.3	200	250		2.2	175	12	4400					9AQ
6EF6	OBS	BEA	SIN	T9	VDA	RCO	RA	H	6.3	900	250	180	10.0	250	50	5000			11.5	9.0	7S
6EH5		PND	SIN	T5	PA	SCO	RC	H	6.3	1200	135		5.0	110	42	14600		11K	17.0	9.0	7CV
6EH7		PND	SIN	T6	IFA		RE	H	6.3	300	250	20	2.5	200	12	12500		500K	10.0	3.0	9AQ
6EH8		TRI	PND	T6	OSC	SRC	SY	H	6.3	450	300		2.5	125	14	7500	40		2.8	1.7	9JG
6EH8		PND	TRI	T6	MIX	SRC	SY	H	6.3	450	300		2.8	125	12	6000		170K	4.8	2.4	9JG

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6EJ7		PND	SIN	T6	IFA		RE	H	6.3	300	250	25	2.5	200	10	15000		350K	10.0	3.0	9AQ
6EL7		PND	SIN	T6			TA	H	6.3	300	250		3.0	170	10	9200					9AQ
6EM5		BEA	SIN	T6	PA	RCO	RC	H	6.3	800	315	210	10.0	250	35	5100			10.0	5.1	9HN
6EM7	S	TRI	DIS	T9	VDA	RCO	SY	H	6.3	900	330	175	10.0	150	50	7200	5	750	7.0	1.8	8BD
6EM7	S	TRI	DIS	T9	VDO	SCO	SY	H	6.3	900	330	77	1.5	250	1	1600	68	40K	2.2	0.6	8BD
6EQ7		DIO	PND	T6	DET	VAC	RC	H	6.3	300				10	2						9LQ
6EQ7		PND	DIO	T6	RFA	RCO	RC	H	6.3	300	300		3.0	100	9	3800		250K	5.5	5.0	9LQ
6ER5	S	TRI	SIN	T5	VHF	SRC	AM	H	6.3	180	250	20	2.2	200	10	10500	80		4.4	4.0	7FP
6ES5	S	TRI	SIN	T5	AFA	SCO	‡PL	H	6.3	200	250	22	2.2	200	10	9000	75	8000	3.2	3.2	7FP
6ES6	S	PND	SIN	T5	RFA	RCO	RE	H	6.3	300	50	15	0.5	25	3	2100		50K			7EN
6ES8		TRI	TWN	T6	CA	SRC	RE	H	6.3	365	130	22	1.8	90	15	12500		2500			9AJ
6ET6	S	PND	SIN	T5	GEN	SCO	RE	H	6.3	300	50	15	0.5	25	2	2100		90K			7EN
6ET7		DIO	PND	T6	DET	VAC	SY	H	6.3	900					2						9LT
6ET7		PND	DIO	T6	VHF	SRC	SY	H	6.3	900	330		5.0	200	25	11500		60K	10.0	4.2	9LT
6EU7	+	TRI	TWN	T6	AFA	SCO	RC	H	6.3	300	330		1.2	250	1	1600	100	62K	1.6	0.2	9LS
6EU8	S	TRI	PND	T6	OSC	SRC	RA	H	6.3	450	330		3.0	150	18	8500	40	5000	3.0	1.6	9JF
6EU8	S	PND	TRI	T6	MIX	SRC	RA	H	6.3	450	330		3.1	125	12	6400		80K	5.0	2.6	9JF
6EV5		TET	SIN	T5	VHF	SCO	WH	H	6.3	200	275	20	3.2	250	12	8800		150K	4.5	2.9	7EW
6EV7		TRI	TWN	T6	ONA	SRC	RC	H	6.3	600	300	20	2.5	250	9	5200	60	12K	0.3	0.33	9LP
6EW6	S	PND	SIN	T5	IFA	SCO	GE	H	6.3	400	330		3.1	125	11	14000		200K	10.0	2.4	7CM
6EW7	S	TRI	DIS	T9	VDA	RCO	SY	H	6.3	900	330	175	10.0	150	45	7500	6	800	7.0	1.2	9HF
6EW7	S	TRI	DIS	T9	VDO	RCO	SY	H	6.3	900	330	77	1.5	250	6	2000	18	8750	2.2	0.4	9HF
6EX6	OBS	BEA	SIN	T12	HDA	RCO	RA	H	6.3	2250	770	220	22.0	175	67	7700		8500	22.0	8.5	5BT
6EY6		BEA	SIN	T9	VDA	RCO	GE	H	6.3	680	350	180	11.0	250	44	4400		60K	8.5	7.0	7S
6EZ5	S	BEA	SIN	T9	VDA	RCO	GE	H	6.3	800	350	75	12.0	250	43	4100		50K	9.0	7.0	7S
6EZ8		TRT		T6	GEN	SRC	GE	H	6.3	450	330		2.0	125	4	4200	57	14K	2.4		9KA
6F6GT	S	PND	SIN	T9	PA	RCO	RC	H	6.3	700	375		11.0	250	36	2500		80K			7S
6FA7		DIO	TET	T6		VAC	RC	H	6.3	300				10	1						9MR
6FA7		TET	DIO	T6		SCO	RC	H	6.3	300	330		1.5	100	4	3200		90K		1.8	9MR
6FC7		TRI	TWN	T6	CA	SCO	MU	H	6.3	340	130	22	1.8	90	15	12000			6.3	4.5	9DD
6FD6		PND	SIN	T5	IFA	SCO	RA	H	6.3	330	30	20		13	1	1400		500K	5.5	4.8	7BK
6FD7	S	TRI	DIS	T9	VDA	RCO	‡PL	H	6.3	925	330	175	10.0	150	40	7500	6	800	6.5	1.2	9HF
6FD7	S	TRI	DIS	T9	VDO	SCO	‡PL	H	6.3	925	330	70	1.5	250	1	1600	64	40K	2.2	0.40	9HF
6FE5		BEA	SIN	T9	AFA	RCO	RC	H	6.3	1200	175		14.5	130	88	9500		8000	15.0	9.0	8KB
6FG5		PND	SIN	T5	VHF	SCO	GE	H	6.3	200	275	20	2.8	250	9	9500		250K	4.2	2.8	7GA
6FG6		TRI	SIN	T6	IND		RE	H	6.3	270	300	3	0.5	250	2						
6FG7		TRI	PND	T6	OSC	SCO	GE	H	6.3	450	330		2.5	125	13	7500	43	5700	3.0	1.3	9GF
6FG7		PND	TRI	T6	MIX	SRC	GE	H	6.3	450	330		3.0	125	11	6000		180K	5.0	2.4	9GF
6FH5		TRI	SIN	T5	VHF	SCO	‡PL	H	6.3	200	150	22	2.2	135	11	9000		5600	3.2	3.2	7FP
6FH6	OBS	BEA	SIN	T12	HDA	RCO	SY	H	6.3	1200	770	500	17.0	250	75	6000		12K	33.0	8.0	6AM
6FH8		TRI	TET	T6	OSC	SCO	RC	H	6.3	450	275		1.7	100	8	5400	40	7400	1.4	2.6	9KP

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6FH8		TET	TRI	T6	VA	SCO	RC	H	6.3	450	275			250	7	4400		750K	4.5	1.4	9KP
6FJ7		TRI	DIS	T9	VDA	RCO	GE	H	6.3	900	550	150	10.0	250	41	7700	15	2000	4.0	0.54	12BM
6FJ7		TRI	DIS	T9	VDO		GE	H	6.3	900	350		1.0	250	8	2500	22	9000	2.2	0.48	12BM
6FK5		TRI	SIN	T5	RFA		SY	H	6.3	190	200	22	2.3	135	12	15000	75	5000	4.4	2.6	7GM
6FM7		TRI	DIS	T9	VDA	RCO	GE	H	6.3	1050	550	50	10.0	175	40	6000	6	920	7.0	1.1	12EJ
6FM7		TRI	DIS	T9	VDO	SCO	GE	H	6.3	1050	350		1.0	250	2	2200	66	30K	2.4	0.4	12EJ
6FM8		DWD	TRI	T6	DET	VAC	GE	H	6.3	450		5									9KR
6FM8		TRI	DWD	T6	AFA	SCO	GE	H	6.3	450	330		1.1	250	1	1200	70	58K	1.5	0.16	9KR
6FN5		PND	SIN	T12	HDA	RCO	CI	H	6.3	1650	250	700	16.0	100		17000		3500	25.0	11.0	8GD
6FQ5A	S	TRI	SIN	T5	VHF	SCO	SY	H	6.3	180	200	22	2.5	135	9	12000	74	6300	5.0	3.5	7FP
6FQ7		TRI	TWN	T6	GEN	RCO	RC	H	6.3	600	330	22	4.0	250	9	2600	20	7700			9LP
6FR7		TRI	DIS	T9	VDA	RCO	SY	H	6.3	925	330	175	10.0	150	50	7200	5	750	7.5	1.2	9HF
6FR7		TRI	DIS	T9	VDO	SCO	SY	H	6.3	925	330	77	1.5	250	1	1600	68	40K	2.4	0.30	9HF
6FS5		BEA	SIN	T5	RFA	SCO	GE	H	6.3	200	300	20	3.2	275	10	10000		240K	4.8	2.0	7GA
6FV6		TET	SIN	T5	RFA	SCO	RC	H	6.3	200	300	20	2.0	125	10	8000		100K	4.5	3.0	7FQ
6FV8A	S	TRI	PND	T6	VDO	SRC	WH	H	6.3	450	330	70	2.0	125	12	8000	45	5600	2.8	1.5	9FA
6FV8A	S	PND	TRI	T6	GEN	SRC	WH	H	6.3	450	330		2.3	125	12	6500		200K	5.0	2.0	9FA
6FW5		BEA	SIN	T12	HDA	RCO	GE	H	6.3	1200	770	550	17.5	250	75	6600		20K	17.0	7.0	6CK
6FW7		TRI	DIS	T3	MIX	SCO	TO	H	6.3	300	150	20		90	7	6000	36	6000	2.6	1.8	8LM
6FW7		TRI	DIS	T3	OSC	SRC	TO	H	6.3	300	150	20		90	9	9500	36	3800	3.0	1.4	8LM
6FW8	S	TRI	TWN	T6	RFA	SRC	RC	H	6.3	400	250	22	2.2	125	15	12500	33	2600	3.4	2.4	9AJ
6FX7		TRI	TWN	T3	AFA	SCO	TO	H	6.3	300	100	20	1.7	90	9	9500	36	3800	5.5	2.95	8LK
6FY5	S	TRI	SIN	T5	VHF	RCO	AM	H	6.3	200	200	20	2.2	135	11	13000	70		4.75	3.3	7FP
6FY7		TRI	DIS	T9	VDA	RCO	GE	H	6.3	1050	275	50	7.0	150	45	7500	6	800	6.5	1.2	12EO
6FY7		TRI	DIS	T9	VDO	SCO	GE	H	6.3	1050	330	20	1.0	250	1	1600	65	40K	2.2	0.4	12EO
6FY8		TRI	PND	T6	VA		#HY	H	6.3	1200	150		1.0	125	2	2000					9EX
6FY8		PND	TRI	T6	HF		#HY	H	6.3	1200	150		8.0	125	50	7500					9EX
6G11		PND	DIS	T9	AFA	SCO	GE	H	6.3	1200	330		1.7	150	1	1000		150K			12BU
6G11		PND	DIS	T9	DET	SRC	GE	H	6.3	1200	150	65	6.5	120	50	7500		10K	12.0	12.0	12BU
6GA7		DIO	PND	T12	DA	VAC	RA	H	6.3	2260	6K	140	5.0								12EB
6GA7		PND	DIO	T12	PA	RCO	RA	H	6.3	2260	770	150	15.0	250	75	6600		20K			12EB
6GA8		TRI	TWN	T6	GEN		TA	H	6.3	300	250		2.0			3400	18				.9AJ
6GB5		BEA	SIN	T9	PA	SRC	AM	H	6.3	1380	275	275	6.0	75	440						9NH
6GC5		BEA	SIN	T9	PA		SY	H	6.3	1200	220		12.0	200	47	8000		28K	18.0	7.0	9EU
6GC6		BEA	SIN	T12	HDA	RCO	RA	H	6.3	1200	770	550	17.5	250	345	6600		20K	15.0	7.0	8JX
6GD7		TRI	PND	T6	OSC	SCO	SY	H	6.3	380	125	16	2.2	125	15	10000	47	4700	3.0	1.2	9GF
6GD7		PND	TRI	T6	MIX	SCO	SY	H	6.3	380	250	20	2.2	170	10	12000		350K	6.0	3.5	9GF
6GE5		BEA	SIN	T12	HDA	RCO	GE	H	6.3	1200	770	550	17.5	250	75	6600		20K	16.0	7.0	12BJ
6GE8	S	TRI	PND	T6	REG	HIP	WH	H	6.3	900	275	175	7.0	150	35	5000	5	1080	5.5	1.3	9LC
6GE8	S	PND	TRI	T6	VA	SRC	WH	H	6.3	900	330		1.0	150	6	3200		340K	8.0	2.4	9LC
6GF5		BEA	SIN	T9	HDA	RCO	GE	H	6.3	1200	770	500	9.0	250	34	4700		260K	16.0	7.5	12BJ
6GF7		TRI	DIS	T9	VDA	RCO	RC	H	6.3	985	330	50	11.0	150	50	7200	5	750	6.5	1.4	9QD

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6GF7		TRI	DIS	T9	VDO	SCO	RC	H	6.3	985	330	22	1.5	250	1	1600	64	40K	2.4	0.26	9QD
6GH8	S	TRI	PND	T6	VA	SRC	GE	H	6.3	450	330		2.5	125	14	8500	46	5400	3.4	0.3	9AE
6GH8	S	PND	TRI	T6	OSC	SRC	GE	H	6.3	450	350	20	2.5	125	12	7500		200K	5.5	2.6	9AE
6GH8A		TRI	PND	T6	VA	SRC	RC	H	6.3	450	330		2.5	125	14	8500	46	5400	3.0	1.4	9AE
6GH8A		PND	TRI	T6	OSC	SCO	RC	H	6.3	450	350	20	2.5	125	12	7500		200K	5.0	3.4	9AE
6GJ5	S	BEA	SIN	T12	HDA	HIP	RC	H	6.3	1200	770	550	17.5	250	70	7100		15K	15.0	6.5	9QK
6GJ8		TRI	PND	T6	VA	SRC	SY	H	6.3	600	330		2.5	125	14	8500		5000	3.4	1.6	9AE
6GJ8		PND	TRI	T6	OSC	SCO	SY	H	6.3	600	330		2.5	125	12	7500		150K	8.0	2.4	9AE
6GK5	S	TRI	SIN	T5	VHF	SCO	SY	H	6.3	180	200	22	2.5	135	12	15000	78	5400	5.0	3.5	7FP
6GK6		PND	SIN	T6	AFA		SY	H	6.3	760	250	65	13.2	250		11300		38K	10.0	7.0	9GK
6GK7		PND	SIN	T6	IFA		CG	H	6.3	300	330		2.8	270	8	9500		750K	8.5	3.3	9AQ
6GL7	S	TRI	DIS	T9	VDA	HIP	GE	H	6.3	1050	550	50	10.0	175	46	6400	5	780	6.0	1.3	8BD
6GL7	S	TRI	DIS	T9	VDO	SCO	GE	H	6.3	1050	350		1.0	250	2	2200	66	30K	2.2	0.6	8BD
6GM5		BEA	SIN	T9	PA		SY	H	6.3	800	550	85	19.0	300	60	10200		29K	9.0	4.0	9PX
6GM6		PND	SIN	T5	IFA	SRC	RC	H	6.3	400	330		3.1	125	14	13000		200K	10.0	2.4	7CM
6GM8		TRI	TWN	T6	RFA		RE	H	6.3	330	30	20	0.6	25	8	7800		2100			9DE
6GN6		DIO	PND	T5	DET	VAC	RV	H	6.3	300					1						7FW
6GN6		PND	DIO	T5	IFA	RCO	RV	H	6.3	300	300		3.0	250	11	4400		1M	5.5	5.0	7FW
6GN8	S	TRI	PND	T6	VA	SCO	SY	H	6.3	750	330		1.0	250	2	2700	100	37K	2.4	0.36	9DX
6GN8	S	PND	TRI	T6	IFA	SRC	SY	H	6.3	750	330		5.0	200	25	11500		60K	11.0	4.2	9DX
6GQ7		TRD		T6	DET	VAC	RA	H	6.3	450	330	54		117	54						9AX
6GS8	S	PND	TWN	T6		SCO	SY	H	6.3	300	300	12	1.1	100	8	1200			6.0	3.2	9FG
6GT5	S	BEA	SIN	T12	PA	HIP	RC	H	6.3	1200	770	550	17.5	250	70	7100		15K	15.0	6.5	9NZ
6GU5		BEA	SIN	T5	RFA	SCO	GE	H	6.3	220	300	20	3.0	275	10	15500		165K	7.0	3.2	7GA
6GV5		BEA	SIN	T12	HDA	RCO	GE	H	6.3	1200	770	175	17.5	250	65	7300		18K	16.0	7.0	12DR
6GV8		TRI	PND	T6	VA		AM	H	6.3	900	250	15	0.5	100	5	6500	50	7600			9LY
6GV8		PND	TRI	T6	VA		AM	H	6.3	900	250	75	7.0	170	41	7500		25K			9LY
6GW5		TRI	SIN	T5	VHF	SCO	SY	H	6.3	190	200	25	2.5	135	12	15000	70	5800	5.5	4.0	7GK
6GW6	S	BEA	SIN	T12	PA	RCO	RC	H	6.3	1200	770	550	18.0	250	70	7100		15K			6AM
6GW8	S	TRI	PND	T6	AFA		AM	H	6.3	700	300	8	0.5	250	1	1600	100		2.0	1.8	9LZ
6GW8	S	PND	TRI	T6	AFA		AM	H	6.3	700	300	55	9.0	250	36	10000		45K	10.0	9.5	9LZ
6GX6	S	PND	SIN	T5		SCO	RC	H	6.3	450	300		1.7	150	4	3700		140K			7EN
6GY5		BEA	SIN	T12	HDA	RCO	GE	H	6.3	1500	770	230	80.0	130	50	9100		11K	22.0	9.0	12DR
6GY6	S	PND	SIN	T5			RC	H	6.3	450				150	4	3700		140K			7EN
6GY8		TRT		T6	GEN	SCO	GE	H	6.3	450	330		5.0	125	4	4500		14K	5.0	1.6	9MB
6H6GT		DIO	TWN	T9	REC	VAC	‡HY	H	6.3	300	420	48		117	8						7Q
6HA5		TRI	SIN	T5	RFA		AM	H	6.3	180	220	22	2.6	135	12	14500	72				
6HB5		BEA	SIN	T12	HDA	RCO	GE	H	6.3	1500	770	3500	18.0	130	50	9100		11K	22.0	9.0	12JB
6HB6		PND	SIN	T6	VDA	SRC	RA	H	6.3	760	350		10.0	250	40	20000		24K	13.0	8.0	9NW
6HC8		TRI	PND	T9	VDO	SCO	SY	H	6.3	1200	330		1.0	250	1	2000	68	34K	3.0	2.6	9EX
6HC8		PND	TRI	T9	VDA	RCO	SY	H	6.3	1200	350		11.0	250	38	5100		55K	10.0	8.0	9EX
6HD5		BEA	SIN	T12	HDA	RCO	RA	H	6.3	2250	770	280	24.0	135	65	10000		5000			12ES
6HE5		BEA	SIN	T9	VDA	RCO	GE	H	6.3	800	350	75	12.0	250	43	4100		50K	9.5	7.0	12EY
6HF8	S	TRI	PND	T6	GEN	SRC	RC	H	6.3	750	330		1.0	200	4	4000	70	18K	2.8	2.6	9DX
6HF8	S	PND	TRI	T6	GEN	SCO	RC	H	6.3	750	330		5.0	200	25	12500		75K	10.0	4.2	9DX

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6HG8		TRI	PND	T6	OSC	SCO	MU	H	6.3	340	125	15	1.5	100	14	6000	17				9MP
6HG8		PND	TRI	T6	CON	SCO	MU	H	6.3	340	250	18	2.0	150	10	12000		350K	6.0	3.6	9MP
6HJ8		DIO	PND	T6	DET	VAC	‡PL	H	6.3	450				10	50						9CY
6HJ8		PND	DIO	T6	IFA		‡PL	H	6.3	450	330		3.2	125	12	9300		200K	7.0	3.2	9CY
6HK8		TRI	TWN	T6	CA	SCO	TO	H	6.3	400	150	20	2.0	90	8	8000	36	4500	3.3		9DE
6HL8		TRI	PND	T6	GEN		SY	H	6.3	600	330		2.5	125	13	7000	40	5000	2.8	1.6	9AE
6HL8		PND	TRI	T6	IFA	SCO	SY	H	6.3	600	330		2.5	125	12	10000		150K	7.5	2.3	9AE
6HM6		PND	SIN	T6	IFA	SCO	WH	H	6.3	300	250	25	2.5	125	13	15000		156K	8.7	2.1	9PM
6HQ6		PND	SIN	T5	IFA	SRC	RV	H	6.3	300	330		2.4	125	15	10500		220K	7.8	2.2	
6HR6	S	PND	SIN	T5	GEN	SRC	RC	H	6.3	450	300		3.0	200	13	8500		500K	8.8	5.2	7BK
6HS6	S	PND	SIN	T5	GEN	SCO	RC	H	6.3	450	300		3.0	150	9	9500		500K	8.8	5.2	7BK
6HS8	S	PND	TWN	T6		SCO	GE	H	6.3	300	300	12	1.1	100	2	1100					9FG
6HT6		PND	SIN	T6	IFA	SRC	WH	H	6.3	300	250	25	2.5	125	15	14000		143K			9PM
6HU6		TRI	DIS	T6	IND		AM	H	6.3	300	300	5	0.6	250	200U						9GA
6HU8		PND	TWN	T6	AFA		LR	H	6.3	550	300	40	6.0	250	26	6000		80K	7.0	4.5	9NJ
6HW8		SHB	SIN	T6	DET	SRC	GE	H	6.3	300	330	30	2.0	250	13	4000				4.4	9NQ
6HZ6		PND	SIN	T5	GEN	SCO	RC	H	6.3	450	300		1.7	150	3	3400		110K	8.2		7EN
6HZ8		TRI	PND	T9	OSC	SCO	‡PL	H	6.3	1125	300		1.0	200	4	4000	70		3.8	0.40	9DX
6HZ8		PND	TRI	T9	VHF	SRC	‡PL	H	6.3	1125	330		8.0	250	29	12600		140K	12.0	5.0	9DX
6J4WA	S+	TRI	SIN	T5	UHF	SCO	RC	H	6.3	400	150	20	2.2	150	15	12000	55	4500			7BQ
6J5GT		TRI	SIN	T9	GEN	RCO	‡HY	H	6.3	300	330	20	2.8	250	9	2600	20	7700			6Q
6J6	S	TRI	TWN	T5	RFA	SCO	RC	H	6.3	450	300	15	1.5	100	8	5300	38	7100	2.2	0.4	7BF
6J7GT	S	PND	SIN	T9	VA	SCO	‡HY	H	6.3	300	300		0.8	250	2	1200		1M	4.6	12.0	7R
6J9		TRT		T6	VHF	SCO	SY	H	6.3	450	330		2.0	125	6	5200	57	11K	2.6	1.3	10G
6J11		PND	TWN	T9	IFA	SCO	GE	H	6.3	800	330		3.1	125	11	13000		200K	11.0	3.0	12BW
6JA8		TRI	TET	T6	GEN	SCO	WH	H	6.3	750	300		1.0	200	4	4000	70	17K	2.5	0.4	9QF
6JA8		TET	TRI	T6	IFA	SCO	WH	H	6.3	750	330		5.0	200	18	14000		7000	11.0	4.8	9QF
6JB6		BEA	SIN	T12	HDA	RCO	RC	H	6.3	1200	770	175	17.5	250	70	7100		150K	15.0	6.0	9QL
6JB8		TRI	PND	T6	AFA	RCO	RA	H	6.3	600	330		2.4	250		2200	17	7700			9AE
6JB8		PND	TRI	T6	AFA	SRC	RA	H	6.3	600	330		3.0	250		1600		1M			9AE
6JC8		TRI	PND	T6	OSC	SCO	SY	H	6.3	450	275		1.7	125	12	6500	40	6000	2.8	4.4	9PA
6JC8		PND	TRI	T6	MIX	SCO	SY	H	6.3	450	275		2.3	125	9	5500		300K	4.8	0.9	9PA
6JE6		BEA	SIN	T12	HDA	RCO	RC	H	6.3	2500	990	315	24.0	175	315	10500		5500	21.0	11.0	9QL
6JE8	S	TRI	PND	T6	VA	SCO	‡PL	H	6.3	780	300		1.0	200	4	4200	70		2.4	0.4	9DX
6JE8	S	PND	TRI	T6	VHF	SRC	‡PL	H	6.3	780	330		5.0	250	22	12000		140K	10.0	3.6	9DX
6JF8		DIO	PND	T12	DA	VAC	RA	H	6.3	2400	4K	825	5.0								
6JF8		PND	DIO	T12	VDA	RCO	RA	H	6.3	2400	770	500	15.0	250	75	6600		20K			
6JH8	S	SHB	SIN	T6	DET	SCO	GE	H	6.3	300	330	33	3.0	250	14						9DP
6JK8		TRI	DIS	T6	OSC	SCO	SY	H	6.3	400	165	22	1.0	100	5	6800	55	8000	5.0	4.0	9AJ
6JK8		TRI	DIS	T6	RFA	SCO	SY	H	6.3	400	200	22	2.0	135	10	13000	70	5400	3.0	1.0	9AJ
6JN8	S	TRI	PND	T6	OSC	SRC	GE	H	6.3	450	300		2.5	125	14	8500	46	5400	3.2	2.2	9FA
6JN8	S	PND	TRI	T6	VA	SRC	GE	H	6.3	450	300			125	12	7500		200K	5.5	3.4	9FA
6JT8		TRI	PND	T9	VA	SCO	SY	H	6.3	725	330		1.0	250	2	2700	100	37K	1.7	1.6	9DX
6JT8		PND	TRI	T9	IFA	SCO	SY	H	6.3	725	330		4.0	200	17	20000		50K	13.0	3.0	9DX

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6JU8		DIO	QUA	T6	GEN	VAC	RC	H	6.3	600	300	54			9						9PQ
6JV8	S	TRI	PND	T6	IFA	SCO	TS	H	6.3	600	330		1.1	200	4	4000	70	18K	3.0	2.0	9DX
6JV8	S	PND	TRI	T6	VHF	SRC	TS	H	6.3	600	330		4.0	200	22	10700		150K	8.0	3.2	9DX
6JZ8		TRI	PND	T9	VDO	SRC	GE	H	6.3	1200	250	20	1.0	150	33	1900	22	11K	2.2	0.7	12DZ
6JZ8		PND	TRI	T9	VDA	RCO	GE	H	6.3	1200	250	70	7.0	120	46	7100		12K	11.0	7.0	12DZ
6K6GT	S	BEA	SIN	T9	PA	RCO	‡HY	H	6.3	450	315		8.5	250	33	2300		90K	3.5	6.0	7S
6K7GT		PND	SIN	T9	VA	RCO	‡HY	H	6.3	300	300		2.8	250	10	1600		600K	4.6	12.0	7R
6K11	S	TRT		T9	GEN		GE	H	6.3	600	330	20	0.3	250	1	1600	100	62K			12BY
6KA8		TRI	PND	T6	IFA	SCO	RC	H	6.3	600	300		1.1	200	4	4000	70	18K			9PV
6KA8		PND	TRI	T6	GA	SCO	RC	H	6.3	600	300		2.0	150	4	4400		100K			9PV
6KD8		TRI	PND	T6	OSC	SRC	SY	H	6.3	400	330		2.5	125	14	7500	40		2.8	1.5	9AE
6KD8		PND	TRI	T6	MIX	SRC	SY	H	6.3	400	330		3.0	125	10	5000		200K	5.0	2.6	9AE
6KE8	+	TRI	PND	T6	OSC	SRC	RC	H	6.3	400	280	20		125	13	8000	40	5000	2.4	2.0	9DC
6KE8	+	PND	TRI	T6	MIX	SCO	RC	H	6.3	400	280	20		125	10	12000		125K	5.0	3.4	9DC
6KF8	S	PND	TWN	T6	VHF	SCO	RA	H	6.3	300	300	12	1.1	100	3	1800			6.0	3.0	9FG
6KL8		DIO	PND	T6	DET	VAC	RC	H	6.3	300					1						9LQ
6KL8		PND	DIO	T6	IFA	SCO	RC	H	6.3	300	300		3.0	100	6	4300		550K	6.0	5.0	9LQ
6KM8		DIO	TET	T6	HF	VAC	RC	H	6.3	300					1						9QG
6KM8		TET	DIO	T6	HF	SRC	RC	H	6.3	300	330		1.0	100	4	3400		30K			9QG
6KN8	S	TRI	TWN	T6	VHF	SCO	HI	H	6.3	400	220	22	2.2	110	16	16000	45	2800			9AJ
6KS8	S	TRI	PND	T6	GEN	SCO	SY	H	6.3	833	330		1.1	200	4	4000	70	18K	3.2	1.8	9DX
6KS8	S	PND	TRI	T6	AFA	SRC	SY	H	6.3	600	330		3.8	150	20	9500		150K	10.0	3.6	9DX
6KT8		TRI	PND	T6	VA	SCO	SY	H	6.3	600	330		1.0	250	2	3200	100	32K	3.2	1.6	9QP
6KT8		PND	TRI	T6	IFA	SRC	SY	H	6.3	600	330		2.5	125	12	10000		150K	7.5	2.2	9QP
6L6WGB	S+	BEA	SIN	T12	PA	RCO	SY	H	6.3	900	360		19.0	350	66	5200		33K	11.5	9.5	7S
6M3		DIO	SIN	T12	DA	VAC	‡PL	H	6.3	3000	6K	1000	8.0		320						8GV
6M11		TTR	PND	T9		SCO	GE	H	6.3	750	330		2.2	125	7	7000	70	10K	3.4	0.8	12CA
6M11		PND	TTR	T9		SCO	GE	H	6.3	750	330		3.1	125	11	13000		200K	12.0	2.8	12CA
6Q11	S	TRT		T9	CON	SRC	TS	H	6.3	600	330		3.0	150	22	2500	18	7000	1.9	1.7	12BY
6Q11	S	TRT		T9	GA	SCO	TS	H	6.3	600	330			250	1	1600	100	62K	1.8		12BY
6S4A		TRI	SIN	T6	VA	RCO	RC	H	6.3	600	500	105	7.5	250	26	4500	16	3600	4.2	0.9	9AC
6SA7GT	S	PTG	SIN	T9	CON		TS	H	6.3	300	300	14	1.0	250	4			1M	8.0	11.0	8AD
6SC7GTY	S	TRI	TWN	MT8	AFA	SCO	RC	H	6.3	300	250			250	2	1300	70	53K	2.0	3.0	8S
6SD7GT	OBS	PND	SIN	T9	RFA	SRC	TS	H	6.3	300	300		4.0	250	6	3600		1M	9.0	7.5	8N
6SF7		DIO	PND	MT8	DET	VAC	RC	H	6.3	300					1						7AZ

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6SF7		PND	DIO	MT8	AFA	RCO	RC	H	6.3	300	300		3.5	250	12	2000		700K	5.5	6.0	7AZ
6SG7	S	PND	SIN	MT8	IFA	RCO	RC	H	6.3	300	300		3.0	250	12	4700		900K	8.5	7.0	8BK
6SH7GT	S	PND	SIN	T9	RFA	SCO	TS	H	6.3	300	300		3.0	250	11	4900		900K	8.5	7.0	8BK
6SJ7WGT	S+	PND	SIN	MT8	RFA	SRC	RC	H	6.3	300	300		2.5	250	3	1600		1M	6.0	7.0	8N
6SK7WA	S*	PND	SIN	MT8	RFA	RCO	RC	H	6.3	300	330		3.3	250	9	2000		800K	5.0	7.0	8N
6SL7WGT	S+	TRI	TWN	T9	VA	SCO	RC	H	6.3	300	250		1.0	250	2	1600	70	44K			8BD
6SN7GTB	S+	TRI	TWN	T9	GEN	RCO	RC	H	6.3	600	450	70	5.0	250	9	2600	20	7700	2.2	0.7	8BD
6SQ7GT		DWD	TRI	T9	DET	VAC	‡HY	H	6.3	300					1						8Q
6SQ7GT		TRI	DWD	T9	VA	SCO	‡HY	H	6.3	300	300		0.5	250	1	1200	100	85K	4.2	3.4	8Q
6SU7GTY	S	TRI	TWN	T9	RFA	SCO	TS	H	6.3	300	250		1.0	250	2	1600	70	44K			8BD
6T4	S	TRI	SIN	T5	UHF	SRC	SY	H	6.3	225	200	30	3.5	80	18	7000	13	1860	2.9	0.25	7DK
6T8A	S	TRD	TRI	T6	DET	HIP	GE	H	6.3	450					5						9E
6T8A	S	TRI	TRD	T6	AFA	SCO	GE	H	6.3	450	300		1.0	250	1	1200	70	58K	1.6	1.1	9E
6U5	S	TRI	DIS	T9	IND		RA	H	6.3	300	285		1.0	250	240U						6R
6U8A	S	TRI	PND	T6	OSC	SRC	GE	H	6.3	450	300		2.7	150	18	8500	40	5000	2.5	0.4	9AE
6U8A	S	PND	TRI	T6	MIX	SRC	GE	H	6.3	450	300		2.8	250	10	5200		400K	5.0	2.6	9AE
6V3A		DIO	SIN	T6	DA	VAC	‡PL	H	6.3	1750	6K	800	2.7	13	135						9BD
6V6GT	S	BEA	SIN	T9	PA	RCO	‡HY	H	6.3	450	315		12.0	250	47	4100		50K	9.0	7.5	7S
6V8	S	TRD	TRI	T6	DET	HIP	‡PL	H	6.3	450					10						9AH
6V8	S	TRI	TRD	T6	VA	SCO	‡PL	H	6.3	450	300		1.0	250	1	1200	70	58K			9AH
6W4GTA	S+	DIO	SIN	T9	DA	VAC	GE	H	6.3	1200	4K	840	4.0	13	140					6.0	4CG
6W6GT	S	BEA	SIN	T9	PA	RCO	‡HY	H	6.3	1200	300	180	10.0	200	47	8000		28K	15.0	9.0	7S
6X4WA	S	DIO	TWN	T5	REC	VAC	TS	H	6.3	600	1K	230		325	70						5BS
6X5GT	S+	DIO	TWN	T9	REC	VAC	‡HY	H	6.3	600	1K	210		325	70						6S
6X8A	S	TRI	PND	T6	OSC	SRC	GE	H	6.3	450	250		1.5	100	8	5800	40	6900	2.0	0.5	9AK
6X8A	S	PND	TRI	T6	MIX	SRC	GE	H	6.3	450	250		2.0	250	8	4600		750K	4.3	0.7	9AK
6Y6GA	S	BEA	SIN	T12	PA	RCO	SY	H	6.3	1250	200		12.5	200	66	7100		18K	12.0	7.5	7S
7A5		BEA	SIN	T9	PA	RCO	‡PL	H	6.3	750	125		5.5	110	41	5800		14K			6AA
7A6	S	DIO	TWN	T9	REC	VAC	‡PL	H	6.3	150	420	48		150	8						7AJ
7A7	S	PND	SIN	T9	RFA	RCO	‡PL	H	6.3	300	300		4.0	250	9	2000		800K	5.5	7.0	8V
7AK7	S	PND	SIN	T9	GA	RCO	SY	H	6.3	800	200		8.5	150	40	6000		12K	12.0	9.5	8V
7AU7		TRI	TWN	T6	AFA	RCO	GE	H	7.0	300	300	60	2.8	250	10	2200	17	7700	1.6	0.4	9A

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
7B5	S	PND	SIN	T9	PA	RCO	RA	H	6.3	400	315		8.5	250	33	2300		90K	5.5	6.0	6AE
7B7		PND	SIN	T9	RFA	RCO	‡PL	H	6.3	150	300		2.2	250	8	1800		750K	5.0	6.0	8V
7B8		PTG	SIN	T9	CON		RA	H	6.3	300	300	14	1.0	250	4			360K	5.0	9.0	8X
7C5		BEA	SIN	T9	PA	RCO	RA	H	6.3	450	315		12.0	250	47	4100		52K			6AA
7C7		PND	SIN	T9	VA	SCO	SY	H	6.3	150	300		1.0	250	2	1300		2M	5.5	6.5	8V
7DJ8		TRI	TWN	T6	CA	SRC	RE	H	7.0	300	130	25	1.8	90	15	12500	33				9AJ
7ED7		PND	SIN	T6	VHF		TA	H	7.3	300	250		3.0	170	10	8800					9AQ
7EK7		TRI	TWN	T6	OSC	SCO	TA	H	7.0	300	250	16	2.0	90	15	9000	26				9DD
7ES8		TRI	TWN	T6	CA	SRC	RE	H	7.2	300	130	22	1.8	90	15	12500		2500			9AJ
7EY6		BEA	SIN	T9	VDA	RCO	GE	H	7.2	600	350	180	11.0	250	44	4400		60K	8.5	7.0	7S
7F8W	+	TRI	TWN	T9	RFA	SRC	SY	H	6.3	300	300		3.2	250	10	5200	50		2.8	1.7	8BW
7FC7		TRI	TWN	T6	CA	SCO	MU	H	7.2	300	130	22	1.8	90	15	12000			6.3	4.5	9DD
7HG8		TRI	PND	T6	OSC	SCO	MU	H	7.2	300	125	15	1.5	100	14	6000	17				9MP
7HG8		PND	TRI	T6	CON	SCO	MU	H	7.2	300	250	18	2.0	150	10	12000		350K	6.0	3.6	9MP
7K7		DWD	TRI	T9	DET	VAC	RA	H	6.3	300					2						8BF
7K7		TRI	DWD	T9	VA	SCO	RA	H	6.3	300	300		1.0	250	2	1600	70	44K	2.4	2.0	8BF
7Y4	S	DIO	TWN	T9	REC	VAC	‡PL	H	6.3	500	1K	210		325	70						5AB
7Z4	S	DIO	TWN	T9	REC	VAC	SY	H	6.3	900	1K	300		325	100						5AB
8AU8A	S	TRI	PND	T6	GEN	SCO	SY	H	8.4	450	300		2.5	150	9	4900	40	8200	2.6	0.34	9DX
8AU8A	S	PND	TRI	T6	GEN	SRC	SY	H	8.4	450	300		3.0	200	15	7000		150K	7.5	3.4	9DX
8AW8A	S	TRI	PND	T6	VA	SCO	SY	H	8.4	450	300		1.0	200	4	4000	70	18K	3.2	0.32	9DX
8AW8A	S	PND	TRI	T6	VHF	SRC	SY	H	8.4	450	300		3.2	200	13	9000		400K	10.0	3.6	9DX
8B10		DWD	TTR	T9	DET	VAC	GE	H	8.5	450		5									12BF
8B10		TTR	DWD	T9	OSC	RCO	GE	H	8.5	450	330	20	3.0	250	10	2500	18	7200			12BF
8BA8A	S	TRI	PND	T6	VA	SRC	RA	H	8.4	450	300		2.0	200	8	2700	18	6700	2.5	0.4	9DX
8BA8A	S	PND	TRI	T6	VHF	SRC	RA	H	8.4	450	300		3.2	200	13	9000		400K	10.0	3.6	9DX
8BH8	S	TRI	PND	T6	GEN	SRC	GE	H	8.4	450	300		2.5	150	10	3300	17	5150	2.6	0.38	9DX
8BH8	S	PND	TRI	T6	GEN	SRC	GE	H	8.4	450	300		3.0	200	15	7000		150K	7.0	2.4	9DX
8BN8		DWD	TRI	T6	DET	VAC	SY	H	8.4	450		54			3	9				1.9	9ER
8BN8		TRI	DWD	T6	VHF	SCO	SY	H	8.4	450	300		1.5	250	2	2500	70	28K	3.6	0.32	9ER
8BQ5		BEA	SIN	T6	PA	SRC	AM	H	8.0	600	300	65	12.0	250	50	11300		38K	10.8	6.5	9CV
8CG7	S	TRI	TWN	T6	GEN	RCO	GE	H	8.4	450	300	20	3.5	250	9	2600	20	7700	2.3	2.2	9AJ
8CM7		TRI	DIS	T6	VDA	RCO	GE	H	8.4	450	500	70	5.5	250	20	4400	18	4100	3.5	0.4	9ES
8CM7		TRI	DIS	T6	VDO	SRC	GE	H	8.4	450	500	70	1.2	200	5	2000	21	10K	2.0	0.5	9ES
8CN7		DWD	TRI	T6	DET	VAC	GE	H	8.4	225					5					3.6	9EN
8CN7		TRI	DWD	T6	VA	SCO	GE	H	8.4	225	300		1.0	250	1	1200	70	58K	1.5	0.5	9EN
8CS7		TRI	DIS	T6	VDA	RCO	SY	H	8.4	450	500	105	6.5	250	19	4500	16	3450	3.0	0.5	9EF
8CS7		TRI	DIS	T6	VDO	RCO	SY	H	8.4	450	500	70	1.2	250	10	2200	17	7700	1.8	0.5	9EF
8CW5		PND	SIN	T6	AFA	SRC	RE	H	8.0	600	275	110	14.0	200	60	8800		23K			9CV
8CX8		TRI	PND	T6	GEN	SCO	GE	H	8.0	600	330		2.0	150	9	4600	40	8700	2.2	0.38	9DX
8CX8		PND	TRI	T6	VHF	SRC	GE	H	8.0	600	330		5.0	200	24	10000		70K	9.0	4.4	9DX
8CY7		TRI	DIS	T6	VDA	RCO	GE	H	7.9	600	350	120	5.5	150	30	5400	5	920	5.0	1.0	9EF
8CY7		TRI	DIS	T6	VDO	SCO	GE	H	7.9	600	350		1.0	250	1	1300	68	52K	1.5	0.3	9EF

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
8EB8	S	TRI	PND	T6	VA	SCO	SY	H	8.0	600	330		1.0	250	2	2700	100	37K	2.4	0.36	9DX
8EB8	S	PND	TRI	T6	VHF	SRC	SY	H	8.0	600	330		5.0	200	25	12500		75K	11.0	4.2	9DX
8EM5		BEA	SIN	T6	PA	RCO	RC	H	8.4	600	315	210	10.0	250	35	5100			10.0	5.1	9HN
8ET7		DWD	PND	T6	DET	VAC	SY	H	8.0	600					2				1.5	7.5	9LT
8ET7		PND	DWD	T6	RFA	SCO	SY	H	8.0	600	330		5.0	200	25	11500		60K	10.0	4.2	9LT
8FQ7		TRI	TWN	T6	GEN	RCO	RC	H	8.4	450	330	22	4.0	250	9	2600	20	7700			9LP
8GK6		PND	SIN	T6	AFA	SRC	RA	H	8.0	600	440		13.2	250	48	11300		38K	10.0	7.0	9GK
8GN8	S	TRI	PND	T6	VA	SCO	SY	H	8.0	600	330		1.0	250	2	2700	100	37K	2.4	0.36	9DX
8GN8	S	PND	TRI	T6	IFA	SRC	SY	H	8.0	600	330		5.0	200	25	11500		60K	11.0	4.2	9DX
8HG8		TRI	PND	T6	OSC	SCO	MU	H	8.0	300	125	15	1.5	100	14	6000	17				9MP
8HG8		PND	TRI	T6	CON	SCO	MU	H	8.0	300	250	18	2.0	150	10	12000		350K	6.0	3.6	9MP
8JE8		TRI	PND	T6	VA	SCO	‡PL	H	8.2	600	300		1.0	200	4	4200	70		2.4	0.4	9DX
8JE8		PND	TRI	T6	VHF	SRC	‡PL	H	8.2	600	330		5.0	250	22	12000		140K	10.0	3.6	9DX
8JK8		TRI	DIS	T6	OSC	SCO	SY	H	8.4	300	165	22	1.0	100	5	6800	55	8000	5.0	4.0	9AJ
8JK8		TRI	DIS	T6	RFA	SCO	SY	H	8.4	300	200	22	2.0	135	10	13000	70	5400	3.0	1.0	9AJ
8JT8		TRI	PND	T9	VA	SCO	SY	H	7.7	600	330		1.0	250	2	2700	100	37K	1.7	1.6	9DX
8JT8		PND	TRI	T9	IFA	SCO	SY	H	7.7	600	330		4.0	200	17	20000		50K	13.0	3.0	9DX
8KA8		TRI	PND	T6	IFA	SCO	RC	H	8.4	450	300		1.1	200	4	4000	70	18K			9PV
8KA8		PND	TRI	T6	GA	SCO	RC	H	8.4	450	300		2.0	150	4	4400		100K			9PV
8KS8	S	TRI	PND	T6	GEN	SCO	SY	H	8.4	450	330		1.1	200	4	4000	70	18K	3.2	1.8	9DX
8KS8	S	PND	TRI	T6	AFA	SRC	SY	H	8.4	450	330		3.8	150	20	9500		150K	10.0	3.6	9DX
8SN7GTB	S	TRI	TWN	T9	GEN	RCO	SY	H	8.4	450	450	70	5.0	250	9	2600	20	7700	2.2	0.7	8BD
9A8	S	TRI	PND	T6	GEN	SCO	RE	H	9.0	300	250	14	1.5	100	14	5000	20		2.5	1.8	
9A8	S	PND	TRI	T6	GEN		RE	H	9.0	300	275	15	1.9	170	10	6200			5.5	3.8	
9AU7		TRI	TWN	T6	AFA	RCO	GE	H	9.4	225	300	60	2.8	250	10	2200	17	7700	1.6	0.4	9A
9BR7		DWD	TRI	T6	DET	HIP	‡PL	H	9.4	300		60		5	17				1.8		9CF
9BR7		TRI	DWD	T6	GEN	SRC	‡PL	H	9.4	300	300		2.5	250	10	4000	60	11K	2.6	0.3	9CF
9CL8		TRI	TET	T6	OSC	SRC	SY	H	9.5	300	300		2.7	125	15	8000	40	5000	2.7	0.4	9FX
9CL8		TET	TRI	T6	MIX	SRC	SY	H	9.5	300	300		2.8	125	12	5800		100K	5.0	2.0	9FX
9DZ8	OBS	TRI	PND	T6	AFA	SCO	SO	H	9.0	600	150	5	0.8	120	800U	1400	100				9EX
9DZ8	OBS	PND	TRI	T6	PA		SO	H	9.0	600	150	60	6.5	145	45	7500					9EX
9EA8	S	TRI	PND	T6	OSC	SRC	GE	H	9.5	300	330		3.0	150	18	8500	40	5000	3.0	0.3	9AE
9EA8	S	PND	TRI	T6	MIX	SRC	GE	H	9.5	300	330		3.1	125	12	6400		80K	5.0	2.6	9AE
9EF6	OBS	BEA	SIN	T9	VDA	RCO	RA	H	9.4	600	250	180	10.0	250	50	5000			11.5	9.0	7S
9GB8		TRI	BEA	T6	VHF		TA	H	9.4	300	250		2.0	200	10	3400	18				9DA
9GB8		BEA	TRI	T6	PA		TA	H	9.4	300	250		3.0	170	10	7500					9DA
9GV8		TRI	PND	T6	VA		AM	H	9.5	600	250	15	0.5	100	5	6500	50	7600			9LY
9GV8		PND	TRI	T6	VA		AM	H	9.5	600	250	75	7.0	170	41	7500		25K			9LY
9JV8		TRI	PND	T6	IFA	SCO	TS	H	9.5	600	330		1.1	200	4	4000	70	18K	3.0	2.0	9DX
9JV8		PND	TRI	T6	VHF	SRC	TS	H	9.5	600	330		4.0	200	22	10700		150K	8.0	3.2	9DX
9U8A		TRI	PND	T6	OSC	SRC	GE	H	9.4	300	300		2.7	150	18	8500	40	5000	2.5	0.4	9AE
9U8A		PND	TRI	T6	MIX	SRC	GE	H	9.4	300	300		2.8	250	10	5200		400K	5.0	2.6	9AE

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
9X8	OBS	TRI	PND	T6	OSC	SRC	SY	H	9.5	300	250		1.5	100	8	5800	40	6900	2.0	0.5	9AK
9X8	OBS	PND	TRI	T6	MIX	SRC	SY	H	9.5	300	250		2.0	250	8	4600		750K	4.3	0.7	9AK
10AL11		PND	DIS	T9	AFA	SCO	GE	H	9.8	600	330		1.7	150	1	1000		150K			12BU
10AL11		PND	DIS	T9	DET	SRC	GE	H	9.8	600	275		10.0	250	39	6500		100K	11.0	12.0	12BU
10BQ5		BEA	SIN	T6	PA	SRC	SY	H	10.6	450	300	65	12.0	250	50	11300		38K	10.8	6.5	9CV
10C8	S	TRI	PND	T6	GEN	SRC	GE	H	10.5	300	300	35	2.0	250	7	4400	53	12K	2.4	0.2	9DA
10C8	S	PND	TRI	T6	GEN	SCO	GE	H	10.5	300	300	55	2.2	135	12	8000		190K	7.0	2.2	9DA
10DA7	OBS	TRI	DIS	T6	VDA	RCO	‡HY	H	10.5	600	500	40	6.0	150	40	5700	6	1100	5.5	0.82	9EF
10DA7	OBS	TRI	DIS	T6	VDO	SRC	‡HY	H	10.5	600	300	20	2.0	250	9	2600	20	7700	2.0	0.42	9EF
10DE7	S	TRI	DIS	T6	VDA	RCO	SY	H	9.7	600	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
10DE7	S	TRI	DIS	T6	VDO	RCO	SY	H	9.7	600	330	77	1.5	250	6	2000	18	8750	2.2	0.52	9HF
10DR7	S	TRI	DIS	T6	VDA	RCO	SY	H	9.7	600	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
10DR7	S	TRI	DIS	T6	VDO	SCO	SY	H	9.7	600	330	70	1.0	250	1	1600	68	40K	2.2	0.34	9HF
10DX8	S	TRI	PND	T6	PA	SCO	AM	H	10.2	450	300	12	1.0	200	3	4000	65				9HX
10DX8	S	PND	TRI	T6	PA	SCO	AM	H	10.2	450	300	40	4.0	170	18	11000		100K			9HX
10EB8	OBS	TRI	PND	T6	VA	SCO	SY	H	10.5	450	330		1.0	250	2	2700	100	37K	2.4	0.36	9DX
10EB8	OBS	PND	TRI	T6	VHF	SRC	SY	H	10.5	450	330		5.0	200	25	12500		75K	11.0	4.2	9DX
10EG7		TRI	DIS	T9	VDA	RCO	SY	H	9.7	600	330	50	10.0	150	45	7500	6	800	7.0	1.6	8BD
10EG7		TRI	DIS	T9	VDO	RCO	SY	H	9.7	600	330	22	1.5	250	6	2000	18	8750	2.2	0.6	8BD
10EM7		TRI	DIS	T9	VDA	RCO	RC	H	9.7	600	330	175	10.0	150	50	7200	5	750	7.0	1.8	8BD
10EM7		TRI	DIS	T9	VDO	SCO	RC	H	9.7	600	330	77	1.5	250	1	1600	68	40K	2.2	0.6	8BD
10EW7	S	TRI	DIS	T9	VDA	RCO	SY	H	9.7	600	330	175	10.0	150	45	7500	6	800	7.0	1.2	9HF
10EW7	S	TRI	DIS	T9	VDO	RCO	SY	H	9.7	600	330	77	1.5	250	6	2000	18	8750	2.2	0.4	9HF
10FD7	S	TRI	DIS	T9	VDA	RCO	‡PL	H	9.7	600	330	175	10.0	150	40	7500	6	800	6.5	1.2	9HF
10FD7	S	TRI	DIS	T9	VDO	SCO	‡PL	H	9.7	600	330	70	1.5	250	1	1600	64	40K	2.2	0.40	9HF
10FR7		TRI	DIS	T9	VDA	RCO	SY	H	9.7	600	330	175	10.0	150	50	7200	5	750	7.5	1.2	9HF
10FR7		TRI	DIS	T9	VDO	SCO	SY	H	9.7	600	330	77	1.5	250	1	1600	68	40K	2.4	0.30	9HF
10GF7		TRI	DIS	T9	VDA	RCO	RC	H	9.7	600	330	50	11.0	150	50	7200	5	750	6.5	1.4	9QD
10GF7		TRI	DIS	T9	VDO	SCO	RC	H	9.7	600	330	22	1.5	250	1	1600	64	40K	2.4	0.26	9QD
10GN8	S	TRI	PND	T6	VA	SCO	TS	H	10.5	450	330		1.0	250	2	2700	100	37K	2.4	0.36	9DX
10GN8	S	PND	TRI	T6	IFA	SRC	TS	H	10.5	450	330		5.0	200	25	11500		60K	11.0	4.2	9DX
10HF8	S	TRI	PND	T6	GEN	SRC	RC	H	10.5	450	330		1.0	200	4	4000	70	18K	2.8	2.6	9DX
10HF8	S	PND	TRI	T6	GEN	SCO	RC	H	10.5	450	330		5.0	200	25	12500		75K	10.0	4.2	9DX
10JA8		TRI	TET	T6	GEN	SCO	WH	H	10.5	450	300		1.0	200	4	4000	70	17K	2.5	0.4	9QF
10JA8		TET	TRI	T6	IFA	SCO	WH	H	10.5	450	330		5.0	200	18	14000		7000	11.0	4.8	9QF
10JT8	S	TRI	PND	T9	VA	SCO	SY	H	10.2	450	330		1.0	250	2	2700	100	37K	1.7	1.6	9DX
10JT8	S	PND	TRI	T9	IFA	SCO	SY	H	10.2	450	330		4.0	200	17	20000		50K	13.0	3.0	9DX
10JY8		TRI	BEA	T6	CON	SRC	GE	H	10.5	450	330		2.0	125	15	10400	46	4400	4.2	3.2	9DX
10JY8		BEA	TRI	T6	VHF	SRC	GE	H	10.5	450	330		5.0	200	24	11000		55K	10.0	4.6	9DX

NUMERICAL LISTING - CONTINUED

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
11AR11		PND	TWN	T9	IFA	SRC	GE	H	11.2	450	330	11	3.1	125		10500		200K	10.0	2.9	12DM
11C5	OBS	BEA	SIN	T5	PA	RCO	SY	H	11.6	450	135		4.5	110	41	5800		13K	12.0	6.2	7CV
11CY7		TRI	DIS	T6	VDA	RCO	SY	H	11.0	450	350	120	5.5	150	30	5400	5	920	5.0	1.0	9EF
11CY7		TRI	DIS	T6	VDO	SCO	SY	H	11.0	450	350		1.0	250	1	1300	68	52K	1.5	0.3	9EF
11JE8		TRI	PND	T6	VA	SCO	‡PL	H	10.9	450	300		1.0	200	4	4200	70		2.4	0.4	9DX
11JE8		PND	TRI	T6	VHF	SRC	‡PL	H	10.9	450	330		5.0	250	22	12000		140K	10.0	3.6	9DX
12A4	OBS	TRI	SIN	T6	VDA	RCO	‡HY	H	12.6	300	450	105	5.9	250	23	8000	20	2500	4.9	0.9	9AG
12AB5	S	BEA	SIN	T6	PA	RCO	TS	H	12.6	200	315		12.0	250	47	4100		50K	8.0	8.5	9EU
12AC6	S	PND	SIN	T5	RFA	SCO	TS	H	12.6	150	30	20		13	550U	700		500K	4.3	5.0	7BK
12AD6	S	PTG	SIN	T5	CON	SCO	TS	H	12.6	150	16	20		13	2			400K	5.5	8.0	7CH
12AD7	S	TRI	TWN	T6	AFA	SCO	SY	H	12.6	225	300		1.0	250	1	1600	100	62K	1.6	0.5	9A
12AE6A	S	DWD	TRI	T5	DET	VAC	TS	H	12.6	150					1						7BT
12AE6A	S	TRI	DWD	T5	AFA	SCO	RA	H	12.6	150	30	20		13	1	1300	17	13K	1.8	1.1	7BT
12AE7		TRI	DIS	T6	AFD		‡PL	H	12.6	450	16		1.0	13	2	4000	13	3150	4.7	0.75	9A
12AE7		TRI	DIS	T6	AFD		‡PL	H	12.6	450	16		1.0	13	8	6500	6	985	4.2	0.85	9A
12AF3		DIO	SIN	T6	DA	VAC	TS	H	12.6	600	4K	750	6.0	20	185					6.0	9CB
12AF6	S	PND	SIN	T5	RFA	SCO	GE	H	12.6	150	16			13	750U	1200		300K	5.5	4.8	7BK
12AG6	OBS	PTG	SIN	T5	CON		GE	H	12.6	150	16			13	350U				5.5	7.5	7CH
12AH7GT		TRI	TWN	T9	AFA	SRC	GE	H	12.6	150	180		1.5	180	8	1900	16	8400			8BE
12AJ6	S	DWD	TRI	T5	DET	VAC	TS	H	12.6	150					1						7BT
12AJ6	S	TRI	DWD	T5	AFA	SCO	TS	H	12.6	150	30	20		13	750U	1200	55	45K	2.2	0.8	7BT
12AL5	S	DIO	TWN	T5	DET	HIP	‡HY	H	12.6	150	330	54		117	9					2.5	6BT
12AL8		TRI	TET	T6	DET	SCO	TS	H	12.6	550	30	20		13	500U	1000	13	13K	1.8	0.4	9GS
12AL8		TET	TRI	T6	PA	SRC	TS	H	12.6	550	30			13	40	15000		480	13.0	1.6	9GS
12AL11		PND	DIS	T9	AFA	SCO	GE	H	12.6	450	330		1.7	150	1	1000		150K			12BU
12AL11		PND	DIS	T9	DET	SRC	GE	H	12.6	450	275		10.0	250	39	6500		100K	11.0	12.0	12BU
12AQ5		BEA	SIN	T5	PA	RCO	RC	H	12.6	225	250		12.0	250	47	4100		52K	8.0	8.5	7BZ
12AS5	OBS	BEA	SIN	T5	PA	RCO	RA	H	12.6	400	150		5.5	150	36	5600			12.0	6.2	7CV
12AT6A	S	DWD	TRI	T5	DET	VAC	SY	H	12.6	150					1						7BT
12AT6A	S	TRI	DWD	T5	VA	SCO	SY	H	12.6	150	300		0.5	250	1	1200	70	58K	2.2	0.8	7BT
12AT7WA	S*	TRI	TWN	T6	RFA	SRC	GE	H	12.6	150	300		2.5	250	10	5500	60	11K	2.2	0.5	9A
12AU6A	S	PND	SIN	T5	IFA	SCO	SY	H	12.6	150	300		3.0	250	8	4500		2M	5.5	5.0	7BK
12AU7A	S	TRI	TWN	T6	AFA	RCO	‡PL	H	12.6	150	300	60	2.8	250	10	2200	17	7700	1.6	0.4	9A
12AU8	S	TRI	PND	T6	GEN		TS	H	12.6	300	300		2.5	150	9	4900	40	8200	2.6	0.34	9DX
12AU8	S	PND	TRI	T6	GEN		TS	H	12.6	300	300		3.0	200	15	7000		150K	7.5	3.4	9DX
12AV5GA	S	BEA	SIN	T11	HDA	RCO	GE	H	12.6	600	550	440	11.0	250	57	5900		14K	14.0	7.0	6CK
12AV6A	S	DWD	TRI	T5	DET	VAC	SY	H	12.6	150					1						7BT
12AV6A	S	TRI	DWD	T5	VA	SCO	SY	H	12.6	150	330		0.6	250	1	1600	100	62K	2.2	0.8	7BT
12AV7	S	TRI	TWN	T6	RFA	SRC	‡PL	H	12.6	225	300		2.7	150	18	8500	41	4800	3.1	0.5	9A
12AW6	S	PND	SIN	T5	VA	SCO	RC	H	12.6	150	300		2.0	250	7	5000		800K	6.5	1.5	7CM
12AX3	S	DIO	SIN	T9	DA	VAC	GE	H	12.6	600	5K	1000	5.3		165				7.5	5.5	12BL

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
12AX4GTB	S	DIO	SIN	T9	DA	VAC	GE	H	12.6	600	5K	1000	4.8	21	165					5.0	4CG
12AX7A	S	TRI	TWN	T6	VA	SCO	RC	H	12.6	150	330		1.2	250	1	1600	100	62K	1.6	0.46	9A
12AY3		DIO	SIN	T9	DA	VAC	RC	H	12.6	600	5K	1100	6.5	900	175						9HP
12AY7	S	TRI	TWN	T6	AFA	SCO	GE	H	12.6	150	300	10	1.5	250	3	1800	44	25K	1.3	0.6	9A
12AZ7A	S	TRI	TWN	T6	OSC	SRC	‡PL	H	12.6	225	330		5.Q	250	10	5500	60	11K	3.1	0.5	9A
12B3		DIO	SIN	T6	DA	VAC	WH	H	12.6	600	4K	750		22	150					5.3	9BD
12B4A		TRI	SIN	T6	VDA	RCO	GE	H	12.6	300	550	105	5.5	150	34	6300	6	1030	5.0	1.5	9AG
12BA6A	S	PND	SIN	T5	RFA	RCO	SY	H	12.6	150	300		3.0	250	11	4400		1M	5.5	5.0	7BK
12BA7	S	PTG	SIN	T6	CON		RC	H	12.6	150	300	22	2.0	250	4			1M	6.7	8.3	8CT
12BD6	S	PND	SIN	T5	IFA	RCO	RA	H	12.6	150	300	14	3.0	250	9	2000		800K	4.3	5.0	7BK
12BE3	S	DIO	SIN	T9	DA	VAC	GE	H	12.6	600	5K	1200	6.5							8.0	12BL
12BE6A	S	PTG	SIN	T5	CON		SY	H	12.6	150	300	14	1.0	250	3			1M	5.5	8.0	7CH
12BF6	S	DWD	TRI	T5	DET	VAC	TS	H	12.6	150					1						7BT
12BF6		TRI	DWD	T5	VA	RCO	TS	H	12.6	150	300		2.5	250	10	1900	16	8500	1.8	0.7	7BT
12BH7A	S	TRI	TWN	T6	VDA	SRC	‡HY	H	12.6	300	500	20	3.5	250	12	3100	17	5300	3.3	0.8	9A
12BK5		BEA	SIN	T6	PA	SRC	GE	H	12.6	600	250		9.0	250	37	8500		100K	13.0	5.0	9BQ
12BK6	OBS	DWD	TRI	T5	REC	HIP	SY	H	12.6	150					1						7BT
12BK6	OBS	TRI	DWD	T5	VA	SCO	SY	H	12.6	150	300			250	1	1600	100	62K			7BT
12BL6		PND	SIN	T5	RFA	SCO	TS	H	12.6	150	30	20		13	1	1400		500K	5.5	4.8	7BK
12BN6A		GTB	SIN	T5	DIS		SY	H	12.6	150	300	12		121	440U				4.2		7DF
12BQ6GT	S	BEA	SIN	T9	HDA	RCO	SY	H	12.6	600	550	400	11.0	250	55	5500		20K	15.0	7.5	6AM
12BR3		DIO	SIN	T6	DA	VAC	TO	H	12.6	600	6K	1200	6.5	19	250					8.5	9CB
12BR7A		DWD	TRI	T6	DET	HIP	‡PL	H	12.6	225		60		5	17				1.8		9CF
12BR7A		TRI	DWD	T6	GEN	SCO	‡PL	H	12.6	225	300		2.5	250	10	4000	60	11K	2.6	0.3	9CF
12BS3		DIO	SIN	T9	DA	VAC	RC	H	12.6	600	5K	1100	6.0	12	140					6.5	9HP
12BV7	S	PND	SIN	T6	VHF	SRC	‡PL	H	12.6	300	300		6.2	250	27	13000		85K	11.0	3.0	9BF
12BW4		DIO	TWN	T6	REC	VAC	SY	H	12.6	450	1K	350		325	100						9DJ
12BX6		PND	SIN	T6	GEN	SCO	RE	H	12.6	150	550		2.5	250	10	6800		650K	7.5	3.3	9AQ
12BY7A	S	PND	SIN	T6	VHF	SRC	GE	H	12.6	300	300		6.5	250	26	11000		93K	10.2	3.5	9BF
12BZ6	S	PND	SIN	T5	IFA	RCO	SY	H	12.6	150	330		2.3	125	14	8000		260K	7.0	2.0	7CM
12BZ7		TRI	TWN	T6	VHF	SCO	‡HY	H	12.6	300	300		1.5	250	2	3200	100	32K	6.5	0.7	9A
12C5	S	BEA	SIN	T5	PA	RCO	WH	H	12.6	600	135		5.5	110	50	7500		10K	13.0	9.0	7CV
12C8		DWD	PND	MT8	DET	VAC	RC	H	12.6	150											8E
12C8		PND	DWD	MT8	AFA	SRC	RC	H	12.6	150	300		2.2	250	10	1300		600K	6.0	9.0	8E
12CA5		BEA	SIN	T5	PA	SRC	GE	H	12.6	600	130		5.0	125	37	9200		15K	15.0	9.0	7CV
12CM6	S	BEA	SIN	T6	PA	RCO	SY	H	12.6	225	315		12.0	250	47	4100		50K	8.0	8.5	9CK
12CN5		PND	SIN	T5	IFA	SCO	RA	H	12.6	450	16			13	4	3800		40K			7CV
12CR5		BEA	SIN	T6	HDA	RCO	WH	H	12.6	600	600	400	11.0	250	65	6000		18K	12.9	6.9	9HC
12CR6		DIO	PND	T5	DET	VAC	TS	H	12.6	150					2						7EA
12CR6		PND	DIO	T5	AFA	RCO	TS	H	12.6	150	300		2.5	250	10	2200		800K			7EA
12CS5	OBS	BEA	SIN	T6	PA	RCO	‡HY	H	12.6	600	300		10.0	200	47	8000		28K	15.0	9.0	9GR

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
12CS6		PTG	SIN	T5	GA	SCO	SY	H	12.6	150	300	14	1.0	100	1	1100		1M	5.5	7.5	7CH
12CT8	S	TRI	PND	T6	VHF	SCO	GE	H	12.6	300	300		2.5	150	9	4900	40	8200	2.4	0.19	9DA
12CT8	S	PND	TRI	T6	VHF	SRC	GE	H	12.6	300	300		2.8	200	15	7000		150K	7.5	2.4	9DA
12CU5	S	BEA	SIN	T5	PA	RCO	RC	H	12.6	600	135		6.0	120	50	7500		10K	13.0	8.5	7CV
12CU6	S	BEA	SIN	T11	HDA	RCO	SY	H	12.6	600	600	400	11.0	250	57	5900		14K	15.0	7.0	6AM
12CX6		PND	SIN	T5	RFA	SCO	SY	H	12.6	150	33			13	3	3100		40K	7.6	6.2	7BK
12CY6	OBS	PND	SIN	T5	RFA	SCO	SY	H	12.6	200	33			13	2	3200		140K	8.5	4.0	7BK
12D4A	S	DIO	SIN	T9	DA	VAC	TS	H	12.6	600	5K	900	8.0		185				9.0	7.0	4CG
12DB5		BEA	SIN	T6	VDA	RCO	‡HY	H	12.6	600	300	200	10.0	200	47	8000		28K	15.0	9.0	9GR
12DE8		DIO	PND	T6	DET	VAC	TS	H	12.6	200					5				3.7	5.7	9HG
12DE8		PND	DIO	T6	RFA	SCO	TS	H	12.6	200	30	20		13	1	1500		300K	5.5	5.7	9HG
12DF5	OBS	DIO	TWN	T6	REC	VAC	SY	H	12.6	450	1K	350		325	100						9BS
12DF7	OBS	TRI	TWN	T6	VA	SCO	WH	H	12.6	150	300		1.0	250	1	1600	100	55K	1.6	0.4	9A
12DJ8		TRI	TWN	T6	GEN		SY	H	12.6	180	130	25	1.8	90	15	12500	33				9AJ
12DK5	OBS	PND	SIN	T6	IFA	SCO	WH	H	12.6	300	16			13	2	3300		100K	9.5	2.65	9GT
12DK6		PND	SIN	T5	VHF	SCO	RC	H	12.6	500	330		2.3	125	12	9800		350K	6.3	1.9	7CM
12DK7	OBS	DWD	TET	T6	DET	VAC	RA	H	12.6	500		1									9HZ
12DK7	OBS	TET	DWD	T6	PA		RA	H	12.6	500	30	10	0.5	13	6	5000		4000			9HZ
12DL8	S	DWD	TET	T6	DET	VAC	TS	H	12.6	550		5			3				1.6	1.6	9HR
12DL8	S	TET	DWD	T6	PA	SRC	TS	H	12.6	550	30			13	40	15000		480	12.0	1.3	9HR
12DM4A		DIO	SIN	T9	DA	VAC	WH	H	12.6	600	5K	1200	6.5	200						8.5	4CG
12DM5	OBS	BEA	SIN	T5	PA	RCO	‡HY	H	12.6	450	135		5.5	110	50	7500		14K	13.0	9.0	7CV
12DM7	OBS	TRI	TWN	T6	AFA	SCO	‡HY	H	12.6	130	330		1.1	250	1	1600	100	62K	1.6	0.46	9A
12DQ4	S	DIO	SIN	T9	DA	VAC	RA	H	12.6	600	6K	1000	6.0		175					5.0	4CG
12DQ6B		BEA	SIN	T12	HDA	RCO	GE	H	12.6	600	770	610	18.0	250	65	7300		18K	15.0	7.0	6AM
12DQ7	S	PND	SIN	T6	VHF	SRC	GE	H	12.6	300	330		6.5	200	26	10500		53K	10.0	3.8	9BF
12DS7A	S	DWD	TET	T6	DET	VAC	RC	H	12.6	400		5		10	3						9JU
12DS7A	S	TET	DWD	T6	AFA	SCO	RC	H	12.6	400	16			13	40	15000		480	13.0	2.0	9JU
12DT5		BEA	SIN	T6	VDA	RCO	WH	H	12.6	600	315	190	9.0	250	38	6200			12.5	4.9	9HN
12DT6		PND	SIN	T5	DET	SCO	TS	H	12.6	150	330		1.7	150	1	800		150K	6.1		7EN
12DT7	OBS	TRI	TWN	T6	AFA	SCO	RA	H	12.6	150	300		1.0	250	1	1600	100	62K	1.6	0.46	9A
12DT8	S	TRI	TWN	T6	RFA	SRC	RC	H	12.6	150	300		2.5	250	10	5500	60	11K	2.7	1.6	9AJ
12DU7		DWD	TET	T6	DET	VAC	SY	H	12.6	275					1						9JX
12DU7		TET	DWD	T6	PA	SCO	SY	H	12.6	275	16			13	12	6200		6000	11.0	3.6	9JX
12DV7		DWD	TRI	T6	DET	VAC	SY	H	12.6	150					1						9JY
12DV7		TRI	DWD	T6	AFA	SCO	SY	H	12.6	150	16	20		13	400U	800	14	19K	1.3	0.38	9JY
12DV8		DWD	TET	T6	DET	VAC	GE	H	12.6	375		5			3				1.7		9HR
12DV8		TET	DWD	T6	AFD		GE	H	12.6	375	16			13	9	8500		900	9.0	1.0	9HR
12DW5	S	BEA	SIN	T6	PA	RCO	SY	H	12.6	600	330	225	11.0	200	55	5500		15K	14.0	9.0	9CK
12DW7	S	TRI	DIS	T6	VA	RCO	SY	H	12.6	150	330	22	3.3	250	10	2200	17	7700	1.7	0.40	9A
12DW7	S	TRI	DIS	T6	VA	SCO	SY	H	12.6	150	330		1.2	250	1	1600	100	62K	1.6	0.44	9A
12DW8	OBS	DIO	DTR	T6	DET	VAC	‡PL	H	12.6	450			0.5								9JC

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
12DW8	OBS	TRI	DSD	T6	AFA		‡PL	H	12.6	450	16		0.5	13	2	2700	10		1.6	0.7	9JC
12DW8	OBS	TRI	DSD	T6	AFD		‡PL	H	12.6	450	16		0.5	13	8	6500	6		4.4	0.7	9JC
12DY8		TRI	TET	T6	GEN	SCO	SY	H	12.6	350	16			13	1	2000	20	10K	2.0	0.38	9JD
12DY8		TET	TRI	T6	ONA	SRC	SY	H	12.6	350	16			13	14	6000		5000	11.0	3.0	9JD
12DZ6		PND	SIN	T5	RFA	RCO	GE	H	12.6	190	16			13	5	3600		30K	9.5	4.0	7BK
12DZ8	OBS	TRI	PND	T6	AFA	SCO	SO	H	12.0	450	150	5	0.8	120	800U	1400	100				9EX
12DZ8	OBS	PND	TRI	T6	PA		SO	H	12.0	450	150	60	6.5	145	45	7500					9EX
12EA6		PND	SIN	T5	IFA	SCO	GE	H	12.6	175	16			13	3	3800		32K	11.0	4.0	7BK
12EC8		TRI	PND	T6	OSC	SCO	SY	H	12.6	225	16			13	2	4700	25	6000	2.6	0.4	9FA
12EC8		PND	TRI	T6	MIX	SCO	SY	H	12.6	225	16			13	660U	2000		750K	4.6	2.6	9FA
12ED5		BEA	SIN	T5	PA	SRC	SY	H	12.6	450	150		6.2	125	37	8500		14K	14.0	8.5	7CV
12EF6	OBS	BEA	SIN	T9	VDA	RCO	RA	H	12.6	450	250	180	10.0	250	50	5000			11.5	9.0	7S
12EG6	S	PTG	SIN	T5	RFA	SCO	TS	H	12.6	150	30	20		13	400U			150K	5.7	12.0	7CH
12EH5		PND	SIN	T5	PA	SCO	RC	H	12.6	600	135		5.0	110	42	14600		11K	17.0	9.0	7CV
12EK6		PND	SIN	T5	RFA	SCO	SY	H	12.6	190	16			13	4	4200		400K	10.0	5.5	7BK
12EL6	S	DWD	TRI	T5	DET	VAC	SY	H	12.6	150					1						7FB
12EL6	S	TRI	DWD	T5	AFA	SCO	SY	H	12.6	150	30	20		13	750U	1200	55	45K	2.2	1.0	7FB
12EM6		DIO	TET	T6	DET	VAC	RA	H	12.6	500				10	1						9HV
12EM6		TET	DIO	T6	PA		RA	H	12.6	500	30	10	0.5	13	6	5000		4000			9HV
12EN6	S	BEA	SIN	T9	PA	RCO	WH	H	12.6	600	300	175	7.0	200	50	8000		28K	14.0	8.0	7S
12EQ7		DIO	PND	T6	DET	VAC	RC	H	12.6	150				10	1						9LQ
12EQ7		PND	DIO	T6	RFA	RCO	RC	H	12.6	150	300		3.0	100	9	3800		250K	5.5	5.0	9LQ
12EZ6		PND	SIN	T5	RFA	SCO	TS	H	12.6	175	30	10		14	2	3000		300K	7.8	5.5	7BK
12F8		DWD	PND	T6	DET	VAC	TS	H	12.6	150					1						9FH
12F8		PND	DWD	T6	AFA	SCO	TS	H	12.6	150	30			13	1	1000		330K	4.5	3.0	9FH
12FA6	OBS	PTG	SIN	T5	CON		TS	H	12.6	150	30	20		13	450U			800K	7.2	12.0	7CH
12FB5		PND	SIN	T6	VA		TA	H	12.6	300	250	50	6.0	170	31	8300					9CV
12FK6	S	DWD	TRI	T5	DET	VAC	RC	H	12.6	150		1									7BT
12FK6	S	TRI	DWD	T5	AFA	SCO	RC	H	12.6	150	16			13	1	1200	7	6200	1.8	0.7	7BT
12FM6	S	DWD	TRI	T5	DET	VAC	RA	H	12.6	150		1									7DT
12FM6	S	TRI	DWD	T5	AFA	SCO	RA	H	12.6	150	30	20		13	1	1300	10	7700	2.7	1.7	7DT
12FQ8		TRI	TWN	T6	OSC	SCO	GE	H	12.6	150	330		0.5	250	2	1200	95	76K	1.7		9KT
12FR8		TRI	PDD	T6	AFA	SCO	TS	H	12.6	320	16			13	1	1200	10		2.6	2.0	9KU
12FR8		PDD	TRI	T6	IFA	SCO	TS	H	12.6	320	16			13	2	2700		400K	8.5	5.5	9KU
12FT6	OBS	DWD	TRI	T5	DET	VAC	‡HY	H	12.6	150		1									7BT
12FT6	OBS	TRI	DWD	T5	AFA		‡HY	H	12.6	150	30	20		13	600U	1000	14	13K	1.8	1.1	7BT
12FV7		TRI	TWN	T6	ONA	RCO	RC	H	12.6	450	300	30	2.5	100	16	9600	22	2250	0.6	5.5	9A
12FX5		PND	SIN	T5	AFA		WH	H	12.6	450	150		5.5	110	35	13500		18K	17.0	9.0	7CV

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
12FX8		TRI	PTG	T6	RFA	SCO	TS	H	12.6	300	16			13	1	1400	10		2.2	0.48	9KV
12FX8		PTG	TRI	T6	CON	SCO	TS	H	12.6	300	16			13	290U			500K	6.0	5.0	9KV
12FY8		TRI	PND	T6	VA		‡HY	H	12.6	600	150		1.0	125	2	2000					9EX
12FY8		PND	TRI	T6	HF		‡HY	H	12.6	600	150		8.0	125	50	7500					9EX
12G4	OBS	TRI	SIN	T5	GEN	RCO	SY	H	12.6	150	300		2.5	250	9	2600	20	7700	2.4	0.9	6BG
12G11		PND	DIS	T9	DET	SRC	GE	H	12.6	600	150	65	6.5	120	50	7500		10K	12.0	12.0	12BU
12G11		PND	DIS	T9	AFA	SCO	GE	H	12.6	600	330		1.7	150	1	1000		150K			12BU
12GA6	S	PTG	SIN	T5	CON	SCO	GE	H	12.6	150	16			12	300U			1M	5.0	8.0	7CH
12GC6		BEA	SIN	T12	HDA	RCO	RA	H	12.6	600	770	550	17.5	250	345	6600		20K	15.0	7.0	8JX
12GE5		BEA	SIN	T12	HDA	RCO	GE	H	12.6	600	770	550	17.5	250	75	6600		20K	16.0	7.0	12BJ
12GJ5	S	BEA	SIN	T12	HDA	HIP	RC	H	12.6	600	770	550	17.5	250	70	7100		15K	15.0	6.5	9QK
12GN6		DIO	PND	T5	DET	VAC	RV	H	12.6	150					1						7FW
12GN6		PND	DIO	T5	IFA	RCO	RV	H	12.6	150	300		3.0	250	11	4400		1M	5.5	5.0	7FW
12GN7		PND	SIN	T6	VHF		SY	H	12.6	300	400		7.5	250	28	36000		50K	17.5	4.0	9BF
12GT5	S	BEA	SIN	T12	PA	HIP	RC	H	12.6	600	770	550	17.5	250	70	7100		15K	15.0	6.5	9NZ
12GV5		BEA	SIN	T12	HDA	RCO	RA	H	12.6	600	770	175	17.5	250	65	7300		18K	16.0	7.0	12DR
12GW6	S	BEA	SIN	T12	PA	RCO	RC	H	12.6	600	770	550	18.0	250	70	7100		15K			6AM
12H4	OBS	TRI	SIN	T5	GEN	RCO	SY	H	12.6	150	300		2.5	250	9	2600	20	7700	2.4	0.9	7DW
12H6GT		DIO	TWN	T9	REC	VAC	RC	H	12.6	150	420	48		117	8						7Q
12HU8		PND	TWN	T6	AFA		LR	H	12.0	300	300	40	6.0	250	26	6000		80K	7.0	4.5	9NJ
12J5WGT	S	TRI	SIN	T9	GEN	RCO	GE	H	12.6	150	330	20	2.8	250	9	2600	20	7700			6Q
12J8		DWD	TET	T6	DET	VAC	SY	H	12.6	325					5						9GC
12J8		TET	DWD	T6	PA	SCO	SY	H	12.6	325	30			13	12	5500		6000	10.5	4.4	9GC
12JB6		BEA	SIN	T12	HDA	RCO	RC	H	12.6	600	770	175	17.5	250	70	7100		150K	15.0	6.0	9QL
12K5		TET	SIN	T5	PA	SRC	TS	H	12.6	400	30			13	40	15000		480			7FD
12K8GT		TRI	HEX	T9	OSC		SY	H	12.6	150	125		0.8	100	4				6.5	3.4	8K
12K8GT		HEX	TRI	T9	MIX	RCO	SY	H	12.6	150	300		0.8	250	2			600K	4.6	4.8	8K
12KL8		DIO	PND	T6	DET	VAC	RC	H	12.6	150					1						9LQ
12KL8		PND	DIO	T6	IFA	SCO	RC	H	12.6	150	300		3.0	100	6	4300		550K	6.0	5.0	9LQ
12L6GT	S	BEA	SIN	T9	PA	RCO	GE	H	12.6	600	200		10.0	200	47	8000		28K			7S
12R5		BEA	SIN	T5	VDA	RCO	SY	H	12.6	600	150	155	4.5	110	40	7000		13K	13.0	9.0	7CV

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
12SA7GT	S	PTG	SIN	T9	CON		TS	H	12.6	150	300	14	1.0	250	4			1M	8.0	11.0	8AD
12SC7	S	TRI	TWN	MT8	AFA	SCO	RC	H	12.6	150	250			250	2	1300	70	53K	2.0	3.0	8S
12SF7		DIO	PND	MT8	DET	VAC	RC	H	12.6	150					1						7AZ
12SF7		PND	DIO	MT8	AFA	RCO	RC	H	12.6	150	300		3.5	250	12	2000		700K	5.5	6.0	7AZ
12SG7	S	PND	SIN	MT8	IFA	RCO	RC	H	12.6	150	300		3.0	250	12	4700		900K	8.5	7.0	8BK
12SH7	S	PND	SIN	MT8	RFA	SCO	RC	H	12.6	150	300		3.0	250	11	4900		900K	8.5	7.0	8BK
12SJ7GT	S	PND	SIN	T9	RFA	SRC	RC	H	12.6	150	300		2.5	250	3	1600		1M	6.0	7.0	8N
12SK7GT	S	PND	SIN	T9	RFA	RCO	‡HY	H	12.6	150	300		4.0	250	9	2000		800K	6.5	7.5	8N
12SL7GT	S	TRI	TWN	T9	VA	SCO	RC	H	12.6	150	300		1.0	250	2	1600	70	44K			8BD
12SN7GTA		TRI	TWN	T9	GEN	RCO	GE	H	12.6	300	450	70	5.0	250	9	2600	20	7700	2.2	0.7	8BD
12SQ7GT	S	DWD	TRI	T9	DET	VAC	‡HY	H	12.6	150					1						8Q
12SQ7GT	S	TRI	DWD	T9	VA	SCO	‡HY	H	12.6	150	300		0.5	250	1	1200	100	85K	4.2	3.4	8Q
12U7		TRI	TWN	T6	GEN	SCO	TS	H	12.6	150	30	15		13	1	1600	20	12K	1.6	0.4	9A
12V6GT	S	BEA	SIN	T9	PA	RCO	TS	H	12.6	225	315		12.0	250	47	4100		50K	9.0	7.5	7S
12W6GT	S	BEA	SIN	T9	PA	RCO	GE	H	12.6	600	300	180	10.0	200	47	8000		28K	15.0	9.0	7S
12X4		DIO	TWN	T5	REC	VAC	TS	H	12.6	300	1K	230		325	70						5BS
12Z3	OBS	DIO	SIN	ST12	REC	VAC	SY	H	12.6	300	700	330		235	55						4G
13CW4		TRI	SIN	MT4	RFA	SCO	RC	H	13.5	60	135		1.5	70	7	12500	68	5440	4.3	1.8	12AQ
13DE7	S	TRI	DIS	T6	VDA	RCO	SY	H	13.0	450	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
13DE7	S	TRI	DIS	T6	VDO	RCO	SY	H	13.0	450	330	77	1.5	250	6	2000	18	8750	2.2	0.52	9HF
13DR7	S	TRI	DIS	T6	VDA	RCO	SY	H	13.0	450	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
13DR7	S	TRI	DIS	T6	VDO	SCO	SY	H	13.0	450	330	70	1.0	250	1	1600	68	40K	2.2	0.34	9HF

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
13EC7		PND	SIN	T6	RFA	SRC	TA	H	13.0	100	250		2.2	175	12	4400					9AQ
13EM7		TRI	DIS	T9	VDA	RCO	SY	H	13.0	450	330	175	10.0	150	50	7200	5	750	7.0	1.8	8BD
13EM7		TRI	DIS	T9	VDO	SCO	SY	H	13.0	450	330	77	1.5	250	1	1600	68	40K	2.2	0.6	8BD
13FD7		TRI	DIS	T9	VDA	RCO	‡PL	H	13.0	450	330	175	10.0	150	40	7500	6	800	6.5	1.2	9HF
13FD7		TRI	DIS	T9	VDO	SCO	‡PL	H	13.0	450	330	70	1.5	250	1	1600	64	40K	2.2	0.40	9HF
13FM7		TRI	DIS	T9	VDA		SY	H	13.0	450	550	50	10.0	175	40	6000	6	920	2.4	0.4	12EJ
13FM7		TRI	DIS	T9	VDO		SY	H	13.0	450	350		1.0	250	2	2200	66	30K			12EJ
13FR7		TRI	DIS	T9	VDA	RCO	SY	H	13.0	450	330	175	10.0	150	50	7200	5	750	7.5	1.2	9HF
13FR7		TRI	DIS	T9	VDO	SCO	SY	H	13.0	450	330	77	1.5	250	1	1600	68	40K	2.4	0.30	9HF
13GB5		BEA	SIN	T9	PA	SRC	AM	H	13.3	600	275	275	6.0	75	440						9NH
13GC8		TRI	BEA	T6	VHF		TA	H	13.0	300	250		2.0	200	10	3400	18	5300	3.7	3.0	9KZ
13GC8		BEA	TRI	T6	PA		TA	H	13.0	300	250		5.5	170	32	6500			11.0	8.6	9KZ
13GF7		TRI	DIS	T9	VDA	RCO	RC	H	13.0	450	330	50	11.0	150	50	7200	5	750	6.5	1.4	9QD
13GF7		TRI	DIS	T9	VDO	SCO	RC	H	13.0	450	330	22	1.5	250	1	1600	64	40K	2.4	0.26	9QD
13J10		PND	GTB	T9	PA	SRC	GE	H	13.2	450	275		10.0	250	39	6500		100K	11.0	7.0	12BT
13J10		GTB	PND	T9	DIS		GE	H	13.2	450	330	13		270	440U				4.0		12BT
14C7		PND	SIN	T9	DET	SCO	SY	H	12.6	150	300		1.0	250	2	1600		1M	6.0	6.5	8V
14F7	S	TRI	TWN	T9	VA	SCO	SY	H	12.6	150	300		1.0	250	2	1600	70	44K	2.4	2.0	8AC
14F8		TRI	TWN	T9	VHF	SRC	TS	H	12.6	150	300		3.5	250	6	3300	48		2.8	1.4	8BW
14GT8A	S	DWD	TRI	T6	DET	VAC	SY	H	14.0	150					5						9KR
14GT8A	S	TRI	DWD	T6	VA	SCO	GE	H	14.0	150	330		1.1	250	700U	1000	72	72K	1.6	0.24	9KR
14JG8	S	DWD	TRI	T6	DET	VAC	GE	H	14.0	150				5	20						9KR
14JG8	S	TRI	DWD	T6	AFA	SCO	GE	H	14.0	150	330		1.1	250	2	2200	90	41K	1.8	0.22	9KR
14Q7		PTG	SIN	T9	CON		SY	H	12.6	150	300	14	1.0	250	4			1M	7.0	9.0	8AL
14R7		DWD	PND	T9	DET	VAC	SY	H	12.6	150					1						8AE
14R7		PND	DWD	T9	VA	RCO	SY	H	12.6	150	250		2.0	250	6	3200		1M	5.6	5.3	8AE
15A8	OBS	TRI	PND	T9	VDO	SRC	SY	H	15.0	600	300	70	2.5	250	9	2600	20	7700	2.6	0.9	8GS
15A8	OBS	PND	TRI	T9	VDA	RCO	SY	H	15.0	600	300	140	7.5	110	45	7300		13K	11.0	5.0	8GS
15AF11		TDI	PND	T9		SCO	GE	H	14.7	450	330		1.1	200	7	5500	68	12K			12DP
15AF11		TDI	PND	T9	CON	SCO	GE	H	14.7	450	330		2.0	200	9	4400	41	9400			12DP
15AF11		PND	TDI	T9	IFA	SRC	GE	H	14.7	450	330		5.0	250	24	11000		68K			12DP
15CW5		PND	SIN	T6	AFA	SRC	RE	H	15.0	300	250	100	12.0	200	60	8800		23K			9CV
15EA7		TRI	DIS	T9	VDA	RCO	GE	H	14.8	450	550	50	10.0	175	40	6000	6	920	6.0	1.3	8BD
15EA7		TRI	DIS	T9	VDO	SCO	GE	H	14.8	450	350		1.0	250	2	2200	66	30K	2.2	0.6	8BD
15EW6		PND	SIN	T5	IFA	SCO	GE	H	15.0	150	330		3.1	125	11	14000		200K	10.0	2.4	7CM
15FM7		TRI	DIS	T9	VDA		GE	H	14.8	450	550	50	10.0	175	40	6000	6	920	2.4	0.4	12EJ
15FM7		TRI	DIS	T9	VDO		GE	H	14.8	450	350		1.0	250	2	2200	66	30K			12EJ
15FY7		TRI	DIS	T9	VDA	RCO	GE	H	14.7	450	275	50	7.0	150	45	7500	6	800	6.5	1.2	12EO
15FY7		TRI	DIS	T9	VDO	SCO	GE	H	14.7	450	330	20	1.0	250	1	1600	65	40K	2.2	0.4	12EO
15HB6		PND	SIN	T6	VDA	SRC	RC	H	14.7	300	350		10.0	250	40	20000		24K	13.0	8.0	9NW

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
16AQ3		DIO	SIN	T6	REC	VAC	RE	H	16.4	600	250	250	5.0							2.0	9CB
16GK6		PND	SIN	T6	AFA	SRC	TA	H	16.0	300	440		13.2	250	48	11300		38K	10.0	7.0	9GK
16GK8		TRI	BEA	T6	OSC		TA	H	16.0	300	250		1.0	200	10	3400	18				9JE
16GK8		BEA	TRI	T6			TA	H	16.0	300	500	75	7.0	250							9JE
17AX3	S	DIO	SIN	T9	DA	VAC	GE	H	16.8	150	5K	1000	5.3		165				7.5	5.5	12BL
17AV5GA		BEA	SIN	T11	HDA	RCO	GE	H	16.8	450	550	400	11.0	250	57	5900		14K	14.0	7.0	6CK
17AX4GTA		DIO	SIN	T9	DA	VAC	SY	H	16.8	450	4K	600		32	250				8.5	5.0	4CG
17AY3		DIO	SIN	T9	DA	VAC	RC	H	16.8	450	5K	1100	6.5	900	175						9HP
17BE3	S	DIO	SIN	T9	DA	VAC	GE	H	16.8	450	5K	1200	6.5							8.0	12BL
17BH3	S	DIO	SIN	T9	DA	VAC	RC	H	17.0	600	6K	1100	6.5							6.5	9HP
17BQ6GTB		BEA	SIN	T9	HDA	RCO	SY	H	16.8	450	550	400	11.0	250	55	5500		20K	15.0	7.5	6AM
17BR3		DIO	SIN	T6	DA	VAC	TO	H	16.8	450	6K	1200	6.5	19	250					8.5	9CB
17BS3		DIO	SIN	T9	DA	VAC	RC	H	16.8	450	5K	1100	6.0	12	140					6.5	9HP
17C5		BEA	SIN	T5	PA	RCO	GE	H	16.8	450	135		5.5	110	50	7500		10K	13.0	9.0	7CV
17C9A		TET	TWN	T6	VHF	SCO	SY	H	16.8	150	250	20	1.5	125	10	8000		100K			10F
17CA5		BEA	SIN	T5	PA	SRC	SY	H	16.8	450	130		5.0	125	37	9200		15K	15.0	9.0	7CV
17CU5	OBS	BEA	SIN	T5	PA	RCO	WH	H	16.8	450	135		6.0	120	50	7500		10K	13.0	8.5	7CV
17D4A	S	DIO	SIN	T9	DA	VAC	TS	H	16.8	450	5K	9005	8.0		185				9.0	7.0	4CG
17DE4	S	DIO	SIN	T9	DA	VAC	RC	H	17.0	600	5K	1100	6.5		175						4CG
17DM4A		DIO	SIN	T9	DA	VAC	WH	H	16.8	450	5K	1200	6.5	200						8.5	4CG
17DQ4	S	DIO	SIN	T9	DA	VAC	RA	H	16.8	450	6K	1000	6.0		175					5.0	4CG
17DQ6B		BEA	SIN	T12	HDA	RCO	GE	H	16.8	450	770	610	18.0	250	65	7300		18K	15.0	7.0	6AM
17GE5		BEA	SIN	T12	HDA	RCO	GE	H	16.8	450	770	550	17.5	250	75	6600		20K	16.0	7.0	12BJ
17GJ5	S	BEA	SIN	T12	HDA	HIP	RC	H	16.8	450	770	550	17.5	250	70	7100		15K	15.0	6.5	9QK
17GT5	S	BEA	SIN	T12	PA	HIP	RC	H	16.8	450	770	550	17.5	250	70	7100		15K	15.0	6.5	9NZ
17GV5		BEA	SIN	T12	HDA	RCO	GE	H	16.8	450	770	175	17.5	250	65	7300		18K	16.0	7.0	12DR
17GW6	S	BEA	SIN	T12	PA	RCO	RC	H	16.8	450	770	550	18.0	250	70	7100		15K			6AM
17H3		DIO	SIN	T6	DA	VAC	GE	H	17.5	300	2K	450	3.0	13	75					4.0	9FK
17HC8		TRI	PND	T9	VDO	SCO	SY	H	16.8	450	330		1.0	250	1	2000	68	34K	3.0	2.6	9EX
17HC8		PND	TRI	T9	VDA	RCO	SY	H	16.8	450	350		11.0	250	38	5100		55K	10.0	8.0	9EX
17JB6		BEA	SIN	T12	HDA	RCO	RC	H	16.8	450	770	175	17.5	250	70	7100		150K	15.0	6.0	9QL
17JK8		TRI	DIS	T6	OSC	SCO	SY	H	16.8	150	165	22	1.0	100	5	6800	55	8000	5.0	4.0	9AJ
17JK8		TRI	DIS	T6	RFA	SCO	SY	H	16.8	150	200	22	2.0	135	10	13000	70	5400	3.0	1.0	9AJ
17JZ8		TRI	BEA	T9	VDO	SRC	GE	H	16.8	450	250	20	1.0	150	3	1900	22	11K	2.2	0.7	12DZ
17JZ8		BEA	TRI	T9	VDA	RCO	GE	H	16.8	450	250	70	7.0	120	46	7100		12K	11.0	7.0	12DZ
17L6GT	S	BEA	SIN	T9	PA	RCO	SY	H	16.8	450	200		10.0	200	47	8000		28K			7S
17R5		BEA	SIN	T5	VDA	RCO	SY	H	16.8	450	150	155	4.5	110	40	7000		13K	13.0	9.0	7CV
17W6GT	S	BEA	SIN	T9	PA	RCO	WH	H	16.8	450	300	180	10.0	200	47	8000		28K	15.0	9.0	7S
18A5		BEA	SIN	T9	HDA	RCO	GE	H	18.5	300	350	310	9.0	200	40	4800		27K	13.0	7.0	6CK
18DZ8		TRI	PND	T6	AFA	SCO	SO	H	18.0	300	150	5	0.8	120	800U	1400	100				9EX
18DZ8		PND	TRI	T6	PA		SO	H	18.0	300	150	60	6.5	145	45	7500					9EX
18FW6A	S	PND	SIN	T5	RFA	SRC	SY	H	18.0	100	150		2.5	100	11	4400		250K	5.5	5.0	7BK
18FX6A		PTG	SIN	T5	CON	SRC	SY	H	18.0	100	150		1.0	100	9			400K		8.0	7CH

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
18FY6A	S	DWD	TRI	T5	DET	VAC	SY	H	18.0	100				10	2						7BT
18FY6A	S	TRI	DWD	T5	RFA	SRC	SY	H	18.0	100	150		0.5	100	600U	1300	100	77K	2.4	0.22	7BT
18GD6A	S	PND	SIN	T5	RFA	SCO	SY	H	18.0	100	150		2.5	100	5	4300		500K	6.0	5.0	7BK
18GE6A		DWD	TRI	T5	DET	VAC	SY	H	18.0	100		1									7BT
18GE6A		TRI	DWD	T5	RFA		SY	H	18.0	100	150		0.5	100	1	1700	70	40K	2.4	0.2	7BT
18HB8		TRI	PND	T6	AFA		SY	H	18.0	300	150		0.8	115		3900	74				9ME
18HB8		PND	TRI	T6	AFA		SY	H	18.0	300	150	135	6.5	115	32	6200					9ME
19AU4GTA		DIO	SIN	T9	DA	HIP	TS	H	18.9	600	4K	1050	6.0	15	175					8.5	4CG
19BG6G		BEA	SIN	ST16	HDA	RCO	GE	H	18.9	300	700	400	20.0	250	75	6000		25K	11.0	6.0	5BT
19C8		TRD	TRI	T6	DET	HIP	‡PL	H	18.9	150					6					5.2	9E
19C8		TRI	TRD	T6	VA	SCO	‡PL	H	18.9	150	250		1.0	100	500U	1200	100	80K			9E
19CL8B		TRI	TET	T6	OSC	SRC	SY	H	18.9	150	330		2.5	125	14	8000	40	5000	2.8	1.5	9FX
19CL8B		TET	TRI	T6	MIX	SRC	SY	H	18.9	150	330		3.0	125	12	6500		200K	5.0	2.0	9FX
19DE7		TRI	DIS	T6	VDA	RCO	SY	H	19.4	300	275	175	7.0	150	35	6500	6	925	5.5	1.0	9HF
19DE7		TRI	DIS	T6	VDO	RCO	SY	H	19.4	300	330	77	1.5	250	6	2000	18	8750	2.2	0.52	9HF
19EA8A		TRI	PND	T6	OSC	SRC	SY	H	18.9	150	330		3.0	150	18	8500	40	5000	3.0	0.3	9AE
19EA8A		PND	TRI	T6	MIX	SRC	SY	H	18.9	150	330		3.1	125	12	6400		80K	5.0	2.6	9AE
19EZ8		TRT		T6	GEN	SRC	GE	H	18.9	150	330		2.0	125	4	4200	57	14K	2.4		9KA
19GQ7		TRD		T6	DET	VAC	RA	H	18.9	150	330	54		117	54						9AX
19HR6		PND	SIN	T5	GEN	SRC	RC	H	18.9	150	300		3.0	200	13	8500		500K	8.8	5.2	7BK
19HS6		PND	SIN	T5	GEN	SCO	RC	H	18.9	150	300		3.0	150	9	9500		500K	8.8	5.2	7BK
19HV8		TRI	PND	T6	IFA	SCO	GE	H	18.9	150	330		0.6	100	800U	1300	70	54K	1.7	0.38	9FA
19HV8		PND	TRI	T6	AFA	SRC	GE	H	18.9	150	330		3.0	125	12	6500		200K	5.5	2.4	9FA
19J6		TRI	TWN	T5	RFA	SCO	RC	H	18.9	150	300	15	1.5	100	8	5300	38	7100	2.2	0.4	7BF
19JN8	S	TRI	PND	T6	OSC	SRC	GE	H	18.9	150	300		2.5	125	14	8500	46	5400	3.2	2.2	9FA
19JN8	S	PND	TRI	T6	RFA	SRC	GE	H	18.9	150	300		2.5	125	12	7500		200K	3.2	2.2	9FA
19KG8	S	TRI	PND	T6	OSC	SRC	GE	H	18.9	150	300		2.5	125	14	8500	46	5400	3.2	2.2	9LY
19KG8	S	PND	TRI	T6	MIX	SRC	GE	H	18.9	150	300		2.5	125	12	7500		200K	5.5	3.4	9LY
19Q9	S	TRI	PND	T6	AFA	SRC	SY	H	18.9	150	330		2.5	125	14	8000	40	5000	3.2	1.1	10H
19Q9	S	PND	TRI	T6	MIX	SRC	SY	H	18.9	150	330		3.0	125	12	6500		200K	5.0	2.4	10H
19T8A	S	TRD	TRI	T6	DET	HIP	SY	H	18.9	150					5						9E
19T8A	S	TRI	TRD	T6	AFA	SCO	SY	H	18.9	150	300		1.0	250	1	1200	70	58K	1.6	1.1	9E
19V8	OBS	TRD	TRI	T6	DET	HIP	‡PL	H	18.9	150					10						9AH
19V8	OBS	TRI	TRD	T6	VA	SCO	‡PL	H	18.9	150	300		1.0	250	1	1200	70	58K			9AH
19X8		TRI	PND	T6	OSC	SRC	RC	H	18.9	150	250		1.5	100	8	5800	40	6900	2.0	0.5	9AK
19X8		PND	TRI	T6	MIX	SRC	RC	H	18.9	150	250		2.0	250	8	4600		750K	4.3	0.7	9AK
20EQ7		DIO	PND	T6	DET	VAC	RC	H	20.0	100				10	1						9LQ
20EQ7		PND	DIO	T6	RFA	RCO	RC	H	20.0	100	300		3.0	100	9	3800		250K	5.5	5.0	9LQ
20EZ7		TRI	TWN	T6	AFA		RC	H	20.0	100	330		1.2	250	1	1600	100	62K			9MJ

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
21EX6	OBS	BEA	SIN	T12	HDA	RCO	RA	H	21.5	600	770	220	22.0	175	67	7700		8500	22.0	8.5	5BT
21GY5		BEA	SIN	T12	HDA	RCO	GE	H	21.0	450	770	230	18.0	130	40	7700		14K	22.0	9.0	12DR
21HD5		BEA	SIN	T12	HDA	RCO	RA	H	21.5	600	770	280	24.0	135	65	10000		5000			12ES
22BH3		DIO	SIN	T9	DA	VAC	RC	H	22.4	450	6K	1100	6.5							6.5	9HP
22DE4		DIO	SIN	T9	DA	VAC	SY	H	22.4	450	5K	1100	6.5		175						4CG
24GA7		DIO	PND	T12	DA	VAC	RA	H	24.0	600	6K	140	5.0								12EB
24GA7		PND	DIO	T12	PA	RCO	RA	H	24.0	600	770	150	15.0	250	75	6600		20K			12EB
25AV5GA	S	BEA	SIN	T11	HDA	RCO	GE	H	25.0	300	550	400	11.0	250	57	5900		14K	14.0	7.0	6CK
25AX4GT	S	DIO	SIN	T9	DA	VAC	RA	H	25.0	300	4K	750	4.8	21	125					5.0	4CG
25BK5		BEA	SIN	T6	PA	SRC	GE	H	25.0	300	250		9.0	250	37	8500		100K	13.0	5.0	9BQ
25BQ6GT		BEA	SIN	T9	VDA	RCO	‡PL	H	25.0	300	550	400	11.0	250	55	5500		20K	15.0	7.5	6AM
25BR3		DIO	SIN	T6	DA	VAC	TO	H	25.0	300	6K	1200	6.5	19	250					8.5	9CB
25C5	S	BEA	SIN	T5	PA	RCO	RA	H	25.0	300	135		5.5	110	50	7500		10K	13.0	6.1	7CV
25C6GA	S	BEA	SIN	T12	PA	RCO	SY	H	25.0	300	200		12.5	135	66	7100		18K			7S
25CA5	S	BEA	SIN	T5	PA	SRC	GE	H	25.0	300	130		5.0	125	37	9200		15K	15.0	9.0	7CV
25CD6GA	S	BEA	SIN	T12	HDA	RCO	GE	H	25.0	600	700	700	20.0	175	75	7700		7200	22.0	8.5	5BT
25CR5	OBS	BEA	SIN	T6	HDA	RCO	WH	H	25.0	300	600	400	11.0	250	65	6000		18K	12.9	6.9	9HC
25CU6	S	BEA	SIN	T12	HDA	RCO	SY	H	25.0	300	600	400	11.0	250	57	5900		14K	15.0	7.0	6AM
25D4	OBS	DIO	SIN	T9	DA	VAC	SY	H	25.0	300	4K	900	5.5	15	155						4CG
25DK4		DIO	SIN	T5	REC	VAC	GE	H	25.0	150	330	100		117	90						5BQ
25DN6		BEA	SIN	T12	HDA	RCO	SY	H	25.0	600	700	700	15.0	125	70	9000		4000	22.0	11.5	5BT
25DQ6A	OBS	BEA	SIN	T12	HDA	RCO	SY	H	25.0	300	700	440	15.0	250	75	6600		20K	15.0	7.0	6AM
25DT5	OBS	BEA	SIN	T6	VDA	RCO	SY	H	25.0	300	315	190	9.0	250	38	6200			12.5	4.9	9HN
25EC6	S	BEA	SIN	T12	HDA	RCO	GE	H	25.0	600	700	700	10.0	135	70	7500		4700	24.0	10.0	5BT
25EH5		PND	SIN	T5	PA	SCO	RC	H	25.0	300	135		5.0	110	42	14600		11K	17.0	9.0	7CV
25F5		BEA	SIN	T5	PA	RCO	SY	H	25.0	150	135		4.5	110	37	5800		16K	12.0	6.0	7CV
25F5A		BEA	SIN	T5	PA	SRC	RC	H	25.0	150	150		5.5	110	43	6400		130K	12.0	8.0	7CV
25FY8		TRI	PND	T6	VA	SCO	‡HY	H	25.0	300	150		1.0	125	3	2700	46	17K			9EX
25FY8		PND	TRI	T6	HF		‡HY	H	25.0	300	150		8.0	125	66	7500		5000			9EX
25GF6		BEA	SIN	T10	PA		TA	H	25.0	300	400	160	10.0								6AM
25L6GT	S	BEA	SIN	T9	PA	RCO	‡HY	H	25.0	300	200		10.0	200	47	8000		28K			7S
25W4GT	S	DIO	SIN	T9	DA	VAC	GE	H	25.0	300	4K	750	3.5	13	125					6.0	4CG
25W6GT	S	BEA	SIN	T9	PA	RCO	GE	H	25.0	300	300	180	10.0	200	47	8000		28K	15.0	9.0	7S
25Z6GT	S	DIO	TWN	T9	REC	VAC	‡HY	H	25.0	300	700	450		117	75						7Q

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
26A6		PND	SIN	T5	RFA	RCO	RC	H	26.5	70	250		3.0	250	10	4000		1M	6.0	5.0	7BK
26A7GT		BEA	TWN	T9	PA	SRC	RC	H	26.5	600	50		2.0	26	20	5700			16.0	13.0	8BU
26BK6	OBS	DWD	TRI	T5	REC	HIP	TS	H	26.5	70					1						7BT
26BK6	OBS	TRI	DWD	T5	VA	SCO	TS	H	26.5	70	300			250	1	1600	100	62K			7BT
26C6	S	DWD	TRI	T5	DET	VAC	RC	H	26.5	70											7BT
26C6	S	TRI	DWD	T5	VA	SCO	RC	H	26.5	70	250		2.5	250	10	1900	16	8500	1.8	1.4	7BT
26CG6	OBS	PND	SIN	T5	IFA	RCO	SY	H	26.5	70	300		4.0	250	9	2000		720K	5.0	5.0	7BK
26D6		PTG	SIN	T5	CON		RC	H	26.5	70	300	14	1.0	250	3			1M	5.8	14.0	7CH
26E6WC	S+	BEA	SIN	T11	PA	RCO	TS	H	26.5	300	220		12.5	200	66	7100		18K			7S
26Z5W	+	DIO	TWN	T6	REC	VAC	TS	H	26.5	200	1K	300		325	100						9BS
27GB5		BEA	SIN	T9	PA	SRC	AM	H	27.0	300	275	275	6.0	75	440						9NH
28D7W	+	BEA	TWN	T9	PA	RCO	SY	H	28.0	400	100		3.0	28	12	3400		4200			8BS
28GB5		BEA	SIN	T9	PA	SRC	AM	H	28.0	300	275	275	6.0	75	440						9NH
28HD5		BEA	SIN	T12	HDA	RCO	RA	H	28.0	450	770	280	24.0	135	65	10000		5000			12ES
29GK6		PND	SIN	T6	AFA	SRC	RA	H	28.6	150	440		13.2	250	48	11300		38K	10.0	7.0	9GK
30AE3		DIO	SIN	T6	REC	VAC	RE	H	30.0	300	550	550	5.0	250	220				8.6	2.0	9CB
30AG11		DWD	TTR	T9	HF	VAC	GE	H	30.0	150		18								2.2	12DA
30AG11		TTR	DWD	T9	HF	SCO	GE	H	30.0	150	330		2.0	125	8	7800	66	8500	3.8	0.24	12DA
32ET5A	S	BEA	SIN	T5	PA	SRC	SY	H	32.0	100	150		5.4	110	30	5500		22K	12.0	6.0	7CV
32GA7		DIO	PND	T12	DA	VAC	RA	H	32.0	450	6K	140	5.0								12EB
32GA7		PND	DIO	T12	PA	RCO	RA	H	32.0	450	770	150	15.0	250	75	6600		20K			12EB
34GD5A	S	BEA	SIN	T5	PA	SRC	RC	H	34.0	100	150		5.0	110	35	5700			12.0	9.0	7CV
35A5		BEA	SIN	T9	PA	RCO	‡PL	H	35.0	150	200		8.5	200	44	6000		40K			6AA
35B5	S	BEA	SIN	T5	PA	RCO	RC	H	35.0	150	117		4.5	110	41	5800			11.0	6.5	7BZ
35C5A	S	BEA	SIN	T5	PA	RCO	SY	H	35.0	150	135		4.5	110	41	5800		13K	12.0	9.0	7CV
35CD6GA		BEA	SIN	T12	HDA	RCO	SY	H	35.0	450	700	700	20.0	175	75	7700		7200	22.0	8.5	5BT
35D5		PND	SIN	T6	AFA	SRC	MI	H	35.0	150	275		10.0	170	58	9500		20K			9FU

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
35DZ8		TRI	PND	T6	AFA	SCO	SO	H	35.0	150	150	5	0.8	120	800U	1400	100				9EX
35DZ8		PND	TRI	T6	PA		SO	H	35.0	150	150	60	6.5	145	45	7500					9EX
35EH5A		PND	SIN	T5	PA	SRC	SY	H	35.0	150	150		5.0	110	32	12000		14K	17.0	9.0	7CV
35FN5		PND	SIN	T12	HDA	RCO	CI	H	35.0	300	250	700	16.0	100		17000		3500	25.0	11.0	8GD
35GL6		BEA	SIN	T5	PA	RCO	GE	H	35.0	150	110		5.5	110	47	7500		12K	14.0	9.5	7FZ
35HB8		TRI	PND	T6	AFA		SY	H	35.0	150	150		0.8	115		3900	74				9ME
35HB8		PND	TRI	T6	AFA		SY	H	35.0	150	150	135	6.5	115	32	6200					9ME
35L6GT		BEA	SIN	T9	PA	RCO	TS	H	35.0	150	200		8.5	200	43	6100		34K			7S
35W4A	S	DIO	SIN	T5	REC	VAC	SY	H	35.0	150	360	660		117	100						5BQ
35Y4		DIO	SIN	T9	REC	VAC	SY	H	35.0	150	700	600		235	100						5AL
35Z3		DIO	SIN	T9	REC	VAC	‡PL	H	35.0	150	700	600		235	100						4Z
35Z5GT		DIO	SIN	T9	REC	VAC	‡NU	H	35.0	150	700	600		235	100						6AD
36AM3B	S	DIO	SIN	T5	REC	VAC	RC	H	36.0	100	365	580		120	75						5BQ
40FR5		PND	SIN	T5	PA		SY	H	40.0	100	150		5.2	110	35	6000		20K	12.0	9.0	7CV
50A5	S	BEA	SIN	T9	PA	RCO	SY	H	50.0	150	200		10.0	200	55	8200		35K			6AA
50B5	S	BEA	SIN	T5	PA	RCO	RC	H	50.0	150	135		5.5	110	50	7500		10K	13.0	6.5	7BZ
50BK5		BEA	SIN	T6	PA	SRC	WH	H	50.0	150	250		9.0	250	37	8500		100K	13.0	5.0	9BQ
50C5A	S	BEA	SIN	T5	PA	RCO	SY	H	50.0	150	135		5.5	110	50	7500		10K	13.0	9.0	7CV
50C6GA		BEA	SIN	T12	PA	RCO	RA	H	50.0	300	200		12.5	135	66	7100		18K			7S
50CA5		BEA	SIN	T5	PA	SRC	‡HY	H	50.0	150	130		5.0	125	37	9200		15K	15.0	9.0	7CV
50DC4		DIO	SIN	T5	REC	VAC	GE	H	50.0	150	330	720		117	110						5BQ
50EH5A		PND	SIN	T5	PA	SRC	SY	H	50.0	150	150		5.0	110	32	12000		14K	17.0	9.0	7CV
50FA5		PND	SIN	T5	PA	SRC	SY	H	50.0	100	150		5.2	110	41	5800		13K	11.0	8.5	7CV
50FE5		BEA	SIN	T9	AFA	RCO	RC	H	50.0	150	175		14.5	130	88	9500		8000	15.0	9.0	8KB
50FK5		PND	SIN	T5	AFA		GE	H	50.0	100	150		5.0	110	32	12800		14K	17.0	9.0	7CV
50FY8		TRI	PND	T6	VA		‡HY	H	50.0	150	150		1.0	125	3	2700	46	17K			9EX
50FY8		PND	TRI	T6	HF		‡HY	H	50.0	150	150		8.0	125	66	7500		5000			9EX
50HC6		PND	SIN	T5	PA	SCO	GE	H	50.0	150	150		5.5	110	42	14600		11K	17.0	9.0	7FZ
50HK6		BEA	SIN	T5	PA	SRC	GE	H	50.0	150	150		5.5	110	50	7500		10K	14.0	9.0	7FZ
50L6GT	S	BEA	SIN	T9	PA	RCO	RC	H	50.0	150	200		10.0	200	47	8000		28K			7S
50X6	S	DIO	TWN	T9	REC	VAC	SY	H	50.0	150	700	450		117	75						7AJ
50Y6GT	S	DIO	TWN	T9	REC	VAC	‡HY	H	50.0	150	700	450		117	75						7Q
56R9		TRI	BEA	T9	VA	SCO	GE	H	14.0	150	150		1.0	100	600U	1800	100	60K	3.4	0.6	12EN
56R9		BEA	TRI	T9	PA	RCO	GE	H	42.0	150	150	65	6.5	120	49	7500		10K	12.0	6.5	12EN

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
60FX5		PND	SIN	T5	PA	SRC	RC	H	60.0	100	150		5.5	110	35	13500		18K	17.0	9.0	7CV
70L7GT		DIO	PND	T9	REC	VAC	RC	H	70.0	150	350	420		117	70						8AA
70L7GT		PND	DIO	T9	PA	RCO	RC	H	70.0	150	117		5.0	110	43	7500		15K			8AA
117L7GT	S	DIO	PND	T9	REC	VAC	TS	H	117.0	90	350	450		117	75						8AD
117L7GT	S	PND	DIO	T9	PA	RCO	TS	H	117.0	90	117		6.0	105	43	5300		17K			8AD
117Z3		DIO	SIN	T5	REC	VAC	TS	H	117.0	40	330	540		117	90						4CB
117Z6GT		DIO	TWN	T9	REC	VAC	#HY	H	117.0	75	700	360		117	60						7Q
323B		TRI	SIN	ST16	THY	GAS	WE	F	2.5	7000	1K	6000		1K	1500						5AU
393A		TRI	SIN	ST16	THY	GAS	WE	F	2.5	7000	1K	6000		1K	1500						5AV
394A		TRI	SIN	ST14	THY	GAS	CH	F	2.5	3200	1K	2500		1K	640						4AW
395A		TRI	SIN	T4	THY	GAS	TS	C			140	35		75	10						FL
407A	S+	TRI	TWN	T6	GEN	SRC	SY	H	40.0	50	330	18	1.6	150	8	5500	35		2.2	1.0	
408A	S+	PND	SIN	T5	GEN	SRC	SY	H	20.0	50	180	18	1.7	120	7	5000		340K	3.9	2.85	7BD
CK501		PND	SIN	T3X2	VA		RA	F	1.2	30	30					200		220K			FL
CK502AX	S	PND	SIN	T3X2	PA	SCO	RA	F	1.2	30	45	1		45	450U	500		250K	2.7	5.7	FL
502A	S	TET	SIN	MT8	THY	GAS	GE	H	6.3	600	1K	1000		650	100				2.5		6BS
CK505	OBS	PND	SIN	T3X2	VA	SCO	RA	F	0.6	30											FL
CK507	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	45	90					600		300K			FL
CK510AX		TET	TWN	T3X2	AFA	SCO	RA	F	0.6	50	45			30	50U	50		600K	2.4	2.1	FL
CK511		PND	SIN	T3X2	VA		RA	F	1.2	50	45										FL
CK512AX	S	PND	SIN	T3X2	AFA	SCO	RA	F	0.6	20	25	100U		15	50U	100		2M	2.3	1.5	FL
CK515BX		TRI	SIN	T2	VA		RA	F	0.6	30	45	150U				200	24	190K			FL
CK518AX		PND	SIN	T3X2	PA	SCO	RA	F	1.2	30	45	800U		45	250U	600		350K			FL
CK521AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	50	22	600U				400		40K			FL
CK523AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	30	22	300U				400		300K			FL
CK524AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	30	15	450U				300		200K			FL
CK525AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	22	250U				300		330K			FL
CK526AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	45	1		22	450U	400		220K			FL
CK527AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	15	45	500U		22	100U	200		2M			FL
CK528AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	45	675U				600		700K			FL
CK529AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	15	320U				400		300K			FL
CK531AX		PND	SIN	T2	PA	SCO	RA	F	1.2	20	15	300U				200		250K			FL
CK533AX		PND	SIN	T3X2	PA	SCO	RA	F	1.2	15	45	650U		22	360U	400		500K			FL
CK534AX		PND	SIN	T3X2	VA	SCO	RA	F	0.6	15	30	100U		15	9U	36		5M			FL
CK535AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	15	320U				400		300K			FL
CK536AX	OBS	PND	SIN	T3	PA		RA	F	1.2	15	22	360U				400		500K			FL
CK537AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	22	450U				400		220K			FL
CK538DX	OBS	PND	SIN	T2X1	VA	SCO	RA	F	0.6	15	15	5U				18		10M			FL

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CK539DX	OBS	PND	SIN	T2X1	PA	SCO	RA	F	1.2	15	22	250U				300		250K			FL
CK541DX	OBS	PND	SIN	T2X1	PA		RA	F	1.2	15	30	250U				400		500K			FL
CK542DXS	OBS	PND	SIN	T2X1	PA	SCO	RA	F	1.2	15	22	13U				300		150K			FL
CK543DX	OBS	PND	SIN	T2X1	VA	SCO	RA	F	0.6	15	15										FL
CK544DX	OBS	PND	SIN	T2X1	PA		RA	F	1.2	10	30	135U				300		1M			FL
CK545DX	OBS	PND	SIN	T2X1	VA	SCO	RA	F	0.6	8	15	5U				16		12M			FL
CK546DX		PND	SIN	T2X1	PA	SCO	RA	F	1.2	10				22	375U	400		200K			FL
CK547DX		PND	SIN	T2X1	PA	SCO	RA	F	1.2	10	45	500U		30	270U	400		750K			FL
CK548DX	OBS	PND	SIN	T2X1	PA	SCO	RA	F	1.2	10				22	240U	300		250K			FL
CK549DX	OBS	PND	SIN	T2X1	VA	SCO	RA	F	0.6	10				15	5U	17		12M			FL
CK572AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	45	550U						850K			FL
CK574AX	OBS	PND	SIN	T3X2	RFA	SCO	RA	F	0.6	20				22	125U	200		1M			FL
CK576DV	OBS	PND	SIN	T2X1	VA	SCO	RA	F	0.6	5	15	4U						12M			FL
CK577CX	OBS	PND	SIN	T3		SCO	RA	F	1.2	20	68	150U				100					FL
CK578AX	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	125	110	7				2000					FL
CK579	OBS	DIO	SIN	T3	REC	VAC	RA	F	1.2	360	15K	4		50	500U						
837		PND	SIN	ST16	RFA	RCO	RC	H	12.6	700	500	40	12.0	500	30	3400			16.0	10.0	6BM
884	OBS	TRI	SIN	ST12	THY	GAS	RC	H	6.3	600	350	300		300	75						6Q
954	OBS	PND	SIN	ACO	RFA	SCO	RC	H	6.3	150	250		0.5	250	2	1400		1M	3.4	3.0	5BB
955	OBS	TRI	SIN	ACO	RFA	RCO	RC	H	6.3	150	250		1.6	250	6	2200	25	11K			5BC
956	OBS	PND	SIN	ACO	RFA	RCO	RC	H	6.3	150	250		1.7	250	7	1800		700K	3.4	3.0	5BB
CK1005		DIO	TWN	MT8	REC	GAS	RA	F	6.3	50	450	210		225	35						5AQ
CK1006		DIO	TWN	ST14	REC	GAS	RA	F	1.8	2000	2K	600		800	200						4C
CK1007		DIO	TWN	MT8	REC	GAS	RA	F	1.0	1200	980	330		330	110						8DX
CK1024	OBS	DIO	TWN	MT8	REC	GAS	RA	C			1K	480		500	160						4R
CK1027	OBS	DIO	SIN	T5	REC	GAS	RA	C			3K	30		1K	3						5BU
CK1036	OBS	DIO	SIN	T3	REC	GAS	RA	C			3K			1K	100U						FL
CK1037	OBS	DIO	SIN	T3	REG	GAS	RA	C			720	125U		700	25U						FL
CK1038		DIO	SIN	T3	REG	GAS	RA	C			915	55U		900	25U						FL
CK1039	OBS	DIO	SIN	T3	REG	GAS	RA	C			1K	100U		1K	25U						FL
CK1041	OBS	DIO	SIN	T3	REC	VAC	RA	F	1.2	50	12K	100U		20	500U						
CH1046	OBS	TRI	SIN	T5	THY	GAS	CH	H	28.0	380	1K	20A		1K	50						
CK1047		DIO	SIN	T5	REC	GAS	RA	C			3K	100		1K	12						
CK1048	OBS	DIO	SIN	T3	REC	VAC	RA	F	1.2	185	25K	5									
CK1050A	OBS	TRI	SIN	T2	IND	GAS	RA	F	1.2	250	118	11		65	2						FL
CK1054		TRI	SIN	T4	THY	GAS	RA	F	1.4	50	45	700U		45	450U				1.2	1.3	FL

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CK1055	OBS	DIO	SIN	T3	REG	GAS	RA	C			250	300U		150	75U			750K			FL
CK1057	OBS	TET	SIN	T2	TRG	GAS	RA	C			123	8		68	2						FL
CK1059	OBS	DIO	SIN	T3	REC	VAC	RA	F	1.2	100	25K	2									
CK1061	+	DIO	SIN	T3	REG	GAS	RA	C			155	25		98	15						FL
1216	S	TRI	TWN	T5	ONA	SRC	SY	H	6.3	300	175	9	0.5	100	5	3400	27	7950	2.4	0.5	7BF
1217	S	PTG	SIN	T5	ONA		SY	H	6.3	300	250	20	1.0	150	6			20K	5.4	7.6	7CH
1218A		TRI	SIN	T5	GGA	SRC	SY	H	6.3	225	300	30	4.0	200	18	10700	55		5.5	1.8	7DK
1237	OBS	DIO	TWN	T9	REC	GAS	SY	F	2.5	1130	100	15A		20	3000						
1258	S*	TRI	SIN	T6	THY	GAS	CH	H	6.3	1800	1K	20A		600	50						7FJ
1616	OBS	DIO	SIN	T16	REC	VAC	RC	F	2.5	5000	6K	800		75	130						4P
1620	S+	PND	SIN	MT8	VA	SCO	RC	H	6.3	300	250			250	2	1200		1M	7.0	12.0	7R
VC2044	OBS	TRI	SIN	T6	THY	GAS	CH	H	6.3	850	1K	20A		600	50						
2050W	S+	TET	SIN	T9	THY	GAS	CH	H	6.3	600	1K	1000		600	100						6BS
4604		BEA	SIN	T12	PA	RCO	RC	H	6.3	650	400	150	25.0	200	100	6000			11.0	8.5	7CL
5516	OBS	BEA	SIN	T11	PA	RCO	‡HY	F	6.0	700	600		15.0	400	100	4000			8.5	6.5	7CS
5517		TRI	SIN	T5	REC	GAS	RA	C			3K	100		1K	12						5BU
5590	OBS	PND	SIN	T5	UHF	SRC	WE	H	6.3	150	180	18	1.7	90	4	2000		450K	3.2	2.0	7BD
5591	OBS	PND	SIN	T5	UHF	SCO	BT	H	6.3	150	180	18	1.7	130	8	5100		350K	4.0	2.85	7BD
5594		TRI	SIN	T16	THY	GAS	CH	F	2.5	5000	5K	2000		2K	500						3G
5608	OBS	TRI	TWN	ST14	VA	SRC	RA	H	2.5	5000	350	30	5.5	300	6	2400	32	13K			7B
5610	OBS	TRI	SIN	T5	GEN	SRC	GE	H	6.3	150	300		3.0	90	17	4000	14	3500			6CG
5618		PND	SIN	T5	VHF	SRC	RC	H	6.0	230	300	30	5.0	250	18	3500			7.0	5.0	7CU
5636	S*	PND	SIN	T3	GA	SRC	SY	H	6.3	150	165	11	1.1	100	5	3200		110K	4.0	1.9	8DC
5639		PND	SIN	T3	VHF	SRC	SY	H	6.3	450	165	40	4.0	150	21	9000		50K	9.0	4.6	8DE
5641	S*	DIO	SIN	T3	REC	HIP	SY	H	6.3	450	930	300		235	45						6CJ
5642		DIO	SIN	T3	REC	VAC	SY	F	1.2	200	10K	5		8K	150U					0.6	2B
5643	S*	TET	SIN	T3	THY	GAS	SY	H	6.3	150	500	100		150	16				1.6	1.5	8DD
5644	*	DIO	SIN	T3	REG	GAS	SY	C			130	25		95	15						4CN
5647		DIO	SIN	T2	DET	VAC	SY	H	6.3	150	460	60		150	9						FL
5651WA		DIO	SIN	T5	REF	GAS	RC	C			115	4		85	2						5BD
5654	S	PND	SIN	T5	UHF	SCO	RA	H	6.3	175	200	20	1.6	150	7	4300		420K	4.0	2.85	7BD
5656		TET	TWN	T6	VHF	SRC	RA	H	6.3	400	250	20	3.0	150	16	5800		60K	3.6	1.5	9F
5663		TET	SIN	T5	THY	GAS	GE	H	6.3	150	500	60		11	20						6CE
5670WA	S*	TRI	TWN	T6	GEN	SRC	GE	H	6.3	350	330	18	1.6	150	8	5500	35	6400	2.2	1.0	8CJ

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5672		PND	SIN	T3X2	PA	SRC	RA	F	1.2	50	100	6		68	3	600		125K	2.8	3.5	FL
5676	S	TRI	SIN	T3X2	UHF	SRC	RA	F	1.2	120	150	11		135	4	1600	15				FL
5677		TRI	SIN	T2X2	UHF		RA	F	1.2	60	135	2				800	16		1.1	3.3	
5678		PND	SIN	T3X2	RFA	SCO	RA	F	1.2	50	90			68	2	1100		1M	3.3	3.8	FL
5686	S*	BEA	SIN	T6	PA	RCO	RA	H	6.3	350	250	40	7.5	250	27	3100		45K	6.4	4.0	9G
5687WA	S*	TRI	TWN	T6	GEN	RCO	TS	H	12.6	450	330	65	3.8	120	36	11500	18		4.0	0.6	9H
5690	S+	DIO	TWN	T12	REC	VAC	RC	H	12.6	1200	1K	375		700	110						6S
5691	S+	TRI	TWN	T9	VA	SCO	RC	H	6.3	600	275	10	1.0	250	2	1600	70	44K			8BD
5692	S+	TRI	TWN	T9	VA	RCO	RC	H	6.3	600	275	15	1.8	250	6	2200	20	9100			8BD
5693	S+	PND	SIN	MT8	VA	SCO	RC	H	6.3	300	300	10	2.0	250	3	1600		1M	5.3	6.2	8N
5696	S	TET	SIN	T5	THY	GAS	GE	H	6.3	150	500	125			28						7BN
5702WA	S+	PND	SIN	T3	VHF	SCO	RA	H	6.3	200	165	16	1.1	120	8	5000		340K	5.05	3.75	FL
5703WB		TRI	SIN	T3	UHF	SRC	RA	H	6.3	200	200	15	1.4	120	9	5000	26		2.6	0.85	FL
5704WA	+	DIO	SIN	T2	DET	VAC	RA	H	6.3	150	460	60		165	9					2.2	FL
5718	*	TRI	SIN	T3	UHF	SRC	SY	H	6.3	150	165	22	3.3	150	13	6500	27		2.2	0.7	8DK
5719	*	TRI	SIN	T3	AFA	SCO	SY	H	6.3	150	165	3	0.6	150	2	2300	70		1.7	0.6	8DK
5725	S*	PND	SIN	T5	RFA	SCO	RA	H	6.3	175	200	20	1.6	120	5	3200			3.9	3.0	7CM
5726	S*	DIO	TWN	T5	REC	VAC	RA	H	6.3	300	360	60		117	9					3.2	6BT
5727	S*	TET	SIN	T5	THY	GAS	GE	H	6.3	600	1K	500		460	100				2.4		7BN
5744WB	S	TRI	SIN	T3	UHF	SCO	RA	H	6.3	200	275	6	1.3	250	4	4000	70		2.7	2.3	FL
5749	S*	PND	SIN	T5	RFA	RCO	GE	H	6.3	300	300		3.0	250	11	4400		1M	5.5	5.0	7BK
5750	S*	PTG	SIN	T5	CON		GE	H	6.3	300	300	14	1.0	250	3			1M	5.5	7.6	7CH
5751	S+	TRI	TWN	T6	VA	SCO	GE	H	12.6	175	330		0.8	250	1	1200	70	58K	1.4	0.46	9A
5755	S	TRI	TWN	T6	VA	SCO	WE	H	12.6	180	225	4	0.9	310	150U	500	70	140K	1.5	0.8	9J
5763	S	BEA	SIN	T6	VHF	RCO	RC	H	6.0	750	300	50	12.0	300	50	7000			9.5	4.5	9K
5783WB	*	DIO	SIN	T3	REF	GAS	RA	C			91	4		86	2						FL
5784WA	S+	PND	SIN	T3	VHF	SRC	RA	H	6.3	200	165	16	1.2	120	5	3200					FL
5785		DIO	SIN	T3X2	REC	VAC	RA	F	1.2	15	4K	520U		2K	80U						FL
5787WB	*	DIO	SIN	T3	REG	GAS	RA	C			105	25		100	15						FL
5799		DIO	SIN	T3	REC	VAC	RA	F	1.2	10	3K	600U		5	200U						
5800		TET	SIN	T3	EL		VI	F	1.2	10	50	500U			18U	8					FL
5812	OBS	BEA	SIN	T5	RFA	RCO	‡HY	F	6.0	650	300	60	10.0	250	40	4300		63K	9.0	7.4	7CQ
5814A	S+	TRI	TWN	T6	GEN	RCO	GE	H	12.6	175	330	22	3.0	250	10	2200	17	7700	1.6	0.5	9A
5823		TRI	SIN	T5	TRG	GAS	RC	C			200	100		117	25						4CK
5824	S	PND	SIN	T9	PA	RCO	GE	H	25.0	300	200		12.5	135	69	5000		15K			7S
5829WA		DIO	TWN	T3X2	REC	VAC	RA	H	6.3	150	360	28		117	5					2.7	FL
5838	S	DIO	TWN	T9	REC	VAC	BE	H	12.6	600	1K	230		400	50						6S
5839	S	DIO	TWN	T9	REC	VAC	BE	H	26.5	255	1K	230		400	50						6S
5840	S*	PND	SIN	T3	UHF	SRC	SY	H	6.3	150	165	16	1.1	100	8	5000		260K	4.0	1.9	8DE
5841		DIO	SIN	T3	REG	GAS	VI	C			930	50U		900	26U						FL

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
5842	S	TRI	SIN	T6	GGA	SCO	WE	H	6.3	300	200	38	4.5	130	27	27000	43	1600	9.0	1.8	9V
5844	S	TRI	TWN	T5	ONA	SRC	GE	H	6.3	300	200	10	1.0	100	5	3700	28	7550	2.6	0.5	7BF
5847	S	PND	SIN	T6	RFA	SCO	WE	H	6.3	300	200	40	3.3	160	14	13000		200K	7.2	3.15	9X
5852	S	DIO	TWN	T9	REC	VAC	BE	H	6.3	1200	1K	230		400	50						6S
5854	OBS	PND	SIN	T3X2	PA	SCO	RA	F	1.2	30	50			45	800U	600		350K			FL
5857	OBS	HEX	SIN	T6	VHF	SCO	‡NU	H	6.3	450	350		1.5	300	8	20000		70K	9.3	2.2	
5875		PND	SIN	T3X2	OSC	SCO	RA	F	1.2	100	100	7		90	4	2500			4.0	4.0	FL
5876		TRI	SIN	PEN	UHF	SCO	RC	H	6.3	135	300	25	6.2	250	18	6500	56	8625			
5879	S	PND	SIN	T6	VA	SRC	RC	H	6.3	150	300		1.2	250	2	1000		2M	2.7	2.4	9AD
5881	S	BEA	SIN	T11	PA	RCO	TS	H	6.3	900	400		23.0	300	55	5300		35K			7S
5884	OBS	TET	TWN	T3X2	EL	SRC	RA	F	1.2	10	25	500U		10	100U	23	1				FL
5885		TET	TWN	T3	EL		RA	F	1.2	20	22	300U		14	185U	200					
5886	S	PND	SIN	T3X2	EL	SCO	RA	F	1.2	10	22	300U		8	6U	14		8M	2.2		FL
5889	S	PND	SIN	T3	EL	SCO	RA	F	1.2	8	45	300U		12	4U	10					FL
5896	S	DIO	TWN	T3	DET	VAC	SY	H	6.3	300	460	60		150	9					2.4	8DJ
5899	S*	PND	SIN	T3	UHF	SRC	SY	H	6.3	150	165	16	1.1	100	7	4500		260K	4.0	1.9	8DE
5902WA	S*	BEA	SIN	T3	PA	RCO	SY	H	6.3	450	165	50	4.0	110	30	4200		15K	6.5	4.5	8DE
5903	S	DIO	TWN	T3	DET	HIP	SY	H	26.5	75	460	60		165	9					3.0	8DJ
5904		TRI	SIN	T3	VA	SCO	SY	H	26.5	45	55	22		26	3	5000	20		2.2	0.8	8DK
5905	S	PND	SIN	T3	UHF	SCO	SY	H	26.5	45	55	10		26	2	2800		150K	4.0	3.4	8DE
5906	S	PND	SIN	T3	UHF	SRC	SY	H	26.5	45	165	16	1.1	100	8	5000		260K	4.0	1.9	8DE
5907	S	PND	SIN	T3	UHF	SCO	SY	H	26.5	45	55	10		26	3	3000		100K	4.0	1.9	8DE
5908	*	PND	SIN	T3	UHF	SCO	SY	H	26.5	150	55	10		26	3	2200		31K	4.0	3.2	8DC
5910	S	PND	SIN	T5	VA	SCO	RA	F	1.4	50	90	6		90	2	900		2M	3.6	7.5	6AR
5915A	S	PTG	SIN	T5	ONA	SRC	GE	H	6.3	300	250	70	1.0	150	6	2400			5.4	7.6	7CH
5916	S	PND	SIN	T3	GA	SRC	SY	H	26.5	45	165	11	1.1	100	5	3200		110K	4.0	3.4	8DC
5920	OBS	TRI	TWN	T5	VA	SCO	AM	H	6.3	400	150	20	1.5	100	8	5500	25		3.1	0.3	7BF
5930	OBS	TRI	SIN	T12	PA	RCO	SY	F	2.5	2500	300		15.0	250	60	5200	4	800			4D
5931	S+	DIO	TWN	T12	REC	VAC	SY	F	5.0	3000	2K	2500		450	225						5T
5932	S+	BEA	SIN	T12	PA	RCO	SY	H	6.3	900	400		21.0	350	66	5200		33K			7S
5933	S+	BEA	SIN	T12	PA	RCO	SY	H	6.3	900	600		25.0	600	36				12.0	7.0	5AW
5947		DIO	SIN	T9	REG	VAC	BE	F	4.5	1750	250	45	7.0	90	2						
5950		DIO	SIN	T3	REG	GAS	VI	C			730	50U		700	26U						FL
5960		TRI	SIN	MT8	TRG	GAS	BE	C			1K	100A		100	90						3Z
5962		DIO	SIN	T5	REG	GAS	RA	C			2K	55U		700	25U						7EX
5963	S	TRI	TWN	T6	ONA	SRC	RC	H	12.6	150	250	100	2.5	68	7	2800	22	7850	1.9	0.5	9A
5964	S	TRI	TWN	T5	ONA	SRC	RC	H	6.3	450	250	75	1.5	100	10	6000	39	6500	2.1	0.4	7BF
5965A	S+	TRI	TWN	T6	ONA	HIP	GE	H	12.6	225	330	16	4.0	150	8	7000	47	6700	4.0		9A
5967	OBS	TRI	TWN	T3	VHF	SCO	RA	F	1.2	120	50	4		45	3	2000	17		0.9	0.9	8DQ
5968	OBS	TRI	TWN	T3	VHF	SCO	RA	F	1.2	120	45	4		45	700U	1300	50		0.9	0.9	8DQ
5969	OBS	TET	TWN	T3	VHF	SRC	RA	F	1.2	200	150	15	1.0	135	6	1700			2.5	2.5	8DR

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
5970		PND	TWN	T3	VHF	SRC	RA	F	1.2	160	45	5		45	3	1800		170K	3.3	2.4	8DS
5971		TRI	SIN	T3X2	VHF	SCO	RA	F	1.2	80	90	5		68	4	2100	23		1.6	1.7	FL
5972		PND	SIN	T3X2	RFA	SRC	RA	F	1.2	60	75			68	2	1300		1M	4.3	4.1	FL
5977	S	TRI	SIN	T3	GEN	SRC	SY	H	6.3	150	180	22	3.3	100	10	4500	16		2.0	0.8	8DK
5987	+	TRI	SIN	T3	PA	RCO	SY	H	6.3	450	165	50	4.0	100	9	1800	4		2.8	1.5	8DM
5992	S+	BEA	SIN	T9	PA	RCO	BE	H	6.3	600	300		12.0	250	47	4000		45K			7S
5993	S	DIO	TWN	T6	REC	VAC	BE	H	6.3	800	1K	230		325	70						9AZ
5998A	S	TRI	TWN	T12	REG	VAC	GE	H	6.3	2400	275	140	15.0	110	100	15500	5	350	6.5	2.0	8BD
6000		BEA	SIN	T11	PA	RCO	TS	H	26.5	280	600	125	25.0	600	70	8000			15.0	7.0	6CK
6004	OBS	DIO	TWN	T9	REC	VAC	‡HY	F	5.0	2000	1K	375		375	120						8EA
6005	S+	BEA	SIN	T5	PA	RCO	GE	H	6.3	450	275		11.0	250	47	4100		52K	8.3	7.5	7BZ
6008		PND	SIN	T2	VA	SCO	RA	F	0.6	13	22	50U				100		4M			
6012		TET	SIN	T12	THY	GAS	RC	H	6.3	2600	1K	5000		650	500						6CO
6021	S*	TRI	TWN	T3	UHF	SCO	SY	H	6.3	300	165	22	1.1	100	6	5400	35	6500	2.4	0.28	8DG
6028	S	PND	SIN	T5	UHF	SCO	WE	H	20.0	50	180	18	1.7	120	9	5600		250K	3.9	2.0	7BD
6029		TRI	SIN	T3X2	UHF	RCO	RA	F	1.2	200	135	14	1.0	90	11	2000	8		1.3	1.8	FL
6045	OBS	TRI	TWN	T5	VA	RCO	SY	H	6.3	350	330	22	1.6	100	9	6400	38		2.0	0.45	7BF
6046	S	BEA	SIN	T9	PA	RCO	GE	H	25.0	300	200		10.0	200	47	8000		28K			7S
6050	S	TRI	SIN	T3X2	UHF	SRC	RA	F	1.2	120	150	11		135	4	1600	15		1.2	1.9	FL
6051		PND	SIN	T3X2	PA	SCO	RA	F	1.2	100	68	10	0.4	45	4	1400		35K	3.65	3.0	FL
6072A	S+	TRI	TWN	T6	AFA	SRC	GE	H	12.6	175	330	4	1.6	250	3	1800	44	25K	1.5	0.43	9A
6073	S+	DIO	SIN	T5	REG	GAS	RC	C			185	30		151	18						5BO
6074	S+	DIO	SIN	T5	REG	GAS	RC	C			133	30		108	18						5BO
6080WA	S+	TRI	TWN	T12	PA	RCO	RC	H	6.3	2500	250	125	13.0	135	125	7000	2	280	6.0	2.2	8BD
6082	S	TRI	TWN	T12	PA	RCO	RC	H	26.5	600	250	125	13.0	135	125	7000	2	280	6.0	2.2	8BD
6087	S+	DIO	TWN	T9	REC	VAC	GE	H	5.0	2000	1K	375		350	125						5L
6088		PND	SIN	T3X2	PA	SCO	RA	F	1.2	20	68	2		45	650U	600		700K			FL
6092	OBS	PND	SIN	T3X2	PA	SRC	RA	F	1.2	50	68	4		45	1	600					FL
6094	S+	BEA	SIN	T6	PA	RCO	BE	H	6.3	600	275	60	12.5	250	45	4200		32K	8.5	5.3	9DH
6098	S+	BEA	SIN	T11	PA	RCO	TS	H	6.3	1200	600	125	21.0	250	77	5400		21K	11.0	7.0	6BQ
6099	S	TRI	TWN	T5	RFA	SRC	RC	H	6.3	450	330	25	1.6	100	9	6000	38		2.1	0.4	7BF
6100	S	TRI	SIN	T5	VA	RCO	GE	H	6.3	150	330	20	3.8	250	10	2200	17		1.8	1.3	6BG
6101	S+	TRI	TWN	T5	RFA	RCO	RC	H	6.3	450	330		0.8	100	8	6000	38	6300	2.0	0.4	7BF
6106	S	DIO	TWN	T9	REC	VAC	BE	H	5.0	1700	2K	415		350	125						5L
6110	S+	DIO	TWN	T3	DET	VAC	SY	H	6.3	150	460	26		15	4				1.5		8DJ
6111	S*	TRI	TWN	T3	VA	SRC	SY	H	6.3	300	165	22	1.1	100	8	5000	20	4000	1.9	0.28	8DG
6112	S*	TRI	TWN	T3	VA	SCO	SY	H	6.3	300	165	3	0.6	150	2	2500	70	28K	1.7	0.2	8DG
6113	OBS	TRI	TWN	T9	VA		‡NU	H	6.3	300				250	2	1600	70	44K	3.0	3.8	8BD
6119		DIO	SIN	T3	REG	GAS	VI	C			2K	100U		2K	51U						FL
6134	S+	PND	SIN	MT8	RFA	SRC	GE	H	6.3	450	300		3.0	300	10	9000		1M	11.0	5.0	8N
6135	S	TRI	SIN	T5	GEN	RCO	GE	H	6.3	175	300	25	3.5	250	10	2200	17	7700	1.5	0.7	6BG

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6136	S+	PND	SIN	T5	RFA	SCO	GE	H	6.3	300	300		3.0	250	11	5200		1M	6.0	5.0	7BK
6137	S+	PND	SIN	MT8	RFA	RCO	GE	H	6.3	300	300		3.0	250	9	2000		800K	5.0	7.0	8N
6140	OBS	DIO	SIN	T6	REG	GAS	WE	C			160	8		100	6						9BY
6141	OBS	TRI	SIN	T6	REG	GAS	WE	C			165	40		100	22						9BZ
6142		DIO	SIN	T2	REG	GAS	BE	C			300	400U		150	238U						FL
6143		DIO	SIN	T3	REG	GAS	VI	C			1K	100U		1K	51U						FL
6145		PND	SIN	T9	VA	SCO	SY	H	6.3	600	300		10.0	150	34	9700		100K	14.0	7.5	8V
6146A	S	BEA	SIN	T12	PA	RCO	SY	H	6.3	1250	750	150	25.0	200	100	7000			13.5	8.5	7CK
6147	OBS	PND	SIN	T3	RFA	SRC	RA	F	2.5	62	180	14	1.5	125	6	1600		175K	2.6	2.15	6CL
6152	+	TRI	SIN	T3X2	UHF	SRC	RA	H	6.3	200	180	22	1.1	100	10	5100	18		2.9	1.28	FL
6159A	S	BEA	SIN	T12	PA	RCO	SY	H	26.5	300	750	150	25.0	200	100	7000			13.5	8.5	7CK
6174		TRI	SIN	T5	REC	GAS	RA	C			3K	30		1K	3						5BU
6184	OBS	DIO	TWN	T3	UHF	HIP	#NU	H	6.3	150	450	50		150	8					2.5	8EH
6186	S	PND	SIN	T5	VHF	SRC	RA	H	6.3	300	330		2.5	250	7	5000		800K	6.5	1.8	7BD
6187	S	PND	SIN	T5	RFA	SCO	RA	H	6.3	175	200	20	1.7	120	5	3200			4.0	3.0	7CM
6188	S+	TRI	TWN	T9	GEN	SCO	TS	H	6.3	300	275		1.1	250	2	1600	70	44K			8BD
6189	S+	TRI	TWN	T6	AFA	RCO	SY	H	12.6	150	330	22	3.0	250	10	2200	17	7700	1.6	0.4	9A
6195		BEA	SIN	T3	PA	SRC	RA	F	1.2	220	125	9				2100		120K			6CL
6197	S	PND	SIN	T6	ONA	SRC	RC	H	6.3	650	300	50	7.5	250	30	11000		90K	11.5	5.0	9BV
6201	S+	TRI	TWN	T6	VHF	SRC	GE	H	12.6	150	300		2.5	250	10	5500	60	11K	2.2	0.5	9A
6202	S+	DIO	TWN	T5	REC	VAC	GE	H	6.3	600	1K	200		325	50						5BS
6203	S+	DIO	TWN	T6	REC	VAC	GE	H	6.3	900	1K	270		325	70						9CD
6205	S	PND	SIN	T3	UHF	SRC	SY	H	6.3	150	165	16	1.1	100	8	5000		260K	4.0	1.9	8DC
6206	S	PND	SIN	T3	UHF	SRC	SY	H	6.3	150	165	16	1.1	100	7	4500		260K	4.0	1.9	8DC
6211A	S+	TRI	TWN	T6	ONA	HIP	GE	H	12.6	150	200	14	1.3	100	7	4700	31	6500	2.9		9A
6213		DIO	SIN	T3	REF	GAS	RA	C			200	2		130	2						FL
6215	OBS	DIO	SIN	T9	REC	VAC	GE	F	1.2	200	18K	8		56	1						3C
6216	+	BEA	SIN	T6	PA	RCO	#HY	H	6.3	1200	300	110	10.0	200	51	8800		39K	12.3	6.7	9CE
6221	+	TRI	SIN	T3	VA	SCO	SO	H	6.3	175	165	22	3.3	100	8	5800	27	4650	2.2	0.9	8HF
6222	+	TRI	SIN	T3	VA	SCO	SO	H	6.3	175	165	3	0.6	100	700U	1700	70	4120	2.0	0.9	8HF
6223	+	PND	SIN	T3	VA	SRC	SO	H	6.3	175	165	16	1.1	100	8	5000		175K	4.2	3.4	8DE
6224	S+	BEA	SIN	T3	PA	RCO	SO	H	6.3	450	165	50	5.0	110	30	4200		10K	6.5	7.5	8DE
6225	+	PND	SIN	T3	VA	SRC	SO	H	6.3	175	165	16	1.1	100	7	4500		175K	4.1	3.4	8DE
6245	S+	PND	SIN	T3	UHF	SRC	RA	H	6.3	200	200	20	1.8	120	8	5000		150K	4.4	3.15	FL
6247WA	S+	TRI	SIN	T3	VA	SRC	RA	H	6.3	200	275	6	1.2	250	4	2600	60		2.0	0.7	8FO
6263		TRI	SIN	PEN	UHF	RCO	RC	H	6.0	280	400	70	13.0	350	40	7000	27				
6264		TRI	SIN	PEN	UHF	SRC	RC	H	6.0	280	400	70	13.0	350	35	6800	40				
6265	S+	PND	SIN	T5	VA	SRC	GE	H	6.3	175	300		2.0	250	7	4600		1M	5.2	4.4	7CM
6281	S	PND	SIN	T3X2	AFA	SCO	RA	F	0.6	20	25	100U		15	50U	100		2M	2.5	3.4	FL
6286		TRI	SIN	T3X2	OSC	SRC	RA	F	1.2	125	100	7	0.4	68	6	2100	12		1.3	2.1	FL
6287	OBS	BEA	SIN	T6	PA	RCO	SY	H	6.3	600	275	85	13.2	250	48	4100		55K	8.0	9.0	9CT
6293	S	BEA	SIN	T12	PA	RCO	RC	H	6.3	1250	4K	3000	10.0	200	100	7300			13.5	8.5	7CK
6299	S	TRI	SIN	CM	UHF	SCO	GE	H	6.3	300	200	12	2.0	175	10	11500	115	9600			

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6308	+	DIO	SIN	T3	REF	GAS	SY	C				4		86	2						8EX
6332	OBS	DIO	SIN	T2	REG	GAS	‡PL	C			80	6		55	500U						FL
6350	S	TRI	TWN	T6	ONA	SRC	SY	H	12.6	300	300	300	3.5	150	11	4600	18	3900	3.6	0.6	9CZ
6354		DIO	SIN	T5	REG	GAS	RE	C				180	1.5	150					19.5	16.5	7DU
6355	OBS	TRI	TWN	T5	IND		‡NU	H	6.3	140	275			250							
6385	S+	TRI	TWN	T6	GEN	SRC	BE	H	6.3	500	300	25	1.5	150	8	5000	35				8CJ
6386	+	TRI	TWN	T6	CA	SRC	GE	H	6.3	350	300	18	1.5	100	10	4000	17	4250	2.0	1.1	8CJ
6395	OBS	PND	SIN	T5	RFA	SCO	RA	F	1.2	50	100	6		90	2	900			3.7	6.3	6AR
6397		BEA	SIN	T3	PA	SRC	RA	F	2.5	62	135	14	1.5	125	7	2000			2.6	2.15	6CL
6414	+	TRI	TWN	T6	ONA	SRC	GE	H	12.6	225	200	160	2.0	180	8	5600	42	7650	4.0	0.47	9A
6417	S	BEA	SIN	T6	VHF	RCO	RC	H	12.6	375	300	50	12.0	300	50	7000			9.5	4.5	9K
6418	S	PND	SIN	T2X1	PA	SCO	RA	F	1.2	10	30	500U		22	240U	300		420K			FL
6419	S	PND	SIN	T2X1	VA	SCO	RA	F	0.6	10	25	100U		15	55U	100		2M			FL
6436	S	DIO	SIN	T3	REC	GAS	RA	C			2K	10		1K	100U						FL
6437	S	DIO	SIN	T3	REG	GAS	RA	C			2K	125U		700	25U						FL
6438	S	DIO	SIN	T3	REG	GAS	RA	C			2K	125U		1K	25U						FL
6463	S	TRI	TWN	T6	ONA	SRC	GE	H	12.6	300	300	300	4.0	250	14	5200	20	3850	3.0	0.6	9CZ
6483	OBS	TET	SIN	T3	TRG	GAS	SY	C			500	10A		450							FL
6485	S	PND	SIN	T5	IFA	SCO	RA	H	6.3	450	300	25	3.2	300	10	9000		500K	10.0	2.0	7BK
6486	OBS	PND	SIN	T6	RFA	SCO	BE	H	6.3	250	180	18	2.0	120	4	3200			4.4	3.7	9DV
6519		PND	SIN	T2X1	PA	SCO	RA	F	1.2	10	30	600U		22	400U	400		300K			FL
6520	S	TRI	TWN	ST16	PA	RCO	CH	H	6.3	2500	300	125	14.0	135	112	7000	2	280	8.4	2.2	8BD
6525	OBS	TET	SIN	T5	THY	GAS	GE	H	6.3	150	500	60		500	20					1.3	7BN
6526		PND	SIN	T3X2	PA	SRC	RA	F	1.2	125	135	12	1.1	110	6	1900		140K			FL
6533WA	S+	TRI	SIN	T3	VA	SCO	RA	H	6.3	200	150	2	0.5	120	900U	1800	54		1.75	0.6	8FY
6540	S+	PND	SIN	T3	VHF	SRC	RA	H	6.3	200	165	16	1.1	120	8	5000		150K	4.8	3.5	FL
6542	+	DIO	SIN	T3	REG	GAS	RA	C			168	25		150	15						FL
6582A	OBS	PND	SIN	T6	RFA	SRC	BE	H	6.3	250	200	20	2.0	120	8	4500		500K	4.5	3.0	9EJ
6611		PND	SIN	T3X2	RFA	SCO	RA	F	1.2	20	50	2	0.1	30	1	1000		400K	4.0	4.0	FL
6612		PND	SIN	T3X2	RFA	SCO	RA	F	1.2	80	50	6	0.2	30	3	3000		180K	5.5	4.2	FL
6626	S+	DIO	SIN	T5	REG	GAS	‡HY	C			165	30		150	18						5BD
6627	S+	DIO	SIN	T5	REG	GAS	‡HY	C			170	30		108	18						5BD
6659	S	DIO	SIN	T3	REC	GAS	RA	C			3K	40		1K	8						FL
6660	S	PND	SIN	T5	RFA	RCO	GE	H	6.3	300	330		3.3	250	11	4400		1M	5.5	5.0	7BK
6661	S	PND	SIN	T5	RFA	SRC	GE	H	6.3	150	330		3.3	250	7	4600		1M	5.4	4.4	7CM
6662	S	PND	SIN	T5	RFA	RCO	GE	H	6.3	150	330		3.3	250	9	3600		1M	4.5	5.5	7CM
6663	S	DIO	TWN	T5	DET	HIP	GE	H	6.3	300	275	60		3	10					2.5	6BT
6664	S	TRI	SIN	T5	GEN	SRC	GE	H	6.3	150	330		2.9	250	10	5500	60	11K	2.2	0.5	5CE

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6669	S	BEA	SIN	T5	PA	RCO	GE	H	6.3	450	250		12.0	250	47	4100		52K	8.0	8.5	7BZ
6676	S	PND	SIN	T5	RFA	SCO	GE	H	6.3	300	330		2.3	125	13	8000		280K	6.5	2.0	7CM
6677	S	PND	SIN	T6	PA	SRC	GE	H	6.3	650	330		8.5	250	31	11000		150K	11.0	5.5	9BV
6678	S	TRI	PND	T6	OSC	SRC	GE	H	6.3	450	330		3.0	150	18	8500	40	5000	2.5	0.4	9AE
6678	S	PND	TRI	T6	MIX	SRC	GE	H	6.3	450	330		3.0	250	10	5200		400K	5.0	2.6	9AE
6679	S	TRI	TWN	T6	RFA	SRC	GE	H	12.6	150	330		2.8	250	10	5500	60	11K	2.2	0.5	9A
6680	S	TRI	TWN	T6	AFA	RCO	GE	H	12.6	150	330		3.0	250	10	2200	17	7700	1.6	0.4	9A
6681	S	TRI	TWN	T6	VA	SCO	GE	H	12.6	150	330		1.1	250	1	1600	100	62K	1.6	0.46	9A
6688A	+	PND	SIN	T6	VHF	SCO	RA	H	6.3	300	210	25	2.7	190	13	16500		90K	7.5	3.0	9EQ
6754	OBS	DIO	TWN	T6	REC	VAC	BE	H	6.3	1000	1K	330		325	90						9ET
6763	+	DIO	SIN	T5	REC	GAS	RA	C			3K	100		1K	12						
6788	+	PND	SIN	T3	AFA	SCO	SY	H	6.3	175	250		0.5	100	800U	1200		1M	2.5	3.2	8DE
6792		BEA	SIN	T12	REG	RCO	‡HY	H	6.3	450	25K	10	25.0	25K	1	200		10M	4.0	4.0	8GL
6814	+	TRI	SIN	T3	ONA	SRC	SY	H	6.3	150	165		2.2	100	10	6000	29	4800	2.2	0.7	8DK
6829	S+	TRI	TWN	T6	ONA	SRC	GE	H	12.6	225	275	160	2.2	150	8	6700	47	7000	4.0	0.5	9A
6830	OBS	DIO	SIN	T5	REG	GAS	‡HY	C			185	30		150	18						FL
6831	OBS	DIO	SIN	T5	REG	GAS	‡HY	C			133	30		108	18						FL
6832	S+	TRI	TWN	T3	VA	SCO	RA	H	6.3	400	165	3	0.1	100	800U	1000	26				8DG
6840	S+	TRI	TWN	T6	ONA	SRC	GE	H	12.6	400	300	500	4.0	250	14	6700	20	3000	4.0	0.7	9CZ
6842	S	PND	SIN	T5	REG	SCO	‡NU	H	6.3	150	4K	100	8.0	2K	4	2500		930K	3.95	1.34	7EQ
6851	OBS	TRI	TWN	T6	VA		BE	H	6.3	250	330	8	1.0	250	1	1200	70	60K	1.6	0.46	9A
6853	OBS	DIO	TWN	T9	REC	VAC	BE	H	5.0	1700	2K	415		350	125						5L
6854	OBS	TRI	TWN	T6	VA	SRC	BE	H	6.3	500	300	20	1.5	150	8	5200	35	6500	2.4	1.1	9FV
6872	+	PND	SIN	T3	VHF	SRC	RA	H	6.3	200	165	16	1.1	120	8	4100		340K	5.0	3.5	FL
6873	OBS	TET	SIN	T5	TRG	GAS	SY	C			1K	500A		500	60A						FL
6877	+	TRI	SIN	T6	PA	RCO	BE	H	6.3	800	200	200	12.0	100	75	6500					9GB
6883A	S	BEA	SIN	T12	PA	RCO	SY	H	12.6	625	750	150	25.0	200	100	7000			13.5	8.5	7CK
6887		DIO	TWN	T5	ONA	HIP	RC	H	6.3	200	360	30		2	10					2.2	6BT
6888	S	PND	SIN	T9	GA	SRC	SY	H	6.3	800	250	600	8.0	150	38				12.0	6.5	8N
6893	S	BEA	SIN	T9	PA	RCO	RC	H	12.6	400	600	75	17.0	250	42	3500			12.5	7.0	7CK
6900	S	TRI	TWN	T6	GEN	SRC	BE	H	12.6	450	330		4.2	120	36	11500	18				9H
6907		TET	TWN	T14	VHF	RCO	AM	H	12.6	650	750	82	12.5	300	50	2500			6.5	2.5	
6913	OBS	TRI	TWN	T6	ONA	SRC	SY	H	12.6	300	300	300	3.5	150	11	4600	18	3900	3.6	0.5	9A
6919		DIO	TWN	T5	GA	HIP	GE	H	6.3	200	300	30		2	10					2.2	6BT
6922	S+	TRI	TWN	T6	CA	SRC	RA	H	6.3	300	250	22	1.6	100	15	12500	33		3.9	1.95	9DE
6931	OBS	DIO	SIN	T9	REG	GAS	‡PL	C			3K	500U		3K	275U						
6932		PND	SIN	T3	GA	SCO	RA	F	1.2	20	68	2		45	560U	500			3.5	3.85	FL
6939		TET	TWN	T6	VHF	SCO	AM	H	12.6	300	275	45	3.0	200	16	7500			6.4	1.6	
6943	S+	PND	SIN	T3	RFA	SRC	SY	H	6.3	175	250	15	1.0	100	8	3600		300K	3.8	3.8	8DC
6944	S+	PND	SIN	T3	RFA	SRC	SY	H	6.3	175	250	15	1.0	100	7	3200		280K	2.9	3.1	8DC

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
6945	+	BEA	SIN	T3	AFA	RCO	SY	H	6.3	350	250		3.0	100	25	3500		20K	5.0	5.5	8DE
6946	S+	TRI	SIN	T3	GEN	SRC	SY	H	6.3	175	250	15	1.5	100	9	3800	16		1.6	0.75	8DK
6947	S+	TRI	TWN	T3	GEN	SRC	SY	H	6.3	350	250	13	0.8	150	6	4000	35		1.6	0.2	8DG
6948	+	TRI	TWN	T3	GEN	SCO	SY	H	6.3	350	250	10	0.5	100	800U	1600	70		1.6	0.2	8DG
6954	S	PND	SIN	T5	GA	SCO	WH	H	6.3	300	300		3.0	150	6	2000		50K	6.0	5.0	7CM
6955	OBS	TRI	TWN	T6	GEN	RCO	‡HY	H	12.6	175	300	20	2.8	250	12	2400	16	7000	1.5	0.5	9A
6968	OBS	PND	SIN	T5	RFA	SRC	‡HY	H	6.3	175	200	20	1.6	120	8	5000			4.0	2.8	7BD
6973	S	BEA	SIN	T6	PA	RCO	RC	H	6.3	450	400		12.0	250	46	4800		73K	8.0	8.5	9EU
6977		TRI	SIN	T2	IND	VAC	AM	F	1.0	30	65	750U		50	585U						FL
6999		PND	SIN	T3X2	PA	SCO	RA	F	2.6	50	145	7	0.8	68	4	1600					FL
7025	S	TRI	TWN	T6	VA	SCO	RC	H	12.6	150	300		1.0	250	1	1600	100	62K	1.6	0.46	9A
7027		BEA	SIN	T12	PA	RCO	RC	H	6.3	900	450	400	25.0	250	72	6000		22K	10.0	7.5	8HY
7036	S	PTG	SIN	T5	GA	SRC	GE	H	6.3	300	250	18	0.9	150	6				5.4	7.6	7CH
7044	S	TRI	TWN	T6	ONA	SRC	SY	H	12.6	450	600	400	4.5	120	36	10000	19	1900	4.8	0.65	9H
7054	S	PND	SIN	T6	PA	SRC	RC	H	13.5	275	330		5.0	250	19	11500		100K	10.2	3.5	9GK
7055	S	DIO	TWN	T5	DET	HIP	RC	H	13.5	155	350	60		117	9						6BT
7056	S	PND	SIN	T5	IFA	SCO	RC	H	13.5	150	330		2.0	200	10	6200		600K	6.5	2.0	7CM
7057	S	TRI	TWN	T6	RFA	SRC	RC	H	13.5	180	275		2.2	150	10	6800	36	5300	2.6	1.2	9AJ
7058	S	TRI	TWN	T6	GEN	SCO	RC	H	13.5	155	330		1.0	250	1	1600	100	61K	1.6	0.46	9AJ
7059	S	TRI	PND	T6	OSC	SRC	RC	H	13.5	195	300		2.5	150	18	8500	40	4700	2.7	0.4	9AE
7059	S	PND	TRI	T6	MIX	SRC	RC	H	13.5	195	300		2.8	250	10	5200		400K	5.0	2.5	9AE
7060	S	TRI	PND	T6	VA	SCO	RC	H	13.5	280	300		2.5	150	9	4900	40	8200	2.4	0.22	9DA
7060	S	PND	TRI	T6	RFA	SRC	RC	H	13.5	280	300		3.0	200	15	7000		150K	7.1	2.5	9DA
7061	S	BEA	SIN	T6	PA	RCO	RC	H	13.5	210	345		9.0	200	38	4200		60K	8.0	8.5	9EU
7077	OBS	TRI	SIN	CM	RFA	SCO	GE	H	6.3	240	250	10	1.0	250	6	9000	80	8900			
7079	S+	TRI	TWN	T3	UHF	SRC	RA	F	6.3	300	165	22	1.1	100	8	5000	20	4000	1.5	1.9	8DG
7083	S+	PND	SIN	T3	VHF		RA	H	6.3	200	165	20	1.1	120	8	5000		340K	5.0	3.75	
7099		DIO	SIN	T2	REG	GAS	CH	C			225	300U		180							FL
7105	S+	TRI	TWN	T12	PA	RCO	TS	H	12.6	1250	250	125	13.0	135	125	7000	2	280	6.0	2.2	8BD
7119		TRI	TWN	T6	ONA	SRC	RE	H	12.6	320	300	60	4.5	120	36	15000	24				9H
7137	OBS	TRI	SIN	T5	GGA	SRC	SY	H	6.3	225	150	20	2.2	150	14	8500	40		6.0	4.5	7BQ
7167	S	TET	SIN	T5	VHF	SCO	WH	H	13.5	90	180	20	2.0	125	10	8000		125K	4.4	2.74	7EW
7189		PND	SIN	T6	PA	RCO	AM	H	6.3	760	400	65	12.0	250	48	11300		40K	10.8	6.5	9CV
7190	S+	TRI	SIN	T6	THY	GAS	TS	H	6.3	1800	1K	20A		1K	1000						7FJ
7191	S+	TRI	SIN	T6	THY	GAS	TS	H	6.3	1800	1K	20A		1K	1000						7FK
7192	S+	TRI	SIN	T6	THY	GAS	TS	H	6.3	1800	1K	20A		1K	1000						7FJ
7199	S	TRI	PND	T6	HF	SRC	RC	H	6.3	450	330		2.4	215	9	2100	17	8100	2.3	0.3	9JT
7199	S	PND	TRI	T6	VA	SCO	RC	H	6.3	450	330		3.0	220	12	7000		400K	5.0	2.0	9JT
7205	OBS	TET	SIN	T5	TRG	GAS	‡HY	C			1K	500A		550	10A						FL
7212	S+	BEA	SIN	T12	PA	RCO	RC	H	6.3	1250	750	135	25.0	600	100	7000			13.5	8.5	8EC
7229	OBS	TET	SIN	T5	TRG	GAS	‡HY	C			1K	500A		550	10A						
7230	OBS	TET	SIN	T5	TRG	GAS	‡HY	C			1K	500A		550	10A						FL
7231	OBS	TET	SIN	T3	TRG	GAS	‡HY	C			700			550	10A						FL

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT		MAXIMUM PLATE CHARACTERISTICS			TYPICAL CHARACTERISTICS					CAPACITANCE PICOFARADS		EIA BASE NO.
									V	MA	V	MA	W	EB V	IB MA	GM UMHO	MU	RP OHMS	IN	OUT	
7232	OBS	TET	SIN	T3	TRG	GAS	‡HY	C			1K			550	10A						FL
7233		TRI	SIN	T6	REG	RCO	GE	H	6.3	1250	330	140	7.5	125	120	17500		230	7.5	2.2	9FR
7234	S	PND	SIN	T6	REG	SCO	NU	H	6.3	150	10K	8	12.0	8K	8	3800		1M			9KD
7235	S	TRI	SIN	T6	REG	RCO	‡NU	H	6.3	300	10K	100	12.0	1K	2	800	550	700K			9KE
7236	S	TRI	TWN	T12	PA	RCO	TS	H	6.3	2400	300	190	15.0	120	100	12500	5		9.0	3.3	8BD
7239		BEA	SIN	T6	REG	SRC	GE	H	6.3	300	2K	85	4.0	300	10	4200		300K	7.0	4.0	9KH
7244A	OBS	TRI	TWN	T5	VA		SY	H	6.3	450	300	12	1.1	100	9	6000	38	6300	3.0	0.34	7BF
7245A	OBS	TRI	SIN	T5	VA	SRC	SY	H	6.3	400	150	20	2.2	150	14	11000	50		9.5	3.0	7BQ
7246		TRI	SIN	T3X2	GEN	SCO	RA	H	1.2	150	150	8	0.7	105	4	2700	22		1.6	1.9	FL
7247	S	TRI	DIS	T6	AFA	SCO	GE	H	12.6	150	330		1.2	250	1	1600	100	62K	1.6	0.37	9A
7247	S	TRI	DIS	T6	CON	RCO	GE	H	12.6	150	330	22	3.0	250	12	2200	17	7700	1.8	0.33	9A
7258	S	TRI	PND	T6	OSC	SRC	SY	H	13.5	210	330		2.8	150	15	4500	21	4700	2.0	0.26	9DA
7258	S	PND	TRI	T6	RFA	SCO	SY	H	13.5	210	330		2.3	125	12	7800		170K	7.0	2.4	9DA
7266	OBS	DIO	SIN	CM	DET	VAC	GE	H	6.3	215	600	10			2						
7296	OBS	TRI	SIN	CM	VHF	SCO	GE	H	6.3	400	330	20	3.3	200	15	15000	80	5300	5.0	0.08	
7308	S+	TRI	TWN	T6	GEN	SRC	AM	H	6.3	335	400	110	1.6	100	15	12500	33				9DE
7311	+	BEA	SIN	CM	PA		BE	H	6.3	800	300	100	21.0	250	86	6000					
7312	+	TRI	SIN	CM	GEN		BE	H	6.3	1250	275	150	20.0	135	125	7100	2				
7313	+	DIO	SIN	CM	REC	VAC	BE	H	6.3	1550	3K	1000									
7314	S+	BEA	SIN	CM	PA		BE	H	6.3	600	330	40	10.0		30	10500			15.0	13.0	
7316	OBS	TRI	TWN	T6	ONA	RCO	AM	H	12.6	150	250	20	2.8	100	12	3100	20	6250	1.8	0.5	9A
7318	OBS	TRI	TWN	T6	ONA	RCO	‡HY	H	12.6	175	330	22	3.0	250	12	2400	16	7000	1.5	0.5	9A
7323		TRI	SIN	T2	THY	GAS	TS	C	1.2	280	80	3		65	2						
7327	S+	TRI	TWN	T3	ONA		SY	H	6.3	300	300		1.0	300	700				1.9	0.32	8DG
7355		BEA	SIN	T9	PA	RCO	GE	H	6.3	800	500	100	18.0	250	74	7600		42K	13.0	6.0	8KN
7357	S	BEA	SIN	T12	PA	RCO	RC	H	26.5	300	750	135	25.0	600	100	7000			13.5	8.5	8EC
7358	S+	BEA	SIN	T12	ONA	RCO	RC	H	6.3	1250	4K	3000	10.0	3K	1500	7000			13.0	8.5	8EC
7360		BEA	SIN	T6	CON	SCO	RC	H	6.3	350	300		1.5	150	8	5400					9KS
7370	S	TRI	TWN	T6	GEN	RCO	TS	H	40.0	130	330	65	4.8	120	36	11500	18	1560	4.0	0.6	9H
7391		TRI	SIN	CM	UHF	SCO	GE	H	6.3	385	200	12	2.0	150	12	11000	62				
7400		TRI	SIN	T4	THY	GAS	TS	C			180	12		150	7						FL
7401		TRI	SIN	T3	THY	GAS	TS	C			180	8		150	7						FL
7408	S	BEA	SIN	T9	PA	RCO	WH	H	6.3	450	350		14.0	250	47	4100		50K	9.0	7.5	7S
7430	S	PND	SIN	PC	UHF	SRC	WH	H	6.3	200	180	18	1.7	180	8	5100		500K			FL
7432		PND	SIN	T3	RFA	SCO	RA	H	6.3	200				100	8	5500			4.0	2.5	
7433		PND	SIN	T3	RFA	SCO	RA	H	6.3	200				100	7	3100			5.0	4.5	
7434		PND	SIN	T3	VA		RA	H	6.3	200				100	7				3.8	4.4	
7435		DIO	SIN	T2	DET	VAC	MU	F	6.3	150	460	60									5DC
7436	S	DIO	SIN	T3	REC	VAC	MU	H	6.3	400	930	300									6CJ
7437		TRI	SIN	T3	VA	SCO	MU	F	6.3	150	100	8				4200	20				
7438		PND	SIN	T3	VA	SCO	MU	F	6.3	175	100	3				2500					
7439	OBS	TET	SIN	T5	TRG	GAS	‡HY	C			1K	500A		550	10A						FL
7440	OBS	TET	SIN	T3	TRG	GAS	‡HY	C			700			550	10A						FL
7441	OBS	TET	SIN	T3	TRG	GAS	‡HY	C			1K			550	10A						FL
7462	OBS	TRI	SIN	CM	UHF	SCO	GE	H	6.3	240	250	10	1.0	150	7	10500	94	9000	1.8	0.3	

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
7486		TRI	SIN	CM	PA	SCO	GE	H	6.3	240	250	25	1.0	150	8	10500	90		1.7	0.1	
7489	S+	TRI	TWN	T6	AFA	SRC	ST	H	12.6	150	330	20	3.0	250	10	2200	17	7700	1.6	0.5	9A
7490	+	TRI	TWN	T6	AFA	SCO	ST	H	12.6	300	300		5.0	250	6	3200	24				9A
7492	S+	TRI	TWN	T6	RFA		ST	H	12.6	150	380	22	2.8	250	10	5500	60		2.5	0.45	9A
7494	S+	TRI	TWN	T6	AFA	SCO	ST	H	12.6	150	330	20	1.1	250	1	1600	95	59K	1.6	0.34	9A
7496	S+	PND	SIN	T5	RFA		ST	H	6.3	300	330		3.3	250	11	4400		1M	5.5	5.0	7BK
7498	+	PND	SIN	T5	RFA		ST	H	6.3	300	300		3.0	250	10	7600			7.6	3.2	7BD
7499	+	PND	SIN	T6	VHF	SCO	ST	H	6.3	750	300	65	12.0	250	40	11000			12.5	5.0	9DA
7500	+	BEA	SIN	T6	PA	SRC	ST	H	6.3	450	350		13.2	250	45	4100		50K	8.3	7.0	9AH
7502	+	PTG	SIN	T5	CON		ST	H	6.3	300	330	16	1.1	250	3	7200		1M	7.5	13.5	7CH
7543	S+	PND	SIN	T5	IFA	SCO	SY	H	6.3	300	300		3.0	250	11	5200		1M	5.5	5.0	7BK
7548		HEX	SIN	T6	SEM	SCO	‡HY	H	6.3	570	400	20	4.0	400	20	22000			10.0	4.0	9LJ
7550	S+	TRI	TWN	T3	ONA	SRC	SY	H	6.3	525	300		2.0	300	1400				4.0	0.28	8DG
7551	S+	BEA	SIN	T6	RFA	RCO	RC	H	13.5	360	300	70	10.0	250	40	5300			10.0	5.5	9LK
7552	+	TRI	SIN	PEN	UHF		RC	H	6.3	225	250	25	2.5	125	14	16000	70	4400	1.7	4.4	
7553	+	TRI	SIN	PEN	UHF		RC	H	6.3	225	250	25	2.5	125	12	13000	80	6150	4.4	0.03	
7558	S	BEA	SIN	T6	RFA	RCO	RC	H	6.3	800	300	70	10.0	250	40	5300			10.0	5.5	9LK
7561		PND	SIN	T9	PA	SCO	TE	H	25.0	300	350	150	13.0	250	51	1000		5000			7S
7576		TRI	SIN	T3	GGA	SCO	RA	H	6.3	450	250	50	4.1	200	16	10700	46		12.0		FL
7586	+	TRI	SIN	MT4	GEN	SCO	RC	H	6.3	140	330	20	1.0	75	10	11500	33	2900	4.0	1.4	12AQ
7587	+	TET	SIN	MT4	GEN		RC	H	6.3	150	330	20	2.2	125	10	10600		200K	6.5	1.4	12AS
7588	S	TRI	SIN	CM	RFA	SCO	GE	H	6.3	400	300	30	5.5	200	25	40000	125	3100	6.5	0.08	
7591		PND	SIN	T9	PA		WH	H	6.3	800	550	85	19.0	300	75	10200		29K	10.0	5.0	8KQ
7595	+	TRI	SIN	T3	TRG	GAS	‡HY	C			350	400									FL
7596	S+	TRI	SIN	T3	TRG	GAS	‡HY	C			1K	100									FL
7597	S+	TRI	SIN	T3	TRG	GAS	‡HY	C			1K	100									FL
7598	+	TRI	SIN	T3	TRG	GAS	‡HY	C			2K	500A		550							FL
7599	S+	TRI	SIN	T5	TRG	GAS	‡HY	C			1K	500A		550							FL
7600	S+	TRI	SIN	T5	TRG	GAS	‡HY	C			6K	500A		500							FL
7602	S+	TRI	SIN	T5	TRG	GAS	‡HY	C			6K	500A		500							FL
7625		TRI	SIN	CM	AFA	SCO	GE	H	6.3	240	275	4	0.8	150	950U	1400	80	57K	1.5	0.03	
7626	S	PND	SIN	T3X2	PA	SCO	RA	F	1.2	125	135	12	1.1	110	7	2000			3.2	2.9	
7631	+	DIO	TWN	T5		VAC	ST	H	6.3	300	360	10		10							5BT
7643	+	TRI	PND	T6	OSC		AM	H	6.3	330	275	18	1.8	100	14	5000	18				9AE
7643	+	PND	TRI	T6	OSC		AM	H	6.3	330	275	18	2.2	170	10	6200		400K			
7644	S	TRI	SIN	CM	UHF		GE	H	6.3	300	200	12	2.0	175	10	15000	110				
7683		PND	SIN	T6	REG	SRC	VI	H	6.3	150	1K	20	15.0	800	12	4200		35K			
7687	S+	TRI	PND	T6	AFA	RCO	SY	H	6.3	500	330		2.4	215	8	2500	18	7200	2.2	0.3	9AE
7687	S+	PND	TRI	T6	AFA	RCO	SY	H	6.3	500	330		3.0	220	10	5800		500K	7.0	2.8	9AE
7688		TRT		T7	GEN	RCO	‡HY	H	6.3	450	330	20	3.0	250	10	2200	17	7700			12BA
7689		TRT		T7	GEN		‡HY	H	6.3	450	330		1.1	250	1	1600	100	62K			12BA
7690		TRT		T7	GEN	SRC	‡HY	H	6.3	450	330		2.8	250	10	5500	60	11K			12BA
7693	+	PND	SIN	T5	RFA	SRC	AM	H	6.3	150	330	15	2.6	250	7	4600		1M			7EN

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
7694	S+	PND	SIN	T5			AM	H	6.3	150	330	17	3.3	250	9	3800		1M			7EN
7695	S	BEA	SIN	T9	PA		SY	H	50.0	150	150		16.0	130	108	11000		7000	14.0	9.0	9PX
7701		BEA	SIN	T6	PA	SRC	GE	H	13.6	160	350	45	9.0	250	28	3600		31K	7.0	3.6	9MS
7716		TRI	PND	T6	OSC	SCO	GE	H	13.6	350	330		1.0	125	2	2900	102	35K	2.4	2.4	9DX
7716		PND	TRI	T6	VA	SRC	GE	H	13.6	350	330		5.0	200	24	10000		70K	9.5	4.4	9DX
7717	S	TET	SIN	T5	VHF	SCO	GE	H	6.3	200	180	20	2.0	125	10	8000		125K	4.5	3.0	7EW
7719		TRI	SIN	T6	ONA	HIP	TS	H	12.6	450	330	46	6.0	300	4	3500	25	7100	6.5	1.0	9MX
7720		TRI	SIN	CM	OSC		GE	H	6.3	240	250	25	1.0	150	8	10500	90		1.8	0.32	
7721	S	PND	SIN	T6	VA	SCO	‡HY	H	6.3	320	400	29	4.0	190	22	35000		120K	10.0	2.0	9EQ
7722	S	PND	SIN	T6	VA	SCO	‡HY	H	6.3	320	400	30	4.0	190	20	26000		100K	9.3	2.1	9EQ
7724	S	DWD	TRI	T6	DET	VAC	GE	H	14.0	150					18				2.4		9KR
7724	S	TRI	DWD	T6	VA	SCO	GE	H	14.0	150	330		1.1	250	700U	1000	72	72K	1.6	0.24	9KR
7727		PND	SIN	T3	EL		RE	F	1.2	8	12										
7728	S+	TRI	TWN	T6	RFA	SRC	‡HY	H	12.6	150	330		2.8	250	10	5500	60	11K	2.2	0.5	9A
7730	S+	TRI	TWN	T6	AFA	RCO	‡HY	H	12.6	150	330	20	3.0	250	10	2200	17	7700	1.6	0.40	9A
7731	S+	TRI	PND	T6	OSC		‡HY	H	6.3	450	330		3.0	150	18	8500	40	5000	2.5	0.4	9AE
7731	S+	PND	TRI	T6	MIX	SRC	‡HY	H	6.3	450	330		3.0	250	10	5200		400K	5.0	2.6	9AE
7732	S+	PND	SIN	T5	IFA	SRC	‡HY	H	6.3	300	330		2.3	250	8	6000		600K	6.5	2.0	7CM
7733	S+	PND	SIN	T6	VHF	RCO	‡HY	H	12.6	300	330		6.5	250	24	12000		90K	10.7	4.0	9BF
7734	S	TRI	PND	T6	REG	HIP	WH	H	6.3	900	275	175	7.0	150	35	5000	5	1080	5.5	1.3	9LC
7734	S	PND	TRI	T6	VA		WH	H	6.3	900	330		1.0	150	6	3200		340K	8.0	2.4	9LC
7738		TRI	SIN	T5	UHF	SRC	SY	H	6.3	225	330	40	5.0	200	12	9500	80		3.0	1.8	7DK
7751	+	PND	SIN	T8	PA	RCO	‡HY	H	6.3	1200	550	200	10.0	100	100	14000		5000	17.5	1.3	
7754	S	BEA	SIN	T9	PA		SY	H	6.3	1200	150		16.0	130	108	11000		7000	14.0	9.0	9PX
7757	+	BEA	SIN	T6	PA	RCO	BE	H	6.3	600	3K	75	14.0	250	45	4100					9NE
7759	+	TRI	TWN	T3	GEN	SCO	SY	H	26.5	90	165	22	1.1	100	6	5400	35		2.0	0.33	8DG
7760	S+	TRI	TWN	T3	GEN	SCO	SY	H	26.5	90	55	22		26	3	5000	20		2.2	0.36	8DG
7761	+	PND	SIN	T3	VHF	SRC	SY	H	26.5	110	165	40	4.0	150	20	9000		50K	8.0	4.6	8DE
7762	S+	BEA	SIN	T3	AFA	RCO	SY	H	26.5	110	165	50	4.0	110	30	4200		15K	6.5	4.5	8DE
7763	+	BEA	SIN	T6	IFA		GE	H	6.3	300	330	12	0.8	100	4	1000			2.2		9NF
7768	S	TRI	SIN	CM	RFA	SCO	GE	H	6.3	400	330	3	5.5	200	24	50000	225	4500			
7784	S	TRI	SIN	CM	UHF	SCO	GE	H	6.3	300	200	12	2.0	180	10	15000	110				
7788	+	PND	SIN	T6	VHF	SCO	AM	H	6.3	340	250	50	5.0	135	35	50000			3.5	16.0	
7802		TRI	TWN	T12	PA	HIP	TS	H	6.3	2500	250	160	13.0	100	115	20000	8				
7803	S	TRI	TWN	T6	VA	SCO	SY	H	6.3	365	200	30	3.5	90	15	12500	33		3.3	1.8	9AJ
7841		DIO	SIN	CM	DET	VAC	GE	H	6.3	215	350	5							1.1	1.2	
7851		TET	SIN	T5	EL	SCO	TS	H	2.5	200	12			11	16U	4000		2M	2.6	1.8	7GE
7859		DIO	SIN	T4	REG	GAS	VI	C			65	1		55	700U						

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7861	S	TRI	TWN	T6	GEN	SRC	GE	H	12.6	175	330	18	1.4	150	8	5500	35	6400	2.2	1.0	8CJ
7867		BEA	SIN	T12	PA	RCO	TS	H	6.3	2500	700	220	24.0	250	81	10000		12K	22.0	8.5	5BT
7868		PND	SIN	T9	PA	HIP	RC	H	6.3	800	550	90	19.0	300	75	10200		29K	11.0	4.4	9NZ
7887	S+	TRI	TWN	T3	GEN	SRC	SY	H	26.5	90	165	22	1.1	100	8	5000	20		1.9	3.0	8DG
7888	+	TRI	SIN	T3	OSC	SRC	SY	H	26.5	45	330	22	3.3	150	13	6500	27		2.2	0.7	8DK
7889	S+	TRI	TWN	T3	AFA	SCO	SY	H	26.5	90	330	3	0.6	150	2	2500	70		1.7	2.6	8DG
7892		TRI	TWN	T6	VA	HIP	TS	H	6.3	900	330		4.2	175	5000				4.0	0.6	9H
7894		DIO	SIN	T4	REG	GAS	VI	C			3K	2		85							FL
7895	+	TRI	SIN	MT4	GEN	SCO	RC	H	6.3	135	330	15	1.0	110	7	9400	64	6800			
7898	+	TRI	TWN	T6	GEN	SRC	RC	H	13.5	150	330		2.8	250	10	5500	60	11K	2.5		9EP
7905		BEA	SIN	T6	PA	SCO	RC	H	6.3	650	300	60	10.0	200	36	6700			8.5	5.5	9PB
7962	+	TRI	TWN	T3	UHF	SCO	SY	H	6.3	235	100	15	0.8	60	9	9500	20		3.0		8DG
7963	+	TRI	TWN	T3	UHF	SCO	SY	H	6.3	350	165	22	1.1	100	8	13000	40		3.6		8DG
7973	S	BEA	SIN	T6	PA	SRC	TA	H	5.0	230	150		5.0	150	28	4300					9L
7980	.	DIO	SIN	T5	REG	GAS	MU	C			130	10		84	6						
7983		TET	TWN	T6	GEN	RCO	AM	H	3.2	1650	300	65	7.0	250	45	3000			6.8	3.2	9PS
7994		TRI	SIN	T3	GGA	SCO	RA	H	6.3	250	200	30	2.0	100	13	18000	41	2K	9.5	2.9	FL
7995		PND	SIN	T3	RFA	SCO	RA	H	6.3	250	200	30	1.6	150	8	13000		85K	8.5	2.75	FL
7996	+	DIO	SIN	CM	REC	GAS	RA	C			3K	300		1K	12						
8032	S	BEA	SIN	T12	PA	RCO	RC	H	13.5	625	400	90	25.0	400	50	7000			13.5	8.5	7CK
8042		BEA	SIN	T13	OSC	RCO	AM	H	1.6	3200	650	160	25.0	600	150	7000			13.5	8.5	8LJ
8064	+	PND	SIN	T3			SY	H	26.5	45	165	16	1.1	100	7	4500		275K	4.0	1.9	8DE
8056	+	TRI	SIN	MT4	GEN	HIP	RC	H	6.3	135	50	15	0.4	24	8	7000	12	1650			12AQ
8058	+	TRI	SIN	MT4	GEN	SCO	RC	H	6.3	135	150		1.5	110	10	12400	70	5600	1.3		12CT
8070		TRI	SIN	T3	UHF	SRC	SY	H	6.3	125	165	20	1.0	110	8	11000	58		3.3	2.1	8LD
8071	+	TRI	SIN	T3	UHF	SCO	SY	H	6.3	125	330	20	2.0	150	12	12000	65				8LE
8077	S	PND	SIN	T6	PA	SRC	RC	H	13.5	275	330		5.0	250	19	11500		100K	10.2	3.5	9GK
8089		DIO	SIN	T4	REG	GAS	VI	C			2K	800U		65							FL
8090		DIO	SIN	T6	REG	GAS	VI	C			4K	2		100							
8091		DIO	SIN	T6	REG	GAS	VI	C			4K	1		50							
8096	+	TRI	SIN	T3	GEN	SCO	RA	H	6.3	200	150	2	0.5	120	900U	1800	54		1.75	0.60	8FY
8102		TRI	PND	T6	GEN	SCO	GE	H	13.5	230	330		2.5	125	14	8500	46	5400	3.6	2.0	9PJ
8102		PND	TRI	T6	GEN	SRC	GE	H	13.5	230	330	20	2.5	125	12	7500		200K	5.5	3.4	9PJ
8103	+	TRI	TWN	T3	GEN	SCO	SY	H	26.5	85	55	22		26	6	11000	20				8DG
8106		BEA	SIN	T6	AFD	SRC	GE	H	13.5	250	330	40	6.0	300	16	9000			10.0	2.8	9PL
8108		TRI	SIN	LIT	GEN		AM	H	6.3	735	500	70	10.0	180	60	21000	43				
8136	S	PND	SIN	T5	IFA	SCO	GE	H	6.3	300	330		2.2	125	11	9800			7.0	2.2	7CM
8156		BEA	SIN	T9	PA	RCO	GE	H	13.5	300	600	100	15.0	200	75	7600			11.0	5.0	12EU
8185	S+	TRI	SIN	T3	GGA	SRC	SY	H	6.3	300	250	50	4.2	200	17	19000	42		8.5	5.0	8KM
8186	S+	TRI	SIN	T3	GGA	SRC	SY	H	26.5	75	250	50	4.2	200	17	19000	42		10.0	5.0	8KM

TUBE TYPE NUMBER	CODE	KIND	TYPE	BULB	USE	TUBE CHAR	REG	K TYPE	TYPICAL FILAMENT V	TYPICAL FILAMENT MA	MAXIMUM PLATE CHARACTERISTICS V	MAXIMUM PLATE CHARACTERISTICS MA	MAXIMUM PLATE CHARACTERISTICS W	TYPICAL CHARACTERISTICS EB V	TYPICAL CHARACTERISTICS IB MA	TYPICAL CHARACTERISTICS GM UMHO	TYPICAL CHARACTERISTICS MU	TYPICAL CHARACTERISTICS RP OHMS	CAPACITANCE PICOFARADS IN	CAPACITANCE PICOFARADS OUT	EIA BASE NO.
8206		DIO	SIN	T4	REG	GAS	VI	C			12K	300U		500							
8210	+	PND	SIN	T3	VHF	SCO	SY	H	6.3	125	165	16	1.1	100	8	8500		260K	4.8	3.8	8LS
8211	+	PND	SIN	T3	VHF	SRC	SY	H	6.3	360	330	40	4.0	150	17	15500		65K	12.0	8.0	8DL
8223	+	TRI	TWN	T6	CA	SRC	SH	H	6.3	475	250	40	3.0	100	30	18000	25	1400	4.7		9AJ
8228	+	DIO	SIN	T2	REF		AM	C			115	4		82	4						
8255		TRI	SIN	T6	GGA	UHF	TE	H	6.3	160	550	12	1.8	150	12	13500	65		3.8	1.7	9NY
8257		DIO	SIN	T4	REG	GAS	VI	C			1K	750U		30	600U						FL
8414	+	PND	SIN	T3	VHF	SCO	SY	H	26.5	45	55	10		26	4	5000		50K			8DC
8334	+	TRI	SIN	T5	UHF	SRC	SY	H	6.3	225	330	33	4.4	200	18	10700	55		2.9	0.25	7DK
9001		PND	SIN	T5	DET	SCO		H	6.3	150	250		0.5	250	2	1400		1M	3.6	3.0	7BD
9002		TRI	SIN	T5	VHF	RCO		H	6.3	150	250		1.6	250	6	2200	25	11K	1.2	1.1	7BS
9003	S	PND	SIN	T5	RFA	RCO		H	6.3	150	250		1.7	250	7	1800		700K	3.4	3.0	7BD
9004		DIO	SIN	ACO	UHF	VAC		H	6.3	150	117	5									4BJ
9005		DIO	SIN	ACO	UHF	VAC		H	3.6	165	117	1									5BG
9006		DIO	SIN	T5	UHF	VAC	GE	H	6.3	150	750	15		270	5						6BH