

Compliments of

EASTERN RADIO CORP.

312 Clifton Avenue • Clifton, New Jersey
AUTHORIZED STOCKING INDUSTRIAL DISTRIBUTOR
NEW YORK CH 4-2268

NEW JERSEY GR 1-6600
TELEX TWX 201-471-2162
FAX FBG CLIF 081-7321

ENTERPRISE NUMBERS IN MOST PRINCIPAL CITIES

Consult the White Pages of Your Telephone Directory
For Your Enterprise or WX Number



REFERENCE BOOK 1963

AUTHORIZED STOCKING DISTRIBUTOR
EASTERN RADIO CORP.
312 Clifton Avenue
Clifton, New Jersey

N. J. Telephone
GRegory 1-6600

N. Y. Telephone
CHickering 4-2268

1963



REFERENCE BOOK

RECEIVING TUBES
INDUSTRIAL-TYPE TUBES
PICTURE TUBES
CATHODE-RAY AND POWER TUBES
PHOTOTUBES
ELECTRONIC INSTRUMENTS
SPECIAL COMMUNICATIONS PRODUCTS
BATTERIES
SEMICONDUCTOR DEVICES
MAGNETIC TAPE
MINIATURE LAMPS

A DAILY PRODUCT REMINDER FOR

INDUSTRY
COMMUNICATIONS
RADIO—TELEVISION
RESEARCH

PRICE

\$1.00

Published by

**RADIO CORPORATION OF AMERICA
ELECTRON TUBE DIVISION**

415 South 5th Street

Harrison, N. J. Tel. HUmboldt 5-3900

©Copyright 1962 Radio Corporation of America
Trade Mark(s) Registered—Marca(s) Registrada(s)
Printed in the United States of America

RCA DISTRICT SALES OFFICES
DISTRIBUTOR PRODUCTS

ATLANTA 3, GA.

1121 Rhodes-Haverly Bldg.
134 Peachtree St., N.W.
Tel. 524-7703

NEEDHAM HEIGHTS 94, MASS.

80 A Street
Tel. Hillcrest 4-8490

CHICAGO 54, ILL.

Merchandise Mart Plaza, Room 2000
Tel. 467-5900

CLEVELAND 15, OHIO

1600 Keith Bldg., 1621 Euclid Avenue
Tel. CHerry 1-3450

DALLAS 7, TEXAS

7901 Carpenter Freeway
Tel. MElrose 1-3050

LOS ANGELES 22, CALIF.

6801 East Washington Boulevard
Tel. RAymond 3-8361

KANSAS CITY 14, MO.

7711 State Line, Suite 112
Tel. EMerson 1-6462

NEW YORK 20, N. Y.

36 W. 49th Street
Tel. MUrray Hill 9-7200

WASHINGTON 6, D. C.

1725 K Street, N.W.
Tel. FEderal 7-8500

TABLE OF CONTENTS

MAGAZINES.....	4
TECHNICAL PUBLICATIONS.....	6
RECEIVING TUBES	
Directory of Types.....	15
Bose and Envelope Connection Diagrams.....	60
Interchangeability Directory of Foreign vs. U.S.A. Types.....	75
PICTURE TUBES	
Introductory Page.....	99
Characteristics Charts:	
Silveramo® Types for Black-and-White TV.....	100
Colorama Types for Color TV.....	107
Bosung Diagrams.....	109
Replacement Directories:	
Black-and-White Picture-Tube Types to be Replaced vs. Silveramo Types.....	111
Color Picture-Tube Types to be Replaced vs. Colorama Types.....	117
Cross References:	
Silveramo Types vs. Black-and-White Pic- ture-Tube Types to be Replaced.....	118
Colorama Types vs. Color Picture-Tube Types to be Replaced.....	122
NUVISTOR TUBES.....	123
NOVAR RECEIVING TUBES.....	128
QUICK SELECTION GUIDE TO TUBES FOR COM- MUNICATIONS, INDUSTRY, AND MILITARY USES	
Vacuum Power Tubes.....	130
Glow-Discharge (Cold-Cathode) Tubes.....	135
Rectifiers.....	135
Thyratrons.....	136
Ignitrons.....	137
Phototubes.....	138
Multiplier Phototubes.....	139
Photoconductive Cells.....	140
Photojunction Cells.....	140

TABLE OF CONTENTS—(Continued)

Electrostatic Deflection Types	140
Cathode-Ray Tubes	142
Magnetic Deflection Types	142
Camera Tubes	143
Monoscopes	144
Image-Converter Tubes	144
Display Storage Tubes	144
Graphochon	145
Radechon	145
Magnetrons	145
Traveling-Wave Tubes	145
Vacuum-Gauge Tubes	146
Pencil Tubes	146
Tubes for Computer Applications	147
Mechano-Electronic Transducer	147
Klystron	147
"Special Red" Tubes	148
Premium Tubes	148
Tubes for Special Applications	150
Tubes for Mobile Communications Equipment	153
CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS	
By Tube Types	155
By Mil Specs	165
INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES	
Direct and Similar Replacement Types	169
SEMICONDUCTOR DEVICES	
Germanium Transistor Classification Chart	205
Silicon Transistor Classification Chart	210
Silicon Rectifier Data Chart	213
Military-Specification Types (Transistors and Rectifiers)	217
Semiconductor Diode Classification Chart	217
BATTERIES	
Quick Selection Guide	222
Cross Reference of Comparative and Interchangeable Numbers	226

TABLE OF CONTENTS—(Continued)

MINIATURE LAMPS	238
SOUND TAPE AND AUDIO DEVICES	239
SPECIAL COMMUNICATIONS PRODUCTS	
Two-Way Radios	243
Citizens Band Antennas	245
Intercoms	247
Sound Amplifiers and Systems	250
High-Fidelity, Multi-Purpose Loudspeakers ..	255
General Purpose Microphones	256
ELECTRONIC INSTRUMENTS	
Test and Measuring Equipment:	
Voltmeter-Type Instruments	258
Oscilloscopes	264
Signal Generators	266
Tube Testers	274
Voltage and Power Supplies	275
Accessories	276
Probes for Voltmeter-Type Instruments ..	276
Probes for Oscilloscopes	278
Instruction Booklets on RCA Test Instruments ..	279
DIARY	280
NOTE PAGES	333
ADDRESSES AND PHONE NUMBERS	337

RCA MAGAZINES



• **RCA RADIO & TELEVISION SERVICE NEWS**—This publication is designed to keep the dealer and service technician informed on the latest television and radio sales and servicing techniques. Read it regularly for interesting articles as well as for helpful hints on new merchandising procedures, new products, and new promotions. Published quarterly. Available free of charge from your RCA Electron Tube Distributor.



• **RCA TUBE TIPS**—This popular newsletter keeps the broadcast engineer up to date on the latest developments in broadcast tubes. It is a timely publication containing valuable application information, technical tips, and new product data. Published quarterly. Sent free of charge to broadcast station personnel by the RCA Electron Tube Division.

RCA MAGAZINES



• **RCA HAM TIPS**—Contains a wealth of informative articles on all phases of "ham" activity, including exclusive construction articles written by RCA personnel actively engaged in amateur radio work. Presents readers with up-to-the-minute information on new circuits, TVI, civil defense equipment, and novice gear. Published quarterly. Free from your RCA Electron Tube Distributor. Two-year subscriptions are also available direct from RCA at a minimum charge.



• **RCA ELECTRONICS PIONEER**—A vital magazine exclusively prepared for readership by design engineers, purchasing agents, and executives of electronic equipment manufacturing firms and research and development companies. Keeps them alerted to RCA's new product achievements. It accentuates developments and applications of RCA industrial tubes, receiving tubes, picture tubes, magnetic reed switches, thermoelectric modules, superconductors, batteries, and electronic instruments. Published quarterly. Available without charge from your RCA Electron Tube Distributor.

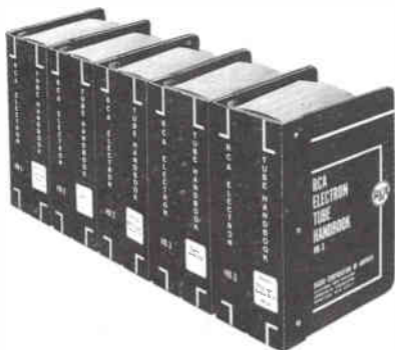
RCA TECHNICAL PUBLICATIONS

The technical publications listed below are packed with up-to-the-minute information logically arranged for ready reference and application to your needs.

Ask your RCA Distributor for these publications, or write directly to Commercial Engineering, Radio Corporation of America, Harrison, New Jersey. When ordering from Commercial Engineering, make remittance payable in U.S. dollars to Radio Corporation of America.

NOTE: All prices are optional list prices and apply in the U.S.A. They are subject to change without notice.

ELECTRON TUBES



- **RCA ELECTRON TUBE HANDBOOK**—HB-3 (7 $\frac{3}{8}$ " x 5 $\frac{5}{8}$ "). Five deluxe 2 $\frac{1}{4}$ -inch-capacity black binders imprinted in gold. The "bible" of the industry—contains over 5000 pages of loose-leaf data and curves on RCA receiving tubes, transmitting tubes, cathode-ray tubes, picture tubes, photocells, phototubes, camera tubes, ignitrons, vacuum and gas rectifiers, magnetrons, traveling-wave tubes, premium tubes, pencil tubes, and other miscellaneous types for special applications. Available on subscription basis. Price \$20.00 including service for first year. Also available with RCA SEMICONDUCTOR PRODUCTS HANDBOOK HB-10 at special combination price of \$25.00. Write to Commercial Engineering, RCA, Harrison, N. J., for Descriptive Flyer and Order Form.

Technical Publications (Cont'd)

• **RADIOTRON® DESIGNER'S HANDBOOK**—4th Edition (8¼" x 5½")—1500 pages. Comprehensive reference thoroughly covering the design of radio and audio circuits and equipment. Written for the design engineer, student, and experimenter. Contains 1000 illustrations, 2500 references, and cross-referenced index of 7000 entries. Edited by F. Langford-Smith of Amalgamated Wireless Valve Company Pty. Ltd. in Australia. Price \$7.00.

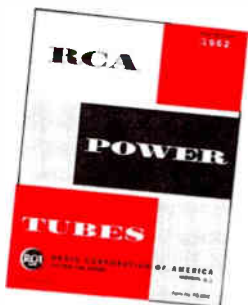
• **RCA RECEIVING TUBE MANUAL**—RC-21 (8¼" x 5¾")—480 pages. Revised, expanded, and brought up to date. Contains technical data on 903 receiving tubes and 106 picture tubes for black-and-white and color television. Features tube theory written for the layman, application data for radio and television circuits, Resistance-Coupled Amplifier Section, new receiving-tube and picture-tube charts, and several circuits for high-fidelity audio amplifiers. Features lie-flat binding. Price \$1.00.



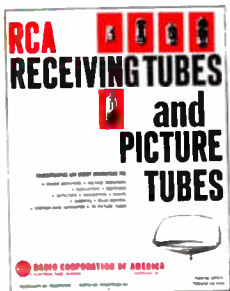
• **RCA TRANSMITTING TUBES**—TT-5 (8¼" x 5¾")—320 pages. Written for the engineer, technician, radio amateur, and student, this new larger edition has been comprehensively revised and updated. Gives data on over 180 tube types, including cermolox, ceramic-and-metal, pencil, and pulse-rated types. Provides basic tube information on generic types, parts and materials, installation and application, and interpretation of data. Includes maximum ratings, typical operating values, and characteristics curves for power tubes having plate-input ratings up to 4 kw and for associated rectifier tubes. Contains material on power-tube circuit-design considerations and rectifier circuits and filters, as well as new application tables for quick, easy selection of tubes, and circuit diagrams for transmitting and industrial applications. Also gives new design information on linear rf amplifiers for single sideband applications. Features lie-flat binding. Price \$1.00.

Technical Publications (Cont'd)

• **RCA POWER TUBES**—PG-101E (10 7/8" x 8 3/8")—46 pages. Completely revised and brought up to date. Technical information on 200 RCA vacuum power tubes, rectifier tubes, thyratrons, and ignitrons. Includes terminal connections. Price 75 cents.



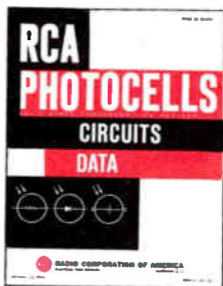
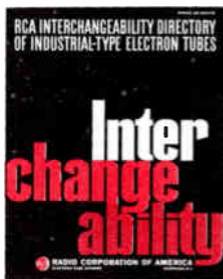
• **RCA RECEIVING-TYPE TUBES FOR INDUSTRY AND COMMUNICATIONS**—RIT-104B (10 7/8" x 8 3/8")—32 pages. Technical data on over 190 RCA "special red" tubes, premium tubes, nuvistors, computer tubes, pencil tubes, glow-discharge tubes, small thyratrons, low-microphonic amplifier tubes, vacuum-gauge tubes, mobile communications tubes, and other special types. Includes socket-connection diagrams. Price 30 cents.



• **RCA RECEIVING TUBES AND PICTURE TUBES**—1275K (10 7/8" x 8 3/8")—64 pages. New, enlarged, and up-to-date booklet contains classification chart, application guide, characteristics chart, and base and envelope connection diagrams on more than 1050 entertainment receiving tubes and picture tubes. Price 50 cents.

Technical Publications (Cont'd)

- **RCA PHOTSENSITIVE DEVICES AND CATHODE-RAY TUBES**—CRPD-105B (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—36 pages. Technical information on 151 RCA tubes including single-unit, twin-unit, and multiplier phototubes; photocells; camera and image-converter tubes; flying-spot tubes; monitor, projection, transcriber, and view-finder kinescopes; oscillograph and storage tubes. Price 50 cents.
- **RCA MAGNETRONS AND TRAVELING-WAVE TUBES**—MT-301A (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—48 pages. Operating theory for magnetrons and traveling-wave tubes, application considerations, and techniques for measurement of electrical parameters. Price 60 cents.
- **RCA INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES**—ID-1020C (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—16 pages. Lists more than 1450 basic type designations for 18 classes of industrial tube types; shows the RCA Direct Replacement Type or the RCA Similar Type, when available. Price 35 cents.

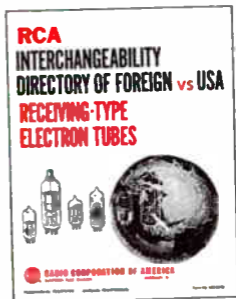
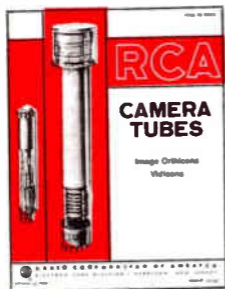


- **RCA PHOTOCELLS**—1CE-261 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—20 pages. Contains a selection of photocell-circuit diagrams; technical data and characteristic curves of RCA photoconductive, photojunction, and photovoltaic cells; interchangeability information; and supplementary information on tungsten and fluorescent light sources. Booklet is designed to introduce the engineer, the hobbyist, and the experimenter to application possibilities of RCA photocells. Price 25 cents.
- **RCA PENCIL TUBES**—1CE-219 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—28 pages. Contains operating theory for pencil tubes, electrical and mechanical circuit-design considerations, environmental considerations, application considerations, and data for commercial types. Price 50 cents.

Technical Publications (Cont'd)

• **RCA PHOSPHORS**—TPM-1508A (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—20 pages. Contains defining data for over 25 different industrial phosphors, spectral-energy emission curves, persistence curves, and quick-reference classification charts. Price 75 cents.

• **RCA CAMERA TUBES**—1CE-262 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—24 pages. Technical information on RCA image orthicons and vidicons aimed at helping the camera tube user select the most appropriate tube for his application. Includes concise data on all commercially available RCA camera tubes as well as typical curves and information defining the most important characteristics of camera tubes. Also contains cutaway views of a vidicon and image orthicon illustrating construction features. Price 75 cents.



• **RCA INTERCHANGEABILITY DIRECTORY OF FOREIGN vs. U.S.A. RECEIVING-TYPE ELECTRON TUBES**—1CE-197B (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—8 pages. Covers approximately 800 foreign tube types used principally in AM and FM radios, TV receivers, and audio amplifiers. Indicates U.S.A. direct replacement type or similar type if available. Price 10 cents.

• **RCA TRIPLE PINDEX**—PINDEX-109 (8 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ ")—240 pages. Gives base diagrams for more than 2000 JEDEC-registered receiving types including picture tubes. Base diagrams of over 1500 receiving types are presented in triplicate to provide the user with any three base diagrams at any one time. More than 200 small industrial-receiving types and more than 200 foreign receiving types are cross-referenced to the receiving-tube section for base diagrams. Price \$1.75.

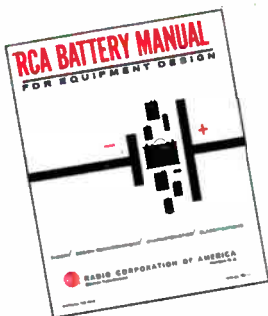
Technical Publications (Cont'd)

- **RCA HIGH-FIDELITY AMPLIFIER CIRCUITS BOOKLET**—HF-110 (8 $\frac{3}{8}$ " x 10 $\frac{7}{8}$ ")—28 pages. Includes circuit diagrams with parts lists, design considerations and performance requirements, and characteristics chart of RCA high-fidelity tube types. For hobbyists, technicians, and others interested in construction of their own high-fidelity amplifier systems. Price 35 cents.
- **RCA COLOR TELEVISION PICT-O-GUIDE**—(9 $\frac{3}{8}$ " x 5 $\frac{3}{8}$ ")—200 pages. Developed and written by RCA's nationally recognized authority on practical TV servicing: John R. Meagher. Prepared to aid TV technicians in troubleshooting and adjusting color TV receivers. Color photographs are included to assist in recognizing and understanding visible symptoms of troubles and misadjustments. Price \$4.50.
- **TV SERVICING**—TVS-1030 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—48 pages. Contains articles on TV troubleshooting, TV tuner alignment, and TV circuit analysis by RCA's expert in the field of TV servicing and test equipment: John R. Meagher. Price 35 cents.
- **TV SERVICING, SUPPLEMENT I**—TVS-1031 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—12-page booklet by John R. Meagher on solving troubleshooting problems in those hard-to-service TV receivers known to service technicians as "tough" sets or "dogs." Price 15 cents.
- **TECHNICAL BULLETINS**—Authorized information on RCA transmitting tubes and other tubes for communications and industry. Be sure to mention tube-type bulletin desired. Single copy on any type free on request.

Information furnished by RCA is believed to be accurate and reliable. However, no responsibility is assumed by RCA for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of RCA.

Technical Publications (Cont'd)

BATTERIES



- **RCA BATTERY MANUAL**—BDG-111 (10 $\frac{3}{8}$ " x 8 $\frac{3}{8}$ ")—64 pages. Contains information for the designer, application engineer, experimenter, and student on dry cells and batteries [carbon zinc (Leclanché), mercury, and alkaline types]. Included in this manual are battery theory and applications, detailed electrical and mechanical characteristics, a classification chart, dimensional outlines and terminal connections on each battery type. Price 50 cents.
- **RCA BATTERIES**—BAT-134E (10 $\frac{3}{8}$ " x 8 $\frac{3}{8}$ ")—16 pages. Technical data on 106 Leclanché, alkaline, and mercury-type dry batteries, for radios, industrial applications, flashlights, lanterns, electronic toys, and for photoflash service. Price 35 cents.
- **RCA BATTERIES FOR TRANSISTOR APPLICATIONS**—TBA-107A (10 $\frac{3}{8}$ " x 8 $\frac{3}{8}$ ")—12 pages. Technical data and curves on 25 RCA Leclanché-and-mercury-type dry batteries specifically designed for use in applications utilizing transistors. Price 25 cents.

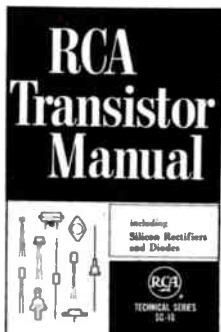
TEST AND MEASURING EQUIPMENT

- **INSTRUCTION BOOKLETS**—Illustrated instruction booklets, containing specifications, operating and maintenance data, application information, schematic diagrams, and replacement parts lists, are available for all RCA test instruments. See page 278. Booklets for the popular instruments listed are available at the prices indicated. Prices for booklets on other instruments are available on request.

Technical Publications (Cont'd)

SEMICONDUCTOR PRODUCTS

• **RCA SEMICONDUCTOR PRODUCTS HANDBOOK** — HB-10. Two binders, each $7\frac{3}{8}$ " L x $5\frac{5}{8}$ " W x $2\frac{7}{8}$ " D, having gold-imprinted red covers. Contains over 1000 pages of loose-leaf data and curves on RCA semiconductor devices such as silicon transistors, germanium transistors, silicon rectifiers, and semiconductor diodes. Available on subscription basis. Price \$10.00 including service for first year. Also available with RCA ELECTRON TUBE HANDBOOK HB-3 at special combination price of \$25.00. Write to Commercial Engineering, RCA, Harrison, N. J., for Descriptive Flyer and Order Form.



• **RCA TRANSISTOR MANUAL**—SC-10 ($8\frac{3}{8}$ " x $5\frac{3}{8}$ ")—288 pages. New manual contains detailed technical data on RCA semiconductor devices. Easy-to-read text contains information on basic theory, application, and installation of transistors, silicon rectifiers, and semiconductor diodes. Includes circuit diagrams and parts lists for many typical applications. Features lie-flat binding. Price \$1.50.

• **RCA SEMICONDUCTOR PRODUCT GUIDE**—60S16R3 ($10\frac{7}{8}$ " x $8\frac{3}{8}$ ")—12 pages. Contains classification chart, index, and ratings and characteristics on RCA's line of transistors, silicon rectifiers, semiconductor diodes, and photocells. Single copy free on request.

• **TECHNICAL BULLETINS**—Authorized information on RCA transistors and semiconductor diodes. Be sure to mention type number for desired bulletin. Single copy on any type free on request.

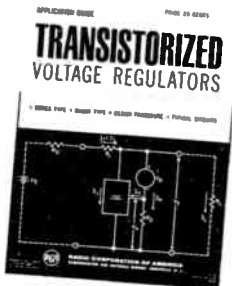
Technical Publications (Cont'd)



• **RCA SILICON POWER TRANSISTORS APPLICATION GUIDE**—1CE-215 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—28 pages. Describes outstanding features of RCA silicon power transistors and their use in many critical industrial and military applications. Includes construction details, discussion of voltage ratings, thermal stability conditions, and equivalent circuits for these transistors. Price 50 cents.

• **RCA SILICON VHF TRANSISTORS APPLICATION GUIDE**—1CE-228 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—20 pages. Describes unique capabilities of RCA silicon VHF transistors and their use in critical industrial and military applications up to 300 Mc. Price 50 cents.

• **TRANSISTORIZED VOLTAGE REGULATORS APPLICATION GUIDE**—1CE-254 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—12 pages. Describes and discusses transistorized voltage regulators of the series and shunt types. Included are design considerations, step-by-step design procedures, and the solutions to sample design problems. An Appendix contains the derivation of design equations. Price 25 cents.



RECEIVING TUBE CHART SECTION



For More Information on a
Specific Tube Type, Write to
RCA COMMERCIAL ENGINEERING
HARRISON, N. J.

(For Footnotes, Key to Tube Dimensions, and Base Diagrams,
See Pages 57 through 74.)

RCA RECEIVING TUBE CHART

Miniature, Metal, GT, and other Receiving Types


Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dim	B. D.	Volt	Amps.	
00-A	Detector Triode	K8	4D	5.0F	0.25	Grid-Leak Detector
01-A	Detector★ Amplifier	K8	4D	5.0F	0.25	Class A Amplifier
0Y4	Half-Wave Gas Rectifier	F2	4BU	—	—	Rectifier
0Z4	Full-Wave Gas Rectifier	E2 F2	4R	—	—	Rectifier
0Z4-A	Full-Wave Gas Rectifier	E2	4R	—	—	Rectifier
0Z4-G	Full-Wave Gas Rectifier	E2 F2	4R	—	—	Rectifier
1A3	Diode	A2	5AP	1.4	0.15	Rectifier
1A4-P	Remote-Cutoff Pentode	K5	4M	2.0F	0.06	Class A Amplifier
1A5-GT	Power Pentode	F8	6X	1.4F	0.05	Class A Amplifier
1A6	Pentagrid Converter a	K5	6L	2.0F	0.06	Converter
1A7-GT	Pentagrid Converter a	F7	7ZK	1.4F	0.05	Converter
1AC5	Power Pentode	K1	8CP	1.25F	0.04	Class A Amplifier
1AD5	Sharp-Cutoff Pentode	K1	8CP	1.25F	0.04	Class A Amplifier
1AX2	Half-Wave Rectifier	B8	8Y	1.4F	0.65	Pulsed Rectifier in TV Receivers
1B3-GT	Half-Wave Rectifier	F20	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1B4-P	Sharp-Cutoff Pentode	K5	4M	2.0F	0.06	Class A Amplifier
1B5/25S	Twin Diode—Medium-Mu Triode	K4	8M	2.0F	0.06	Triode Unit as Class A Amplifier
1B7-GT	Pentagrid Converter a	F7	7ZK	1.4F	0.10	Converter
1C5-GT	Power Pentode	F8	6X	1.4F	0.10	Class A Amplifier
1C6	Pentagrid Converter a	K5	6L	2.0F	0.12	Converter
1C7-G	Pentagrid Converter a	F24	7Z	2.0F	0.12	Converter
1D5-GP	Remote-Cutoff Pentode	F24	8Y	2.0F	0.06	Class A Amplifier
1D5-GT	Remote-Cutoff Tetrode	F24	5R	2.0F	0.06	Class A Amplifier
1D7-G	Pentagrid Converter a	F24	7Z	2.0F	0.06	Converter

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dia.	I. D.	Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		
				Volts	Amps.	
1D8-GT	Diode-Triode-Power Pentode	F8	8AJ	1.4F	0.10	Pentode Unit as Class A Amplifier
						Triode Unit as Class A Amplifier
1DN5	Diode-Semiremote-Cutoff Pentode	A2	8BW	1.4F	0.5	Pentode Unit as Class A Amplifier
1E5-GP	Sharp-Cutoff Pentode	F24	8Y	2.0F	0.06	Class A Amplifier
1E7-GT	Twin Power Pentode	F8	8C	2.0F	0.24	Class A Amplifier
1E8	Pentagrid Converter	K1	8CN	1.25F	0.04	Converter
1F4	Power Pentode	K8	8K	2.0F	0.12	Class A Amplifier
1F5-G	Power Amplifier Pentode	F28	8X	2.0F	0.12	Class A Amplifier
1F6	Twin Diode-Sharp-Cutoff Pentode	K8	8W	2.0F	0.06	Pentode Unit as Class A Amplifier
1F7-G	Twin Diode-Sharp-Cutoff Pentode	F24	7AF	2.0F	0.06	Pentode Unit as Class A Amplifier
1G3-GT/ 1B3-GT	Half-Wave Rectifier	F12	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
						HV Rectifier in RF Power Supplies
1G4-GT	Medium-Mu Triode	F8	8B	1.4F	0.05	Class A Amplifier
1G5-G	Power Pentode	F28	8X	2.0F	0.12	Class A Amplifier
1G6-GT	High-Mu Twin Power Triode	F6	7AB	1.4F	0.10	Class B Amplifier
1H4-G	Medium-Mu Triode	F21	8B	2.0F	0.06	Class A Amplifier
						Class B Amplifier
1H5-GT	Diode-High-Mu Triode	F7	8ZK	1.4F	0.05	Triode Unit as Class A Amplifier
1H6-G	Twin Diode-Medium-Mu Triode	F21	7AA	2.0F	0.06	Triode Unit as Class A Amplifier
1J3	Half-Wave Rectifier	F28	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1J5-G	Power Pentode	F28	8X	2.0F	0.12	Class A Amplifier
1J6-G 1J6-GT	Twin-Triode Amplifiers	F21 F12	7AB	2.0F	0.24	Class B Amplifier
1K3	Half-Wave Rectifier	F12	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1L6	Pentagrid Converter	A2	7DC	1.4F	0.05	Converter
1LA4	Power Pentode	J2	8AD	1.4F	0.05	Amplifier
1LA6	Pentagrid Converter	J2	7AK	1.4F	0.05	Converter
1LB4	Power Pentode	J2	8AD	1.4F	0.05	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dim.	B. O.	Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		
				Volts	Amps.	
1LC5	Sharp-Cutoff Pentode	J2	7A0	1.4F	0.05	Class A Amplifier
1LC6	Pentagrid Converter Ⓞ	J2	7AK	1.4F	0.05	Converter
1LD5	Diode—Sharp-Cutoff Pentode	J2	8AX	1.4F	0.05	Pentode Unit as Class A Amplifier
1LE3	Medium-Mu Triode	J2	4AA	1.4F	0.05	Class A Amplifier
1LG5	Remote-Cutoff Pentode	J2	7A0	1.4F	0.05	Class A Amplifier
1LH4	Diode—High-Mu Triode	J2	5AQ	1.4F	0.05	Triode Unit as Class A Amplifier
1LN5	Sharp-Cutoff Pentode	J2	7A0	1.4F	0.05	Class A Amplifier
1N2 1N2-A	Half-Wave Rectifier	F17 F11	3C	1.25F	0.2	Pulsed Rectifier in TV Receivers
1N5-GT	Sharp-Cutoff Pentode	F7	5Y4	1.4F	0.05	Class A Amplifier
1N6-G	Diode—Power Pentode	F18	7AM	1.4F	0.05	Pentode Unit as Class A Amplifier
1P5-GT	Remote-Cutoff Pentode	F7	5Y4	1.4F	0.05	Class A Amplifier
1Q5-GT	Beam Power Tube	F6	6AF	1.4F	0.1	Class A Amplifier
1R5	Pentagrid Converter⚠	A2	7AT	1.4F	0.05	Converter
1S4	Power Pentode	A2	7AV	1.4F	0.1	Class A Amplifier
1S5	Diode—Sharp-Cutoff Pentode	A2	6AU	1.4F	0.05	Pentode Unit as AF Amplifier
1T4	Remote-Cutoff Pentode	A2	6AR	1.4F	0.05	Class A Amplifier
1T5-GT	Beam Power Tube	F6	6X	1.4F	0.05	Class A Amplifier
1T6	Diode—Sharp-Cutoff Pentode	K1	8DA	1.25F	0.04	Pentode Unit as Class A Amplifier
1U4	Sharp-Cutoff Pentode	A2	6AR	1.4F	0.05	Class A Amplifier
1U5	Diode—Sharp-Cutoff Pentode	A2	6BW	1.4F	0.05	Pentode Unit as Class A Amplifier
1-v	Half-Wave Rectifier	K4	4Q	6.3	0.3	With Capacitive-Input Filter
1V2	Half-Wave Rectifier	B2	9U	0.625F	0.3	Pulsed Rectifier
1X2-A	Half-Wave Rectifier	B13	9Y	1.25F	0.2	Pulsed Rectifier in TV Receivers
1X2-B	Half-Wave Rectifier	B6	9Y	1.25F	0.2	Pulsed Rectifier in TV Receivers
2A3	Power Triode	K11	4D	2.5F	2.5	Class A Amplifier Push-Pull Class AB ₁ Amplifier
2A4-G	Glow-Discharge Triode	F21	5B	2.5F	2.5	Relay Service

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters ⊕ Heater with controlled warmup time		Type of Service
		Dia.	B. D.	Volts	Amps.	
2A5	Power Pentode	K8	60	2.5	1.75	Amplifier
2A6	Twin Diode—High-Mu Triode	K5	60	2.5	0.8	Triode Unit as Amplifier
2A7	Pentagrid Converter ⊕	K5	7C	2.5	0.8	Converter
2AF4-A 2AF4-B	Medium-Mu Triode	A2 A1	7DK	2.35⊕	0.6	Class A Amplifier Oscillator at 1000 Mc.
2B7	Twin Diode—Remote-Cutoff Pentode	K5	7D	2.5	0.8	Pentode Unit as Amplifier
2BN4	Medium-Mu Triode	A2	7EG	2.3⊕	0.6	Class A Amplifier
2BN4-A	Medium-Mu Triode	A2	7EG	2.35⊕	0.6	Class A Amplifier
2CW4	Novistor High-Mu Triode	D1	12AQ	2.1	0.45	Class A Amplifier
2CY5	Sharp-Cutoff Tetrode	A2	7EW	2.4⊕	0.6	Class A Amplifier
2DS4	Novistor High-Mu Triode	D1	12AQ	2.1⊕	0.45	Class A Amplifier
2E5	Electron-Ray Tube	K4	6R	2.5	0.8	Visual Indicator
2EN5	Twin Diode	A2	7FL	2.1⊕	0.45	Horizontal Phase Detector
2ER5	High-Mu Triode	A2	7FP	2.3	0.6	Class A Amplifier
2FH5	High-Mu Triode	A2	7FP	2.35⊕	0.6	Class A Amplifier
2GK5	High-Mu Triode	A2	7FP	2.3⊕	0.6	Class A Amplifier
3A2	Half-Wave Rectifier	B5	90T	3.15	0.22	Pulsed Rectifier in TV Receivers
3A3	Half-Wave Rectifier	F20	6EZ	3.15	0.22	Pulsed Rectifier in TV Receivers
3A8-GT	Diode-Triode—Pentode	F14	8AS	1.4P 2.8P	0.1 0.05	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
3AF4-A	Medium-Mu Triode	A1	7DK	3.15⊕	0.45	Class A Amplifier Oscillator at 1000 Mc.
3AL5	Twin Diode	A1	6BT	3.15⊕	0.6	Detector Rectifier
3AU6	Sharp-Cutoff Pentode	A2	7BK	3.15⊕	0.6	Class A Amplifier
3AV6	Twin Diode—High-Mu Triode	A2	7BT	3.15⊕	0.6	Triode Unit as Class A Amplifier
3B2	Half-Wave Rectifier	F38	6QH	3.15	0.22	Pulsed Rectifier in TV Service
3BA6	Remote-Cutoff Pentode	A2	7BK	3.15⊕	0.6	Class A Amplifier
3BC5	Sharp-Cutoff Pentode	A2	7BD	3.15⊕	0.6	Class A Amplifier
3BE6	Pentagrid Converter Δ	A2	7CH	3.15⊕	0.6	Converter
3BN4	Medium-Mu Triode	A2	7EG	3.0⊕	0.45	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with controlled warmup time.</small>		Type of Service
		Dim.	B. O.	Volts		
				Yolts	Amps.	
3BN4-A	Medium-Mu Triode	A2	7EQ	3.0⊙	0.45	Class A Amplifier
3BN6	Beam Tube	A3	7DF	3.15⊙	0.6	Limiter and Discriminator
3BU8	Sharp-Cutoff Twin Pentode	B4	8FG	3.15⊙	0.6	Class A Amplifier With Both Sections Operating
3BY6	Pentagrid Amplifier	A2	7CH	3.15⊙	0.6	Syne Separator and Syne Clipper
3BZ6	Semiremote-Cutoff Pentode	A2	7CM	3.15⊙	0.6	Class A Amplifier
3C2	Half-Wave Rectifier	F22	8FV	1.58F 3.15F	0.42 0.21	Pulsed Rectifier in TV Receivers
3CB6	Sharp-Cutoff Pentode	A2	7CM	3.15⊙	0.6	Class A Amplifier
3CE5	Sharp-Cutoff Pentode	A2	7BD	3.15	0.6	Class A Amplifier
3CF6	Sharp-Cutoff Pentode	A2	7CM	3.15⊙	0.6	Class A Amplifier
3CS6	Pentagrid Amplifier	A2	7CH	3.15⊙	0.6	Class A Amplifier
3CY5	Sharp-Cutoff Tetrode	A2	7EW	2.9⊙	0.45	Class A Amplifier
3DG4	Full-Wave Rectifier	F28	8DE	3.3F	3.8	With Capacitive-Input Filter
3DK6	Sharp-Cutoff Pentode	A2	7CM	3.15⊙	0.6	Class A Amplifier
3DT6	Sharp-Cutoff Pentode	A2	7EN	3.15⊙	0.6	Class A Amplifier
3DT6-A	Sharp-Cutoff Pentode	A2	7EN	3.15⊙	0.6	Class A Amplifier
3EA5	Sharp-Cutoff Tetrode	A2	7EW	2.9⊙	0.45	Class A Amplifier
3ER5	High-Mu Triode	A2	7FP	2.8	0.45	Class A Amplifier
3FH5	Medium-Mu Triode	A2	7FP	3.0	0.45	Class A Amplifier
3GK5	High-Mu Triode	A2	7FP	2.8⊙	0.45	Class A Amplifier
3GS8/ 3BU8	Sharp-Cutoff Twin Pentode	B4	9LW	3.15⊙	0.6	Class A Amplifier <small>(With both sections operating)</small>
3LF4	Beam Power Tube	J2	8BA	1.4F 2.8F	0.1 0.05	Class A Amplifier
3Q4	Power Pentode	A2	7BA	1.4F 2.8F	0.1 0.05	Class A Amplifier
3Q5-GT	Beam Power Tube	F8	7AP	1.4F 2.8F	0.1 0.05	Class A Amplifier
3S4	Power Pentode	A2	7BA	1.4F 2.8F	0.1 0.05	Class A Amplifier
3V4	Power Pentode	A2	8BX	1.4F 2.8F	0.1 0.05	Class A Amplifier
4AU6	Sharp-Cutoff Pentode	A2	7BK	4.2⊙	0.45	Class A Amplifier
4AV6	Twin-Diode—High-Mu Triode	A2	7BT	4.2⊙	0.45	Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
4BC5	Sharp-Cutoff Pentode	A2	7BD	4.2 ⊕	0.45	Class A Amplifier
4BC8	Medium-Mu Twin-Triode	B2	9AJ	4.2 ⊕	0.6	Each Unit as Class A Amplifier
4BL8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DC	4.6	0.6	Class A Amplifier
4BN6	Beam Tube	A2	7DF	4.2 ⊕	0.45	Limiter and Discriminator
4BQ7-A	Medium-Mu Twin-Triode	B2	9AJ	4.2 ⊕	0.6	Each Unit as Class A Amplifier
4BS8	Medium-Mu Twin Triode	B2	9AJ	4.5 ⊕	0.6	Each Unit as Class A Amplifier
4BU8	Sharp-Cutoff Twin Pentode	B4	9FG	4.2 ⊕	0.45	Class A Amplifier (With both sections operating)
4BZ6	Semiremote-Cutoff Pentode	A2	7CM	4.2 ⊕	0.45	Class A Amplifier
4BZ7	Medium-Mu Twin-Triode	B2	9AJ	4.2 ⊕	0.6	Each Unit as Class A Amplifier
4CB6	Sharp-Cutoff Pentode	A2	7CM	4.2 ⊕	0.45	Class A Amplifier
4CS6	Pentagrid Amplifier	A2	7CH	4.2 ⊕	0.45	Sync Separator and Sync Clipper
						Class A Amplifier
4CY5	Sharp-Cutoff Tetrode	A2	7EW	4.5 ⊕	0.3	Class A Amplifier
4DE6	Sharp-Cutoff Pentode	A2	7CM	4.2 ⊕	0.45	Class A Amplifier
4DT6	Sharp-Cutoff Pentode	A2	7EN	4.2 ⊕	0.45	Class A Amplifier
4DT6-A	Sharp-Cutoff Pentode	A2	7EN	4.2 ⊕	0.45	Class A Amplifier
4EH7	Semiremote-Cutoff Pentode	B7	9AQ	4.4	0.45	Class A Amplifier
4EJ7	Sharp-Cutoff Pentode	B7	9AQ	4.4	0.45	Class A Amplifier
4ES8	Medium-Mu Twin Triode	B2	9AJ	4.0 ⊕	0.6	Each Unit as Class A Amplifier
4EW6	Sharp-Cutoff Pentode	A2	7CM	4.2 ⊕	0.6	Class A Amplifier
4GS8/ 4BU8	Sharp-Cutoff Twin Pentode	B4	9LW	4.2 ⊕	0.45	Class A Amplifier (With both sections operating)
5AN8	Diode—Sharp-Cutoff Pentode	B2	9CY	4.7 ⊕	0.6	Diode Unit
						Pentode Unit as Class A Amplifier
5AN8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DA	4.7 ⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
5AQ5	Beam Power Tube	A2	7BZ	4.7 ⊕	0.6	Single Tube Class A Amplifier
						Push-Pull Class AB ₁ Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dia.	B. D.	Volts	Amps.	
5AS4 5AS4-A	Full-Wave Rectifiers	F30 F22	5T1	5.0F	3.0	With Capacitive-Input Filter With Inductive-Input Filter
5AS8	Diode—Sharp-Cutoff Pentode	B2	90S	4.7⊕	0.6	Diode Unit Pentode Unit as Class A Amplifier
5AT8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	90W	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5AU4	Full-Wave Rectifier	F30	5T	5.0F	3.75	With Capacitive-Input Filter With Inductive-Input Filter
5AV8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	90Z	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5AW4	Full-Wave Rectifier	F37	5T	5.0F	3.7	Rectifier
5AZ4	Full-Wave Rectifier	J3	5T	5.0F	2.0	
5B8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	90C	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5BC3	Novar Full-Wave Rectifier	C5	9NT	5.0F	3.0	With Capacitive-Input Filter With Inductive-Input Filter
5BE8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	90G	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5BK7-A	Medium-Mu Twin Triode	B2	9AJ	4.7⊕	0.6	Each Unit as Class A Amplifier
5BQ7-A	Medium-Mu Twin Triode	B2	9AJ	5.6⊕	0.45	Each Unit as Class A Amplifier
5BR8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FA	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5BT8	Twin-Diode—Sharp-Cutoff Pentode	B2	9FE	4.7⊕	0.6	Class A Amplifier
5BW8	Twin Diode—Sharp-Cutoff Pentode	B2	9HK	4.7⊕	0.6	Pentode Unit as Class A Amplifier
5CG8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	90F	4.7⊕	0.6	Each Unit as Class A Amplifier
5CL8 5CL8-A	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9FX	4.7⊕	0.6	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
5C8B	High-Mu Triode— Sharp-Cutoff Pentode	B2	9FZ	4.7	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
5CQ8	Medium-Mu Triode— Sharp-Cutoff Tetrode	B2	9GE	4.7⊕	0.6	Triode Unit as Class A Amplifier
						Tetrode Unit as Class A Amplifier
5CZ5	Beam Power Tube	B10	9HN	4.7⊕	0.6	Vertical-Deflection Amplifier
5DH8	High-Mu Triode— Sharp-Cutoff Pentode	B2	9EQ	5.2⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
5DJ4	Full-Wave Rectifier	F25	8KS	5.0F	3.0	With Capacitive-Input Filter
						With Inductive-Input Filter
5EA8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9AE	4.7⊕	0.6	Each Unit as Class A Amplifier
5EU8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9JF	4.7⊕	0.6	Each Unit as Class A Amplifier
5EW6	Sharp-Cutoff Pentode	A2	7CM	5.6⊕	0.45	Class A Amplifier
5FG7	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9GF	4.7⊕	0.6	Class A Amplifier
5FV8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9FA	4.7⊕	0.6	Each Unit as Class A Amplifier
5GH8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9AE	4.7⊕	0.6	Horizontal Deflection Oscillator
5GM6	Semiremote-Cutoff Pentode	A2	7CM	5.6⊕	0.45	Class A ₁ Amplifier
5GX6	Sharp-Cutoff Pentode	A2	7EN	4.7⊕	0.6	Class A Amplifier
5J6	Medium-Mu Twin-Triode	A2	7BF	4.7⊕	0.6	Each Unit as Class A Amplifier
						Push-Pull Class C Amplifier
5T4	Full-Wave Rectifier	F25	8T	5.0F	2.0	With Capacitive-Input Filter
						With Inductive-Input Filter
5T8	Triple Diode— High-Mu Triode	B2	9E	4.7⊕	0.6	Triode Unit as Class A Amplifier
5U4-G	Full-Wave Rectifier	F20	8T1	5.0F	3.0	With Capacitive-Input Filter
5U4-GB	Full-Wave Rectifier	F25	8T1	5.0F	3.0	With Capacitive-Input Filter
						With Inductive-Input Filter

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
5U8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5V3	Full-Wave Rectifier	F25	5T	5.0F	3.8	With Capacitive Input Filter With Inductive Input Filter
5V3-A	Full-Wave Rectifier	F25	5T	5.0F	3.0	With Capacitive Input Filter With Inductive Input Filter
5V4-G 5V4-GA	Full-Wave Rectifier	F28 F17	6L1	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5V6-GT	Beam Power Tube	F8	7AC	4.7⊕	0.6	Single-Tube Class A Amplifier Push-Pull Class AB ₁ Amplifier
5W4 5W4-GT	Full-Wave Rectifier	E4 F8	5T 5T1	5.0F	1.5	With Capacitive-Input Filter
5X4-G	Full-Wave Rectifier	F39	8Q	5.0F	3.0	
5X8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AK	4.7⊕	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5Y3-G 5Y3-GT	Full-Wave Rectifier	F29 F8	5T1	5.0F	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5Y4-G 5Y4-GA 5Y4-GT	Full-Wave Rectifier	F28 F25 F8	8Q	5.0F	2.0	
5Z3	Full-Wave Rectifier	K11	4C	5.0F	3.0	
5Z4	Full-Wave Rectifier	E4	6L	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
6A3	Power Triode	K11	4D	6.3F	1.0	Amplifier
6A4 LA	Power Pentode	K8	9B	6.3F	0.3	Class A Amplifier
6A6	High-Mu Twin Power Triode	K8	7B	6.3	0.8	Amplifier
6A7 6A7S	Pentagrid Converter	K5	7C	6.3	0.3	Converter
6A8 6A8-G 6A8-GT	Pentagrid Converter	E3 F24 F7	8A 8A1 8A	6.3	0.3	Converter

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊙ Heater with controlled warm-up time.		Type of Service
		Dim.	E. D.	Volts	Amps.	
6AB4	High-Mu Triode	A2	9CE	6.3	0.15	Class A Amplifier
6AB5/ 6N5	Electron-Ray Tube	K3	9N	6.3	0.15	Visual Indicator
6AB7	Sharp-Cutoff Pentode	E2	9N	6.3	0.45	Class A Amplifier
6AC5-GT	High-Mu Power Triode	F8	9Q1	6.3	0.4	Class B Amplifier
						Dynamic-Coupled Amplifier With 76 Driver
6AC7	Sharp-Cutoff Pentode	E2	9N	6.3	0.45	Class A Amplifier
6AD6-G	Electron-Ray Tube	F41	7A8	6.3	0.15	Visual Indicator
6AD7-G	Low-Mu Triode—Power Pentode	F28	9AY	6.3	0.85	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6AE5-GT	Low-Mu Triode	F8	9Q1	6.3	0.3	Class A Amplifier
6AE6-G	Twin-Plate Control Tube	F21	7AH	6.3	0.15	Remote Cutoff Triode
						Sharp-Cutoff Triode
6AE7-GT	Twin-Input Triode	F8	7AX	6.3	0.5	Class A Amp. AA
6AF3	Half-Wave Rectifier	88	9CB	6.3	1.2	Television Damper Service
6AF4 6AF4-A	Medium-Mu Triode	A2	7DK	6.3	0.225	Class A Amplifier
		A1				Oscillator at 1000 Mc.
6AF6-G	Electron-Ray Tube	F1	7AQ	6.3	0.15	Visual Indicator
6AG5	Sharp-Cutoff Pentode	A2	7BD	6.3	0.3	Pentode Unit as Class A Amplifier
						Triode Unit as Class A Amplifier
6AG7	Power Pentode	E4	9Y	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit
6AH4-GT	Low-Mu Triode	F8	9EL	6.3	0.75	Vertical Deflection Amplifier
6AH6	Sharp-Cutoff Pentode	A2	7BK	6.3	0.45	Class A Amplifier
6AK5	Sharp-Cutoff Pentode	A1	7BD	6.3	0.175	Class A Amplifier
6AK6	Power Amplifier Pentode	A2	7BK	6.3	0.15	Class A Amplifier
6AL3	Half-Wave Rectifier	812	9CB	6.3	1.55	Damper Service
6AL5	Twin Diode	A1	9BT	6.3	0.3	Half-Wave Rectifier
6AL7-GT	Electron-Ray Tube	F8	9CH	6.3	0.15	Visual Indicator
6AM4	High-Mu Triode	81	9BX	6.3	0.225	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dia.	B. D.	Volts	Amps.	
6AM8 6AM8-A	Diode— Sharp-Cutoff Pentode	B2	9CY	6.3	0.45	Diode Unit
				6.3⊕	0.45	Pentode Unit as Class A Amplifier
6AN4	High-Mu Triode	A1	7DK	6.3	0.225	Class A Amplifier
6AN8 6AN8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9DA	6.3	0.45	Triode Unit as Class A Amplifier
				6.3⊕	0.45	Pentode Unit as Class A Amplifier
6AQ5 6AQ5-A	Beam Power Tube	A3	7BZ	6.3	0.45	Single Tube Class A Amplifier
				6.3⊕	0.45	Push-Pull Class A Amplifier
6AQ6	Twin-Diode— High-Mu Triode	A2	7BT	6.3	0.15	Triode Unit as Class A Amplifier
6AQ7-GT	Twin-Diode— High-Mu Triode	F6	8CK	6.3	0.3	Triode Unit as Class A Amplifier
6AQ8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.435	Each Unit as Class A Amplifier
6AR5	Power Pentode	A3	6CC	6.3	0.4	Class A Amplifier
6AS5	Beam Power Tube	A3	7CV	6.3	0.8	Class A Amplifier
6AS8	Diode— Sharp-Cutoff Pentode	B2	9DS	6.3	0.45	Diode Unit
						Pentode Unit as Class A Amplifier
6AT6	Twin-Diode— High-Mu Triode	A2	7BT	6.3	0.3	Triode Unit as Class A Amplifier
6AT8 6AT8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9DW	6.3	0.45	Triode Unit as Class A Amplifier
				6.3⊕	0.45	Pentode Unit as Class A Amplifier
6AU4-GT	Half-Wave Rectifier	F15	4CQ	6.3	1.8	Television Damper Service
6AU4- GTA	Half-Wave Rectifier	F15	4CQ	6.3	1.8	Television Damper Service
6AU5-GT	Beam Power Tube	F6	8CK	6.3	1.25	Horizontal Deflec- tion Amplifier
6AU6 6AU6-A	Sharp-Cutoff Pentode	A2	7BK	6.3	0.3	Class A Amplifier
				6.3⊕	0.3	
6AU7	Medium-Mu Twin Triode	B2	9A	3.15	0.6	Each Unit as Class A Amplifier
6AU8	Medium-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier
				Pentode Unit as Class A Amplifier		
6AU8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier
				Pentode Unit as Class A Amplifier		
6AV5-GA 6AV5-GT	Beam Power Tube	F15 F6	8CK	6.3	1.2	Horizontal Deflec- tion Amplifier
6AV6	Twin Diode— High-Mu Triode	A2	7BT	6.3	0.3	Triode Unit as Class A Amplifier
6AW8 6AW8-A	High-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier**

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ● Heater with controlled warmup time.</small>		Type of Service
		Dim.	B. B.	Volts	Amps.	
6AX3	Half-Wave Rectifier	L2	12BL	6.3	1.2	Damper Service
6AX4-GT	Half-Wave Rectifier	F8	4CQ	6.3	1.2	Television Damper Service
6AX4-GTB	Half-Wave Rectifier	F8	4CQ	6.3	1.2	Television Damper Service
6AX5-GT	Full-Wave Rectifier	F8	88	6.3	1.2	With Capacitive-Input Filter
						With Inductive-Input Filter
6AX8	Medium-Mu Triode—Semiremote Cutoff Pentode	B2	9AE	6.3	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6AY3	Novar Half-Wave Rectifier	C4	9HP	6.3	1.2	Television Damper Service
6AZ8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9ED	6.3	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6B4-G	Power-Triode	F20	88	6.3P	1.0	Class A Amplifier
6B5	Direct-Coupled Power Triode	K8	6AS	6.3	0.8	Class A Amplifier
6B6-G	Twin-Diode—High-Mu Triode	F24	7V1	6.3	0.3	Triode Unit as Amplifier
6B7 6B7S	Twin-Diode—Remote-Cutoff Pentode	K6	7D	6.3	0.3	Pentode Unit as Amplifier
6B8	Twin-Diode—Semiremote-Cutoff Pentode	E3	8E	6.3	0.3	Pentode Unit as Amplifier
6B8-G	Twin Diode—Semiremote-Cutoff Pentode	F24	8E1	6.3	0.3	Pentode Unit as Class A Amplifier
6BA3	Novar Half-Wave Rectifier	C6	9HP	6.3	1.2	Television Damper Service
6BA6	Remote-Cutoff Pentode	A2	78K	6.3	0.3	Class A Amplifier
6BA7	Pentagrid Converter A	B4	8CT	6.3	0.3	Converter
6BA8-A	Medium-Mu Triode Sharp-Cutoff Pentode	B4	9DX	6.3	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6BC4	Medium-Mu Triode	B1	9DR	6.3	0.225	Class A Amplifier
6BC5	Sharp-Cutoff Pentode	A2	79D	6.3	0.3	Class A Amplifier
6BC7	Triple Diode	B2	8AX	6.3	0.45	DC Restorer in Color TV
6BC8	Medium-Mu Twin Triode	B2	8AJ	6.3	0.4	Each Unit as Class A Amplifier
6BD4	Sharp-Cutoff Beam Triode	F20	8FU	6.3	0.6	Voltage-Control

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6BD4-A	Sharp-Cutoff Beam Triode	F38	8FU	6.3	0.6	Voltage-Control
6BD6	Remote-Cutoff Pentode	A2	7BK	6.3	0.3	Class A Amplifier
6BE6	Pentagrid Converter ^Δ	A2	7CH	6.3	0.3	Converter
6BF5	Beam Power Tube	A3	7BZ	6.3	1.2	Class A Amplifier
6BF6	Twin-Diode—Medium-Mu Triode	A2	7BT	6.3	0.3	Triode Unit as Class A Amplifier
6BG6-G 6BG6-GA	Beam Power Tube	F40 F33	8BT	6.3	0.9	Horizontal Deflection Amplifier
6BH3	Novar Half-Wave Rectifier	C4	8HP	6.3	1.6	Television Damper Service
6BH6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.15	Class A Amplifier
6BH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	8DX	6.3⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6BJ6	Remote-Cutoff Pentode	A2	7CM	6.3	0.15	Class A Amplifier
6BJ7	Triple Diode	B2	8AX	6.3	0.45	DC Restorer in Color TV
6BJ8	Twin-Diode—Medium-Mu Triode	B4	9ER	6.3⊕	0.6	Triode Unit as Class A Amplifier
						Triode Unit as Vertical Deflection Amplifier
6BK4	Sharp-Cutoff Beam Triode	F34	8GC	6.3	0.2	Voltage-Control
6BK5	Beam Power Tube	B4	8BQ	6.3	1.2	Class A Amplifier
6BK7-A 6BK7-B	Medium-Mu Twin Triodes	B2	8AJ	6.3 6.3⊕	0.45 0.45	Each Unit as Class A Amplifier
6BL4	Half-Wave Rectifier	F26	8OB	6.3	3.0	Television Damper Service
6BL7-GT	Medium-Mu Twin Triode	F8	8BD	6.3	1.5	Vertical Deflection Amplifier
6BL7-GTA	Medium-Mu Twin Triode	F8	8BD	6.3	1.5	Vertical Deflection Amplifier (Unit No. 2)
						Vertical Deflection Oscillator (Unit No. 1)
6BL8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9DC	6.3	0.45	Class A Amplifier
6BN4	Medium-Mu Triode	A2	7EG	6.3	0.2	Class A Amplifier
6BN4-A	Medium-Mu Triode	A2	7EG	6.3	0.2	Class A Amplifier
6BN6	Beam Tube	A3	7DF	6.3	0.3	Limiter and Discriminator
6BN8	Twin-Diode—High-Mu Triode	B4	9ER	6.3⊕	0.6	Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time		Type of Service
		Dia.	B. O.	Volts	Amps.	
6BQ5	Power Pentode	Ø18	ØCV	6.3	0.76	Class A Amplifier Push-Pull Class AB ₁ Amplifier
6BQ6-GT	Beam Power Tube	F16	6AM	6.3	1.2	Horizontal Deflection Amplifier
6BQ6-GTA	Beam Power Tube	F16	6AM	6.3	1.2	Horizontal Deflection Amplifier
6BQ6-GTB/ 6CU6	Beam Power Tube	F16	6AM	6.3	1.2	Horizontal Deflection Amplifier
6BQ7	Medium-Mu Twin Triode	Ø2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BQ7-A	Medium-Mu Twin Triode	Ø2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BR8 6BR8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	Ø2	9FA	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6BS8	Medium-Mu Twin Triode	Ø2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BU8	Sharp-Cutoff Twin Pentode	Ø4	9FC	6.3	0.3	Class A Amplifier With Both Sections Operating
6BV8	Twin Diode— Medium-Mu Triode	Ø2	9FJ	6.3⊕	0.6	Triode Unit as Class A Amplifier
6BW4	Full-Wave Rectifier	Ø4	9DJ	6.3	0.9	With Capacitive Input Filter
						With Inductive Input Filter
6BW8	Twin Diode— Sharp-Cutoff Pentode	Ø2	9HK	6.3	0.45	Pentode Unit as Class A Amplifier
6BX7-GT	Medium-Mu Twin Triode	F6	ØBD	6.3	1.5	Vertical Deflection Oscillator
						Vertical Deflection Amplifier
6BY5-GA	Full-Wave Rectifier	F17	ØCN	6.3	1.6	Television Dumper Service
6BY6	Pentagrid Amplifier	A2	7CH	6.3	0.3	Sync Separator and Sync Clipper
6BY8	Diode— Sharp-Cutoff Pentode	Ø4	9FN	6.3⊕	0.6	Diode Unit
						Pentode Unit as Class A Amplifier
6BZ6	Semiremote-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6BZ7	Medium-Mu Twin-Triode	Ø2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6BZ8	Medium-Mu Twin Triode	Ø2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6C4	Power Triode	A2	ØDQ	6.3	0.15	Class A Amplifier
						Class C Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊕ Heater with controlled warmup time.</small>		Type of Service
		Dim.	B. B.	Volts	Amps.	
		6C5 6C5-GT	Medium-Mu Triode	E2 F7	8Q 8QX	
6C6	Sharp-Cutoff Pentode	K9	9F	6.3	0.3	Amplifier Detector
6C7	Twin-Diode— Medium-Mu Triode	K8	7Q	6.3	0.3	Triode Unit as Class A Amplifier
6C8-G	Medium-Mu Twin-Triode	F24	8Q	6.3	0.3	Each Unit as Class A Amplifier
6CA4	Full-Wave Rectifier	B10	9M	6.3	1.0	With Capacitive- Input Filter
6CA5	Beam Power Tube	A3	7CV	6.3	1.2	Class A Amplifier
6CB5	Beam Power Tube	F36	8GD	6.3	2.5	Horizontal Deflection Amplifier
6CB5-A	Beam Power Tube	F33 F34	8GD	6.3	2.5	Horizontal Deflection Amplifier
6CB6 6CB6-A	Sharp-Cutoff Pentode	A2	7CM	6.3 6.3⊕	0.3 0.3	Class A Amplifier
6CD6-G 6CD6-GA	Beam Power Tube	F48 F33	8BT	6.3	2.5	Horizontal Deflection Amplifier
6CE5	Sharp-Cutoff Pentode	A2	7BD	6.3⊕	0.3	Class A Amplifier
6CF6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6CG7	Medium-Mu Twin-Triode	B4	8AJ	6.3⊕	0.6	Horizontal Deflection Oscillator Vertical Deflection Oscillator
6CG8 6CG8-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9QF	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CH8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9FT	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CK4	Low-Mu Triode	F9	8JB	6.3	1.25	Vertical Deflection Amplifier
6CL6	Power Pentode	B4	9BV	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit
6CL8	Medium-Mu Triode— Sharp-Cutoff Tetrode	B2	9FX	6.3⊕	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CL8-A	Medium-Mu Triode— Sharp-Cutoff Tetrode	B2	9FX	6.3⊕	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CM6	Beam Power Tube	B4	8CK	6.3	0.45	Class A Amplifier Vertical Deflection Amplifier
6CM7	Medium-Mu Dual Triode	B4	9ES	6.3⊕	0.6	Vertical Deflection Oscillator (Data No. 12) Vertical Deflection Amplifier (Data No. 12)

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dim.	E D	Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		
				Volts	Amps.	
6CM8	High-Mu Triode—Sharp-Cutoff Pentode	B2	8FZ	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CN7	Twin Diode—High-Mu Triode	B2	9EW	3.15⊕ 6.3	0.6 0.3	Triode Unit as Class A Amplifier
6CQ4	Half-Wave Rectifier	F15	4CG	6.3	1.6	Damper Service
6CQ8	Medium-Mu Triode—Sharp-Cutoff Tetrode	B2	9QE	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CR6	Remote-Cutoff Pentode	A2	7EA	6.3	0.3	Pentode Unit as Class A Amplifier
6CS6	Pentagrid Amplifier	A2	7CH	6.3	0.3	Sync Separator and Sync Clipper Class A Amplifier
6CS7	Medium-Mu Dual Triode	B4	9EF	6.3⊕	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CU5	Beam Power Tube	A3	7CV	6.3	1.2	Class A Amplifier
6CU6	Beam Power Tube	F22	6AM	6.3	1.2	Horizontal Deflection Amplifier
6CUB	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9GM	6.3⊕	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CW4	Nuvistor High-Mu Triode	D1	12AQ	6.3	0.135	Class A Amplifier
6CX8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	9DX	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CY5	Sharp-Cutoff Tetrode	A2	7EW	6.3	0.2	Class A Amplifier
6CY7	Dual Triode	B4	9EF	6.3	0.75	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CZ5	Beam Power Tube	B10	9HN	6.3	0.45	Vertical Deflection Amplifier
6D6	Remote-Cutoff Pentode	K9	8F	6.3	0.3	Amplifier Mixer
6D7	Sharp-Cutoff Pentode	K9	7H	6.3	0.3	Amplifier Detector
6D8-G	Pentagrid Converter ⊕	F24	8A1	6.3	0.15	Converter
6DA4	Half-Wave Rectifier	F8	4CG	6.3	1.2	Television Damper Service
6DB5	Beam Power Tube	B4	9DR	6.3	1.2	Vertical Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.


Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ①-Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6DC6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6DC8	Twin Diode—Remote-Cutoff Pentode	B4	9HE	6.3	0.3	Class A Amplifier
6DE4	Half-Wave Rectifier	F15	4CG	6.3	1.6	Television Damper Service
6DE6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6DE7	Dual Triode	B4	9HF	6.3	0.9	Vertical Deflection Oscillator (Data No. 1)
						Vertical Deflection Amplifier (Data No. 2)
6DG6-GT	Beam Power Tube	F8	7S	6.3	1.2	Class A Amplifier
6DK6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.3	Class A Amplifier
6DM4	Half-Wave Rectifier	F16	4CG	6.3	1.2	Damper Service
6DN6	Beam Power Tube	F33	8BT	6.3	2.5	Horizontal Deflection Amplifier
6DN7	Medium-Mu Dual Triode	F4	8BD	6.3	0.9	Vertical Deflection Oscillator (Data No. 1)
						Vertical Deflection Amplifier (Data No. 2)
6DQ5	Beam Power Tube	F33	8JC	6.3	2.5	Horizontal Deflection Amplifier
6DQ6-A	Beam Power Tube	F22	8AM	6.3	1.2	Horizontal Deflection Amplifier
6DQ6-B	Beam Power Tube	F22	8AM	6.3	1.2	Horizontal Deflection Amplifier
6DR7	Dual Triode	B4	9HF	6.3	0.9	Vertical Deflection Oscillator (Data No. 1)
						Vertical Deflection Amplifier (Data No. 2)
6DS4	Nuvistor High-Mu Triode	D1	12AQ	6.3	0.135	Class A Amplifier
6DS5	Beam Power Tube	A3	7BZ	6.3	0.8	Class A Amplifier
6DT5	Beam Power Tube	B4	9HN	6.3	1.2	Vertical Deflection Amplifier
6DT6	Sharp-Cutoff Pentode	A2	7EN	6.3	0.3	Class A Amplifier
6DT6-A	Sharp-Cutoff Pentode	A2	7EN	6.3	0.3	Class A Amplifier
						FM Detector
6DT8	High-Mu Twin Triode	B2	9DE	6.3	0.3	Class A Amplifier
6DW4	Novar Half-Wave Rectifier	C4	9HP	6.3	1.2	Damper Service
6DW5	Beam Power Tube	B10	8CK	6.3	1.2	Vertical Deflection Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊕ Heater with controlled warmup time</small>		Type of Service
		Dim.	S. D.	Volts	Amper.	
6DX8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9HX	6.3	0.72	Class A Amplifier
6DZ7	Twin Power Pentode	F17	8JP	6.3	1.52	Each Unit as Class A Amplifier
						Both Units as Push-Pull Class AB ₁ Amplifier
6E5	Electron-Ray Tube	K3	6R	6.3	0.3	Visual Indicator
6E6	Twin Power Amplifier	K8	7B	6.3	0.6	Push-Pull Class A Amplifier
6E7	Remote-Cutoff Pentode	K8	7H	6.3	0.3	Amplifier
6EA5	Sharp-Cutoff Tetrode	A2	7EW	6.3	0.2	Class A Amplifier
6EA7	Dual Triode	F4	8BD	6.3	1.05	Vertical Deflection Oscillator (Unit No. 1)
						Vertical Deflection Amplifier (Unit No. 2)
6EA8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	8AE	6.3⊕	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6EB5	Twin Diode	A2	86T	6.3	0.3	Voltage Doubler
6EB8	High-Mu Triode—Sharp-Cutoff Pentode	B2	90X	6.3	0.75	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6EH5	Power Pentode	A3	7CV	6.3	1.2	Class A Amplifier
6EH7	Semiremote-Cutoff Pentode	B7	8AQ	6.3	0.3	Class A Amplifier
6EH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B8	9JG	6.3⊕	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6EJ7	Sharp-Cutoff Pentode	B7	8AQ	6.3	0.3	Class A Amplifier
6EM5	Beam Power Tube	B10	9HN	6.3	0.8	Vertical Deflection Amplifier
6EM7	Dual Triode	F3	8BD	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1)
						Vertical Deflection Amplifier (Unit No. 2)
6EQ7	Diode—Remote-Cutoff Pentode	B4	9LQ	6.3	0.3	Pentode Unit as Class A Amplifier
6ER5	High-Mu Triode	A2	7FP	6.3	0.18	Class A Amplifier
6ES5	High-Mu Triode	A2	7FP	6.3	0.2	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕: Heater with controlled warmup time		Type of Service
		Dim.	Ø. D.	Volts	Amps.	
		6ES8	Medium-Mu Twin Triode	B2	9AJ	
6EU7	High-Mu Twin Triode	B2	9LS	6.3	0.3	Class A Amplifier
6EU8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9JF	6.3⊕	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6EV5	Sharp-Cutoff Tetrode	A2	7EW	6.3	0.2	Class A Amplifier
6EV7	High-Mu Twin Triode	B4	9LP	6.3	0.6	Relay Control
6EW6	Sharp-Cutoff Pentode	A2	7CM	6.3	0.4	Class A Amplifier
6EW7	Dual Triode	H1	9HF	6.3	0.9	Vertical Deflection Oscillator
						Vertical Deflection Amplifier
6EX6	Beam Power Tube	F33	5BT	6.3⊕	2.25	Horizontal Deflection Amplifier
6EY6	Beam Power Tube	F9	7AC	6.3⊕	0.68	Vertical Deflection Amplifier
6EZ5	Beam Power Tube	F9	7AC	6.3	0.8	Vertical Deflection Amplifier
6EZ8	High-Mu Triple Triode	B2	9KA	6.3	0.45	Class A Amplifier
6F5 6F5-GT	High-Mu Triode	E3 F6	5M 5M1	6.3	0.3	Class A Amplifier
6F6	Power Pentode	E4	7S	6.3	0.7	Pentode Class A Amplifier
6F6-G		F26	7S1			Triode Class A Amplifier
6F6-GT		F9	7S1			Pentode Push-Pull Class A Amplifier
6F7	Low-Mu Triode—Remote-Cutoff Pentode	K5	7E	6.3	0.3	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6F8-G	Medium-Mu Twin Triode	F24	8Q	6.3	0.6	Each Unit as Class A Amplifier
6FA7	Diode—Sharp-Cutoff Twin-Plate Tetrode	B4	9MR	6.3	0.3	Freq. Divider and Complex-Wave Generator
6FD7	Dual Triode	H1	9HF	6.3	0.925	Vertical Deflection Oscillator Vertical Deflection Amplifier
6FE5	Beam Power Tube	F15	8KB	6.3	1.2	Class A Amplifier
6FG6	Electron-Ray Tube	B4	9QA	6.3	0.27	Visual Indicator
6FG7	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9GF	6.3⊕	0.45	Pentode Unit as Class A Amplifier
						Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
6FH5	Medium-Mu Triode	A2	7FP	6.3	0.2	Class A Amplifier
6FH8	Medium-Mu Triode—Triple-Plate Tetrode	B2	9KP	6.3	0.45	Tetrode Unit as Harmonic Gen.
						Triode Unit as Class A Amplifier
						Tetrode Unit as Class A Amplifier
6FM8	Twin Diode—High-Mu Triode	B2	9KR	6.3	0.45	Triode Unit as Class A Amplifier
6FQ5-A	High-Mu Triode	A2	7FP	6.3	0.18	Class A Amplifier
6FQ7	Medium-Mu Twin Triode	B4	9LP	6.3⊕	0.6	Each Unit as Class A Amplifier
6FS5	Beam Pentode	A2	7GA	6.3	0.2	Class A Amplifier
6FV6	Sharp-Cutoff Tetrode	A2	7FQ	6.3	0.2	Class A Amplifier
6FV8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9FA	6.3⊕	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6FWS	Beam Power Tube	F17	6CK	6.3	1.2	Horizontal-Deflection Amplifier
6FW8	Medium-Mu Twin Triode	B2	9AJ	6.3	0.4	Each Unit as Class A Amplifier
6GG-G	Power Pentode	F21	7S1	6.3	0.15	Pentode Class A Amplifier
6GC5	Power Pentode	H2	9EU	6.3	1.2	Class A Amplifier
6GF7	Dual Triode	C7	9QD	6.3	0.985	Vertical-Deflection Oscillator Vertical-Deflection Amplifier
6GH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	6.3⊕	0.45	Triode Unit as Horiz. Defl. Osc.
						Pentode Unit as Horiz. Defl. Osc.
6GJ5	Novar Beam Power Tube	C3	9NM	6.3	1.2	Horizontal Deflection Amplifier
6GJ8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AE	6.3⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6GK5	High-Mu Triode	A2	7FP	6.3	0.18	Class A Amplifier
6GK6	Power Pentode	B10	9QK	6.3	0.76	Class A Amplifier
6GL7	Dual Triode	F4	9BD	6.3	1.05	Vertical Deflection Oscillator Vertical-Deflection Amplifier
6GM6	Semiremote-Cutoff Pentode	A2	7CM	6.3	0.4	Class A Amplifier
6GN8	High-Mu Triode—Sharp-Cutoff Pentode	B4	9OX	6.3⊕	0.75	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6GT5	Beam Power Tube	C22	9NZ	6.3	1.2	Horizontal Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Values specified all types have heaters. ⊕ Heater with controlled warm-up time.		Type of Service
		Dim.	I. D.	Volts	Amps.	
6GV8	High-Mu Triode— Power Pentode	B10	9LY	6.3	0.0	Class A Amplifier
6GW6 6GW6/ 6DQ6	Beam Power Tube	F22	6AM	6.3⊕	1.2	Horizontal Deflection Amplifier
6GX6	Sharp-Cutoff Pentode	A2	7EN	6.3⊕	0.45	Class A Amplifier
6GY6	Sharp-Cutoff Pentode	A2	7EN	6.3⊕	0.45	Gated-AGC Amplifier and Noise Inverter
6GY8	Triple High-Mu Triode	B2	9MB	6.3	0.45	Each Unit as Class A Amplifier
6H6 6H6-GT	Twin Diode	E1 F8	7Q 7Q11	6.3	0.3	Voltage Doubler Half-Wave Rectifier
6HB6	Power Pentode	B10	9PU	6.3	0.76	Class A Amplifier
6HF8	High-Mu Triode— Sharp-Cutoff Pentode	B4	9DX	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6HJ8	Diode— Sharp-Cutoff Pentode	B2	8CY	6.3⊕	0.45	Pentode Unit as Class A Amplifier
6HR6	Semiremote— Cutoff Pentode	A2	7BK	6.3⊕	0.45	Class A Amplifier
6HS6	Sharp-Cutoff Pentode	A2	7BK	6.3⊕	0.45	Class A Amplifier
6HS8	Sharp-Cutoff Twin Pentode	B4	9FG	6.3	0.3	Class A Amplifier (With both sections operating)
6HZ6	Sharp-Cutoff Pentode	A2	—	6.3⊕	0.45	Class A Amplifier
6J5 6J5-GT	Medium-Mu Triode	E2 F7	8Q 8Q _μ	6.3	0.3	Class A Amplifier
6J6 6J6-A	Medium-Mu Twin Triode	A2	7BF	6.3 6.3⊕	0.45 0.45	Each Unit as Class A Amplifier Push-Pull Class C Amplifier
6J7 6J7-G 6J7-GT	Sharp-Cutoff Pentode	E3 F24 F7	7R 7R11 7R _μ	6.3	0.3	Pentode Class A RF Amplifier
6J8-G	Triode-Heptode Converter	F24	8H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
6JC8	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	9PA	6.3⊕	0.45	Class A Amplifier
6JH8	Beam-Deflection Tube	B4	9DP	6.3	0.3	Detector
6JK8	Dual Triode	B2	8AJ	6.3	0.40	Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heater. ⊙ Heater with controlled warmup time.</small>		Type of Service
		Dim.	S. D.	Volts	Amps.	
6J8	Quadruple Diode	B4	9PQ	6.3	0.6	Detector Service
6K5-GT	High-Mu Triode	F7	8U	6.3	0.3	Class A Amplifier
6K6-GT	Power Pentode	F6	7B1	6.3	0.4	Single-Tube Class A Amplifier Push-Pull Class A Amplifier
6K7 6K7-G 6K7-GT	Remote-Cutoff Pentode	E3 F24 F7	7R 7R1 7R2	6.3	0.3	Class A Amplifier
6K8 6K8-G 6K8-GT	Triode-Hexode Converter	E3 F24 F12	8K 8K1 8K2	6.3	0.3	Triode Unit as Oscillator Hexode Unit as Mixer
6K11	Twin High-Mu Triode— Medium-Mu Triode	L1	12BY	6.3⊙	0.6	Twin Unit as Class A Amplifier Class A Amplifier
6KA8	High-Mu Triode— Sharp-Cutoff Pentode	B4	9PV	6.3⊙	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6KL8	Diode—Sharp-Cutoff Pentode	B4	9LQ	6.3	0.3	Class A Amplifier
6KM8	Diode—Sharp-Cutoff Triple-Plate Tetrode	B4	9QG	6.3	0.3	Class A Amplifier
6L5-G	Medium-Mu Triode	F21	9Q1	6.3	0.15	Class A Amplifier
6L6 6L6-G 6L6-GB 6L6-GC	Beam Power Tube	E5 F20 F22 F22	7AC 7AC1 7AC 7AC	6.3	0.9	Single-Tube Class A Amplifier Push-Pull Class A Amplifier Push-Pull Class AB ₁ Amplifier
6L7 6L7-G	Pentagrid Mixer	E3 F24	7T 7T1	6.3	0.3	Mixer Service
6N6-G	Direct-Coupled Power Triode	F20	7AU	6.3	0.8	Class A Amplifier
6N7 6N7-GT	Medium-Mu Twin Power Triode	E4 F8	8B 8B1	6.3	0.8	Class A Amplifier (as Driver)* Class B Amplifier
6P5-GT	Medium-Mu Triode	F6	6Q1	6.3	0.3	Amplifier Detector
6P7-G	Low-Mu Triode— Remote-Cutoff Pentode	F24	7U	6.3	0.3	Amplifier and Converter
6Q7 6Q7-G 6Q7-GT	Twin Diode High-Mu Triode	E3 F24 F7	7V 7V1 7V2	6.3	0.3	Triode Unit as Class A Amplifier
6R7 6R7-G 6R7-GT	Twin Diode— Medium-Mu Triode	E3 F24 F6	7V 7V1 7V1	6.3	0.3	Triode Unit as Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dia.	S. D.	Volts	Amps.	
6S4 6S4-A	Medium-Mu Triode	B4	BAC	6.3 6.3⊕	0.6 0.6	Vertical Deflection Amplifier
6S7 6S7-G	Remote-Cutoff Pentode	E2 F24	7R 7R1	6.3	0.15	Class A Amplifier
6S8-GT	Triple Diode— High-Mu Triode	F8	BCB	6.3	0.3	Triode Unit as Class A Amplifier
6SA7 6SA7-GT	Pentagrid ConverterA	E2 F8	BR BAD	6.3	0.3	Mixer
6SB7-Y	Pentagrid ConverterA	E2	BR	6.3	0.3	Mixer
6SC7	High-Mu Twin Triode	E2	BS	6.3	0.3	Each Unit as Amplifier
6SF5 6SF5-GT	High-Mu Triode	E2 F8	BAB BAB1	6.3	0.3	Class A Amplifier
6SF7	Diode— Remote-Cutoff Pentode	E2	7AZ	6.3	0.3	Pentode Unit as Class A Amplifier
6SG7	Semiremote- Cutoff Pentode	E2	8BK	6.3	0.3	Class A Amplifier
6SH7	Sharp-Cutoff Pentode	E2	8BK	6.3	0.3	Class A Amplifier
6SJ7 6SJ7-GT	Sharp-Cutoff Pentode	E2 F7	8N 8Nk	6.3	0.3	Class A Amplifier
6SK7 6SK7-GT	Remote-Cutoff Pentode	E2 F7	8N 8Nk	6.3	0.3	Class A Amplifier
6SL7-GT	High-Mu Twin Triode	F8	8BD	6.3	0.3	Each Unit as Class A Amplifier
6SN7-GT 6SN7-GTA 6SN7-GTB	Medium-Mu Twin Triode	F8	8BD	6.3 6.3 6.3⊕	0.6 0.6 0.6	Each Unit as Class A Amplifier Each Unit as Vertical Amplifier
6SQ7 6SQ7-GT	Twin-Diode— High-Mu Triode	E2 F7	8Q 8Qk	6.3	0.3	Triode Unit as Class A Amplifier
6SR7	Twin Diode— Medium-Mu Triode	E2	8Q	6.3	0.3	Triode Unit as Class A Amplifier
6SS7	Remote-Cutoff Pentode	E2	8N	6.3	0.15	Class A Amplifier
6ST7	Twin Diode— Medium-Mu Triode	E2	8Q	6.3	0.15	Triode Unit as Amplifier
6SZ7	Twin Diode— High-Mu Triode	E2	8Q	6.3	0.15	Triode Unit as Class A Amplifier
6T4	Medium-Mu Triode	A1	7DK	6.3	0.225	Oscillator in UHF TV Receivers Class A Amplifier
6T7-G	Twin Diode— High-Mu Triode	F24	7V1	6.3	0.15	Triode Unit as Class A Amplifier
6T8 6T8-A	Triple Diode— High-Mu Triode	B2	9E	6.3 6.3⊕	0.45 0.45	Triode Unit as Class A Amplifier
6U5	Electron-Ray Tube	K3	8R	6.3	0.3	Visual Indicator
6U7-G	Remote-Cutoff Pentode	F32	7R1	6.3	0.3	Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊕ Heater with controlled warmup time.</small>		Type of Service
		Dim.	R. D.	Volts	Amps.	
6U8 6U8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	8AE	6.3	0.45	Triode Unit as Class A Amplifier
				6.3⊕	0.45	Pentode Unit as Class A Amplifier
6V3-A	Half-Wave Rectifier	B0	8BD	6.3	1.75	Television Damper Service
6V6 6V6-GT 6V6-GTA	Beam Power Tube	E4 F8 F8	7AC 7AC1 7AC1	6.3	0.45	Single-Tube Class A Amplifier
				6.3	0.45	Push-Pull Class AB ₁ Amplifier
				6.3⊕	0.45	
6V7-G	Twin Diode—Low-Mu Triode	F24	7V1	6.3	0.3	Triode Unit as Amplifier
6W4-GT	Half-Wave Rectifier	F8	4CQ	6.3	1.2	With Capacitive-Input Filter
6W6-GT	Beam Power Tube	F8	7AC1	6.3	1.2	Vertical Deflection Amplifier
6W7-G	Sharp-Cutoff Pentode	F24	7R1	6.3	0.15	Class A Amplifier
6X4	Full-Wave Rectifier	A3	8BS	6.3	0.6	With Capacitive-Input Filter
						With Inductive-Input Filter
6X5 6X5-GT	Full-Wave Rectifier	E4 F8	8S 8S1	6.3	0.6	With Capacitive-Input Filter
						With Inductive-Input Filter
6X8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	8AK	6.3	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
6Y5	Full-Wave Rectifier	K4	8J	6.3	0.8	With Capacitive-Input Filter
6Y6-G 6Y6-GA	Beam Power Tube	F20 F19	7AC1	6.3	1.25	Single-Tube Class A Amplifier
				6.3	1.25	
6Y7-G	High-Mu Twin Power Triode	F21	8B1	6.3	0.6	Class B Amplifier
6Z4	Full-Wave Rectifier	K4	8D	6.3	0.5	
6Z5	Full-Wave Rectifier	K4	8K	6.3 12.6	0.8 0.4	With Capacitive-Input Filter
6Z7-G	High-Mu Twin Power Triode	F21	8B1	6.3	0.3	Class B Amplifier
6ZY5-G	Full-Wave Rectifier	F21	8B1	6.3	0.3	With Capacitive-Input Filter
7A4	Medium-Mu Triode	J2	8AC	6.3	0.3	Amplifier
7A5	Beam Power Tube	J3	8AA	6.3	0.75	Class A Amplifier
7A6	Twin Diode	J2	7AJ	6.3	0.15	Detector Rectifier
7A7	Remote-Cutoff Pentode	J2	8V	6.3	0.3	Class A Amplifier
7A8	Octode Converter	J2	8U	6.3	0.15	Converter
7AD7	Power Pentode	J3	8V	6.3	0.6	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dim.	E. D.	Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		
				Volts	Amps.	
7AF7	Medium-Mu Twin Triode	J2	8AC	6.3	0.3	Each Unit as Class A Amplifier
7AG7	Sharp-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7AH7	Sharp-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7AU7	Medium-Mu Twin-Triode	82	8A	3.5⊕ 7.0	0.6 0.3	Each Unit as Class A Amplifier
7B4	High-Mu Triode	J2	8AC	6.3	0.3	Amplifier
7B5	Power Pentode	J3	8AE	6.3	0.4	Class A Amplifier
7B6	Twin Diode—High-Mu Triode	J2	8W	6.3	0.3	Triode Unit as Amplifier
7B7	Remote-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7B8	Pentagrid Converter	J2	8X	6.3	0.3	Converter
7C5	Beam Power Tube	J3	8AA	6.3	0.45	Class A Amplifier
7C6	Twin Diode—High-Mu Triode	J2	8W	6.3	0.15	Triode Unit as Class A Amplifier
7C7	Sharp-Cutoff Pentode	J2	8V	6.3	0.15	Class A Amplifier
7E6	Twin Diode—Medium-Mu Triode	J2	8W	6.3	0.3	Triode Unit as Amplifier
7E7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	6.3	0.3	Pentode Unit as Class A Amplifier
7EY6	Beam Power Tube	F9	7AC	7.2⊕	0.6	Vertical Deflection Amplifier
7F7	High-Mu Twin Triode	J2	8AC	6.3	0.3	Each Unit as Amplifier
7F8	Medium-Mu Twin Triode	J2	88W	6.3	0.3	Each Unit as Class A Amplifier
7G7	Sharp-Cutoff Pentode	J2	8V	6.3	0.45	Class A Amplifier
7H7	Semiremote-Cutoff Pentode	J2	8V	6.3	0.3	Class A Amplifier
7J7	Triode-Heptode Converter	J2	88L	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
7K7	Twin Diode—High-Mu Triode	J2	88F	6.3	0.3	Triode Unit as Class A Amplifier
7L7	Sharp-Cutoff Pentode	J2	8V	6.3	0.3	Class A Amplifier
7N7	Medium-Mu Twin-Triode	J3	8AC	6.3	0.6	Each Unit as Class A Amplifier
7Q7	Pentagrid Converter	J2	8AL	6.3	0.3	Converter
7R7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	6.3	0.3	Pentode Unit as Class A Amplifier
7S7	Triode-Heptode Converter	J2	88L	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dim.	B. D.	Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		
				Volts	Amps.	
7V7	Sharp-Cutoff Pentode	J2	8V	6.3	0.45	Class A Amplifier
7W7	Sharp-Cutoff Pentode	J2	8B J	6.3	0.45	Class A Amplifier
7X7	Twin Diode—High-Mu Triode	J3	8B Z	6.3	0.3	Triode Unit as Class A Amplifier
7Y4	Full-Wave Rectifier	J2	8AB	6.3	0.5	With Capacitive-Input Filter
7Z4	Full-Wave Rectifier	J3	8AB	6.3	0.9	With Capacitive-Input Filter
8AU8	Medium-Mu Triode—Sharp-Cutoff Pentode	84	8DX	8.4	0.45	Triode Unit as Class A Amplifier
	Pentode Unit as Class A Amplifier					
8AW8-A	High-Mu Triode—Sharp-Cutoff Pentode	84	8DX	8.4⊕	0.45	Triode Unit as Class A Amplifier
	Pentode Unit as Class A Amplifier					
8BA8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	84	8DX	8.4⊕	0.45	Class A Amplifier
8BH8	Medium-Mu Triode—Sharp-Cutoff Pentode	84	8DX	8.4	0.45	Triode Unit as Class A Amplifier
	Pentode Unit as Class A Amplifier					
8BN8	Twin Diode—High-Mu Triode	84	8ER	8.4	0.45	Triode Unit as Class A Amplifier
8BQ5	Power Pentode	810	8CV	8.0⊕	0.6	Class A Amplifier
						Push-Pull Class AB ₁ Amplifier
8CG7	Medium-Mu Twin Triode	84	8AJ	8.4⊕	0.45	Horizontal Deflection Oscillator
						Vertical Deflection Oscillator
8CM7	Medium-Mu Dual Triode	84	8ES	8.4⊕	0.45	Vertical Deflection Oscillator (Unit No. 1)
						Vertical Deflection Amplifier (Unit No. 2)
8CN7	Twin Diode—High-Mu Triode	82	8EN	4.2⊕ 8.4	0.45 0.225	Triode Unit as Class A Amplifier
8CS7	Medium-Mu Dual Triode	84	8EF	8.4⊕	0.45	Vertical Oscillator and Amplifier
8CX8	Medium-Mu Triode—Sharp-Cutoff Pentode	84	8DX	8.0⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
8EB8	High-Mu Triode—Sharp-Cutoff Pentode	84	8DX	8.0⊕	0.6	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
8EM5	Beam Power Tube	810	8HN	8.0⊕	0.6	Vertical Deflection Amplifier
8ET7	Twin Diode—Sharp-Cutoff Pentode	84	8LT	8.4⊕	0.6	Pentode Unit as Class A Amplifier
8FQ7	Medium-Mu Twin Triode	84	8LP	8.4⊕	0.45	Vertical and Horizontal Deflection Oscillators

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

RCA Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with con- trolled warmup time.</small>		Type of Service
		Dia.	S. D.	Volts	Amps.	
8GN8	High-Mu Triode— Sharp-Cutoff Pentode	B4	80X	8.0⊙	0.6	Class A Amplifier
8KA8	High-Mu Triode— Sharp-Cutoff Pentode	B4	80V	8.4⊙	0.45	Each Unit as Class A Amplifier
8SN7-GT [⊙]	Medium-Mu Twin Triode	F8	88D	8.4⊙	0.45	Vertical Deflection Osc. & Ampl.
9AU7	Medium-Mu. Twin Triode	B2	8A	4.7⊙ 9.4	0.45 0.225	Each Unit as Class A Amplifier
9BR7	Twin Diode— High-Mu Triode	B2	8CF	4.7⊙ 9.4	0.6 0.3	Triode Unit as Class A Amplifier
9CL8	Medium-Mu Triode— Sharp-Cutoff Tetrode	B2	8FX	9.5⊙	0.3	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
9UB-A	Medium-Mu Triode— Sharp-Cutoff Pentode	B2	8AE	9.45⊙	0.3	Triode Unit as Class A Amplifier Pentode Unit
10	Power Triode	K11	4D	7.5F	1.25	Class A Amplifier
10C8	High-Mu Triode— Sharp-Cutoff Pentode	B2	8DA	10.5⊙	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
10DE7	Dual Triode	B4	8HF	9.7⊙	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
10DR7	Dual Triode	B4	8HF	9.7⊙	0.6	Vertical Oscillator and Amplifier
10EG7	Dual Triode	F4	88D	9.7⊙	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
10EM7	Dual Triode	F3	88D	9.7⊙	0.6	Vertical Oscillator and Amplifier
10GF7	Dual Triode	C7	8QD	9.7⊙	0.6	Vertical-Deflection Oscillator Vertical-Deflection Amplifier
10HF8	High-Mu Triode— Sharp-Cutoff Pentode	B4	80X	10.5⊙	0.45	Class A Amplifier
11CY7	Dual Triode	B4	8LG	11⊙	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
11 12	Detector Amplifier	K2 K7	4F 4D	1.1F	0.25	Class A Amplifier
12A5	Power Pentode	K4	7F	6.3 12.6	0.6 0.3	Class A Amplifier
12A7	Rectifier— Power Pentode	K5	7K	12.6	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Values specified all types have heaters. ⊙ filament with controlled warmup time.</small>		Type of Service
		Dim.	S. D.	Volts	Amps.	
12AB-GT	Pentagrid Converter ⊙	F7	8A2	12.6	0.15	Converter
12AB5	Beam Power Tube	84	9EU	10.0 to 15.9	0.2 approx. at 12.6 v	Class A Amplifier Push-Pull Class AB ₁ Amplifier
12AC6	Remote-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12AD6	Pentagrid Converter ⊙	A2	7CH	10.0 to 15.9	0.15 approx. at 12.6 v	Converter
12AE6	Twin Diode— Medium-Mu Triode ⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AE6-A	Twin Diode— Medium-Mu Triode ⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AE7	Dual Triode	B2	9A	10.0 to 15.9	0.45 approx. at 12.6V	Unit No. 1 as Class A Amplifier Unit No. 2 as Class A Amplifier
12AF3	Half-Wave Rectifier	88	9CB	12.6⊙	0.6	Television Dumper Service
12AF6	Remote-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12AH7-GT	Medium-Mu Twin Triode	F8	8BE	12.6	0.15	Each Unit as Class A Amplifier
12AJ6	Twin Diode— Medium-Mu Triode ⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AL5	Twin Diode	A1	8BT	12.6	0.15	Detector-Rectifier
12AL8	Medium-Mu Triode— Power Tetrode ⊙	B4	9GS	10.0 to 15.9	0.55 approx. at 12.6 v	Triode Unit as Class A Amplifier
						Tetrode Unit as Class A Amplifier
12AQ5	Beam Power Tube	A3	7B2	12.6	0.225	Amplifier
12AS5	Beam Power Tube	A3	7CV	12.6	0.4	Class A Amplifier
12AT6	Twin Diode— High-Mu Triode	A2	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12AT7	High-Mu Twin Triode	B2	9A	6.3	0.3	Each Unit as Class A Amplifier
				12.6	0.15	
12AU6	Sharp-Cutoff Pentode	A2	7BK	12.6	0.15	Class A Amplifier
12AU7 12AU7-A	Medium-Mu Twin Triode	B2	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AV5-GA	Beam Power Tube	F19	8CK	12.6⊙	0.6	Horizontal Deflection Amplifier
12AV6	Twin Diode— High-Mu Triode	A2	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12AV7	Medium-Mu Twin-Triode	B2	9A	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12AW6	Sharp-Cutoff Pentode	A2	7CM	12.6	0.15	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
		Dia.	S. D.	Values specified all types have heaters.		
				⊙ Heater with controlled warmup time.		
		Volts	Amps.			
12AX4-GT 12AX4-GTA	Half-Wave Rectifier	F8	4CG	12.6 12.6⊙	0.6 0.6	Television Damper Service
12AX4-GTB	Half-Wave Rectifier	F8	4CG	12.6⊙	0.6	Television Damper Service
12AX7	High-Mu Twin-Triode	82	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AY3	Novar Half-Wave Rectifier	C4	9HP	12.6⊙	0.6	Television Damper Service
12AY7	Medium-Mu Twin Triode	82	9A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AZ7	High-Mu Twin Triode	82	9A	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12AZ7-A	High-Mu Twin Triode	82	9A	6.3⊙ 12.6	0.45 0.225	Each Unit as Class A Amplifier
12B4-A	Low-Mu Triode	84	9AG	6.3⊙ 12.6	0.6 0.3	Vertical Deflection Amplifier
12B8-GT	High-Mu Triode—Remote-Cutoff Pentode	F13	8T	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12BA6	Remote-Cutoff Pentode	A2	7BK	12.6	0.15	Class A Amplifier
12BA7	Pentagrid ConverterΔ	84	8CT	12.6	0.15	Converter
12BD6	Remote-Cutoff Pentode	A2	7BK	12.6	0.15	Class A Amplifier
12BE6	Pentagrid ConverterΔ	A2	7CH	12.6	0.15	Converter
12BF6	Twin Diode—Medium-Mu Triode	A2	7BT	12.6	0.15	Triode Unit as Class A Amplifier
12BH7 12BH7-A	Medium-Mu Twin Triode	84	9A	6.3⊙ 12.6	0.6 0.3	Vertical Deflection Amplifier
12BK5	Beam Power Tube	84	9BQ	12.6⊙	0.6	Class A Amplifier
12BL6	Remote-Cutoff Pentode○	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12BQ6-GTA	Beam Power Tube	F18	9AM	12.6⊙	0.6	Horizontal Deflection Amplifier
12BQ6-GTB/ 12CU6	Beam Power Tube	F18	9AM	12.6⊙	0.6	Horizontal Deflection Amplifier
12BR7	Twin Diode—High-Mu Triode	82	8CF	6.3 12.6	0.45 0.225	Triode Unit as Class A Amplifier
12BV7	Sharp-Cutoff Pentode	84	9BF	6.3 12.6	0.6 0.3	Class A Amplifier
12BY7 12BY7-A	Sharp-Cutoff Pentode	84	9BF	6.3⊙ 12.6	0.6 0.3	Class A Amplifier
12BZ6	Semiremote-Cutoff Pentode	A2	7CM	12.6	0.15	Class A Amplifier
12BZ7	High-Mu Twin Triode	84	9A	6.3 12.6	0.6 0.3	Each Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with controlled warmup time.</small>		Type of Service
		Dia.	R. O.	Volts	Amps.	
12C8	Twin Diode—Semiremote-Cutoff Pentode	E3	8E	12.6	0.15	Pentode Unit as RF Amplifier
12CA5	Beam Power Tube	A3	7CV	12.6⊙	0.6	Class A Amplifier
12CN5	Remote-Cutoff Pentode ⊙	A3	7CV	10.0 to 15.9	0.45 approx. at 12.6 v	Class A Amplifier
12CR6	Diode—Remote-Cutoff Pentode	A2	7EA	12.6	0.15	Pentode Unit as Class A Amplifier
12CS6	Pentagrid Amplifier	A2	7CH	12.6	0.15	Syst. Separator, Syst. Clipper, and Class A Amplifier
12CT8	Medium-Mu Triode—Sharp-Cutoff Pentode	B4	8DA	12.6⊙	0.3	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
12CU5/ 12C5	Beam Power Tube	A3	7CV	12.6⊙	0.6	Class A Amplifier
12CU6	Beam Power Tube	F22	6AM	12.6⊙	0.6	Horizontal Deflection Amplifier
12CX6	Remote-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12D4	Half-Wave Rectifier	F8	4CG	12.6⊙	0.6	Television Damper Service
12DB5	Beam Power Tube	B4	8QR	12.6⊙	0.6	Vertical Deflection Amplifier
12DE8	Diode—Remote-Cutoff Pentode ⊙	B2	8HG	10.0 to 15.9	0.2 approx. at 12.6 v	Pentode Unit as Class A Amplifier
12DK6	Sharp-Cutoff Pentode	A2	7CM	12.6	0.15	Class A Amplifier
12DK7	Twin Diode—Power Tetrode ⊙	B2	8HZ	10.0 to 15.9	0.5 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12DL8	Twin Diode—Power Tetrode ⊙	B4	8HR	10.0 to 15.9	0.55 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12DM4	Half-Wave Rectifier	F18	4CG	12.6⊙	0.6	Television Damper Service
12DQ6-A	Beam Power Tube	F22	6AM	12.6⊙	0.6	Horizontal Deflection Amplifier
12DQ6-B	Beam Power Tube	F22	6AM	12.6⊙	0.6	Horizontal Deflection Amplifier
12DQ7	Power Pentode	B4	8BF	6.3⊙	0.6	Class A Amplifier
				12.6	0.3	
12DS7 12DS7-A	Twin Diode—Power Tetrode ⊙	B4	8JU	10.0 to 15.9	0.4 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12DT5	Beam Power Tube	B4	8HN	12.6⊙	0.6	Diode Units Vertical Deflection Amplifier
12DT8	High-Mu Twin Triode	B2	8DE	12.6	0.15	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.


Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F)		Type of Service
				Unless specified all types have heaters. ⊙ Heater with controlled warm-up time.		
		Dim.	S. D.	Volts	Amps.	
12DU7	Twin Diode— Power Tetrode ⊙	B2	8JX	10.0 to 15.9	0.25 approx. at 12.6V	Tetrode Unit as Class A Amplifier
12DV8	Twin Diode— Power Tetrode ⊙	B4	8NR	10.0 to 15.9	0.375 approx. at 12.6 v	Class A Amplifier
12DW7	Dual Triode	B2	8A	12.6 6.3	0.15 0.3	Unit No. 1 as Class A Amplifier Unit No. 2 as Class A Amplifier
12DW8	Diode Dual-Triode	B2	8JC	12.6	0.45	Detector
12DY8	Medium-Mu Triode— Remote-Cutoff Tetrode ⊙	B2	8JD	10.0 to 15.9	0.35 approx. at 12.6V	Triode Unit as Class A Amplifier Tetrode Unit as Signal Seeker Relay
12DZ6	Remote-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EA6	Remote-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EC8	Medium-Mu Triode— Semiremote- Cutoff Pentode ⊙	B2	8FA	10.0 to 15.9	0.225 approx. at 12.6V	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12ED5	Beam Power Tube	A3	7CV	12.6⊙	0.45	Class A Amplifier
12EG6	Pentagrid Amplifier ⊙	A2	7CH	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12EH5	Power Pentode	A3	7CV	12.6⊙	0.6	Class A Amplifier
12EK6	Remote-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EL6	Twin Diode— High-Mu Triode ⊙	A2	7FB	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12EM6	Diode— Power Tetrode ⊙	B4	8HV	10.0 to 15.9	0.5 approx. at 12.6 v	Class A Amplifier
12EN6	Beam Power Tube	F8	7AC	12.6⊙	0.6	Vertical Deflec- tion Amplifier
12EQ7	Diode— Remote-Cutoff Pentode	B4	8LQ	12.6	0.15	Pentode Unit as Class A Amplifier
12EZ6	Sharp-Cutoff Pentode ⊙	A2	7BK	10.0 to 15.9	0.175 approx. at 12.6V	Class A Amplifier
12F5-GT	High-Mu Triode	F8	8M1	12.6	0.15	Amplifier
12F8	Twin Diode— Remote-Cutoff Pentode ⊙	B2	8FH	10.0 to 15.9	0.15 approx. at 12.6 v	Pentode Unit as Class A Amplifier
12FK6	Twin Diode— Low-Mu Triode ⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.


Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with controlled warmup time.</small>		Type of Service
		Dim.	B. D.	Volts	Amps.	
12FM6	Twin Diode—Medium-Mu Triode ⊙	A2	7BT	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12FQ8	Twin Double-Plate High-Mu Triode	B2	9KT	12.6	0.15	Each Unit as Class A Amplifier
12FR8	Diode—Medium-Mu Triode—Remote-Cutoff Pentode ⊙	B3	9KU	10.0 to 15.9	0.32 approx. at 12.6V	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12FV7	Medium-Mu Twin Triode	B4	9A	6.3 to 12.6	0.9 to 0.45	Each Unit as Class A Amplifier
12FX8	Medium-Mu Triode—Pentagrid Converter ⊙	B3	9KV	10.0 to 15.9	0.3 approx. at 12.6V	Triode Unit as Class A Amplifier Pentagrid Unit as Converter
12GA6	Pentagrid Converter ⊙	A2	7CH	10.0 to 15.9	0.15 approx. at 12.6V	Converter
12GC6	Beam Power Tube	F22	8JX	12.6	0.6	Horizontal Deflection Amplifier
12GJ5	Sovax Beam Power Tube	C3	9NM	12.6 ⊙	0.6	Horizontal Deflection Amplifier
12GT5	Beam Power Tube	C2	9MZ	12.6 ⊙	0.6	Horizontal Deflection Amplifier
12GW6 12GW6/ 12DQ6	Beam Power Tube	F22	8AM	12.6 ⊙	0.6	Horizontal Deflection Amplifier
12H6	Twin Diode	E1	7Q	12.6	0.15	Detector Rectifier
12J5-GT	Medium-Mu Triode	F7	6Q1	12.6	0.15	Amplifier
12J7-GT	Sharp-Cutoff Pentode	F7	7R _μ	12.6	0.15	Amplifier
12J8	Twin Diode—Power Tetrode ⊙	B2	9OC	10.0 to 15.9	0.325 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12K5	Power Tetrode ⊙	A3	7EK	10.0 to 15.9	0.4 approx. at 12.6 v	Class A Amplifier
12K7-GT	Remote-Cutoff Pentode	F7	7R _μ	12.6	0.15	Amplifier
12K8	Triode-Hexode Converter	E3	8K	12.6	0.15	Oscillator Mixer
12KL8	Diode—Sharp-Cutoff Pentode	B4	9LQ	12.6 ⊙	0.15	Class A Amplifier
12L6-GT	Beam Power Tube	F8	7AC1	12.6 ⊙	0.6	Class A Amplifier
12Q7-GT	Twin Diode—High-Mu Triode	F7	7V _μ	12.6	0.15	Triode Unit as Amplifier
12R5	Beam Power Tube	A3	7CV	12.6 ⊙	0.6	Vertical Deflection Amplifier
12S8-GT	Triple Diode—High-Mu Triode	F8	9CB	12.6	0.15	Triode Unit as Class A Amplifier
12SA7 12SA7-GT	Pentagrid Converter ⊙	E2 F8	8R 8AD	12.6	0.15	Converter

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heater. ⊙ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
		12SC7	High-Mu Twin Triode	E2	8S	
12SF5 12SF5-GT	High-Mu Triode	E2 F8	8AB 8AB;	12.6	0.15	Class A Amplifier
12SF7	Diode— Remote-Cutoff Pentode	E2	7AZ	12.6	0.15	Pentode Unit as Amplifier
12SG7	Semi-remote-Cutoff Pentode	E2	8BK	12.6	0.15	Class A Amplifier
12SH7	Remote-Cutoff Pentode	E2	8BK	12.6	0.15	Class A Amplifier
12SJ7 12SJ7-GT	Sharp-Cutoff Pentode	E2 F7	8N 8N μ	12.6	0.15	Class A Amplifier
12SK7 12SK7-GT	Remote-Cutoff Pentode	E2 F7	8N 8N μ	12.6	0.15	Class A Amplifier
12SL7-GT	High-Mu Twin Triode	F8	8BD	12.6	0.15	Each Unit as Class A Amplifier
12SN7-GT	Medium-Mu Twin Triode	F8	8BD	12.6	0.3	Each Unit as Class A Amplifier
12SN7-GTA	Medium-Mu Twin Triode	F8	8BD	12.6	0.3	Class A Amplifier Vertical Defl. Amp.
12SQ7 12SQ7-GT	Twin Diode— High-Mu Triode	E2 F7	8Q 8Q μ	12.6	0.15	Triode Unit as Class A Amplifier
12SR7 12SR7-GT	Twin Diode— Medium-Mu Triode	E2 F8	8Q 8Q μ	12.6	0.15	Triode Unit as Class A Amplifier
12U7	Medium-Mu Twin Triode	B2	7CK	10.0 to 15.9	0.15 approx. at 12.6 v	Each Unit as Class A Amplifier
12V6-GT	Beam Power Tube ..	F8	7AC;	12.6	0.225	Amplifier
12W6-GT	Beam Power Tube	F8	7AC;	12.6⊙	0.6	Vertical Deflection Amplifier
12X4	Full-Wave Rectifier	A3	8BS	12.6	0.3	Rectifier
12Z3	Half-Wave Rectifier	K4	4G	12.6	0.3	With Capacitive-Input Filter
13DE7	Dual Triode	B4	8HF	13.0⊙	0.45	Vertical Deflection Oscillator (Unit No. 1)
						Vertical Deflection Amplifier (Unit No. 2)
13DR7	Dual Triode	B4	8HF	13.0⊙	0.45	Vert. Deflect. Osc. Vert. Deflect. Amp.
13EM7	Dual Triode	F3	8BD	13.0⊙	0.45	Vert. Deflect. Osc. Vert. Deflect. Amp.
13FD7	Dual Triode	H1	8HF	13.0⊙	0.45	Vertical Deflection Oscillator (Unit No. 1)
						Vertical Deflection Amplifier (Unit No. 2)
13GF7	Dual Triode	C7	8QD	13⊙	0.45	Vertical Deflection Oscillator Vertical Deflection Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with controlled warmup time.</small>		Type of Service
		Dia.	L. B.	Volts		
				Amps.		
14A4	Medium-Mu Triode	J2	8AC	12.6	0.15	Class A Amplifier
14A5	Beam Power Tube	J2	6AA	12.6	0.15	Class A Amplifier
14A7	Remote-Cutoff Pentode	J2	8V	12.6	0.15	Class A Amplifier
14AF7	Medium-Mu Twin-Triode	J2	8AC	12.6	0.15	Each Unit as Class A Amplifier
14B6	Twin Diode—High-Mu Triode	J2	8W	12.6	0.15	Triode Unit as Class A Amplifier
14B8	Pentagrid Converter	J2	8X	12.6	0.15	Converter
14C5	Beam Power Tube	J3	6AA	12.6	0.225	Class A Amplifier
14C7	Sharp-Cutoff Pentode	J2	8V	12.6	0.15	Class A Amplifier
14E6	Twin Diode—Medium-Mu Triode	J2	8W	12.6	0.15	Triode Unit as Class A Amplifier
14E7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	12.6	0.15	Pentode Unit as Class A Amplifier
14F7	High-Mu Twin Triode	J2	8AC	12.6	0.15	Each Unit as Class A Amplifier
14F8	Medium-Mu Twin Triode	J2	8BW	12.6	0.15	Each Unit as Class A Amplifier
14GT8	Twin Diode—High-Mu Triode	B2	8KR	14.0	0.15	Triode Unit as Class A Amplifier
14H7	Semiremote-Cutoff Pentode	J2	8V	12.6	0.15	Class A Amplifier
14J7	Triode-Heptode Converter	J2	8BL	12.6	0.15	Converter
14N7	Medium-Mu Twin Triode	J3	8AC	12.6	0.3	Each Unit as Class A Amplifier
14Q7	Pentagrid Converter	J2	8AL	12.6	0.15	Converter
14R7	Twin Diode—Remote-Cutoff Pentode	J2	8AE	12.6	0.15	Pentode Unit as Class A Amplifier
15	Sharp-Cutoff Pentode	K8	8F	2.0	0.22	Class A Amplifier
15HB6	Power Pentode	B18	8PU	14.7⊙	0.3	Class A Amplifier
17AV5-GA	Beam Power Tube	F19	8CK	16.8⊙	0.45	Horizontal Deflection Amplifier
17AX4-GT	Half-Wave Rectifier	F6	4CG	16.8⊙	0.45	Television Damper Service
17AX4-GTA	Half-Wave Rectifier	F6	4CG	16.8⊙	0.45	Television Damper Service
17AY3	Novar Half-Wave Rectifier	C4	8HP	16.8⊙	0.45	Television Damper Service
17BH3	Novar Half-Wave Rectifier	C4	8HP	17.0⊙	0.6	Television Damper Service
17BQ6-GTB	Beam Power Tube	F18	8AM	16.8⊙	0.45	Horizontal Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ● Heater with controlled warmup time		Type of Service
		Dim.	B. D.	Volts	Amps.	
17C5	Beam Power Tube	A3	7CV	16.8⊕	0.45	Class A Amplifier
17C9	Sharp-Cutoff Twin Tetrode	G4	10F	16.8	0.15	Each Unit as Class A Amplifier
17D4	Half-Wave Rectifier	F5	4CG	16.8⊕	0.45	Television Damper Service
17DE4	Half-Wave Rectifier	F15	4CG	17.0⊕	0.6	Television Damper Service
17DM4	Half-Wave Rectifier	F15	4CG	16.8⊕	0.45	Television Damper Service
17DQ6-A	Beam Power Tube	F22	8AM	16.8⊕	0.45	Horizontal Deflection Amplifier
17DQ6-B	Beam Power Tube	F22	8AM	16.8⊕	0.45	Horizontal Deflection Amplifier
17GJ5	Narrow-Beam Power Tube	C3	9NM	16.8⊕	0.45	Horizontal Deflection Amplifier
17GT5	Beam Power Tube	C2	9M2	16.8⊕	0.45	Horizontal Deflection Amplifier
17GW6 17GW6/ 17DQ6	Beam Power Tube	F22	8AM	16.8⊕	0.45	Horizontal Deflection Amplifier
17H3	Half-Wave Rectifier	B4	9FK	17.5⊕	0.3	Television Damper Service
18A5	Beam Power Tube	F9	9CK	18.5⊕	0.3	Horizontal Deflection Amplifier
18FW6 18FW6-A	Remote-Cutoff Pentode	A2	7CC	18.0	0.1	Class A Amplifier
		A2	7CC	18.0⊕	0.1	
18FX6 18FX6-A	Pentagrid Converter	A2	7CH	18.0	0.1	Converter
		A2	7CH	18.0⊕	0.1	
18FY6 18FY6-A	Twin Diode—High-Mu Triode	A2	7BT	18.0	0.1	Triode Unit as Class A Amplifier
		A2	7BT	18.0⊕	0.1	
18GD6-A	Sharp-Cutoff Pentode	A2	7BK	18.0⊕	0.1	Class A Amplifier
19	High-Mu Twin Power Triode	K4	6C	2.0F	0.26	Amplifier
19AU4	Half-Wave Rectifier	F15	4CG	18.9⊕	0.6	Television Damper Service
19AU4-GTA	Half-Wave Rectifier	F15	4CG	18.9⊕	0.6	Television Damper Service
19BG6-G 19BG6-GA	Beam Power Tube	F60 F33	5BT	18.9	0.3	Horizontal Deflection Amplifier
19CL8-A	Medium-Mu Triode—Sharp-Cutoff Tetrode	F1	6FX	18.9⊕	0.15	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
19EA8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	8AE	18.9⊕	0.15	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
19HR6	Semiremote-Cutoff Pentode	A2	7BK	18.9⊕	0.15	Class A Amplifier
19HS6	Sharp-Cutoff Pentode	A2	7BK	18.9⊕	0.15	Class A Amplifier
19J6	Medium-Mu Twin Triode	A2	7BF	18.9	0.15	Each Unit as Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with controlled warm-up time.</small>		Type of Service
		Dim.	B. D.	Volts	Amps.	
19T8	Triple Diode—High-Mu Triode	B2	9C	18.9	0.15	Triode Unit as Class A Amplifier
19X8	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9AK	18.9	0.15	Converter
20	Power Triode	F18	4D	3.3P	0.132	Class A Amplifier
20EQ7	Diode—Remote-Cutoff Pentode	B4	9LQ	20.0	0.1	Pentode Unit as Class A Amplifier
20EZ7	High-Mu Twin Triode	B2	9PG	20.0	0.1	Each Unit as Class A Amplifier
21EX6	Beam Power Tube	F33	9BT	21.5⊙	0.6	Horizontal Deflection Amplifier
22	Sharp-Cutoff Tetrode	K10	4K	3.3P	0.132	Screen-Grid RF Amplifier
22BH3	Novar Half-Wave Rectifier	C4	9HP	22.4⊙	0.45	Television Damper Service
22DE4	Half-Wave Rectifier	F15	4CG	22.4⊙	0.45	Television Damper Service
24-A	Sharp-Cutoff Tetrode	K10	9E	2.5	1.75	Screen-Grid RF Amplifier
25A6 25A6-GT	Power Pentode	E4 F6	7S 7S1	25.0	0.3	Class A Amplifier
25A7-GT	Rectifier—Power Pentode	F6	8F	25.0	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier
25AC5-GT	High-Mu Power Triode	F6	9Q1	25.0	0.3	Amplifier
25AV5-GA	Beam Power Tube	F18	8CK	25.0	0.3	Horizontal Deflection Amplifier
25AX4-GT	Half-Wave Rectifier	F6	4CG	25	0.3	Television Damper Service
25B5	Direct-Coupled Power Amplifier	K8	8D	25.0	0.3	Amplifier
25B6-G	Power Pentode	F20	7S1	25.0	0.3	Class A Amplifier
25B8-GT	High-Mu Triode—Remote-Cutoff Pentode	F6	8T	25.0	0.15	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
25BK5	Beam Power Tube	B4	9BQ	25.0	0.3	Class A Amplifier
25BQ6-GT 25BQ6-GTB/ 25CU6	Beam Power Tube	F18	8AM	25.0	0.3	Horizontal Deflection Amplifier
25C5	Beam Power Tube	A3	7CV	25.0	0.3	Class A Amplifier
25C6-G	Beam Power Tube	F20	7AC1	25.0	0.3	Class A Amplifier
25CA5	Beam Power Tube	A3	7CV	25.0	0.3	Class A Amplifier
25CD6-GA 25CD6-GB	Beam Power Tube	F40 F33	9BT 9BT	25⊙ 25⊙	0.6	Horizontal Deflection Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.


Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊕ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
25DN6	Beam Power Tube	F33	8BT	25.0⊕	0.6	Horizontal Deflection Amplifier
25EC6	Beam Power Tube	F20	8BT	25.0⊕	0.6	Horizontal Deflection Amplifier
25EH5	Power Pentode	A3	7CV	25.0	0.3	Class A Amplifier
25F5	Beam Power Tube	A3	7CV	25.0	0.15	Class A Amplifier
25F5A	Beam Power Tube	A3	7CV	25⊕	0.15	Class A Amplifier Push-Pull Class A Amplifier
25L6	Beam Power Tube	E4	7AC	25.0	0.3	Amplifier
25L6-GT	Beam Power Tube	F8	7AC1	25.0	0.3	Amplifier
25N6-G	Direct-Coupled Power Amplifier	K8	7W	25.0	0.3	Class A Amplifier
25W4-GT	Half-Wave Rectifier	F8	4CQ	25.0	0.3	Television Damper Service
25Y5	Rectifier-Doubler	K4	6E	25.0	0.3	Half-Wave Rectifier
25Z5	Rectifier-Doubler	K4	6E	25.0	0.3	Rectifier-Doubler
25Z6	Rectifier-Doubler	E4	7Q	25.0	0.3	Voltage Doubler
25Z6-GT	Rectifier-Doubler	F8	7Q1	25.0	0.3	Half-Wave Rectifier
26	Medium-Mu Triode	K8	4D	1.5F	1.05	Class A Amplifier
27	Low-Mu Triode	K4	6A	2.5	1.75	Class A Amplifier
30	Medium-Mu Triode	K4	4D	2.0F	0.06	Amplifier
31	Power Triode	K4	4D	2.0F	0.13	Class A Amplifier
32	Sharp-Cutoff Tetrode	K10	4K	2.0F	0.06	Class A Amplifier
32ET5	Power Pentode	A3	7CV	32.0	0.1	Class A Amplifier
32L7-GT	Rectifier-Beam Power Tube	F7	8Z	32.5	0.3	Class A Amplifier Half-Wave Rectifier
33	Power Pentode	K8	8K	2.5F	0.26	Class A Amplifier
34	Remote-Cutoff Pentode	K10	4M	2.0F	0.06	Screen-Grid RF Amplifier
34GD5 34GD5-A	Beam Power Tube	A3 A3	7CV 7CV	34.0 34.0⊕	0.1 0.1	Class A Amplifier
35	Remote-Cutoff Tetrode	K10	8E	2.5	1.75	Screen-Grid RF Amplifier
35A5	Beam Power Tube	J3	6AA	35.0	0.15	Single-Tube Class A Amplifier
35B5	Beam Power Tube	A3	7BZ	35.0	0.15	Class A Amplifier
35C5	Beam Power Tube	A3	7CV	35.0	0.15	Class A Amplifier

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊙ Heater with controlled warm-up time.</small>		Type of Service
		Øth.	S. D.	Volts	Amps.	
35DZ8	High-Mu Triode— Power Pentode	B10	8JE	35.0	0.15	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
35EH5	Power Pentode	A3	7CV	35.0	0.15	Class A Amplifier
35GL6	Beam Power Tube	A3	7FZ	35.0	0.15	Class A Amplifier
35L6-GT	Beam Power Tube	F8	7AC1	35.0	0.15	Single-Tube Class A Amplifier
35W4	Half-Wave Rectifier <small>Heater Tap for Pilot</small>	A3	8BQ	35.0	0.15	With Capacitive- Input Filter
35Y4	Half-Wave Rectifier <small>Heater Tap for Pilot</small>	J3	8AL	35.0	0.15	With Capacitive- Input Filter
35Z3	Half-Wave Rectifier	J3	4Z	35.0	0.15	With Capacitive- Input Filter
35Z4-GT	Half-Wave Rectifier	F8	8AA	35.0	0.15	With Capacitive- Input Filter
35Z5-GT	Half-Wave Rectifier <small>Heater Tap for Pilot</small>	F8	8AD	35.0	0.15	With Capacitive- Input Filter
36	Sharp-Cutoff Tetrode	K8	8E	6.3	0.3	Screen-Grid RF Amplifier
36AM3	Half-Wave Rectifier	B1	8BQ	36.0	0.1	With Capacitive- Input Filter
36AM3-A	Half-Wave Rectifier	A3	8BQ	36.0	0.1	With Capacitive- Input Filter
36AM3-B	Half-Wave Rectifier	A3	8BQ	36.0⊙	0.1	With Capacitive- Input Filter
37	Medium-Mu Triode	K4	8A	6.3	0.3	Class A Amplifier
38	Power Pentode	K8	8F	6.3	0.3	Class A Amplifier
39/44	Remote-Cutoff Pentode	K8	8F	6.3	0.3	Class A Amplifier
40	Medium-Mu Triode	K8	4D	5.0F	0.25	Class A Amplifier
41	Power Pentode	K4	8B	6.3	0.4	Amplifier
42	Power Pentode	K8	8B	6.3	0.7	Amplifier
43	Power Pentode	K8	8B	25.0	0.3	Amplifier
45	Power Triode	K8	4D	2.5F	1.5	Class A Amplifier
45Z3	Half-Wave Rectifier	A2	8AM	45.0	0.075	Half-Wave Rectifier
45Z5-GT	Half-Wave Rectifier <small>Heater Tap for Pilot</small>	F8	8AD	45.0	0.15	With Capacitive- Input Filter
46	Dual-Grid Power Amplifier	K11	8C	2.5F	1.75	Class A Amplifier □
47	Power Pentode	K11	8B	2.5F	1.75	Class A Amplifier
48	Power Tetrode	K11	8A	30.0	0.4	Class A Amplifier
49	Dual-Grid Power Amplifier	K8	8C	2.0F	0.12	Class A Amplifier □
50	Power Triode	K12	4D	7.5F	1.25	Class A Amplifier
50A5	Beam Power Tube	J3	8AA	50.0	0.15	Class A Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.


 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊙ Heater with controlled warmup time.		Type of Service
		Dim.	B. D.	Volts	Amps.	
50B5	Beam Power Tube	A3	7BZ	50.0	0.15	Class A Amplifier
50C5	Beam Power Tube	A3	7CV	50.0	0.15	Class A Amplifier
50C6-G	Beam Power Tube	F2B	7AC	50.0	0.15	Single-Tube Class A Amplifier
50DC4	Half-Wave Rectifier Heater Tap for Pilot	A3	8BQ	50.0	0.15	With Capacitive Input Filter
Pilot Lamp Between Pins 4 and 6						
50EH5	Power Pentode	A3	7CV	50.0	0.15	Class A Amplifier
50FE5	Beam Power Tube	A3	8KB	50.0	0.15	Class A Amplifier
50FK5	Power Pentode	A3	7CV	50.0	0.1	Class A Amplifier
50L6-GT	Beam Power Tube	F8	7AC1	50.0	0.15	Single-Tube Class A Amplifier
50X6	Rectifier-Doubler	J3	7DX	50.0	0.15	Rectifier-Doubler
50Y6-GT	Rectifier-Doubler	F8	7Q1	50.0	0.15	Rectifier-Doubler
50Y7-GT	Rectifier-Doubler Heater Tap for Pilot	F8	8AN	50.0	0.15	Voltage Doubler Half-Wave Rectifier
Pilot Lamp Between Pins 6 and 7						
50Z7-G	Rectifier-Doubler Heater Tap for Pilot	F21	8AN	50.0	0.15	Voltage Doubler Half-Wave Rect.
Pilot Lamp Between Pins 6 and 7						
53	High-Mu Twin Power Triode	K8	7B	2.5	2.0	Amplifier
55	Twin Diode—Low-Mu Triode	K5	8G	2.5	1.0	Triode Unit as Amplifier
56	Medium-Mu Triode*	K4	8A	2.5	1.0	Amplifier Detector
57	Sharp-Cutoff Pentode	K9	8F	2.5	1.0	Amplifier Detector
58	Remote-Cutoff Pentode	K9	8F	2.5	1.0	Amplifier Mixer
59	Triple-Grid Power Amplifier	K11	7A	2.5	2.0	Class A Amplifier
60FX5	Power Pentode	A3	7CV	60.0	0.1	Class A Amplifier
70L7-GT	Rectifier-Beam Power Tube	F8	8AA	70.0	0.15	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
71-A	Power Triode	K8	4D	5.0P	0.25	Class A Amplifier
75	Twin Diode—High-Mu Triode	K5	8G	6.3	0.3	Amplifier
76	Medium-Mu Triode	K4	8A	6.3	0.3	Class A Amplifier
77	Sharp-Cutoff Pentode	K5	8F	6.3	0.3	Class A Amplifier
78	Remote-Cutoff Pentode	K5	8F	6.3	0.3	Amplifier Mixer
79	High-Mu Twin Power Triode	K5	8H	6.3	0.6	Class B Amplifier
80	Full-Wave Rectifier	K8	4C	5.0P	2.0	With Capacitive-Input Filter With Inductive-Input Filter

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) <small>Unless specified all types have heaters. ⊕ Heater with controlled warmup time.</small>		Type of Service
		Dia.	B. D.	Volts	Amps.	
81	Half-Wave Rectifier	K12	4B	7.5F	1.25	With Capacitive-Input Filter
82	Full-Wave Rectifier	K8	4C	2.5F	3.0	With Capacitive-Input Filter
83-v	Full-Wave Rectifier	K8	4AD	5.0	2.0	
84/6Z4	Full-Wave Rectifier	K4	5D	6.3	0.5	With Capacitive-Input Filter
						With Inductive-Input Filter
85	Twin Diode—Low-Mu Triode	K3	8C	6.3	0.3	Triode Unit as Class A Amplifier
89	Triple-Grid Power Amplifier	K4	8F	6.3	0.4	Class A Amplifier
117L7-GT/ 117M7-GT	Rectifier-Beam Power Tube	F9	8A0	117	0.09	Amplifier Unit as Class A Amplifier
						Half-Wave Rectifier
117N7-GT	Rectifier-Beam Power Tube	F9	8AV	117	0.09	Amplifier Unit as Class A Amplifier
						Half-Wave Rectifier
117P7-GT	Rectifier-Beam Power Tube	F9	8AV	117	0.09	
117Z3	Half-Wave Rectifier	A3	4CB	117	0.04	With Capacitive-Input Filter
117Z4-GT	Half-Wave Rectifier	F42	8AA	117	0.04	With Capacitive-Input Filter
117Z6-GT	Rectifier-Doubler	F6	7Q1	117	0.075	Voltage Doubler
						Half-Wave Rectifier
5879	Sharp-Cutoff Pentode	82	8AD	6.3	0.15	Class A Amplifier
5881	Beam Power Tube	F18	7AC	6.3	0.9	Single Tube Class A Amplifier
						Push-Pull Class A Amplifier
						Push-Pull Class AB ₁ Amplifier
6973	Beam Power Tube	84	8EU	6.3	0.45	Push-Pull Class AB ₁ Amplifier
						Push-Pull ⊕ Class AB ₁ Amplifier
7025	High-Mu Twin-Triode	82	8A	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
7027	Beam Power Tube	F26	8HV	6.3	0.9	Push-Pull Class AB ₁ Amplifier
						Push-Pull Class AB ₁ Amplifier

Note: For Key to Tube Dimensions, Description, and Basing Diagrams, See Pages 58-59 and 60-74.

 Type	Name	Tube Dimensions and Basing Diagram		Heater or Filament (F) Unless specified all types have heaters. ⊙ Heater with controlled warmup time.		Type of Service
		Dim.	E. O.	Volts	Amps.	
7027-A	Beam Power Tube	F20	8HY	6.3	0.9	Push-Pull Class AB ₂ Amplifier
						Push-Pull Class AB ₂ Amplifier
7189	Power Pentode	B10	8BL	6.3	0.76	Push-Pull Class AB ₂ Amplifier
7199	Medium-Mu Triode—Sharp-Cutoff Pentode	B2	9JT	6.3	0.45	Triode Unit as Class A Amplifier
						Pentode Unit as Class A Amplifier
7247	Dual Triode	B2	9A	12.6	0.15	Unit No. 1 as Class A Amplifier
				6.3	0.3	Unit No. 2 as Class A Amplifier
7408	Beam Power Tube	F8	7AC	6.3	0.45	Class A Amplifier
7543	Sharp-Cutoff Pentode	A2	7BK	6.3	0.3	Class A Amplifier
7591	Beam Power Tube	F8	8KQ	6.3	0.8	Class A Amplifier
						Push-Pull Class AB ₂ Amplifier
7695	Beam Power Tube	H2	9MQ	50	0.15	Class A Amplifier
						Push-Pull Class AB ₂ Amplifier
7868	Novar Power Pentode	C1	9NZ	6.3	0.8	Class A Amplifier
EM84/ 6FG6	Electron-Ray Tube	B0	9GA	6.3	0.27	Visual Indicator

Note: For footnotes, see page 57.

Note: Discontinued types are shown in lightface.

EXPLANATION OF FOOTNOTES

Types with octal bases have *Miniature Cap*; all others have *Small Cap*.

- For use in automobile receivers which operate directly from 12-volt storage batteries.
- ▲ Grids # 2 and # 4 are screen. Grid # 3 is signal-input control grid.
- Grids # 3 and # 5 are screen. Grid # 4 is signal-input control grid.
- Grid # 2 tied to plate.
- Grid # 1 is control grid. Grid # 2 is screen. Grid # 3 tied to cathode.
- ‡ Grid # 1 is control grid. Grids # 2 and # 3 tied to plate.
- ▲ Grids # 2 and # 4 are screen. Grid # 1 is signal-input control grid.
- ♦ Grids # 1 and # 2 tied together.
- ‡ This diagram is like the one having the same designation except that Pin No. 1 has no connection.
- * This diagram is like the one having the same designation except that base sleeve is connected to Pin No. 1.
- + Each unit.
- ▲▲ Both grids connected together; likewise both cathodes.
- ° Both grids connected together; likewise, both plates.
- ★ For Grid-leak Detection—plate volts, 45; grid return to + filament or to cathode.
- √ With separate excitation and triode unit grounded.
- Mercury-Vapor Type.
- Superseded by 10-Y. See Power and Gas Tubes Booklet PG-101D.
- ▣ Grid-No. 2 of each tube connected to tap on plate winding of output transformer. This arrangement permits approximately 40% to 50% of the plate signal voltage to be applied to Grid-No. 2 of each output tube.
- ‡‡ This diagram is like the one having the same designation except that Pin No. 1 is connected to internal shield.
- 6AW8-A Features a plate current characteristic with a controlled knee.

NOTE 1: Subscript 1 on class of amplifier service (as AB₁) indicates that grid current does not flow during any part of input service.

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall		Description
	Length	x Diameter	
A1	1-3/4"	x 3/4"	7-Pin Miniature Types
A2	2-1/8"	x 3/4"	
A3	2-5/8"	x 3/4"	
B1	1-3/4"	x 7/8"	9-Pin Miniature Types
B2	2-3/16"	x 7/8"	
B3	2-7/16"	x 7/8"	
B4	2-5/8"	x 7/8"	
B5	2-11/16"	x 7/8"	
B6	2-3/4"	x 7/8"	
B7	2-13/32"	x 7/8"	
B8	2-27/32"	x 7/8"	
B9	2-7/8"	x 7/8"	
B10	3-1/16"	x 7/8"	
B11	3-9/32"	x 7/8"	
B12	3-1/2"	x 7/8"	
B13	2-13/16"	x 7/8"	
C1	3.24"	x 1.188"	Novar Types
C2	3.54"	x 1.562"	
C3	3.55"	x 1.562"	
C4	3.84"	x 1.188"	
C5	4.14"	x 1.562"	
C6	3.08"	x 1.188"	
C7	3.00"	x 1.188"	
D1	0.800"	x 0.440"	Novistor Type
E1	1-3/4"	x 1-5/16"	Octal-Metal Types
E2	2-5/8"	x 1-5/16"	
E3	3-1/8"	x 1-5/16"	
E4	3-1/4"	x 1-5/16"	
E5	4-5/16"	x 1-5/8"	
F1	2-5/16"	x 1-5/16"	Octal-Glass Types
F2	2-5/8"	x 1-1/16"	
F3	2-7/8"	x 1-9/32"	
F4	3"	x 1-9/32"	Octal-Glass Types
F5	3-1/16"	x 1-9/32"	
F6	3-5/16"	x 1-9/32"	
F7	3-5/16"	x 1-5/16"	
F8	3-3/8"	x 1-9/32"	
F9	3-7/16"	x 1-9/32"	
F10	3-15/32"	x 1-7/16"	
F11	3.562"	x 1.562"	
F12	3-9/16"	x 1-9/32"	
F13	3-9/16"	x 1-5/16"	
F14	3-5/8"	x 1-9/32"	
F15	3-13/16"	x 1-9/32"	
F16	3-7/8"	x 1-9/32"	
F17	3-7/8"	x 1-9/16"	

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall		Description
	Length	x Diameter	
F18	4"	x 1-3/16"	Octal-Glass Types
F19	4"	x 1-9/16"	
F20	4-1/16"	x 1-9/32"	
F21	4-1/8"	x 1-9/16"	
F22	4-1/4"	x 1-9/16"	
F23	4-5/16"	x 1-5/8"	
F24	4-15/32"	x 1-9/16"	
F25	4-5/8"	x 1-9/16"	
F26	4-5/8"	x 1-5/8"	
F27	4-5/8"	x 1-23/32"	
F28	4-5/8"	x 1-13/16"	
F29	4-3/4"	x 1-9/16"	
F30	4-3/4"	x 1-11/16"	
F31	4-3/4"	x 1-23/32"	
F32	4-7/8"	x 1-9/16"	
F33	5"	x 1-9/16"	
F34	5"	x 1-23/32"	
F35	5-1/8"	x 1-23/32"	
F36	5-1/8"	x 2-1/16"	
F37	5-3/16"	x 1-1/2"	
F38	5-7/32"	x 1-23/32"	
F39	5-5/16"	x 2-1/16"	
F40	5-11/16"	x 2-1/16"	
F41	2-7/8"	x 1-5/16"	
G1	2.190"	x 0.875"	10-Pin Miniature Type
H1	2.90"	x 1.188"	9-Pin T9-Bulb Types
H2	3.23"	x 1.188"	
J1	2-9/32"	x 1-3/16"	Lock-In Types
J2	2-25/32"	x 1-3/16"	
J3	3-5/32"	x 1-3/16"	
K1	1-3/4"	x 0.400"	Other Types
K2	4-1/8"	x 1-3/16"	
K3	4-3/16"	x 1-3/16"	
K4	4-3/16"	x 1-9/16"	
K5	4-17/32"	x 1-9/16"	
K6	4-19/32"	x 1-9/16"	
K7	4-11/16"	x 1-7/16"	
K8	4-11/16"	x 1-13/16"	
K9	4-15/16"	x 1-9/16"	
K10	5-1/32"	x 1-13/16"	
K11	5-3/8"	x 2-1/16"	
K12	6-1/4"	x 2-7/16"	
L1	1.875"	x 1.188"	12-Pin T9-Bulb Type
L2	2.596"	x 1.188"	

LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

BC - Base Sleeve
BS - Base Shell
DJ - Deflecting Electrode
ES - External Shield
F - Filament
F_M - Filament Mid-Tap
FT - Fluorescent Target

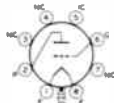
G - Grid
H - Heater
H_L - Heater Tap for
 Panel Lamp
H_M - Heater Mid-Tap
HS - Heater Shield

IC - Internal Connection-
 Do Not Use
IS - Internal Shield
K - Cathode
NC - No Connection
P - Plate (Anode)

RC - Ray-Control Electrode
S - Shell
TA - Target
U - Unit
● - Gas-Type Tube



3C



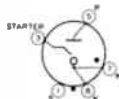
4AA



4AD



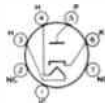
4B



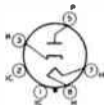
4BU



4C



4CB



4CG



4D



4E



4F



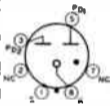
4G



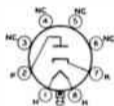
4K



4M



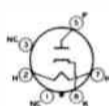
4R



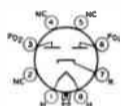
4Z



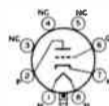
5A



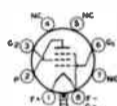
5AA



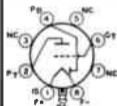
5AB



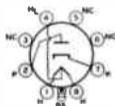
5AC



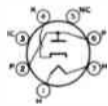
5AD



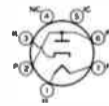
5AG



5AL



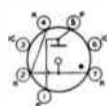
5AM



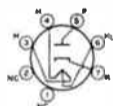
5AP



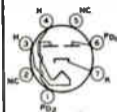
5B



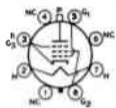
5BO



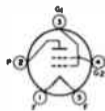
5BO



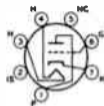
5BS



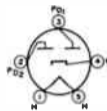
5BT



5C



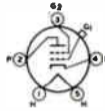
5CE



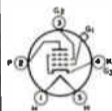
5D



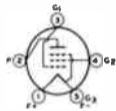
5DE



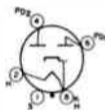
5E



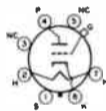
5F



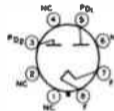
5K



5L



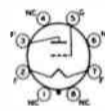
5M



5Q



5R



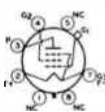
5S



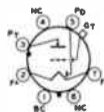
5T



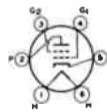
5U



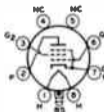
5Y



5Z



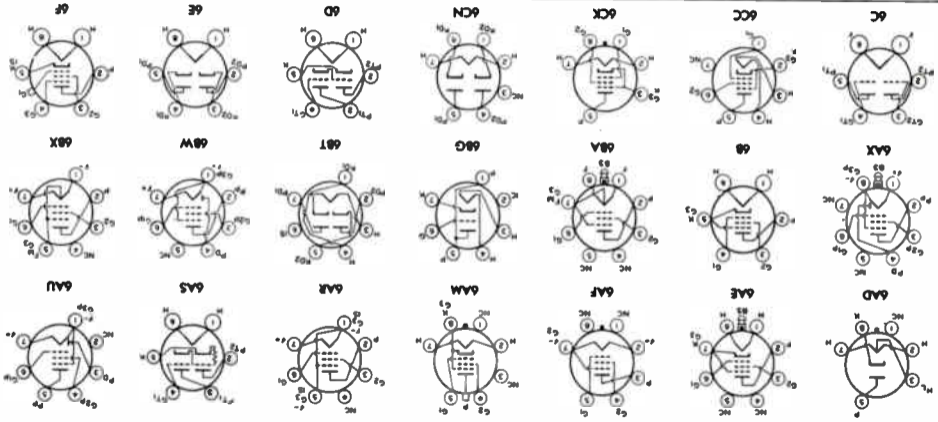
6A

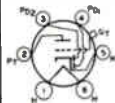


6AA

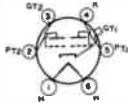


6AB

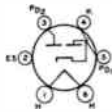




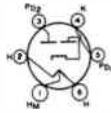
6G



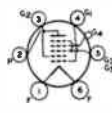
6H



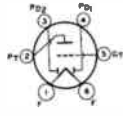
6J



6K



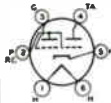
6L



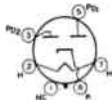
6M



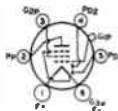
6Q



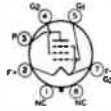
6R



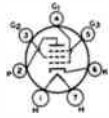
6S



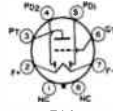
6W



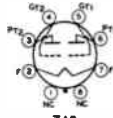
6X



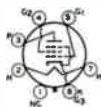
7A



7AA



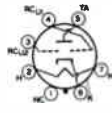
7AB



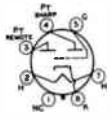
7AC



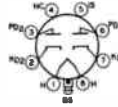
7AD



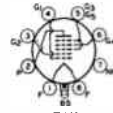
7AG



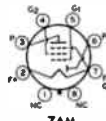
7AH



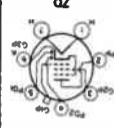
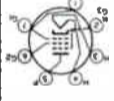
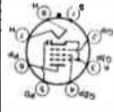
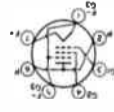
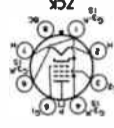
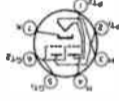
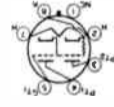
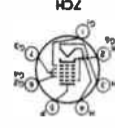
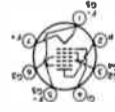
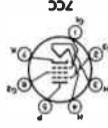
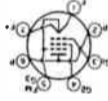
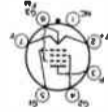
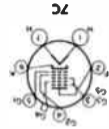
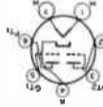
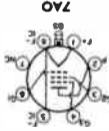
7AJ

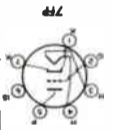
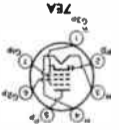
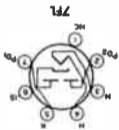
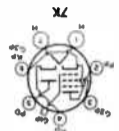
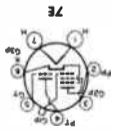
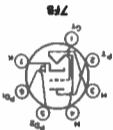
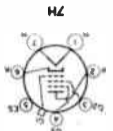
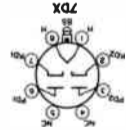
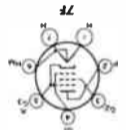
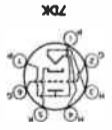
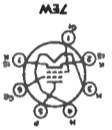
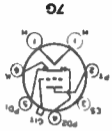
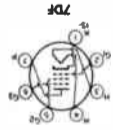
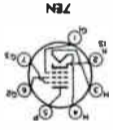
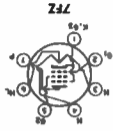
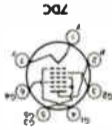
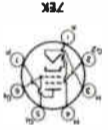
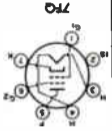


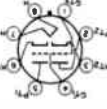
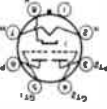
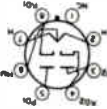
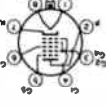
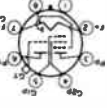
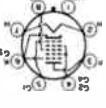
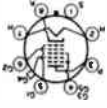
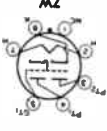
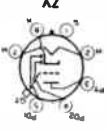
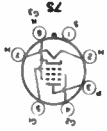
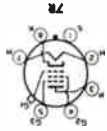
7AK

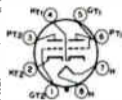


7AM

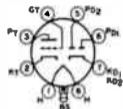




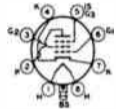




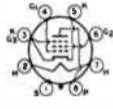
88E



88F



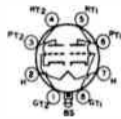
88J



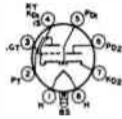
88K



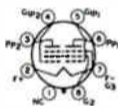
88L



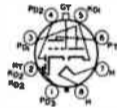
88W



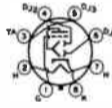
88Z



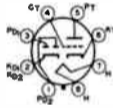
8C



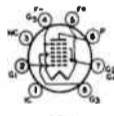
8CB



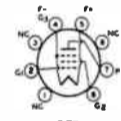
8CH



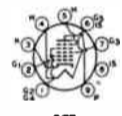
8CK



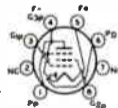
8CN



8CP



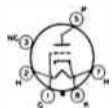
8CT



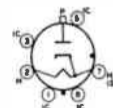
8DA



8E



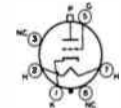
8EL



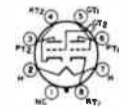
8EZ



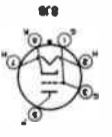
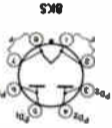
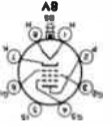
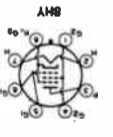
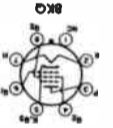
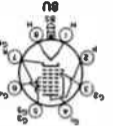
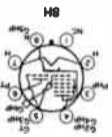
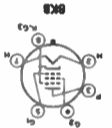
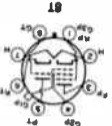
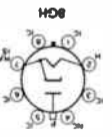
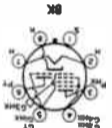
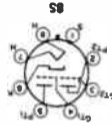
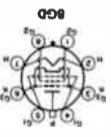
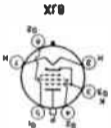
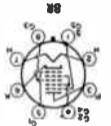
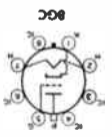
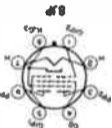
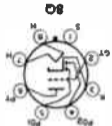
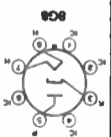
8F



8FU

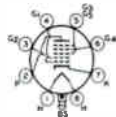


8G

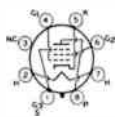




8W



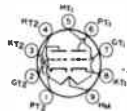
8X



8Y



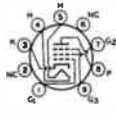
8Z



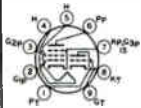
9A



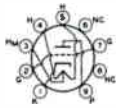
9AC



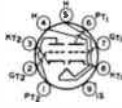
9AD



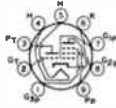
9AE



9AG



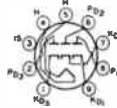
9AJ



9AK



9AQ



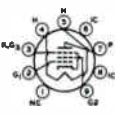
9AX



9BD



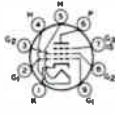
9BF



9BL



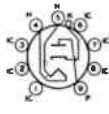
9BQ



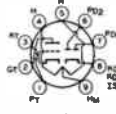
9BV



9BX



9CB



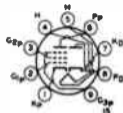
9CF



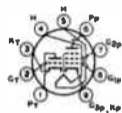
9CK



9CV



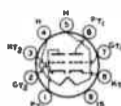
9CY



9DA



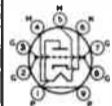
9DB



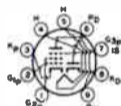
9DE



9DJ



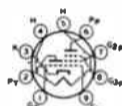
9DR



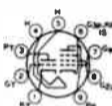
9DS



9DT



9DW



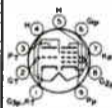
9DX



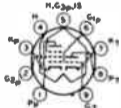
9DZ



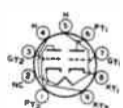
9E



9EC



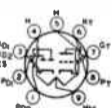
9ED



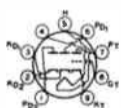
9EF



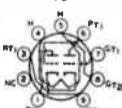
9EG



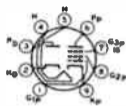
9EN



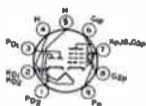
9ER



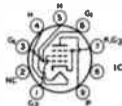
9ES



9HG



9HK



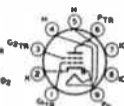
9HN



9HP



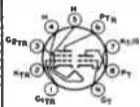
9HR



9HV



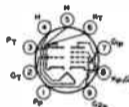
9HZ



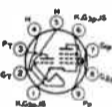
9JD



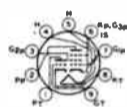
9JE



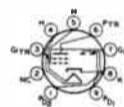
9JF



9JG



9JT



9JU



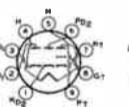
9JX



9KA



9KP



9KR



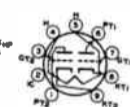
9KT



9KU



9KV



9LG



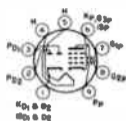
9LP



9LQ



9LS



9LT



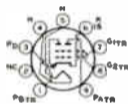
9LW



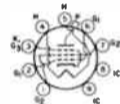
9M



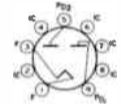
9MB



9MR



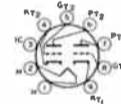
9NM



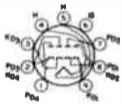
9NT



9NZ



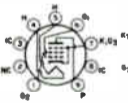
9PG



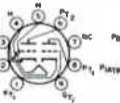
9PQ



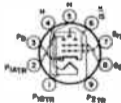
9PV



9PX



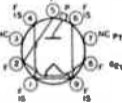
9QD



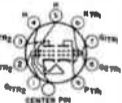
9QG



9U



9Y



10F



INDEX = LARGE LUG
● = PIN CUT OFF

12AQ



12BY

RCA

INTERCHANGEABILITY DIRECTORY OF FOREIGN VS. U.S.A. RECEIVING-TYPE ELECTRON TUBES

This Interchangeability Directory of Foreign-vs.-U.S.A. Receiving-Type Electron Tubes has been prepared to assist distributors, dealers, technicians, and individual users in selecting the proper RCA tube type as a replacement for a foreign tube type. This chart covers approximately 800 foreign tube types, used principally in entertainment equipment such as AM and FM radios, television receivers, and audio amplifiers.

Types shown in bold face are in RCA's current line of tubes. Types shown in light face are primarily of foreign manufacture. Some of these types may be available in the United States of America. For information on the availability of the types listed in this directory, consult your RCA Tube Distributor.

***DIRECT REPLACEMENT TYPES**—RCA types shown in this column are direct replacements for corresponding types to be replaced.

****SIMILAR REPLACEMENT TYPES**—RCA types shown in this column are not direct replacements for the corresponding types to be replaced because of mechanical and/or electrical differences. For more information as to the degree of similarity, refer to tube data.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
1AB6		1S5
1AC6		1T4
1AH5		1T4
1AJ4		
1AM4		
1AN5		1R5
1AQ5		1S5
1AR5		1U5
1AS5		
1C1	1R5	
1C2		1R5
1C3		
1D13	1A3	
1E3		1T4
1F1		
1F2	1L4	
1F3	1T4	
1FD1		1S5
1FD9	1S5	
1H35		
1LA6E		1LA6
1LN5E		1LN5
1M1		
1M3		
1N3		
1N5VG		1N5GT
1P1		3V4
1P10	3S4	
1P11	3V4	
1R5SF		1R5
1R6		
1S2		
1S2A		
1S5SF		1S5
1T4SF		1T4
1U5SF		1U5
3A4T		3A4
3BX6		

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
3BY7 3C4		3V4
3EH7 3EJ7 3W4 3Y4 3Z4 4BN8		354
4CM4 4FS7 5AR4 5CG4 5ES8 5MK4		5V4GA, 5Z4
5MK9 5RK16 5Y3GB 5Y4SG 6A7E		5Y3GT 5Y3GT 6A7
6AB8 6AD8 6AE8 6AG6G		6V6, 6V6GT, 6V6GTA
6AJ8 6AM6 6AN5 6AN7 6AQ4		
6AV4 6B3 6B8EG 6BD7A 6BE7		6BB
6BH5 6BJ5 6BK8 6BM5		

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
6BM8 6BN5 6BR5 6BR7 6BS4		5879 6AF4, 6AF4A
6BS5 6BS7 6BT4 6BV7 6BW6		
6BW7 6BX4 6BX6 6BY7 6C12		
6C16 6CA7 6CD7 6CH6 6CJ5		7027A 6BQ5
6CJ6 6CK5 6CK6 6CM4 6CM5		6CL6 6CL6
6CN5 6CN6 6CQ6 6CR4 6CR5		6CB5A 6BJ6
6CT7 6CU7 6CV7 6CW7		717
6D2 6DA5 6DA6 6DC8	6AL5	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
 ** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
6DG7 6DJ8 6DL5 6DL7 6DR6 6DR8 6DS8 6DY5 6E8 6E8G	6A8	
6EC7 6EL7 6ES6 6ET6 6F7B 6F7E 6F12 6F15 6F18		6F7 6F7 68H6
6F19 6F20 6FC7 6FD5 6FD12		6F7
6FG6 6FN5 6FX4 6FY5 6G8G	EM84/6FG6	6FQ5A
6GA8 6GM8 6GN6 6H8G 6HG8	888	
6HK8 6HU8 6J6L 6J6R 6J8EG		6J8 6J8 6J8G

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
9AB4 9AK8		
9AQ8 9BM5 9BR8 9BW6 9EN7		
9GB8 9P9 11L6		6L6, 6L6GB, 6L6GC
12AC5		
12AD5 12AH8 12AJ7 12AJ8 12AU7R		12AU7
12AX7R		12AX7, 12AX7A, 7025
12B3 12BX6 12CR5		
12DA6 12DT6 12FB5 12GN6 12HU8		
12S7 12X3 13CM5 13D2 13EC7	6SN7GTB	
13GC8 14G6 14K7 14L7 14Y7		

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
15A6		
15CW5		
15DQ8		
16A5		
16A8		
16AQ3		
16GK8		
17C8		
17EW8		
17N8		
17Z3		
19A3		
19AJ8		
19AQ5		
19BR5		
19CS4		
19D8		
19U3		
19U8		
19X3		
19Y3		
21A6		
21B6		
24/76		6P5G, 6P5GT
24/78		6K7, 6K7GT
25CR5		
25E5		
25GF6		
25U4GT		
26AQ8		
28AK8		
30A5		35C5
30AE3		
30C1		9UBA
30F5		
30L1		
30P4		25BQ6GTB
30P16		

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
30P18		
31A3		
32A8		
35A3		
35C3		
35O5		
35FN5		
38A3		
41E		41
41M		6X6GT
42E		42
45A5		
45B5		
50BM8		
50CD6G		
50F2		
52KU		5V4GA
53KU		
55N3		5V4GA
60E3		
62DDT		
62VP		
63ME		6U5
63SPT		
63TP		
64ME		
64SPT		
65ME		
66KU		
67PT		
77E		6C6
77M		6J7, 6J7GT
80HK		
80S		5Z4
85A1	0E3	
85A2	0G3	
85A3		

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
86M 88M 89RS 90C1 108C1	0B2	6P5, 6P5GT 6SK7 6BB, 6B8G
150B2 150C1 150C2 150C3 150C4	0A2 0A2 003	0A2
171DDP 311SU 451PT 1639 5928		6K7, 6Q7GT
6374 A676 A678 A863 B36	12SN7GT, 12SN7GTA 6SN7GTB	76 78 6J7, 6J7GT
B65		
B152 B309 B319 B329 B339	12A77 12A77	7AN7
B719 BPM04 CC81E D2M9 D61	6AQ8 6AQ5A 6Z01 6AL5	6CT7
D63 D77 D152 DA90 DAC32	6AL5 6AL5 1A3 1H5GT	6N6

Note: Types shown in bold face are RCA types.

*) For footnotes, see page 75.

**)

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
DAF91	1S5	
DAF92		1U5
DAF96	1AHS	1S5
DC70		1E3
DC80		1E3
DCC90	3A5	
DCF60		1V6
DD6		6AL5
DD7	6AM5	
DOR7	6AM5	
DF33	1N5GT	
DF62	1AD4	
DF91	1T4	
DF92	1L4	
DF96	1AJ4	1T4
DF97	1AM5	
DF904		1U4
DH63	6Q7	
DH63M		6Q7, 6Q7GT
DH76		12Q7GT
DH77	6AT6	
DH81		786
DH109	28AK8	
DH118		14L7
DH142		14L7
DH147		6Q7, 6Q7GT
DH149		7C6
DH150	6CV7	
DH719	6T8A	
DH817	6CV7	
OK32	1AB6, 1AC6	1A7GT
OK91	1R5	
OK92	1AC6	
OK96	1AB6	
OK97	1AB6	
DL29		3D6
DL31		1A5GT
DL33	3Q5GT	
DL35	1C5GT	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
DL36 DL63 DL74M DL82 DL91	1S4	1Q5GT 6R7 12Q7GT 7B6
DL92 DL93 DL94 DL95 DL96	3S4 3A4 3V4 3Q4 3C4	3V4
DL98 DL193 DM70 DM71 DP61	3B4 1M3 1N3 6AK5	3A4
DS77 DY30 DY80 DY86 DY87	 1S2 1S2A	6AL5 1B3GT 1X2B
E81CC E88CC E90F	6201 6922	6661/6BH6, 6BH6
E91AA E91H	5726	5915
E91N E95F E99F E182CC E182F	5727 5654 5847	68J6 7044
E188CC EA50 EAA91 EAA171 EAA901S	6D1 6AL5 5726	6922 6AL5 6AL5
EABC80 EAF42	6T8A 6CT7	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
EB34 EB91 EBC33	6AL5	6N6 6Q7, 6Q7GT
EBC41 EBC80 EBC81 EBC90 EBC91	6CV7 6BD7A 6AT6 6AV6	6BD7A
EBF32 EBF80 EBF83 EBF89 EBF171	6N8 6DR8 6DC8	6B8
EBF175 EBL31 EC70 EC71 EC80	 5718 5718 6Q4	6N8 6DC8
EC81 EC86 EC90 EC91 EC92	6R4 6CM4 6C4 6AQ4 6AB4	6BC4
EC93 EC95 EC97 ECC32 ECC33	6BS4 6ER5 6FY5	6AF4, 6AF4A 6FQ5A 6SN7GTB 6SN7GTB
ECC34 ECC35 ECC40 ECC70 ECC81	 6021 12AT7	6SL7GT 6N7GT
ECC82 ECC83	12AU7A 12AX7A, 7025	
ECCB4 ECC85 ECC86	6CW7 6AQ8	6GM8

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
ECC88	60J8	6ES8
ECC89		
ECC91	6J6A	68Q7A
ECC180		
ECC189	6ES8	
ECC801S	6201	
ECF80	6BL8	
ECF82	6U8A	
ECF86	6HG8	
ECH3G		6K8
ECH35		8K8
ECH42	6CU7	
ECH81	6AJ8	
ECH83	60S8	
ECH113	6CU7	
ECH171		6AJ8
ECL80	6A88	
ECL82	6BM8	
ECL83		68M8
ECL84	6DX8	
ECL85	6GV8	
ECL86	6GW8	
ED2		8AL5
EF5	6DA6	
EF9		6K7, 6K7GT
EF13	6DA6	
EF22		7B7
EF36		6J7, 6J7GT
EF37A		1620, 6J7GT
EF39		6K7, 6K7GT
EF40		5879
EF41	6CJ5	
EF42		6EW6
EF50		
EF55		
EF80	68X6	
EF82		
EF85	68Y7	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
EF86	6CF8	
EF89	6DA6	
EF89F	6DU6	
EF91	6AM6	
EF92	6CQ6	
EF93	6BA6	
EF94	6AU6	
EF95	6AK5	
EF96		6AG5
EF97	6ES6	
EF98	6ET6	
EF174		6BX6
EF175		6BY7
EF183	6EH7	
EF184	6EJ7	
EF730	5636	
EF731	5899	
EF732	5840	
EF734	6205	
EF905	5654	6AK5
EH90	6CS6	
EH900		5915
EK90	6BE6	
EL32		6V6GT, 6V6GTA
EL33		6V6, 6V6GT, 6V6GTA
EL34	6CA7	
EL34MP	6CA7	
EL35		6Y6G
EL36	6CM5	
EL37		7027A
EL37MP		7027A
EL38	6CN6	
EL41	6CK5	6CL6
EL42		
EL71	5902	
EL81	6CJ6	
EL82	6DY5	

Note: Types shown in bold face are RCA types.

*} For footnotes, see page 75.

**}

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
EL83	6CK6	6CL8
EL84	6BQ5	
EL84MP	6BQ5	
EL85	6BN5	
EL86	6CW5	
EL90	6AQ5A	
EL91	6AM5	
EL95	6DL5	
EL360		6CM5
EL821	6CH6	
EL822		6BQ5
EM34	6C07	
EM35		
EM80	6BR5	
EM81	6DA5	
EM84	EM84/6FG8	
EM85	6DG7	
EM840		EM84/6FG6
EN32	2050A	
EN91	2021	
EN92		5696
EN93	6D4	
EQ80	6BE7	
EY51	6X2	
EY80	6U3	
EY81	6R3	6AF3
EY82	6N3	
EY83		6S2
EY84		6374
EY86	6S2	
EY87	6S2A	
EY88	6AL3	
EY91		
EZ4	6CA4	
EZ35	6X5GT	
EZ40	6BT4	
EZ41		
EZ80	6V4	
EZ81	6CA4	
EZ90	6X4	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
GZ30	5Z4	
GZ31		5U4G, 5U4GB
GZ32		5V4GA
GZ33		5AR4
GZ34	5AR4	
H63		6F5
HAA91		12AL5
HABC80		19T8
HBC90	12AT6	
HBC91	12AV6	
HCC85	17EW8	
HCH81	12AJ7	
HD14		1H5G, 1H5GT
HD3D		3B4
HD51	0A2	
HD52	0B2	
HD94	6BQ6GT8/ 6CU6	
HD96	25BQ6GT8/ 25CU6	
HF61	6CJ5	
HF93	12BA6	
HF94	12AU6	
HF121	12AC5	
HK90	12BE6	
HL90		19AQ5
HL92	50C5	
HL94	30A5	35C5
HMO4	6BE6	
HY90	35W4	
KD21		0A3
KD24		0C3
KD25		003
KL35		1F5G
KT32		25L6, 25L6GT
KT61	6AG6G	
KT63		6F6, 6F6G, 6F6GT

Note: Types shown in bold face are RCA types.

** } For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
KT66		7027A
KT71		50L6GT
KT77		7027A
KT81		7C5
KTW61		6S7
KTW63		6K7, 6K7GT
KTW74M		12K7GT
KTZ63	6J7GT	
L63	6J5	
L63B	6J5GT	
L77	6C4	
LN119	50BM8	
LN152	6AB8	
LZ319	9A8	9UBA
M8079		6AL5
M8080		6C4
M8081	6I01	6I6
M8082		6AM5
M8083		6AM6
M8100		6AK5, 5654
M8136	6I89	12AU7
M8162	12AT7WA	12AT7
M8196	5725	6AS6
M8204	5727	2021
M8212	5726	6AL5
M8214		12AX7A
M8223	0A2WA	0A2
M8224	0B2WA	0B2
M8232	6J4WA	6J4
M8245	6005	6AQ5A
N14		1C5GT
N15		3Q5GT
N16		3Q5GT
N17	3S4	
N18	3Q4	
N19	3V4	
N77		6AM5
N78	6BJ5	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
N119	45B5	
N142	45A5	
N144	6AM5	
N147	6AG6G	
N148		7C5
N150	6CK5	
N152	21A6	
N153	15A6	
N154	16A5	
N308		25E5
N309		15A6
N329	16A5	
N359	21A6	
N369	16A8	
N379	15CW5	
N707		68Q5
N709	68Q5	
N727	6AQ5A	
OBC3		12SQ7, 12SQ7GT
OF1		6S7
OH4		12A6GT
OM4		6Q7, 6Q7GT
OM6		6K7, 6K7GT
OSW2190		6AC7
OSW2192		6AG7
OSW2600		6AC7
OSW3104		6SA7
OSW3105		6SQ7
OSW3106		6V6
OSW3109		6H6
OSW3110	6E5	
OSW3111		6SK7
OSW3112		6J5
PABC80	9AK8	
PC86	4CM4	
PC95	4ER5	
PCC84	7AN7	

Note: Types shown in bold face are RCA types.

** For footnotes, see page 75.

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
PCC85	9A08	
PCC88	7DJ8	
PCF80	9A8	9U8A
PCF82		9U8A
PCL82	16A8	
PCL83		
PCL84	15DQ8	
PF9		6K7
PH4		6A8
PL21		2021
PL36	25E5	
PL81	21A6	
PL82	16A5	
PL83	15A6	
PL84	15CW5	
PL820		21A6
PM04	6BA6	
PM05	6AK5	
PM07	6AM6	
PY32		
PY80	19X3	
PY81	17Z3	
PY82	19Y3	
PY83		17Z3
PY88		30AE3
QA2400		6CQ6
QA2401		6C4
QA2402		6AM5
QA2403		6AM6
QA2404		6AL5
QA2406		12AT7
QA2407		6X4
QA2408		6SN7GTB
QE03/10	5763	
QOE02/5	6939	
QQV02-6	6939	
QS1206		0B2
QS1207	0A2	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
OS1208 QV03-12	082 5763	
R12 R12A R17 R19 R52		6X2 6X2 6N3 1X2B 5Z4
R144 REL39	6AM6	6AC7
S856 S860 SP6 SU61	0A2 082 6AM6 6X2	
T2M05 TM12 U17 U26 U41 U43	6S2 6X2	6J6A 6J4 1T4 1B3GT
U49 U50 U52 U70 U74	6S2 5Y3GT 5U4G, 5U4GB	6X5GT 35Z4GT
U76 U78 U82 U142 U147	6X4 38A3	35Z4GT 7Y4 6X5GT'
U149 U150 U151 U152 U153	6BT4 6X2 19X3 17Z3	7Y4
U154 U192 U309 U319 U381	19Y3 19Y3 38A3	19X3 19Y3

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
U404		31A3
U709	6CA4	
UABC80	28AK8	
UAF42	12S7	
UBC41	14L7	
UBC80		
UBF80	17C8	
UC92	9AB4	
UCC85	26AQ8	
UCH42	14K7	
UCH81	1908	
UCL82	50BM8	
UF6A7		6A7
UF41	12AC5	
UF89	12DA6	
UL41	45A5	
UL84	45B5	
UL84MP	45B5MP	
UM80	19BR5	
UU9		6BT4
UU12	6CA4	
UY24B		24A
UY27		27
UY27A		27
UY35B		35
UY36		36
UY36A		36
UY37		37
UY37A		37
UY41	31A3	
UY42		
UY47		47
UY76		76
UY82	55N3	
UY85	38A3	
UY92		
UY224		24A
V2M70		6X4

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
V61 V741	6BT4 6C4	
V884 W17 W61 W63 W76	6CQ6 1T4	6K7, 6K7GT 6K7, 6K7GT 12K7GT
W77 W81 W81M W143 W147	6CQ6	7H7 7H7 7B7 6K7, 6K7GT
W148 W149 W150 W719 W727	6CJ5 6BY7 6BA6	7H7 7B7
W739 WD142 WD150 WD709 X14	12S7 6CT7 6N8	6DA6 1A7GT
X17 X18 X20 X25 X63(M)	1AC6 1AC6 1AB6	1R5 6A8
X64 X77 X79 X81 X144	6BE6 6AE8	6L7 7S7 1A7GT
X147 X148 X719 X727 XC95	6AJ8 6BE8 2ER5	6K8 7S7

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.
** }

RCA Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

FOREIGN TYPE TO BE REPLACED	U.S.A. TYPE FOR USE AS REPLACEMENT	
	Direct*	Similar**
XC97	2FY5	
XCC82	7AU7	
XCC189	4ES8	
XCF80	4BL8	
XCH81	3AJ8	
XCL82	888	
XF80	3BX6	
XF85	3BY7	
XF183	3EH7	
XF184	3EJ7	
XFR1		1AD4
XL36	13CM5	
XL84	8BQ5	
XL86	8CW5	
XY88	16AQ3	
Y25	1N3	
Y61		6U5
Y63		6U5
Y119	19BR5	
YC95	3ER5	
YF183	4EH7	
YF184	4EJ7	
Z14		1N5GT
Z63	6J7	
Z77	6AM6	
Z152	6BX6	
Z300T		0A4G
Z719	6BX6	
Z729	6CF8	5879
Z900T	5823	
Z09		
ZD17	1S5	
ZD25	1AH5	
ZD152	6N8	

Note: Types shown in bold face are RCA types.

* } For footnotes, see page 75.

** }

RCA SILVERAMA AND COLORAMA CHARACTERISTICS AND REPLACEMENT CHARTS


**For More Information on a
Specific Tube Type, Write to
RCA COMMERCIAL ENGINEERING
HARRISON, N. J.**

With only 106 types of RCA Silverama® Universal Replacement Picture Tubes, the TV service technician can replace 314 different industry picture-tube types. In addition, with six RCA Colorama Picture Tubes, the TV service technician can replace nine different color picture-tube types. These charts list the RCA direct replacement type, or the RCA similar type, when one or the other is available.

NOTICE: ALL MATERIALS AND PARTS USED IN THE MANUFACTURE OF RCA SILVERAMA PICTURE TUBES ARE NEW EXCEPT FOR THE ENVELOPE WHICH, PRIOR TO RE-USE, WAS CAREFULLY INSPECTED TO MEET THE STANDARDS OF THE ORIGINAL NEW ENVELOPE.

RCA COLORAMA PICTURE TUBES CONTAIN USED MATERIALS WHICH, PRIOR TO RE-USE, ARE CAREFULLY INSPECTED TO MEET RCA'S HIGH QUALITY STANDARDS.

RCA PICTURE-TUBE CHARACTERISTICS CHART +

 Type	Envelope	Alumi- nized Screen	Face- plate ^a	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec- tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Utor ^b) ^c Volts	PM Ion-Trap Magnet Required
---	----------	---------------------------	-----------------------------	----------------------------------	--------------------	----------------------	--	-----------------------------	--------	---	--------------------------------------


SILVERAMA TYPES FOR BLACK-AND-WHITE TV

5TP4^d	⊙	Yes	CL	4½ Dia.	E	M	50°	Cavity Cap	12C	27000	No
7JP4	⊙	No	CL	6 Dia.	E	E	(f)	Base Pin	14R	6000	No
8DP4	⊗	No	FG	7⅜ x 5⅝	E	M	90	Cavity Cap	12AB	8000	Yes
8KP4	⊗	Yes	FG	7⅜ x 5⅝	E	M	90	Cavity Cap	12M	16000	No
10BP4A	⊙	No	FG	9⅝ Dia.	M	M	50°	Cavity Cap	12N	12000	Yes
10FP4A	⊙	Yes	FG	9⅝ Dia.	M	M	50°	Cavity Cap	12N	12000	No
12KP4A	⊙	Yes	FG	11⅝ Dia.	M	M	54°	Cavity Cap	12N	12000	No
12LP4A	⊙	No	FG	11 Dia.	M	M	54°	Cavity Cap	12N	12000	Yes
14ATP4^o	⊗	Yes	FG	12⅜ x 9⅝	E	M	90	Cavity Cap	12L	14000	No
14BAP4	⊗	Yes	FG	11⅝ x 8⅝	E	M	70	Cavity Cap	12L	22000 ^h	No
14EP4	⊗	No	FG	11⅝ x 8⅝	M	M	70	Cavity Cap	12N	14000	Yes












14HP4		No	FG	11½ x 8%	E	M	70	Cavity Cap	12L	14000	Yes
14QP4A		Yes	FG	11½ x 8%	E	M	70	Cavity Cap	12L	11000	Yes
14PW4		Yes	FG	12½ x 9½	E	M	90	Cavity Cap	12L	14000	No
16AP4A		No	FG	14½ Dia.	M	M	53°	Metal-Shell Lip	12D	14000	Yes
16DP4A		No	FG	14½ Dia.	M	M	60°	Cavity Cap	12D	15000	Yes
16GP4B		No	FFG	14½ Dia.	M	M	70°	Metal-Shell Lip	12D	14000	Yes
16LP4A		No	FG	14½ Dia.	M	M	52°	Cavity Cap	12N	14000	Yes
16RP4A		Yes	FG	13½ x 10½	M	M	70	Cavity Cap	12N	16000	Yes
16TP4		No	FG	13½ x 10½	M	M	70	Cavity Cap	12N	14000	Yes
16WP4A		No	FG	14½ Dia.	M	M	70°	Cavity Cap	12N	16000	Yes
17BJP4		Yes	FG	14¾ x 11½	E	M	90	Cavity Cap	12L	16000	No
17BP4B		Yes	FG	14¾ x 11½	M	M	70	Cavity Cap	12N	16000	Yes
17CDP4 ^o		Yes	FG	14¾ x 11½	E	M	110	Cavity Cap	8HR	16000	No
17CFP4		Yes	FG	14¾ x 11½	E	M	90	Cavity Cap	12L	16000	No
17CP4		No	FFG	14½ x 10½	M	M	70	Metal-Shell Lip	12D	16000	Yes
17CSP4		Yes	FG	14¾ x 11½	E	M	110	Cavity Cap	7FA	17600 ^h	No
17CYP4		Yes	FG	14¾ x 11½	E	M	90	Cavity Cap	12L	16000	No
17DAP4 ⁱ		Yes	FG	14¾ x 11½	E	M	110	Cavity Cap	8JK	16000	No



















For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART + (cont'd)

 Type	Envelope	Alumi- nized Screen	Face- plate ^{††}	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec- tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor [®]) ^c Volts	PM Ion-Trap Magnet Required
---	----------	---------------------------	------------------------------	----------------------------------	--------------------	----------------------	--	-----------------------------	--------	--	--------------------------------------


SILVERAMA TYPES FOR BLACK-AND-WHITE TV (Cont'd)

17DKP4		Yes	FG	14 $\frac{3}{8}$ x 11 $\frac{11}{16}$	E	M	110	Cavity Cap	8JR	23000 ^h	No
17DQP4 ^k		Yes	FG	14 $\frac{3}{8}$ x 11 $\frac{11}{16}$	E	M	110	Cavity Cap	7FA	17600 ^{h,p}	No
17DSP4		Yes	FG	14 $\frac{3}{8}$ x 11 $\frac{11}{16}$	E	M	110	Cavity Cap	8HR	18000	No
17DWP4		Yes	FG	14 $\frac{5}{16}$ x 11 $\frac{3}{8}$	E	M	70	Cavity Cap	12L	20000	No
17DXP4 ^k		Yes	FG	14 $\frac{3}{8}$ x 11 $\frac{11}{16}$	E	M	110	Cavity Cap	8JR	16000	No
17GP4		No	FFG	14 $\frac{3}{8}$ x 10 $\frac{11}{16}$	E	M	70	Metal-Shell Lip	12M	16000	Yes
17HP4B		Yes	FG	14 $\frac{5}{16}$ x 11 $\frac{3}{8}$	E	M	70	Cavity Cap	12L	16000	Yes
17LP4A		Yes	FG ^m	14 $\frac{3}{8}$ x 10 $\frac{3}{8}$	E	M	70	Cavity Cap	12L	16000	Yes
17QP4A		Yes	FG ^m	14 $\frac{3}{8}$ x 10 $\frac{3}{8}$	M	M	70	Cavity Cap	12N	18000	Yes
17TP4		No	FFG	14 $\frac{3}{8}$ x 10 $\frac{11}{16}$	E	M	70	Metal-Shell Lip	12M	16000	Yes
19AFP4		Yes	FG	15 $\frac{1}{8}$ x 12 $\frac{1}{16}$	E	M	114	Cavity Cap	8HR	20000 ^h	No












19AJP4 ^k		Yes	FG	15½ x 12	E	M	114	Cavity Cap	7FA	19800 ^{h,p}	No
19ANP4 ^k		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8JR	20000 ^h	No
19AP4B		No	FFG	17½ Dia.	M	M	66°	Metal-Shell Lip	12D	16000	Yes
19AUP4		Yes	FG ^r	15¼ x 12½ ₁₆	E	M	114	Cavity Cap	8HR	20000 ^h	No
19AVP4		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8HR	23000 ^h	No
19AYP4 ^k		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8HR	23000 ^h	No
19BDP4		Yes	FG	15½ x 12	E	M	92	Cavity Cap	12L	19800 ^{h,p}	No
19BFP4		Yes	FG	15½ x 12	E	M	92	Cavity Cap	12L	20000 ^h	No
19BTP4		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8JR	23000 ^h	No
19CHP4		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8HR	20000 ^{h,p}	No
19CKP4		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8HR	22000 ^{h,p}	No
19YP4		Yes	FG	15½ x 12	E	M	114	Cavity Cap	8JR	20000 ^h	No
20DP4C		Yes	FG	17 x 12¾	M	M	70	Cavity Cap	12N	18000	Yes
20HP4D		Yes	FG	17 x 12¾	E	M	70	Cavity Cap	12L	16000	Yes
21AMP4A		Yes	FG	19½ ₁₆ x 15½ ₁₆	M	M	90	Cavity Cap	12N	18000	Yes
21AP4		No	FFG	18½ x 13½ ₁₆	M	M	70	Metal-Shell Lip	12D	18000	Yes
21AVP4B		Yes	FG	19½ ₁₆ x 15½ ₁₆	E	M	72	Cavity Cap	12L	20000	Yes
21AWP4		Yes	FG	19½ ₁₆ x 15½ ₁₆	M	M	72	Cavity Cap	12N	18000	Yes

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART + (cont'd)

 Type	Envelope	Alumi- nized Screen	Face- plate ^a	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec- tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Utor ^b) ^c Volts	PM Ion-Trap Magnet Required
---	----------	---------------------------	-----------------------------	----------------------------------	--------------------	----------------------	--	-----------------------------	--------	---	--------------------------------------


SILVERAMA TYPES FOR BLACK-AND-WHITE TV (Cont'd)

21CBP4A		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	90	Cavity Cap	12L	20000	No
21CQP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	7FA	18000	No
21DEP4A		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	8HR	20000	No
21DFP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	8HR	18000	No
21DHP4 ^k		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	8HR	18000	No
21DLP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	90	Cavity Cap	12L	20000	No
21DSP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	90	Cavity Cap	12L	20000 ^p	No
21EP4B		Yes	FG ^m	19 ¹ / ₈ x 13 ¹ / ₈	M	M	70	Cavity Cap	12N	18000	Yes
21EQP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	8JR	18000	No
21EYP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	72	Cavity Cap	12L	20000	No
21FAP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	8JR	22000 ^h	No












21FDP4		Yes	FG	19 ¹ / ₁₆ x 15 ¹ / ₁₆	E	M	110	Cavity Cap	8KW	20000 ^A	No
21FP4C		Yes	FG ^m	19 ¹ / ₈ x 13 ³ / ₈	E	M	70	Cavity Cap	12L	18000	Yes
21MP4		No	FFG	18 ¹ / ₈ x 13 ¹ / ₁₆	E	M	70	Metal-Shell Lip	12M	16000	Yes
21WP4A		Yes	FG	17 ³ / ₈ x 13 ³ / ₈	M	M	70	Cavity Cap	12N	18000	Yes
21XP4A		Yes	FG	17 ³ / ₈ x 13 ³ / ₈	E	M	70	Cavity Cap	12L	18000	Yes
21YP4A		Yes	FG	19 ¹ / ₁₆ x 14 ³ / ₁₆	E	M	70	Cavity Cap	12L	18000	Yes
21ZP4B		Yes	FG	19 ¹ / ₁₆ x 14 ³ / ₁₆	M	M	70	Cavity Cap	12N	18000	Yes
23AFP4		Yes	FG	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	92	Cavity Cap	12L	25000 ^A	No
23AHP4		Yes	FG	19 ¹ / ₄ x 15 ¹ / ₈	E	M	92	Cavity Cap	12L	22000 ^A	No
23ALP4^k		Yes	FG	19 ¹ / ₄ x 15 ¹ / ₈	E	M	114	Cavity Cap	8HR	22000 ^A	No
23ASP4		Yes	FG	19 ¹ / ₄ x 15 ¹ / ₈	E	M	92	Cavity Cap	12L	22000 ^A	No
23AVP4		Yes	FG ^r	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	110	Cavity Cap	8HR	22000 ^A	No
23BDP4		Yes	FG ^r	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	92	Cavity Cap	12L	22000 ^A	No
23BJP4		Yes	FG	19 ¹ / ₄ x 15 ¹ / ₈	E	M	92	Cavity Cap	12L	25000 ^{A,P}	No
23BKP4		Yes	FG	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	92	Cavity Cap	12L	25000 ^{A,P}	No
23BLP4		Yes	FG ^r	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	92	Cavity Cap	12L	25000 ^{A,P}	No
23BQP4^k		Yes	FG	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	110	Cavity Cap	8HR	23000 ^A	No
23BTP4		Yes	FG	19 ⁵ / ₁₆ x 15 ¹ / ₄	E	M	92	Cavity Cap	12L	25000 ^A	No

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART + (cont'd)

 Type	Envelope	Alumi- nized Screen	Face- plate ^a	Minimum Screen Size Inches	Focusing Method	Deflection Method	Approx. Diagonal Deflec- tion Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor ^b) ^c Volts	PM Ion-Trap Magnet Required
---	----------	---------------------------	-----------------------------	----------------------------------	--------------------	----------------------	--	-----------------------------	--------	--	--------------------------------------

SILVERAMA TYPES FOR BLACK-AND-WHITE TV (Cont'd)

23CBP4^k	 ⁿ	Yes	FG ^r	19 ³ / ₁₆ x 15 ¹ / ₂	E	M	110	Cavity Cap	8HR	23000 ^h	No
23CP4	 ⁿ	Yes	FG	19 ³ / ₁₆ x 15 ¹ / ₂	E	M	110	Cavity Cap	8HR	22000 ^h	No
23DAP4	 ⁿ	Yes	FG	19 ¹ / ₂ x 15 ¹ / ₂	E	M	94	Cavity Cap	8HR	23500 ^{h,p}	No
23EP4	 ⁿ	Yes	FG	19 ³ / ₁₆ x 15 ¹ / ₂	E	M	110	Cavity Cap	8KP	22000 ^{h,p}	No
23FP4	 ⁿ	Yes	FG	19 ¹ / ₂ x 15 ³ / ₁₆	E	M	114	Cavity Cap	8HR	22000 ^h	No
23MP4	 ⁿ	Yes	FG	19 ¹ / ₂ x 15 ¹ / ₂	E	M	114	Cavity Cap	8HR	22000 ^h	No
23UP4^k	 ⁿ	Yes	FG	19 ³ / ₁₆ x 15 ¹ / ₂	E	M	110	Cavity Cap	8HR	18000 ^h	No
23YP4	 ⁿ	Yes	FG	19 ³ / ₁₆ x 15 ¹ / ₂	E	M	92	Cavity Cap	12L	22000 ^h	No
24AEP4	 ⁿ	Yes	FG	21 ⁷ / ₁₆ x 16 ³ / ₂	E	M	90	Cavity Cap	12L	20000	No
24AHP4	 ⁿ	Yes	FG	21 ⁷ / ₁₆ x 16 ³ / ₂	E	M	110	Cavity Cap	8HR	20000	No
24ATP4	 ⁿ	Yes	FG	21 ⁷ / ₁₆ x 16 ³ / ₂	E	M	90	Cavity Cap	12L	20000 ^p	No

24AUP4	Ⓞ	Yes	FG	21 $\frac{1}{16}$ x 16 $\frac{1}{2}$	E	M	90	Cavity Cap	12L	20000	No
24BAP4	Ⓞ	Yes	FG	21 $\frac{1}{16}$ x 16 $\frac{1}{2}$	E	M	110	Cavity Cap	8HR	20000 ^P	No
24CP4A	Ⓞ	Yes	FG	21 $\frac{1}{16}$ x 16 $\frac{1}{2}$	M	M	90	Cavity Cap	12N	20000	Yes
27MP4	Ⓜ	Yes	FFG	23 $\frac{1}{16}$ x 18 $\frac{1}{2}$	M	M	90	Metal-Shell Lip	12D	18000	Yes
27RP4	Ⓞ	Yes	FG	24 $\frac{1}{4}$ x 18 $\frac{1}{2}$	M	M	90	Cavity Cap	12N	20000	Yes
27VP4	Ⓞ	Yes	FG	24 $\frac{1}{4}$ x 18 $\frac{1}{2}$	E	M	90	Cavity Cap	12L	18000	No
27XP4	Ⓞ	Yes	FG	24 $\frac{1}{4}$ x 18 $\frac{1}{2}$	E	M	90	Cavity Cap	12L	23000 ^A	No
27ZP4	Ⓞ	Yes	FG	24 $\frac{1}{4}$ x 18 $\frac{1}{2}$	E	M	110	Cavity Cap	8HR	22000 ^A	No

COLORAMA TYPES FOR COLOR TV

15GP22 ¹	Ⓞ	Yes	CL	11 $\frac{1}{2}$ x 8 $\frac{1}{2}$	E	M	45 ^c	Metal Flange	20A	20000	No
21AXP22A ¹	Ⓜ	Yes	FG	19 $\frac{1}{16}$ x 15 $\frac{1}{4}$	E	M	70 ^c	Metal Shell	14AH	25000	No
21CYP22A ¹¹	Ⓞ	Yes	FG	19 $\frac{1}{4}$ x 15 $\frac{1}{2}$	E	M	70 ^c	Two Cavity Caps	14AL	25000	No
21FBP22 ¹	Ⓞ	Yes	FG	19 $\frac{1}{4}$ x 15 $\frac{1}{2}$	E	M	70 ^c	Cavity Cap	14AU	27500 ^A	No
21FJP22 ¹	Ⓞ ¹¹	Yes	FG ¹	19 $\frac{1}{4}$ x 15 $\frac{1}{2}$	E	M	70 ^c	Cavity Cap	14AU	27500 ^A	No
21FKP22 ¹	Ⓞ ¹¹	Yes	FG	19 $\frac{1}{4}$ x 15 $\frac{1}{2}$	E	M	70 ^c	Cavity Cap	14AU	27500 ^A	No

For footnotes, see page 108.

RCA PICTURE-TUBE CHARACTERISTICS CHART

EXPLANATION OF FOOTNOTES

- ✦ Active RCA Picture-Tube Types shown here can replace more than 300 different types of industry picture tubes. The RCA Picture Tube Replacement and Interchangeability Chart is available on request.

Unless otherwise noted, all picture tubes listed have 6.3-volt, 600-milliampere heaters.

- | | |
|--|---|
| <p>⊠ Glass rectangular.</p> <p>⊡ Metal rectangular.</p> <p>CL Clear glass.</p> <p>FFG Frosted Filterglass.</p> | <p>⊙ Glass round.</p> <p>Ⓜ Metal round.</p> <p>FG Filterglass.</p> <p>M Magnetic.</p> |
|--|---|

E Electrostatic.

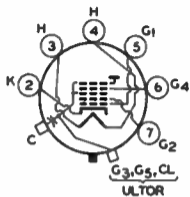
- ^a Spherical, unless otherwise specified.
- ^b ULTOR is defined as the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.
- ^c Design-Center Value, unless otherwise indicated.
- ^d Projection type.
- ^e Horizontal deflection angle.
- ^f Typical deflection factors (volts dc/in.) for ultor voltage of 6000 volts:

DJ1 & DJ2 (nearer screen)
186 to 246

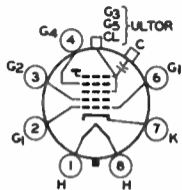
DJ3 & DJ4 (nearer base)
150 to 204

- ^g 8.4-volt, 450-milliampere heater.
- ^h Design-Maximum Value.
- ⁱ 2.68-volt, 450-milliampere heater.
- ^k 6.3-volt, 450-milliampere heater.
- ^m Cylindrical faceplate.
- ⁿ Bipanel type.
- ^p Referred to Grid No. 1: Cathode-Drive Service. Has low grid-2 voltage rating.
- ^r Treated to reduce specular reflection.
- ^q 2.35-volt, 600-milliampere heater.
- ^s This type has a flat, aluminized, filterglass, phosphor-dot screen plate.
- ^t 6.3-volt, 1.8-ampere heater (three heaters paralleled internally).
- ^u 6.3-volt, 1.6-ampere heater (three heaters paralleled internally).
- ^v This type has an integral protective window.

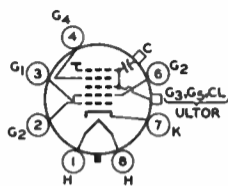
Note: For basing diagrams, see pages 109 and 110.



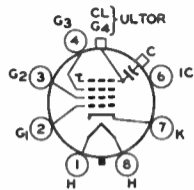
7FA
FOCUSING ELECTRODE - G₄



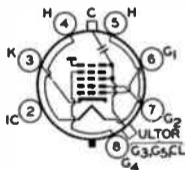
8HR
FOCUSING ELECTRODE - G₄



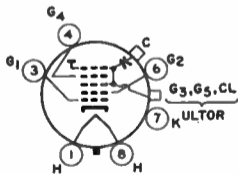
8JK
FOCUSING ELECTRODE - G₄



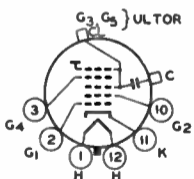
8JR
FOCUSING ELECTRODE - G₃



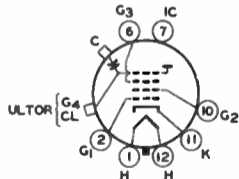
8KP
FOCUSING ELECTRODE - G₄



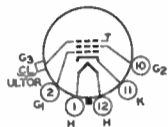
8KW
FOCUSING ELECTRODE - G₄



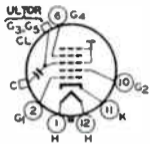
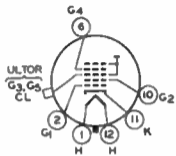
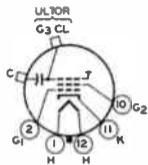
12AB
FOCUSING ELECTRODE - G₄



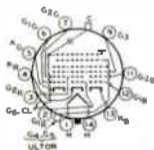
12C
FOCUSING ELECTRODE - G₃



12D

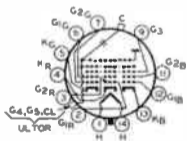
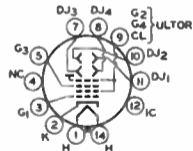
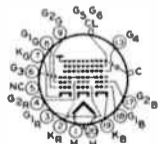
12L
FOCUSING ELECTRODE = G₄12M
FOCUSING ELECTRODE = G₄

12N

14AH
FOCUSING ELECTRODE = G₃

14AL

14AL
CAP OVER PIN NO. 1:
CAP OVER PIN NO. 2:
G₆ + CL & HIGH-VOLTAGE
TERMINAL. Connect High-Voltage
Supply to this Cap and also
connect 50,000-ohm resistor
between this Cap and the Cap
over Pin No. 1 (Ultr Cap).
FOCUSING ELECTRODE = G₃

14AU
FOCUSING ELECTRODE = G₃14R
FOCUSING ELECTRODE = G₃20A
FOCUSING ELECTRODE = G₃

PICTURE-TUBE REPLACEMENT DIRECTORY SILVERAMA TYPES

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
5TP4	5TP4	14BAP4	14BAP4
7JP4	7JP4	14BP4 14BP4A 14CP4 14CP4A	14EP4
8DP4	8DP4	14DP4	★14EP4
8KP4	8KP4	14EP4 14EP4/ 14CP4 14EP4/ 14CP4/ 14BP4	14EP4
10BP4 10BP4A	10BP4A	14HP4	14HP4
10BP4C 10BP4D 10CP4	★10FP4A	14NP4 14NP4A	★14WP4
10EP4	★10BP4A	14QP4 14QP4A	14QP4A
10FP4 10FP4A	10FP4A	14RP4 14RP4A 14SP4	★14WP4
12JP4	★12KP4A	14WP4 14WP4A / 14ZP4 14ZP4 14ZP4/ 14WP4	14WP4
12KP4 12KP4/ 12ZP4 12KP4A	12KP4A	16AP4 16AP4A	16AP4A
12LP4 12LP4A 12LP4C	12LP4A	16CP4	★16LP4A
12LP4C 12QP4 12QP4A	★12KP4A	16DP4 16DP4A	16DP4A
12TP4	★12LP4A		
12ZP4 12ZP4A	★12KP4A		
14ATP4	14ATP4		

[^]The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
16GP4 16GP4A 16GP4B 16GP4C	16GP4B	17AP4	★17BP4B
16KP4 16KP4A	16RP4A	17ATP4 17ATP4/ 17AVP4 17ATP4A 17ATP4A/ 17AVP4A 17AVP4 17AVP4/ 17ATP4 17AVP4A 17AVP4A/ 17ATP4A	★17BJP4
16LP4 16LP4A	16LP4A	17BJP4	17BJP4
16QP4	★16RP4A	17BP4	★17BP4B
16RP4 16RP4/ 16KP4 16RP4A 16RP4A/ 16KP4A	16RP4A	17BP4A 17BP4B 17BP4C	17BP4B
16SP4 16SP4A	★16WP4A	17BRP4	★17DSP4
16TP4	16TP4	17BUP4	★17BJP4
16UP4	★16RP4A	17BVP4	★17CSP4
16VP4 16WP4 16WP4/ 16YP4	★16WP4A	17BWP4	17CSP4
16WP4A	16WP4A	17BZP4 17BZP4/ 17CAP4/ 17CKP4 17BZP4/ 17CAP4/ 17CKP4/ 17BRP4 17CAP4	17DSP4
16WP4B	16WP4A	17CBP4	★17BJP4
16XP4	★16RP4A	17CDP4	17CDP4
16YP4	★16WP4A		
16ZP4	★16LP4A		

[^]The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
17CFP4	17CFP4	17LP4	17LP4A
17CKP4	17DSP4	17LP4/ 17VP4	
17CLP4	★17BJP4	17LP4A	
17CP4 17CP4A	17CP4	17LP4A/ 17VP4B	
17CSP4	17CSP4	17QP4	17QP4A
17CWP4	17DSP4	17QP4A	
17CYP4	17CYP4	17RP4	17HP4B
17DAP4	17DAP4	17RP4C	
17DKP4	17DKP4	17TP4	17TP4
17DLP4	17DSP4	17UP4	17QP4A
17DQP4	17DQP4	17VP4	17LP4A
17DSP4	17DSP4	17VP4/ 17LP4	
17DTP4	17DKP4	17VP4B	
17DWP4	17DWP4	17YP4	17QP4A
17DXP4	17DXP4	19AFP4	19AFP4
17DZP4		19AJP4	19AJP4
17GP4	17GP4	19ANP4	19ANP4
17HP4	17HP4B	19AP4	19AP4B
17HP4/ 17RP4		19AP4A	
17HP4A		19AP4B	
17HP4B		19AP4C	
17HP4B/ 17RP4C		19AP4D	
17JP4	17BP4B	19AUP4	19AUP4
		19AVP4	19AVP4
		19AXP4	19AYP4
		19AYP4	
		19BDP4	19BDP4

[^]The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
19BFP4	19BFP4	21ACP4 21ACP4/ 21AMP4 21ACP4A	21AMP4A
19BTP4	19BTP4		
19CHP4	19CHP4	21ACP4A/ 21AMP4A 21ACP4A/ 21BSP4 21ACP4A/ 21BSP4/ 21AMP4A	21AMP4A
19CKP4	19CKP4		
19XP4	19AVP4		
19YP4	19YP4		
20CP4 20CP4A 20CP4B 20CP4C 20CP4D 20DP4	★20DP4C	21AFP4	★21YP4A
20DP4A 20DP4A/ 20CP4A	20DP4C	21ALP4 21ALP4A 21ALP4B 21ALP4B/ 21ALP4A	★21CBP4A
20DP4B	★20DP4C	21AMP4 21AMP4A	21AMP4A
20DP4C 20DP4C/ 20CP4D	20DP4C	21ANP4 21ANP4A	★21CBP4A
20HP4	★20HP4D	21AP4	21AP4
20HP4A 20HP4A/ 20LP4 20HP4A/ 20MP4	20HP4D	21AQP4 21AQP4A	★21AMP4A
20HP4B 20HP4C	★20HP4D	21ASP4	★21XP4A
20HP4D 20LP4 20MP4	20HP4D	21ATP4 21ATP4A 21ATP4A/ 21ATP4 21ATP4B	★21CBP4A

[^]The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type ^a	Type to be Replaced	Replace by RCA Type ^a
21AUP4 21AUP4A 21AUP4B 21AUP4B/ 21AUP4A 21AVP4 21AVP4/ 21AUP4 21AVP4A 21AVP4B 21AVP4B/ 21AVP4A 21AVP4B/ 21AUP4B/ 21AVP4A/ 21AUP4A	21AVP4B	21CVP4	21CBP4A
		21CWP4	★21CBP4A
		21CXP4	21DSP4
		21CZP4	★21DEP4A
		21DAP4 21DEP4 21DEP4A 21DEP4A/ 21DEP4/ 21CZP4	21DEP4A
		21DFP4	21DFP4
21AWP4	21AWP4	21DHP4	21DHP4
21AYP4	21XP4A	21DLP4	21DLP4
21BAP4 21BNP4	21CBP4A	21DMP4	21FAP4
21BSP4	21AMP4A	21DNP4	★21CBP4A
21BTP4	★21CBP4A	21DQP4	21DLP4
21CBP4 21CBP4A 21CBP4A/ 21CBP4/ 21CMP4 21CBP4B	21CBP4A	21DSP4	21DSP4
		21EAP4	★21FDP4
		21EMP4	21EQP4
		21EP4	★21EP4B
21CEP4 21CEP4A	21DFP4	21EP4A 21EP4B	21EP4B
21CMP4	★21CBP4A	21EQP4	21EQP4
21CQP4	21CQP4	21ESP4 21FAP4	21FAP4
21CUP4	21AMP4A	21FDP4	21FDP4

^aThe RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
21FLP4	21CBP4A	23BQP4	23BQP4
21FP4	★21FP4C	23BTP4	23BTP4
21FP4A 21FP4C	21FP4C	23CBP4	23CBP4
21MP4	21MP4	23CP4	23CP4
21WP4 21WP4A	21WP4A	23DAP4	23DAP4
21XP4 21XP4A	21XP4A	23EP4	23EP4
21YP4 21YP4A	21YP4A	23FP4	23FP4
21ZP4	★21ZP4B	23GP4 23HP4	23CP4
21ZP4A 21ZP4B	21ZP4B	23MP4	23MP4
23AFP4	23AFP4	23UP4	23UP4
23AHP4	23AHP4	23WP4	23MP4
23ALP4	23ALP4	23XP4 23YP4	23YP4
23ANP4	23BKP4	24ADP4 24ADP4/ 24VP4A/ 24CP4A/ 24TP4	24CP4A
23ASP4	23ASP4	24AEP4	24AEP4
23AVP4	23AVP4	24AHP4 24ALP4	24AHP4
23AWP4	★23BJP4	24ANP4	★24AEP4
23BDP4	23BDP4	24ATP4	24ATP4
23BJP4	23BJP4	24AUP4	24AUP4
23BKP4	23BKP4		
23BLP4	23BLP4		

[^]The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

PICTURE-TUBE REPLACEMENT DIRECTORY
SILVERAMA TYPES (cont'd)

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
24BAP4	24BAP4	24YP4	★ 24AEP4
24CP4 24CP4A	24CP4A	24ZP4	24AEP4
24DP4 24DP4A 24DP4A/ 24YP4	★ 24AEP4	27EP4 27GP4	★ 27RP4
24QP4	★ 24CP4A	27MP4	27MP4
24TP4 24VP4 24VP4A	24CP4A	27NP4 27RP4	27RP4
24XP4	★ 24CP4A	27VP4	27VP4
		27XP4	27XP4
		27ZP4	27ZP4

COLORAMA TYPES

Type to be Replaced	Replace by RCA Type [^]	Type to be Replaced	Replace by RCA Type [^]
15GP22	15GP22	21CYP22 21CYP22A	21CYP22A
21AXP22 21AXP22A 21AXP22A/ 21AXP22	21AXP22A	21FBP22	21FBP22
		21FJP22	21FJP22
		21FKP22	21FKP22

[^]The RCA type shown is a direct replacement unless otherwise indicated.

★Minor electrical and/or mechanical set modification may be required.

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE SILVERAMA TYPES

RCA TYPE	REPLACES	RCA TYPE	REPLACES
5TP4	5TP4	14HP4	14HP4
7JP4	7JP4	14QP4A	14QP4 14QP4A
8DP4	8DP4		
8KP4	8KP4	14WP4	14NP4 14NP4A 14RP4 14RP4A 14SP4 14WP4 14WP4/ 14ZP4 14ZP4 14ZP4/ 14WP4
10BP4A	10BP4 10BP4A 10EP4		
10FP4A	10BP4C 10BP4D 10CP4 10FP4 10FP4A		
12KP4A	12JP4 12KP4 12KP4/ 12ZP4 12KP4A 12LP4C 12QP4 12QP4A 12ZP4 12ZP4A		16AP4A
	12LP4A	16DP4A	16DP4 16DP4A
		16GP4B	16GP4 16GP4A 16GP4B 16GP4C
12LP4A	12LP4 12LP4A 12LP4C 12TP4	16LP4A	16CP4 16LP4 16LP4A 16ZP4
14ATP4	14ATP4	16RP4A	16KP4 16KP4A 16QP4 16RP4 16RP4/ 16KP4 16RP4A 16RP4A/ 16KP4A 16UP4 16XP4
14BAP4	14BAP4		
14EP4	14BP4 14BP4A 14CP4 14CP4A 14DP4 14EP4 14EP4/ 14CP4 14EP4/ 14CP4/ 14BP4		16TP4

Bold-Face Type indicates an Aluminized Tube.

**RCA PICTURE TUBES & THE TYPES THEY REPLACE
SILVERAMA TYPES (cont'd)**

RCA TYPE	REPLACES	RCA TYPE	REPLACES
16WP4A	16SP4 16SP4A 16VP4 16WP4 16WP4/ 16YP4 16WP4A 16WP4B 16YP4	17DKP4	17DKP4 17DTP4
		17DQP4	17DQP4
		17DSP4	17BRP4 17BZP4 17BZP4/ 17CAP4/ 17CKP4 17BZP4/ 17CAP4/ 17CKP4/ 17BRP4 17CAP4 17CKP4 17CWP4 17DLP4 17DSP4
17BJP4	17ATP4 17ATP4/ 17AVP4 17ATP4A 17ATP4A/ 17AVP4A 17AVP4 17AVP4/ 17ATP4 17AVP4A 17AVP4A/ 17ATP4A 17BJP4 17BUP4 17CBP4 17CLP4	17DWP4	17DWP4
		17DXP4	17DXP4 17DZP4
17BP4B	17AP4 17BP4 17BP4A 17BP4B 17BP4C 17JP4	17GP4	17GP4
		17HP4B	17HP4 17HP4/ 17RP4 17HP4A 17HP4B 17HP4B/ 17RP4C 17RP4 17RP4C
17CDP4	17CDP4		
17CFP4	17CFP4		
17CP4	17CP4 17CP4A	17LP4A	17LP4 17LP4/ 17VP4 17LP4A 17LP4A/ 17VP4B 17VP4 17VP4/ 17LP4 17VP4B
17CSP4	17BVP4 17BWP4 17CSP4		
17CYP4	17CYP4		
17DAP4	17DAP4		

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE
SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES	RCA TYPE	REPLACES		
17QP4A	17QP4 17QP4A 17UP4 17YP4	20HP4D	20HP4 20HP4A 20HP4A/ 20LP4 20HP4A/ 20MP4 20HP4B 20HP4C 20HP4D 20LP4 20MP4		
17TP4	17TP4				
19AFP4	19AFP4				
19AJP4	19AJP4				
19ANP4	19ANP4				
19AP4B	19AP4 19AP4A 19AP4B 19AP4C 19AP4D			21AMP4A	21ACP4 21ACP4/ 21AMP4 21ACP4A 21ACP4A/ 21AMP4A 21ACP4A/ 21BSP4 21ACP4A/ 21BSP4/ 21AMP4A 21AMP4 21AMP4A 21AQP4 21AQP4A 21BSP4 21CUP4
19AUP4	19AUP4				
19AVP4	19AVP4 19XP4				
19AYP4	19AXP4 19AYP4				
19BDP4	19BDP4				
19BFP4	19BFP4				
19BTP4	19BTP4				
19CHP4	19CHP4				
19CKP4	19CKP4				
19YP4	19YP4				
20DP4C	20CP4 20CP4A 20CP4B 20CP4C 20CP4D 20DP4 20DP4A 20DP4A/ 20CP4A 20DP4B 20DP4C 20DP4C/ 20CP4D	21AP4	21AP4		
		21AVP4B	21AUP4 21AUP4A 21AUP4B 21AUP4B/ 21AUP4A 21AVP4 21AVP4/ 21AUP4 21AVP4A 21AVP4B 21AVP4B/ 21AVP4A 21AVP4B/ 21AUP4B/ 21AVP4A/ 21AUP4A		
				21AWP4	21AWP4

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE
SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES	RCA TYPE	REPLACES		
21CBP4A	21ALP4 21ALP4A 21ALP4B 21ALP4B/ 21ALP4A 21ANP4 21ANP4A 21ATP4 21ATP4A 21ATP4A/ 21ATP4 21ATP4B 21BAP4 21BNP4 21BTP4 21CBP4 21CBP4A 21CBP4A/ 21CBP4/ 21CMP4 21CBP4B 21CMP4 21CVP4 21CWP4 21DNP4 21FLP4	21EP4B	21EP4 21EP4A 21EP4B		
		21EQP4	21EMP4 21EQP4		
		21EYP4	21EYP4		
		21FAP4	21DMP4 21ESP4 21FAP4		
		21FDP4	21EAP4 21FDP4		
		21FP4C	21FP4 21FP4A 21FP4C		
		21MP4	21MP4		
		21WP4A	21WP4 21WP4A		
		21XP4A	21ASP4 21AYP4 21XP4 21XP4A		
		21YP4A	21AFP4 21YP4 21YP4A		
		21ZP4B	21ZP4 21ZP4A 21ZP4B		
		21DFP4	21CEP4 21CEP4A 21DFP4	23AFP4	23AFP4
				23AHP4	23AHP4
21DHP4	21DHP4	23ALP4	23ALP4		
21DLP4	21DLP4 21DQP4	23ASP4	23ASP4		
		23AVP4	23AVP4		
21DSP4	21CXP4 21DSP4	23BDP4	23BDP4		
21CQP4	21CQP4				
21DEP4A	21CZP4 21DAP4 21DEP4 21DEP4A 21DEP4A/ 21DEP4/ 21CZP4				

Bold-Face Type indicates an Aluminized Tube.

RCA PICTURE TUBES & THE TYPES THEY REPLACE SILVERAMA TYPES (cont'd)

RCA TYPE	REPLACES	RCA TYPE	REPLACES
23BJP4	23AWP4 23BJP4	24AEP4 (Cont'd)	24YP4 24YP4 24ZP4
23BKP4	23ANP4 23BKP4	24AHP4	24AHP4 24ALP4
23BLP4	23BLP4	24ATP4	24ATP4
23BQP4	23BQP4	24AUP4	24AUP4
23BTP4	23BTP4	24BAP4	24BAP4
23CBP4	23CBP4	24CP4A	24ADP4 24ADP4/ 24VP4A/ 24CP4A/ 24TP4
23CP4	23CP4 23GP4 23HP4		24CP4 24CP4A 24QP4 24TP4 24VP4 24VP4A 24XP4
23DAP4	23DAP4	27MP4	27MP4
23EP4	23EP4	27RP4	27EP4 27GP4 27NP4 27RP4
23FP4	23FP4	27VP4	27VP4
23MP4	23MP4 23WP4	27XP4	27XP4
23UP4	23UP4	27ZP4	27ZP4
23YP4	23XP4 23YP4		
24AEP4	24AEP4 24ANP4 24DP4 24DP4A 24DP4A/ (Cont'd)		

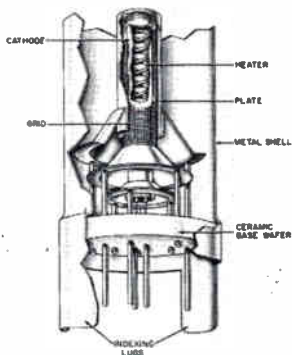
COLORAMA TYPES

RCA TYPE	REPLACES	RCA TYPE	REPLACES
15GP22	15GP22	21CYP22A	21CYP22 21CYP22A
21AXP22A	21AXP22 21AXP22A 21AX22A/ 21AXP22	21FBP22	21FBP22
		21FJP22	21FJP22
		21FKP22	21FKP22

Bold-Face Type indicates an Aluminized Tube.

NUVISTOR TUBES

All ceramic-and-metal construction for critical military and industrial applications



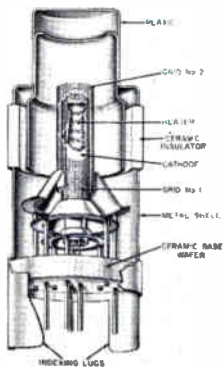
Cutaway illustration of a nuvistor triode



Double-ended nuvistor triode



Nuvistor triode



Cutaway illustration of a nuvistor tetrode



Nuvistor tetrode

NUVISTOR TUBES

All ceramic-and-metal construction for critical military and industrial applications

Type	Name	Description	Special Tests and Controls								Heater		Maximum Dimensions Inches			
			Shock	Fatigue	Variable-Frequency Vibration	Low-Pressure Voltage Breakdown (High Altitude)	Heater Cycling	Intermittent Shorts	Interelectrode Leakage	Life Test						
										Early-Hour Stability	100-Hour Performance	1000-Hour Performance	1000-Hour Standby Performance	Volts	Amps.	Lgth.
7586	Medium-Mu Triode General-Purpose Type	<p>Features high-gain low-noise in amplifier service</p> <p>Excellent stability as an oscillator over a wide range of frequencies</p> <p>For critical applications in equipment such as:</p> <p>Communications</p> <p>Control and instrumentation</p> <p>Medical electronics</p> <p>TV cameras</p> <p>Test and measurement instruments</p> <p>Meets military specification Mil-E-1/1397 SigC</p>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440
7587	Sharp-Cutoff Tetrode	<ul style="list-style-type: none"> Especially suited for rf-if, video amplifier, and mixer service <p>For critical applications in equipment such as:</p> <p>Communications</p> <p>Control and instrumentation</p>														



	General-Purpose Double-Ended Type	Medical electronics TV cameras Test and measurement instruments Meets military specification Mil-E-1/1434 SigC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	6.3	0.15	1.050	0.440
7895	High-Mu Triode General-Purpose Type	Features high-gain low-noise in amplifier service Excellent stability as an oscillator over a wide range of frequencies Provides reliable performance in on-off control applications involving long periods of standby operation Meets military specification Mil-E-1/1433 SigC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440
8056	Medium-Mu Triode Low-Voltage Type	Designed to operate from a plate voltage supply of 12 volts thru 50 volts Especially applicable for use as a low-noise tube in the following circuits: RF and if amplifier Multivibrator Cathode-follower Useful in special applications requiring a high input impedance and capable of operating at low-voltage supplies	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440
8058	High-Mu Triode Double-Ended Type	Especially useful in cathode-drive amplifier service at frequencies up to 1200Mc Has exceptional low-noise to signal ratio with the following Noise Factor in cathode-drive rf amplifier service 6.5 db at 450Mc 9.5 db at 700Mc 12.2 db at 1200Mc Excellent stability as an oscillator over a wide range of frequencies	✓	-	✓	✓	✓	✓	✓	-	-	-	✓	6.3	0.135	0.985	0.440	

330 110 2.2 0.2 2 20 0.5 μ 125 — 50 — 68 2.7 10 200000 — 10600
 Max. Grid-No. 2 Supply Volts, 330 Grid-No. 2 Supply Volts, 50 Max. Grid-No. 2 Volts, 110 Grid-No. 2 Ma., 2.7 Max. Grid-No. 2 Input, 0.2 watt

7895	High-Mu Triode General-Purpose Type	330	110	—	—	1	—	2	15	1* 0.5 μ	110	—	—	0	150	—	7	6800	64	9400
8056	Medium-Mu Triode Low-Voltage Type	—	50	—	—	0.45	—	2	15	10* 10 μ	24	—	—	0	100	—	8.7	1530	11.5	7500
8058	High-Mu Triode Double-Ended Type	330	150	—	—	1.5	—	—	15	1* 0.5 μ	110	—	—	0	47	—	10	5600	70	12400

§For operation at metal shell temperatures up to 150°C.
 *For cathode-bias operation.
 †For fixed-bias operation.

NOVAR RECEIVING TUBES

Type	Name	Cathode Type and Rating		Maximum Dimensions		Maximum Ratings	Characteristics Class A ₁ Amplifier									
		Volts	Amp.	L.	Diam.		Plate Supply Volts	Grid Bias Volts	Grid No. 2 Supply Volts	Grid No. 2 Current Ma	Plate Current Ma	AC Plate Resistance Meg-ohms	Trans-conductance μ mhos	Amplification Factor	Effective Lead Resistance Ohms	Power Output Watts
5BC3	Full-Wave Vacuum Rectifier	5*	3	4.14"	1.562"	With Capacitive-Input Filter	Max. DC Output Ma, 300 for AC Volts per Plate, 500 Total Effective Supply Impedance per Plate, 82 ohms Max. Peak Inverse Plate Volts, 1700 Max. Peak Plate Ma per Plate, 1000									
						With Inductive Input Filter	Max. DC Output Ma, 300 for AC Volts per Plate, 600 and Input Choke 10 henries Max. Peak Plate Ma per Plate, 1000 Max. Peak Inverse Plate Volts, 1700									
6AY3 12AY3 17AY3	Half-Wave Vacuum Rectifiers	6.3 12.6† 16.8†	1.2 0.6 0.45	3.84"	1.188"	Max. Peak Inverse Plate Volts, 5000 Max. Peak Plate Ma, 1100 Max. DC Plate Ma, 175	Max. Peak Heater-Cathode Volts, -5000 (DC Component Not to Exceed 900 Volts) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts)									
	Half-Wave Vacuum Rectifier	6.3	1.2	3.08"	1.188"	Max. Peak Inverse Plate Volts, 5000 Max. Peak Plate Ma, 1000 Max. DC Plate Ma, 165	Max. Peak Heater-Cathode Volts, -5000 (DC Component Not to Exceed 900 Volts) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts)									
	General-Purpose Double-Ended Type	6.3 12.6† 16.8†	1.6 0.6 0.45	3.84"	1.188"	Max. Peak Inverse Plate Volts, 5500 Max. Peak Plate Ma, 1100 Max. DC Plate Ma, 180	Max. Peak Heater-Cathode Volts, -5500 (DC Component Not to Exceed 900 Volts) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts)									
					1.188"	Max. Peak Inverse Plate Volts, 4500 Max. Peak Plate Ma, 1300 Max. DC Plate Ma, 250	Max. Peak Heater-Cathode Volts, -4500 (DC Component Not to Exceed 900 Volts Max.) Max. Peak Heater-Cathode Volts, +300 (DC Component Not to Exceed 100 Volts Max.)									

General-Purpose
Double-Ended
Type

330

250

6GF7 10GF7 13GF7	Dual Triodes	6.3 9.7† 13†	0.985 0.6 0.45	3.00"	1.188"	Vertical Deflection Oscillator (Unit 1): Max. Peak Neg.-Pulse Grid Volts, 400 Max. DC Plate Volts, 330 Max. Peak Cathode Ma, 77 Max. Plate Dissipation, 1.5 Watts	250	-3	-	-	1.4	.04	1600	64	-	-
	Unit No. 1 High-Mu Triode Unit No. 2 Low-Mu Triode					Vertical Deflection Amplifier (Unit 2): Max. Peak Positive-Pulse Plate Volts, 1500 Max. Peak Negative-Pulse Grid Volts, 250 Max. Peak Cathode Ma, 175 Max. Plate Dissipation, 11 Watts Max. DC Plate Volts, 330	150	-20	-	-	50	750 ohms	7200	5.4	-	-
6GJ5 12GJ5 17GJ5	Beam Power Tubes (Double- Ended)	6.3 12.6† 16.8†	1.2 0.6 0.45	3.55"	1.562"	Max. DC Supply Volts (DC + Boost), 770 Max. Peak Positive-Pulse Plate Volts, 6500 Max. Peak Negative-Pulse Plate Volts, 1500 Max. Peak Cathode Ma, 550 Max. Plate Dissipation, 17.5 Watts	250	-22.5	150	2.1	70	.015	7100	-	-	-
6GT5 12GT5 17GT5	Beam Power Tubes	6.3 12.6† 16.8†	1.2 0.6 0.45	3.54"	1.562"	Max. DC Supply Volts (DC + Boost), 770 Max. Peak Positive-Pulse Plate Volts, 6500 Max. Peak Negative-Pulse Plate Volts, 1500 Max. Peak Cathode Ma, 550 Max. Plate Dissipation, 17.5 Watts	250	-22.5	150	2.1	70	.015	7100	-	-	-
7868	Power Pentode	6.3	0.8	3.24"	1.188"	Max. Plate Volts, 550 Max. Grid No. 2 Volts, 440 Max. Plate Dissipation, 19 Watts Max. DC Cathode Ma, 90	300	-10	300	8	60	.029	10200	-	3000	11

*Filamentary type.

†Heater has controlled warm-up time for series-string operation.

RCA QUICK-SELECTION GUIDE

To Tubes for Communications, Industry, and Military Uses

VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings ^A	
		Length	Diam.		DC Volts	Dissipation Watts
TRIODES (AIR-COOLED)						
2C4B	6.3	2 ⁹ / ₁₆	1 ⁵ / ₁₆	36	500	5
2C40A	6.3	2 ⁹ / ₁₆	1 ⁵ / ₁₆	35	500	6.5
2C43	6.3	2 ¹¹ / ₁₆	1 ⁵ / ₁₆	48	500	10
3C33	12.6	3 ¹¹ / ₁₆	2 ³ / ₈	11 ♀	±2000 [□]	15 ♀
801A	7.5	5 ³ / ₈	2 ¹ / ₁₆	8	600	20
805	10	8 ¹ / ₂	2 ⁵ / ₁₆	variable	1500	125
809	6.3	6 ⁹ / ₁₆	2 ⁷ / ₁₆	50	1000†	30†
810	10	8 ³ / ₄	2 ¹ / ₄ *	36	2500†	175†
811A	6.3	6 ¹⁵ / ₃₂	2 ⁷ / ₁₆	160	1500†	65†
812A	6.3	6 ¹⁵ / ₃₂	2 ⁷ / ₁₆	29	1500†	65†
826	7.5	3 ¹¹ / ₁₆	2 ³ / ₈	31	1000†	55†
830B	10	6 ¹¹ / ₁₆	2 ¹ / ₁₆	25	1000	60
833A	10	8 ¹³ / ₁₆	4 ¹⁹ / ₃₂	35	3300†	350†
834	7.5	6 ⁷ / ₈	2 ¹¹ / ₁₆	10.5	1250	50
838	10	7 ⁷ / ₈	2 ⁵ / ₁₆	variable	1250	100
845	10	7 ⁷ / ₈	2 ⁵ / ₁₆	5.3	1250	100
1626	12.6	4 ³ / ₈	1 ⁹ / ₁₆	5	250	5
5556	4.5	4 ¹ / ₂	1 ⁵ / ₈	8.5	350	10
8000	10	8 ³ / ₄	2 ³ / ₄ *	16.5	2500†	175†
8005	10	6 ¹¹ / ₁₆	2 ⁷ / ₁₆	20	1500†	85†

TRIODES (WATER-COOLED)

9C21	19.5	24 ¹ / ₂	9 ¹ / ₂	40	17000	40000
207	22	20 ³ / ₄ †	6 ¹⁵ / ₃₂ *	20	15000	10000
880	12.6	11 ¹ / ₂	7	20	10500	20000
889A	11	10 ¹¹ / ₁₆	3 ³ / ₈	21	8500	5000
891	11 ¹ / ₂	20 ³ / ₈	6 ¹⁵ / ₃₂ *	8.5	12000	6000
892	11 ¹ / ₂	20 ³ / ₈	6 ¹⁵ / ₃₂ *	50	15000	10000
5770	11	24 ¹ / ₂	9 ¹ / ₂	40	17000	50000
5771	7.5	11 ⁵ / ₁₆	7	20	12500	22500

†For Intermittent Commercial and Amateur Service.

^AAbsolute values for Continuous Commercial Service, unless otherwise specified. ♀ Per Unit. *Maximum Radius. [□]Peak Value.

RCA Quick Selection Guide

VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings ^A	
		Length	Diam.		DC Volts	Dissipation Watts

SUPER-POWER TRIODES (WATER-COOLED)

2054	5-Megawatt output, plate-pulsed type.
4612	See Technical Bulletin ^B .
7835	10-Megawatt output, plate-pulsed type.

SUPER-POWER SHIELDED-GRID BEAM TRIODES (WATER-COOLED)

4602	7.3 to 7.8	38.4	10.06	60	17500	40000
4603	1.5-Megawatt output, plate-pulsed type to 50 Mc.					
6949	7.3 to 7.8	40	10.06	60	17500	40000
6950/2039	1.5-Megawatt output, plate-pulsed type to 200 Mc.					

TRIODES (FORCED-AIR-COOLED)

2C39A	6.3	2½	1 ¹⁷ / ₆₄	100	1000	100
2C39WA [‡]	Military version of 2C39-A					
9C22	19.5	25	17	41	17000	20000
9C25	6	17½	14¼	32	11500	17500
833A	10	8 ¹³ / ₁₆	4 ¹⁹ / ₃₂	35	4000	450
889RA	11	11½	5 ¹⁹ / ₃₂ *	21	8500	5000
891R	11 [‡]	22	6 ¹⁵ / ₃₂ *	8.5	10000	4000
892R	11 [‡]	22	6 ¹⁵ / ₃₂ *	50	12500	4000
5588	6.3	3 ¹³ / ₃₂	1.76	16	1000	200
5671	11	25	8.5*	40	15000	25000
5713	3.3	4½	2 ¹ / ₁₆	25	1500	250
5762/7C24	12.6	7½ [‡]	4 ¹¹ / ₁₆	29	6200	3000
5762A	12.6	7½ [‡]	4 ¹¹ / ₁₆	29	6200	4000
5786	11	9½	2.895	32	3000	600
5946	6.3	3 ¹³ / ₃₂	1.76	25	7500 [¶]	250
6161	6.3	3 ¹³ / ₃₂	1.76	25	1600	250
6897	6.3	2½	1 ¹⁷ / ₆₄	95	1000	70

TETRODES (AIR-COOLED)

860	10	8¼ [‡]	4¼*	1100 [∅]	3000	100
861	11	17 ⁷ / ₃₂	6¾*	2400 [∅]	3500	400

*Maximum Radius. [‡]Per Section.

^AAbsolute values for Continuous Commercial Service, unless otherwise specified.

[¶]Peak Positive-Pulse Plate-Supply Volts.

[‡]Excluding Flexible Leads.

[∅]Transconductance.

[‡]For severe shock and vibration.

^BRated for Linear Accelerator Service.

RCA Quick Selection Guide VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Trans-conductance* Micro-mhos	Max. Plate Ratings [†]	
		Length	Diam.		DC Volts	Dissipation Watts

TETRODES (WATER-COOLED)

8D21	3.2	12 ⁹ / ₃₂	5 ³ / ₄	5 $\frac{1}{2}$ ♀	6000	6000
------	-----	---------------------------------	-------------------------------	-------------------	------	------

BEAM POWER TUBES (FORCED-AIR-COOLED)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings [†]	
		Length	Diam.		DC Volts	Dissipation Watts
4-65A	6	4 ³ / ₈	2 ³ / ₈	5	3000	65
4-125A/4D21	5	5 ¹¹ / ₁₆	2 ⁷ / ₈	5.9	3000	125
4-250A/5D22	5	6 ³ / ₈	3 ⁹ / ₁₆	5.1	4000	250
4-400A	5	6 ³ / ₈	3 ⁹ / ₁₆	5.1	4000	400
4-1000A	7.5	9 ³ / ₈	5 ¹ / ₄	7	6000	1000
4CX250B	See 7203/4CX250B					
4CX250F	See 7204/4CX250F					
4X150A	See 7034/4X150A					
4X150D	See 7035/4X150D					
4X500A	5	4 ³ / ₈	2 ³ / ₈	6.2	4000	500
827R	7.5	6 ³ / ₈ ♂	4 ¹¹ / ₁₆	16	3500	800
4600A	5.5	3.405	3.760	17	3500	1750
4614	6.3	2.40	2.09	13	2500	600
6155/4-125A	5	5 ³ / ₃₂	2 ⁷ / ₁₆	6.2	3000	125
6156/4-250A	5	5 ²⁹ / ₃₂	3 ⁷ / ₁₆	5.1	4000	250
6166	5	11.63	6.38	10	6900	10000
6166A/7007	5	11.5	6.38	10	7500	10000
6181	120*	7 ¹ / ₄	5 ¹ / ₃₂	7	2000	2000
6816	6.3	1.955	1.265	18	1000	115
6884	Same as 6816 but has 26.5-volt heater.					
7034/4X150A	6	2 ¹ / ₃₂	1.640	5 §	• •	250
7035/4X150D	Same as 7034/4X150A but has 26.5-volt heater.					
7094	6.3	5	2.56	7 §	1500†	125†

*Maximum

†Absolute values for Continuous Commercial Service.

‡For Intermittent Commercial and Amateur Service.

§Grid-Screen Mu-Factor.

• • Max. DC plate volts, 2000 for frequencies up to 150 mc; max. DC plate volts, 1250 for frequencies of 150 mc to 500 mc.

♠Excluding flexible leads.

♀ Per Unit.

RCA Quick Selection Guide

VACUUM POWER TUBES

BEAM POWER TUBES (FORCED-AIR-COOLED) (cont'd)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor	Max. Plate Ratings [†]	
		Length	Diam.		DC Volts	Dissipation Watts
7203/4CX250B	6	2.464	1.640	5.2 $\frac{1}{2}$	2000	250
7204/4CX250F	Same as 7203/4CX250B but has 26.5-volt heater.					
7213	5.5	3.34	3.75	17 $\frac{1}{2}$	2500	1500
7214	See Technical Bulletin. [‡]					
7457	See Technical Bulletin. [‡]					
7580	See Technical Bulletin. [‡]					
7649	See Technical Bulletin. [‡]					
7650	6.3	2.40	2.07	13 $\frac{1}{2}$	2500	600
7651	See Technical Bulletin. [‡]					
8121	13.5	2.20	1.44	12	2200	150
8122	13.5	2.26	1.64	12	2200	400

BEAM POWER TUBES (CONDUCTION-COOLED)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Amplification Factor §	Max. Plate Ratings [†]	
		Length	Diam.		DC Volts	Dissipation Watts
7801	12.6	1.195	0.740	30	750	25
7842 $\frac{1}{2}$	6.3	1.955	1.119	18	1000	115
7843	26.5	1.955	1.119	18	1000	115
7844	6.3	1.955	1.119	18	1000	115
7870	6.3	1.195	0.740	30	750	25
8072	12 to 15	2.26	1.44	11	2200	100

BEAM POWER TUBES AND PENTODES (AIR-COOLED)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Trans-conductance	Max. Plate Ratings [†]	
		Length	Diam.		Micro-mhos	DC Volts
2E24	6.3	3 $\frac{1}{32}$	1 $\frac{1}{16}$	7.5 $\frac{1}{2}$	600†	13.5†
2E26	6.3	3 $\frac{1}{32}$	1 $\frac{1}{16}$	6.5 $\frac{1}{2}$	600†	13.5†
3E29 \emptyset	Similar to type 829 B but for pulsed operation.					
4E27/8001	5	6 $\frac{1}{16}$	2 $\frac{1}{16}$	2800	4000	75-
4E27A/ 5-125B	5	6 $\frac{1}{16}$	2 $\frac{1}{8}$	2150	4000	125
802	6.3	5 $\frac{1}{2}$	2 $\frac{1}{16}$	2250	600†	13†
803	10	9 $\frac{1}{2}$	2 $\frac{1}{16}$	4000	2000	125
804	7.5	7 $\frac{1}{16}$	2 $\frac{1}{16}$	3250	1500†	50†
807	6.3	5 $\frac{1}{2}$	2 $\frac{1}{16}$	6000	750†	30†
813	10	7 $\frac{1}{2}$	2 $\frac{9}{16}$	3750	2250†	125†
814	10	7 $\frac{1}{16}$	2 $\frac{1}{16}$	3300	1500†	65†
815 \emptyset	6.3/12.6	4 $\frac{1}{16}$	2 $\frac{1}{8}$	4000*	500†	25†

[†]Absolute values for Continuous Commercial Service.

[‡]For Intermittent Commercial and Amateur Service.

[§]Grid-Screen Mu-Factor.

\emptyset Twin Unit Type.

*Per section.

[‡]Pulse Type.

[§]For severe shock and vibration.

RCA Quick Selection Guide

VACUUM POWER TUBES

BEAM POWER TUBES AND PENTODES (AIR-COOLED) (cont'd)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Trans-conductance Micro-mhos	Max. Plate Ratings [▲]	
		Length	Diam.		DC Volts	Dissipation Watts
828	10	7 ¹¹ / ₁₆	2 ¹ / ₁₆	2700	1500†	80†
829BØ	6.3/12.6	4 ⁵ / ₁₆	2 ⁵ / ₈	8500 •	750†	40†
832AØ	6.3/12.6	3 ⁵ / ₁₆	2 ⁵ / ₈	3500 •	750†	20†
837	12.6	5 ³ / ₄	2 ¹ / ₁₆	3400	500	12
1624	2.5	5 ³ / ₄	2 ¹ / ₁₆	4000	600	25
1625	12.6	5 ³ / ₄	2 ¹ / ₁₆	6000	750†	30†
4604	6.3	3 ¹³ / ₁₆	1 ²¹ / ₃₂	6000	750	25
5618	3.0/6.0	2 ⁵ / ₈	3/4	3600	300†	5†
5763	6	2 ⁵ / ₈	3/8	7000	350†	17†
6146	6.3	3 ¹³ / ₁₆	1 ²³ / ₃₂	4.5§	750†	25†
6159	Same as 6146 but has 26.5-volt heater					
6293	See Technical Bulletin. □					
6417	Same as 5763 but has 12.6-volt heater.					
6524Ø	6.3	3 ⁹ / ₁₆	1 ¹¹ / ₁₆	4500 •	600†	25†
6850Ø	Same as 6524 but has 12.6-volt heater.					
6883	Same as 6146 but has 12.6-volt heater.					
6893	Same as 2E26 but has 12.6-volt heater.					
6939Ø	6.3/12.6	2 ⁵ / ₈	0.875	10500 •	250 [▲] †	7.5 [▲] †
7054	13.5	2 ⁵ / ₈	0.875	11500	300	5
7060*	13.5	2 ¹ / ₁₆	0.875	7000	300	2.75
7212	6.3	3 ¹³ / ₁₆	1 ²¹ / ₃₂	7000	750†	25†
7357	Same as 7212 but has 26.5-volt heater.					
7358	See Technical Bulletin. □					
7551	13.5	2 ⁵ / ₈	3/8	5300	300	12†
7558	6.3	2 ⁵ / ₈	3/8	5300	300	12†

SUPER-POWER BEAM POWER TUBES (LIQUID-COOLED)

2029	1.35 •	8.22	11.38	8§	9000	30000
2041	300-kw peak output, long-pulse type.					
4605V2	2-Megawatt peak output, plate-pulsed type.					
6448	1.35 •	7.97	11.38	8§	7000	26000
6952¶	2-Megawatt peak output, plate-pulsed type.					

SUPER-POWER BEAM POWER TUBE (WATER-COOLED)

6806	1.35 •	7.97	11.38	8§	9000	35000
------	--------	------	-------	----	------	-------

▲Absolute values for Continuous Commercial Service.

†For Intermittent Commercial and Amateur Service.

§Grid-Screen Mu-Factor.

ØTwin Unit Type. ¶Gov't end use only.

• Per section.

□Pulse Type.

*Includes a triode unit.

▲Push-pull operation.

RCA Quick Selection Guide

GLOW-DISCHARGE (COLD-CATHODE) TUBES

Type	Maximum Dimensions Inches		Operating Volts	Operating Current DC Ma.	
	Length	Diam.		Min.	Max.

VOLTAGE-REGULATOR TYPES

OA2	2 $\frac{1}{2}$	$\frac{3}{4}$	151	5	30
OA3	4 $\frac{1}{2}$	1 $\frac{1}{16}$	75	5	40
OB2	2 $\frac{1}{2}$	$\frac{3}{4}$	108	5	30
OC2	2 $\frac{1}{2}$	$\frac{3}{4}$	75	5	30
OC3	4 $\frac{1}{2}$	1 $\frac{1}{16}$	108	5	40
OD3	4 $\frac{1}{2}$	1 $\frac{1}{16}$	150	5	40
991	1 $\frac{1}{16}$	$\frac{3}{8}$	59	0.4	2
5651*	2 $\frac{1}{2}$	$\frac{3}{4}$	87	1.5	3.5
6073	2 $\frac{1}{2}$	$\frac{3}{4}$	151	5	30
6073/OA2	2 $\frac{1}{2}$	$\frac{3}{4}$	151	5	30
6074	2 $\frac{1}{2}$	$\frac{3}{4}$	108	5	30
6074/OB2	2 $\frac{1}{2}$	$\frac{3}{4}$	108	5	30

Type	Dimensions Inches		Max. Ratings		
	Length	Diam.	Peak Anode Volts	Peak Cathode Ma.	Av. Cathode Ma.

RELAY TYPES

OA4G	4 $\frac{1}{2}$	1 $\frac{1}{16}$	225	100	25
1C21	2 $\frac{1}{2}$	1 $\frac{1}{16}$	180	100	25
5823	2 $\frac{1}{2}$	$\frac{3}{4}$	200	100	25

RECTIFIERS

Type	Heater or Filament Volts	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Amp. Av.

VACUUM TYPES

2X2A	2.5	4 $\frac{17}{32}$	1 $\frac{1}{16}$	12500†	0.0075†#
5R4GY□	5	5 $\frac{5}{16}$	2 $\frac{1}{16}$	2400	0.175†
5R4GYB□	5	4 $\frac{1}{4}$	1 $\frac{1}{16}$	2650△	0.250△
579B	2.5	7 $\frac{1}{16}$	2 $\frac{1}{16}$	20000	0.025
836	2.5	6 $\frac{9}{16}$	2 $\frac{7}{16}$	5000	0.25
1616	2.5	6 $\frac{13}{16}$	2 $\frac{1}{16}$	6000	0.13
5825	1.6	5 $\frac{27}{32}$	2 $\frac{1}{16}$	60000	0.002
8013A	2.5	6 $\frac{1}{16}$	2 $\frac{1}{16}$	40000	0.020
8020	5	8	2 $\frac{5}{16}$	40000	0.100

*Voltage reference type.

#Per plate.

†Design center values.

□Full-Wave Type.

△Abs. Max. values

RCA Quick Selection Guide

RECTIFIERS (cont'd)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Amp. Av.

MERCURY-VAPOR TYPES

83 [□]	5	5½	2 ¹ / ₁₆	1550†	0.225†
575A	5	11½	3½	15000	1.5
604/7014 [□]	2.5	7½	2 ¹ / ₁₆	900	2.5
615/7018	2.5	6½	2 ¹ / ₁₆	2000	2.5
635/7019	2.5	9½	2 ¹ / ₁₆	1000	6.4
635L/7020	2.5	9½	2 ³ / ₁₆	1000	6.4
673	5	11 ⁷ / ₁₆	3½	15000	1.5
816	2.5	4 ¹¹ / ₁₆	1 ⁹ / ₁₆	7500	0.125
857B	5	19 ³ / ₈ ♦	7½	22000	10
866A	2.5	6 ⁹ / ₁₆	2 ⁷ / ₁₆	10000	0.25
869B	5	14 ⁷ / ₁₆	5½	20000	2.5
872A	5	8½	2 ⁵ / ₁₆	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11½	3 ¹³ / ₁₆	3000	6.4
6894	5	10 ¹⁷ / ₃₂	2 ⁵ / ₈	20000	1.8
6895	5	10 ¹³ / ₃₂	2 ⁵ / ₈	20000	1.8
8008	5	8½	2 ⁵ / ₁₆	10000	1.25

GAS TYPES

3B25	2.5	6 ⁵ / ₁₆	2 ¹ / ₁₆	4500	0.5
3B28	2.5	6 ⁵ / ₃₂	2 ¹ / ₁₆	10000	0.25

THYRATRONS

TRIODES

C1K/6014	2.5	4½	1 ⁹ / ₁₆	1250	1.0
C3J/5632	2.5	6	1 ⁹ / ₁₆	1250	2.5
C3JA/5684	2.5	6	1 ⁹ / ₁₆	1250	2.5
C3JL	2.5	6½	2 ³ / ₁₆	1250	2.5
C6J/5C21	2.5	9½	2 ¹ / ₃₂	1250	6.4
C6JA/5685	2.5	9½	2 ¹ / ₃₂	1250	6.4
C16J/5665	2.5	10½♦	2 ¹¹ / ₁₆	1250	18
3C23	2.5	6½	2 ¹ / ₁₆	1250	1.5
627	2.5	7	2 ⁷ / ₁₆	2500	0.64
629	2.5	4½	1 ⁹ / ₁₆	350	0.04
676	5	11½	3 ¹³ / ₁₆	2500	6.4
677	5	11½	3 ¹³ / ₁₆	10000	4.0
710/6011	2.5	6½	1½	1500	2.5
714/7021	2.5	6½	2 ¹ / ₁₆	1250	1.0
716/6855	2.5	4½	1 ⁹ / ₁₆	1250	1.0
760/6858	2.5	9½	2 ⁹ / ₁₆	1500	6.4
884	6.3	4½	1 ⁹ / ₁₆	350 [△]	0.075⊕
885	2.5	4 ³ / ₁₆	1 ⁹ / ₁₆	350 [△]	0.075⊕
5557	2.5	6½	2 ¹ / ₁₆	5000	0.5

□ Full-Wave Type.

* Maximum Radius.

† Design Center Values.

♦ Excluding Flexible Leads.

△ Forward Peak Anode Volts.

⊕ Average Cathode Amp.

RCA Quick Selection Guide

THYRATRONS (cont'd)

Type	Heater or Filament	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Av. Amp.

TRIODES (cont'd)

5559	5	7 $\frac{1}{8}$	3	1000	2.5
5563A	5	10 $\frac{17}{32}$	2 $\frac{3}{8}$	20000	1.6
6130/3C45	6.3	5 $\frac{3}{16}$	1 $\frac{1}{16}$	3000	0.045

TETRODES

2D21	6.3	2 $\frac{1}{8}$	$\frac{3}{4}$	1300	0.1⊕
3D22A	6.3	4 $\frac{5}{8}$	2 $\frac{3}{8}$	1500	0.8
105	5	11 $\frac{1}{4}$ #	2 $\frac{1}{2}$ *	2500	6.4
172	5	10 $\frac{27}{32}$	2 $\frac{3}{8}$ *	2000	6.4
502A	6.3	2 $\frac{3}{8}$	1 $\frac{1}{16}$	1300	0.1⊕
632B	5.0	8 $\frac{5}{16}$	1 $\frac{1}{4}$ *	1500	2.5
672A	5	8 $\frac{1}{8}$	2 $\frac{5}{16}$	2500	3.2
2050	6.3	4 $\frac{1}{8}$	1 $\frac{9}{16}$	1300	0.1⊕
2050A	6.3	3 $\frac{1}{16}$	1 $\frac{9}{32}$	1300	0.1⊕
5560	5	7 $\frac{13}{16}$	2 $\frac{1}{4}$ *	1000	2.5
5696	6.3	1 $\frac{3}{4}$	$\frac{3}{4}$	500	0.025⊕
5727	6.3	2 $\frac{1}{8}$	$\frac{3}{4}$	1300	0.1⊕
6012	6.3	4 $\frac{1}{4}$	1 $\frac{23}{32}$	1300	0.5⊕

IGNITRONS

Type	Maximum Dimensions Inches			Max. Anode Ratings ††		Max. Anode Rating* †	
	Size	Approx. Length	Radius	KVA Demand	Corresponding Av. Anode Amp.	Peak Inv. Volts	Av. Amp.
1051A	(B)	13#	2 $\frac{3}{8}$	600	30.2	1500¶	18¶
1052A	(C)	15 $\frac{1}{4}$ #	3 $\frac{5}{8}$	1200	75.6	500	100
5550	(A)	10#	1 $\frac{1}{2}$	300	12.1	—	—
5551A	(B)	13 $\frac{1}{2}$ #	2 $\frac{3}{8}$	600	30.2	1500¶	18¶
5552A	(C)	15 $\frac{1}{4}$ #	3 $\frac{5}{8}$	1200	75.6	—	—
5553B	(D)	20#	4 $\frac{11}{16}$	2400	192.	1500¶	112¶
5555		18 $\frac{1}{2}$ #	4 $\frac{9}{16}$	—	—	2100	150

□ Full-Wave Type.

* Maximum Radius.

† Design Center Values.

¶ For frequency-changer resistance-welding service.

Excluding Flexible Leads.

△ Forward Peak Anode Volts.

⊕ Average Cathode Amp.

RCA Quick Selection Guide

PHOTOTUBES

Type	Maximum Dimensions Inches		Max. Anode-Supply Volts	Luminous Sensitivity Microamp. Per Lumen	Spectral Response
	Length	Diam.			
GAS TYPES					
1P29	4 1/8	1 1/8	100	40	S-3
1P37	4 1/8	1 1/8	100	135	S-4
1P40	Same as 930 except for non-hygroscopic base.				
1P41	2 1/16	1 3/16	90	90	S-1
868	4 1/8	1 1/8	100	90	S-1
918	4 1/8	1 1/8	90	150	S-1
920†	4	1 3/16	90	100	S-1
921	1 23/32	0.890	90	135	S-1
923	3 9/16	1 3/16	90	135	S-1
927	2 13/32	0.669	90	125	S-1
928	3 9/16	1 3/16	90	65	S-1
930	3 1/16	1 9/32	90	135	S-1
4409	3 3/16	1 9/32	100	135	S-4
5581	3 1/16	1 9/32	100	135	S-4
5582	1 23/32	0.890	100	120	S-4
5583	2 13/32	0.669	100	135	S-4
5584‡	4	1 3/16	100	120	S-4
6405/1640	4 7/16	1 1/8	90	35	S-1
6953	3 3/16	1 9/32	90	200	S-1

VACUUM TYPES

1P39	Same as 929 except for non-hygroscopic base.				
1P42	1 13/32	1/4	180	37	S-9
917	4 7/16	1 1/8	500	20	S-1
919	4 7/16	1 1/8	500	20	S-1
922	1 11/16	0.890	500	20	S-1
925	2 5/8	1 9/32	250	20	S-1
926	1 23/32	0.890	500	6.5	S-3
929	3 1/16	1 9/32	250	45	S-4
934	2 13/32	0.669	250	30	S-4
935	4 1/4	1 9/32	250	35	S-5
5652*	2 3/8	1 9/32	250	45	S-4
5653	3 1/16	1 9/32	250	45	S-4
6570	4 7/16	1 1/8	500	30	S-1
7043	3 5/16	1 9/32	250	45	S-4

*Maximum Radius. ††For welder-control service.

*†For power rectification.

‡For frequency-changer resistance-welding service.

‡Excluding Flexible Leads.

♂ Average Cathode Amp.

RCA Quick Selection Guide

MULTIPLIER PHOTOTUBES

Type	Maximum Dimensions Inches		Max. Anode-Supply Volts	Luminous Sensitivity Amp/Lumen	Spectral Response
	Length	Diam.			
1P21	3 ¹¹ / ₁₆	1 ⁵ / ₁₆	1250	80 •	S-4
1P22	3 ¹¹ / ₁₆	1 ⁵ / ₁₆	1250	1.0 •	S-8
1P28	3 ¹¹ / ₁₆	1 ⁵ / ₁₆	1250	50 •	S-5
931-A	3 ¹¹ / ₁₆	1 ⁵ / ₁₆	1250	24 •	S-4
2020	5 ¹³ / ₁₆	2 ⁹ / ₁₆	1500	6 • •	S-11
4438	3.91	1.56	1250	27 • •	S-11
4439	3.91	1.56	1250	27 •	S-11
4440	4.12	1.56	1250	27 •	S-11
4441	3.18	1.56	1250	27 •	S-11
5819	5 ¹³ / ₁₆	2 ⁹ / ₁₆	1250	25 •	S-11
6199	4.57	1.56	1250	27 •	S-11
6217	5 ¹³ / ₁₆	2 ⁹ / ₁₆	1250	24 •	S-10
6328 ^A	3.12	1.31	1250	35 •	S-4
6342A	5.81	2.31	1500	14 • •	S-11
6472 ^A	2 ³ / ₄ †	1 ³ / ₁₆	1250	35 • •	S-4
6655A	5 ¹³ / ₁₆	2 ⁹ / ₁₆	1250	50 •	S-11
6810A	7 ¹ / ₂	2 ³ / ₄	2400	875 ♦	S-11
6903	6 ⁹ / ₁₆	2 ⁵ / ₁₆	1250	24 •	S-13
7029	3.75	1.56	1250	40 •	S-17
7046	11 ¹ / ₈	5 ¹ / ₄	3400	180 /	□
7102	4.57	1.56	1500	4.5 • •	S-1
7117 ^A	3.12	1.31	1250	35 •	S-4
7200	5.69	1.31	1250	40 •	S-19
7264	7.5	2.38	2400	875 ♦	S-11
7265	7.5	2.38	3000	1400 §§	S-20
7326	6.78	2.38	2400	22.5 §	S-20
7746	6.12	2.31	2500	1200 ♦	S-11
7764	2.75	.78	1500	0.3 †	S-11
7767	4	.78	1500	7.5 • •	S-11
7850	6.31	2.06	2600	6000 †	S-11
8053	5.81	2.31	2000	120 ♦	S-11
8054	6.31	3.06	2000	120 ♦	S-11
8055	7.69	5.31	2000	120 ♦	S-11

†Twin type. *Twin type; each unit has a composite anode-cathode.
^AFor headlight dimming service. †Excluding flexible leads. • With Supply Volts=1000. • • With Supply Volts=1250. ♦With Supply Volts=2000. /With Supply Volts=2800. □Extended S-11, with response 2500 to 6500 Angstroms. §§With Supply Volts=2400. §With Supply Volts=1800. †With Supply Volts=1200. †With Supply Volts=2300.

RCA Quick Selection Guide

PHOTOCONDUCTIVE CELLS

Type	Min. Sensitive Area sq. in.	Characteristics at 25° C.		Maximum Decay Current μa
		Voltage between Terminals Volts	Median Photo-Current ma	
4403	0.35	50 ac	11.5*	78
4404	0.35	50 ac	3.7*	40
4408	0.35	50 ac	2.0*	40
4423	0.048	12 dc	0.5†	10
4425	0.048	12 dc	6.0*	35
4442	0.35	50 ac	3.7*	40
6957	0.35	50 dc	4.0*	40
7163	0.35	50 ac	2.0*	40
7412	0.004	12 dc	0.11*	1
7536	0.004	12 dc	0.11*	1

†At 10 footcandles. *At 1 footcandle.

PHOTOJUNCTION CELLS

Type	Maximum Dimensions		Characteristics at 25° C.		
	Length Inches	Diameter Inches	Voltage between Terminals dc Volts	Illumination Sensitivity $\mu\text{a}/\text{fc}$	Maximum Dark Current μa
4420	1.10*	0.350	45	0.7	35
7467	0.875*	0.350	45	0.7	35

*Excluding flexible leads.

ELECTROSTATIC DEFLECTION TYPES

Type	Max. Overall Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Volts DC/In† Deflection Factor	
				DJ ₁ -DJ ₂ ††	DJ ₃ -DJ ₄ *

OSCILLOGRAPH TYPES—Medium Persistence

1EP1	4 $\frac{1}{16}$	1 $\frac{1}{16}$	1500	210-310	240-350
2AP1-A	7 $\frac{1}{8}$	1 $\frac{1}{4}$	1000	195-265	167-225
2BP1	7 $\frac{13}{16}$	1 $\frac{1}{4}$	2500	115-155	74-100
3AP1-A	11 $\frac{1}{8}$	2 $\frac{1}{4}$	1500	61-91	59-87
3AOP1	9 $\frac{1}{8}$	2 $\frac{1}{4}$	2750	73-99	26-35
3BP1-A	10 $\frac{1}{4}$	2 $\frac{1}{4}$	2000	85-115	62-85

†All have 6.3-v heaters except: the 3AP1-A which has 2.5-v heater.

†Per KV of final electrode volts except for post-deflection accelerator types. ††Deflecting electrodes nearer the face. *Deflecting electrodes nearer the base.

● Post-deflection accelerator type.

RCA Quick Selection Guide

ELECTROSTATIC DEFLECTION TYPES

Type	Max. Overall Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Volts DC/In† Deflection Factor	
				DJ ₁ -DJ ₂ ††	DJ ₃ -DJ ₄ *
OSCILLOGRAPH TYPES—Medium Persistence (cont'd)					
3JP1●	10¼	2¾	4000	85-115	62-85
3KP1	11¼	2¾	2500	50-68	38-52
3RP1	9¾	2¾	2500	73-99	52-70
3RP1-A	Same as type 3RP1, except has flat face.				
3WP1	11½	2¾	2500	41.5-50.5	28.5-35
5ABP1●	17½	4⅞	6000	26-36	18-24
5ADP1●	16 ¹⁵ / ₁₆	4½	6000	26.7-33.3	20.3-25
5BP1-A	17½	4½	2000	35-48	32-44
5CP1-A●	17½	4½	4000	39-53	33-45
5UP1	15½	4½	2500	28-39	23-31
7VP1	14¾	6	4000	31-41	25-34
902-A	7¾	1¼	600	183-277	160-235

Medium-Short Persistence:

1EP11	Same as type 1EP1, except for phosphor.				
2BP11	Same as type 2BP1, except for phosphor.				
3KP4	Same as type 3KP1, except for phosphor.				
3KP11	Same as type 3KP1, except for phosphor.				
3WP11	Same as type 3WP1, except for phosphor.				
5ABP11●	Same as type 5ABP1, except for phosphor.				
5CP11-A●	Same as type 5CP1-A, except for phosphor.				
5UP11	Same as type 5UP1, except for phosphor.				

Short Persistence:

5FP15-A	11½	4¾	8000	Mag. focus & deflec.	
---------	-----	----	------	----------------------	--

Medium-Long Persistence:

1EP2	Same as type 1EP1, except for phosphor.				
3WP2	Same as 3WP1, except for phosphor.				

Long Persistence:

5CP12●	Same as type 5CP1-A, except for phosphor.				
5FP14-A	Same as type 5FP15-A, except for phosphor.				

Very Long Persistence:

3JP7●	Same as 3JP1, except for phosphor.				
3KP7	Same as type 3KP1, except for phosphor.				
5ABP7●	Same as type 5ABP1, except for phosphor.				
5AHP7	11¾	4¾	10000	Elec. focus, mag. defl.	
5AHP7-A	Same as 5AHP7, but has aluminized screen.				

†All have 6.3-v heaters except: the 3AP1-A which has 2.5-v heater.
 †Per KV of final electrode volts except for post-deflection accelerator types. ††Deflecting electrodes nearer the face. *Deflecting electrodes nearer the base. ●Post-deflection accelerator type.

RCA Quick Selection Guide CATHODE-RAY TUBES†

Type	Max. Overall Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Deflection Factor Volts DC/In†	
				DJ ₁ -DJ ₂ ††	DJ ₃ -DJ ₄ *

Very Long Persistence: (cont'd)

5CP7-A●	Same as type 5CP1-A, except for phosphor.				
5FP7-A	11½	4¼	8000	Mag. focus & deflec.	
5UP7	Same as type 5UP1 except for phosphor.				
7BP7-A	13¾	6	8000	Mag. focus & deflec.	
7MP7	13¾	6	8000	Mag. focus & deflec.	
10KP7	18	9	10000	Mag. focus & deflec.	
12DP7-A	20¾	10	10000	Mag. focus & deflec.	
16ADP7	22	14¾	14000	Mag. focus & deflec.	

MAGNETIC DEFLECTION TYPES

Type	Max. Overall Length Inches	Min. Screen Diam. Inches	Max. Final Electrode Volts	Max. Focusing Electrode Volts	Deflection Angle Approx. Degrees
------	-------------------------------	-----------------------------	-------------------------------	----------------------------------	-------------------------------------

FLYING-SPOT TYPES:

3KP16	Same as 3KP1, except for phosphor.				
5AUP24#	12¾	4¼	27000	6000	40
5WP15#	11 ¹³ / ₁₆	4¼	27000	6000	50
5ZP16#	14¾	4¼	27000	7000	40

TRANSCRIBER KINESCOPE:

5WP11#	11 ¹³ / ₁₆	4¼	27000	6000	50
--------	----------------------------------	----	-------	------	----

VIEW-FINDER KINESCOPIES:

5AYP4#	11 ¹⁵ / ₁₆	4¼	10000	1500	53
5FP4-A	11½	4¼	8000	‡	53

PROJECTION KINESCOPIES (For Theater Television):

5AZP4#	12 ⁹ / ₁₆	4½	40000	9000	50
7NP4★#	20¾	5x3¾	80000	20000	35
7WP4▲#	20¾	5x3¾	80000	20000	35

MONITOR KINESCOPIES:

7CP4	13 ¹³ / ₁₆	6½	8000	2400	57
7TP4#	13½	6	12000	2000	50
8HP4#	10¾	7 ¹³ / ₁₆ **	14000	1100	90
10SP4#	17	9¾	20000	3000	50
14BAP4	17¾	13 ¹³ / ₁₆ **	22000	800	70
17DWP4	19 ⁹ / ₁₆	15 ⁹ / ₁₆ **	22000	800	70

†All have 6.3-v heaters except: the 3AP1-A which has 2.5-v heater and the 7NP4 and 7WP4 which have 6.6-v heaters. ‡Aluminized.
 ●, †, ††, *See preceding page. *Projection-throw distance=60 ft.
 ▲Projection-throw distance=80 ft. ‡Magnetic focus. **Diagonal.

RCA Quick Selection Guide Camera Tubes

IMAGE ORTHICONS

Type	Illumination on Tube Face Footcandles	Typical Resolution at Operating Light Level		Typical Signal-to-Noise Ratio— Bandwidth 4.5 Mc Target Volts Above Cutoff	
		Amplitude Response at 400 TV Lines Per cent	Limiting Resolution TV Lines	Ratio	
				2	3

FOR COLOR PICKUP

4401	0.7×10^{-2}	50	625	40:1	
4415-4416	1×10^{-2}	40	675	37:1	
7513	3×10^{-2}	45	675	55:1	
7513/V1	3×10^{-2}	45	675	55:1	

FOR BLACK-AND-WHITE PICKUP

4401V1	1.4×10^{-2}	50	625	40:1	
5820A	2×10^{-2}	50	625	40:1	
7198*	1×10^{-2}	—	625	30:1	
7293A	2.4×10^{-2}	40	675	37:1	
7295A†	6×10^{-2}	60	800	—	70:1
7389A†	9×10^{-2}	60	800	—	90:1
8093A	4×10^{-2}	50	675	45:1	

† $1\frac{1}{2}$ " diameter type. *"Ruggedized" type.

VIDICONS

Type	Operating Mode	Illumi- nation on Tube Face Foot- candles	Typical Resolution at Light Level	
			Amplitude Response at 400 TV Lines Per cent	Limiting Resolution TV Lines

$\frac{1}{2}$ "-DIAMETER TYPE:

4427	Max. Sens.	0.4	5	400
------	------------	-----	---	-----

1"-DIAMETER TYPES:

2048A*	Av. Sens.	0.5	30	750
6326	Min. Lag	100	—	750
7038	Av. Sens.	15	30	750
7262A	Av. Sens.	0.5	30	750
7263A*	Av. Sens.	0.5	30	750
7697	Av. Sens.	0.5	30	750
7735A	Av. Sens.	0.5	30	750
8134†	High Sens.	0.1	20	600

$1\frac{1}{2}$ "-DIAMETER TYPE:

8051	Av. Sens.	6	60	1200
------	-----------	---	----	------

*"Ruggedized" types.

†Electrostatic-focus, magnetic-deflection type.

RCA Quick Selection Guide

MONOSCOPES

Type	Maximum Dimensions		Typical Operation			
	Length Inches	Diam. Inches	Pattern Electrode Volts	Grid No. 3 Volts for Focus (Approx.)	Grid No. 2 Volts	Grid No. 1 Volts for Visual Cutoff of Monitor Raster (Approx.)
2F21	12 $\frac{1}{16}$	5 $\frac{1}{16}$	1000	240 to 360	1000	-10 to -70
1699	Custom-built type. Like 2F21, except pattern is individually styled to customer's requirements.					

IMAGE-CONVERTER TUBES

Type	Spectral Response	Phosphor	Average Characteristics at 25° C.			
			Supply Voltage Volts	Min. Infrared Conversion Index	Magnification Factor	Min. Cathode Resolution line-pairs/mm
6032A*	S-1	P20	20	10	0.5	18
6381	S-1	P20	16	10	0.58	25
6914	S-1	P20	16	15	0.76	25
6914A*	S-1	P20	16	15	0.76	25
6929	S-1	P20	12	10	0.75	25
7404	S-21	P20	12	—	0.75	25

*Controlled for threshold visibility.

DISPLAY STORAGE TUBES

Type	Maximum Length Inches	Dimensions Diameter Inches	Writing Speed in./sec	Typical Brightness Foot-lamberts	Typical Resolution lines/in.
4412*	20.75	10.88†	30,000	200	44
6866	15.5	5 $\frac{1}{16}$ †	300,000	2500	50
7183	11.62	5.19†	—	1200	50
7315	13.64	5.31	3,000	2500	50
7448	13.64	5.31	300,000	2500	50

*Has integral magnetic shield.

†Excluding any mounting lugs or encapsulated leads.

RCA Quick Selection Guide

GRAPHECHON

Type	Maximum Length Inches	Dimensions Diameter Inches	Min. Number of Discernible Output Signal Levels	Resolution at 50% Response range rings/display radius
7539	26	3.4	4	150

RADECHON

6499	Useful in digital or analogue information processing systems.
------	---

MAGNETRONS FOR PULSED-OSCILLATOR SERVICE

Type	Heater Volts	Maximum Dimensions Inches			Frequency Range KMc	Min. Peak Power Output Kw	Type of Tuning Adj
		Lgth.	Wdth.	Hght.			
4011A	13.75	7 ¹¹ / ₁₆	4 ⁵ / ₈	6 ⁵ / ₃₂	8.75 — 9.6	215	Hand
6521	10	7 ¹ / ₈	4 ¹ / ₂	7 ⁷ / ₃₂	5.4 ± .02	75	None
6865A	13.75	7 ¹¹ / ₁₆	6	6 ⁵ / ₃₂	8.75 — 9.6	190	Hand
7008	13.75	7 ¹¹ / ₁₆	4 ³ / ₄	8 ¹ / ₄	8.5 — 9.6	200	Servo
7111	13.75	7 ¹¹ / ₁₆	6	6 ⁵ / ₃₂	8.5 — 9.6	200	Hand

TRAVELING-WAVE TUBES

Type	Maximum Dimensions Inches		Frequency Range KMc	Min. Power Output Watts	Min. Small Signal Gain db	Max. Noise Figure db
	Lgth.	Diam.				
4009	15 ³ / ₈	1 ¹ / ₂	2—4	0.01	33	—
4010	15 ³ / ₈	1 ¹ / ₂	2—4	1	33	—
4015	15 ³ / ₈	1 ³ / ₄	8—12	1	33	—
4017	16	1 ¹ / ₂	2—4	0.01	30	16
4019	17 ³ / ₈	1 ¹ / ₂	1—2	0.01	28	17
4020	16	1 ¹ / ₂	4—7	0.01	28	18
4021	16	1 ⁹ / ₁₆ x 1 ⁹ / ₁₆	1—2	1	27	—
4036	19 ³ / ₈	1 ³ / ₈	2.32—2.68	0.001	28	5
6861	19 ³ / ₈	1 ³ / ₈	2.7—3.5	0.00025	20	7
7642	20 ¹ / ₂	1 ⁹ / ₁₆	1.7—2.3	18	28	—

RCA Quick Selection Guide

VACUUM GAUGE TUBES

Type	Class	Pressure Range mm. of Hg
1946	Thermocouple	1 to 0.0001
1947	Pirani	0.5 to 0.01
1949	Ionization	below 0.001
1950	Ionization	Similar to 1949 but of Soft-glass construction

PENCIL TUBES

Type	Heater Volts	Maximum Dimensions Inches		Amplification Factor	Typical Operating Conditions		
		Length	Diam.		Class of Service	Useful Power Output Watts	Frequency Mc

DIODES—For Pulse Detection Service

6173	6.3	2.227	0.320	Max. Values: Peak Inverse Plate Volts, 1000; Peak Pulse Plate Volts, 150; Peak Pulse Plate Amperes, 1; Average Plate ma, 1.			
------	-----	-------	-------	---	--	--	--

TRIODES—Class C Telegraphy Service

4037	6.3	3.125	1.312	30	Osc.	0.45	2000
5675	6.3	2.252	0.817	20	Osc.	0.05	3000
5876	6.3	2.252	0.817	56	Ampl.	5	500
5876A	6.3	2.252	0.817	56	Ampl.	5	500
5893	6.0	2.297	0.817	27	Plate-pulsed Osc.	1200 peak	3300
6263A	6.0	2.63	1.010	27	Ampl.	7	500
6264A	6.0	2.63	1.010	40	Ampl.	7.5	500
7552	6.3	1.620	0.557	80	Class A Ampl.	16.5db	550
7553	6.3	1.620	0.557	80	Class A Ampl.	17db	700
7554	6.3	1.620	0.557	70	Ampl.	1.4	1000

TRIODES—Integral-Cavity Types For Oscillator Service

6562/-	6.0	3.256	0.98	—	Osc.	0.6	1680
5794A	6.0	3.23	0.98	—	Osc.	0.575	1680

RCA Quick Selection Guide

TUBES FOR COMPUTER APPLICATIONS

Type	Description	Class	Cathode		Maximum Ratings	
			Volts	Amp	Plate Dissipation	
					Each Unit	Both Units
5915	Pentagrid Amplifier	7-pin min	6.3	0.3	1	
5963	Medium-Mu	9-pin min	<u>12.6</u>	<u>0.15</u>	2.5	5
	Twin Triode		6.3	0.3		
5964	Medium-Mu	7-pin min	6.3	0.45	1.5	3
5965	Medium-Mu					
		Twin Triode	9-pin min	6.3	0.45	2.4
6197	Power	9-pin min	6.3	0.65	7.5	
6211	Medium-Mu				<u>12.6</u>	<u>0.15</u>
6350	Medium-Mu	9-pin min	<u>6.3</u>	<u>0.3</u>	1.5	3
	Twin Triode		<u>12.6</u>	<u>0.3</u>		
6814	Medium-Mu	9-pin min	<u>6.3</u>	<u>0.6</u>	4	7
	Triode		Sub min	6.3		
6887	Twin Diode	7-pin min	6.3	0.2	—	
7044	Medium-Mu	9-pin min	<u>6.3</u>	<u>0.9</u>	4.5	8
	Twin Triode		<u>12.6</u>	<u>0.45</u>		

MECHANO-ELECTRONIC TRANSDUCER

5734 Triode type for applications involving the translation of mechanical vibration into electrical current variations which can be measured. The internal section of the plate shaft has a minimum free cantilever resonance of 12,000 cycles per second.

KLYSTRON

2K26 Single-resonator reflex type with an integral resonant cavity and mechanical tuning mechanism. For local oscillator service in applications such as microwave receivers.

RCA Quick Selection Guide

"SPECIAL RED" TUBES

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Trans- con- duct- ance Micro- mhos
		Volts	Amp			

GLASS TYPE

5690	Full-Wave Rectifier	12.6 6.3	1.2 2.4	Max. Peak Inverse Plate Volts, 1120 Max. Peak Plate Ma., 375		
5691	High-Mu Twin Triode	6.3	0.6	—	1.0	1600
5692	Medium-Mu Twin Triode	6.3	0.6	—	1.75	2200

METAL TYPE

5693	Sharp-Cutoff Pentode	6.3	0.3	—	2.0	1650
------	----------------------	-----	-----	---	-----	------

PREMIUM TUBES

**For Military Specifications
and Critical Industrial Applications**

Type	Proto- type ^A	Description	Class
0A2-WA*	0A2	Voltage Regulator	7-Pin Min.
0B2-WA*	0B2	Voltage Regulator	7-Pin Min.
2D21-W*	2D21	Thyratron Tetrode	7-Pin Min.
6AC7-W*	6AC7	Sharp-Cutoff Pentode	Metal-Octal
6AU6-WA*	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6AU6-WB*	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6J4-WA*	6J4	High-Mu Triode	7-Pin Min.
6J6-WA*	6J6	Medium-Mu Twin Triode	7-Pin Min.
6X4-W*	6X4	Full-Wave Rectifier	7-Pin Min.
12AT7-WA*	12AT7	High-Mu Twin Triode	9-Pin Min.
407A	2651	Medium-Mu Twin Triode	9-Pin Min.
408A	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5636	—	Sharp-Cutoff Pentode	Subminiature
5639	—	Sharp-Cutoff Pentode	Subminiature
5651	—	Voltage Regulator	7-Pin Min.
5651-WA*	—	Voltage Regulator	7-Pin Min.
5654	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5654/6AK5-W*	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5654/6AK5-W/ 6096*	6AK5	Sharp-Cutoff Pentode	7-Pin Min.

*Types manufactured to conform to a particular military specification.

^A"Premium" types may differ from their prototypes in electrical and/or mechanical characteristics, physical structure, or type of tests to which they are subjected. Tube data should, therefore, be checked before replacing a type in the prototype column with the listed "Premium" type.

RCA Quick Selection Guide

PREMIUM TUBES

For Military Specifications
and Critical Industrial Applications

Type	Proto- type*	Description	Class
5670*	2C51	Medium-Mu Twin Triode	9-Pin Min.
5670-WA*	2C51	Medium-Mu Twin Triode	9-Pin Min.
5686	—	Beam Power Tube	9-Pin Min.
5718	—	Medium-Mu Triode	Subminiature
5719	—	High-Mu Triode	Subminiature
5725	6AS6	Sharp-Cutoff Pentode	7-Pin Min.
5726	6AL5	Twin Diode	7-Pin Min.
5726/6AL5-W*	6AL5	Twin Diode	7-Pin Min.
5726/6AL5-W/ 6097*	6AL5	Twin Diode	7-Pin Min.
5727	2D21	Thyratron Tetrode	7-Pin Min.
5727/2D21-W*	2D21	Thyratron Tetrode	7-Pin Min.
5749	6BA6	Remote-Cutoff Pentode	7-Pin Min.
5749/6BA6-W*	6BA6	Remote-Cutoff Pentode	7-Pin Min.
5750	6BE6	Pentagrid Converter	7-Pin Min.
5751*	12AX7	High-Mu Twin Triode	9-Pin Min.
5751-WA*	12AX7	High-Mu Twin Triode	9-Pin Min.
5814A*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5814-WA*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5840	—	Sharp-Cutoff Pentode	Subminiature
5842/417A	—	Medium-Mu Triode	9-Pin Min.
5847/404A	—	RF Amplifier Pentode	9-Pin Min.
5896*	—	Twin Diode	Subminiature
5899	—	Semiremote-Cutoff Pentode	Subminiature
5902	—	Beam-Power Tube	Subminiature
6005	6AQ5	Beam-Power Tube	7-Pin Min.
6005/6AQ5-W*	6AQ5	Beam-Power Tube	7-Pin Min.
6005/6AQ5-W/ 6095*	6AQ5	Beam-Power Tube	7-Pin Min.
6021	—	Medium-Mu Twin Triode	Subminiature
6072	12AY7	Medium-Mu Twin Triode	9-Pin Min.
6073	0A2	Voltage Regulator	7-Pin Min.
6073/0A2	0A2	Voltage Regulator	7-Pin Min.
6074	0B2	Voltage Regulator	7-Pin Min.
6074/0B2	0B2	Voltage Regulator	7-Pin Min.
6080-WA*	6AS7-G	Low-Mu Twin Power Triode	Glass-Octal
6099	6J6	Medium-Mu Twin Triode	7-Pin Min.
6101	6J6	Medium-Mu Twin Triode	7-Pin Min.
6101/6J6-WA*	6J6	Medium-Mu Twin Triode	7-Pin Min.
6111	—	Medium-Mu Twin Triode	Subminiature
6112*	—	High-Mu Twin Triode	Subminiature
6136	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6186	6AG5	Sharp-Cutoff Pentode	7-Pin Min.

*Types manufactured to conform to a particular military specification.

^"Premium" types may differ from their prototypes in electrical and/or mechanical characteristics, physical structure, or type of tests to which they are subjected. Tube data should, therefore, be checked before replacing a type in the prototype column with the listed "Premium" type.

RCA Quick Selection Guide

PREMIUM TUBES

For Military Specifications
and Critical Industrial Applications

Type	Proto-type*	Description	Class
6186/ 6AG5-WA*	6AG5	Sharp-Cutoff Pentode	7-Pin Min.
6189/ 12AU7-WA*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
6201	12AT7	High-Mu Twin Triode	9-Pin Min.
6205	5840	Sharp-Cutoff Pentode	Subminiature
6206	5899	Semiremote-Cutoff Pentode	Subminiature
6386	2C51	Medium-Mu Twin Triode	9-Pin Min.
7905	—	Beam-Power Tube	9-Pin Min.
8077/7054	12BY7A	Power Pentode	9-Pin Min.

TUBES FOR SPECIAL APPLICATIONS

Type	Description	Heater or Filament		Fre- quen- cy Mc	Max. Plate Dissi- pation Watts	Trans- con- duct- ance Micro- mhos
		Volts	Amp			

MINIATURE

1L4	Sharp-Cutoff Pentode	1.4	0.05	—	—	1,025
3A4	Power Pentode	1.4 2.8	0.2 0.1	—	2.0	1,900
3A5	Medium-Mu Twin Triode	1.4 2.8	0.22 0.11	40	1.0	1,800
6AK6	Power Pentode	6.3	0.15	—	2.75	2,300
6AS6	Sharp-Cutoff Pentode	6.3	0.175	—	1.7	3,200
6J4	UHF Amplifier Triode	6.3	0.4	500	2.25	12,000
26A6	Remote-Cutoff Pentode	26.5	0.07	—	3.0	4,000
26C6	Twin-Diode—Medium-Mu Triode	26.5	0.07	—	2.5	1,900
26D6	Pentagrid Converter	26.5	0.07	—	1.0	475
407A	Medium-Mu Twin Triode	20	0.10	800	1.5	5,500
408A	Sharp-Cutoff Pentode	20	0.05	—	1.7	5,600

*Types manufactured to conform to a particular military specification.
 *"Premium" types may differ from their prototypes in electrical and/or mechanical characteristics, physical structure, or type of tests to which they are subjected. Tube data should, therefore, be checked before replacing a type in the prototype column with the listed "Premium" type.

RCA Quick Selection Guide

TUBES FOR SPECIAL APPLICATIONS (cont'd)

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Trans- con- ductance Micro- mhos
		Volts	Amp			

MINIATURE (cont'd)

5842	Medium- μ Triode	6.3	0.3	—	4.0	27,000
5847	Sharp-Cutoff Pentode	6.3	0.3	—	3.0	13,000
6922	Medium-Mu Twin Triode	6.3	0.3	—	1.5	10,000 to 15,000
7360	Beam-Deflec- tion Tube	6.3	0.35	100	—	—
9001	Sharp-Cutoff Pentode	6.3	0.15	—	0.5	1,400
9002	UHF Oscillator Triode	6.3	0.15	500	—	2,200
9003	RF or IF Mixer Pentode	6.3	0.15	—	—	1,800
9006	UHF Diode	6.3	0.15	700	—	—

METAL AND GLASS TYPES

6AG7-Y	Power Pentode	6.3	0.65	—	9.0	11,000
6AS7-G	Low-Mu Twin Triode	6.3	2.5	—	13.0	7,000
6F4	Oscillator Triode	6.3	0.225	—	2.0	—
6L4	Oscillator Triode	6.3	0.225	—	1.7	6,400
6SJ7-Y	Sharp-Cutoff Pentode	6.3	0.3	—	2.5	1,650
12A6	Beam Power Tube	12.6	0.15	—	7.5	3,000
12SW7	Twin-Diode— Medium-Mu Triode	12.6	0.15	—	2.5	1,900
12SX7-GT	Medium-Mu Twin Triode	12.6	0.3	—	2.5	2,600
12SY7	Pentagrid Converter	12.6	0.15	—	1.0	450
26A7-GT	Twin Beam Power Tube	26.5	0.6	—	2.0	5,700
954	Sharp-Cutoff Pentode	6.3	0.15	430	0.5	1,400
955	Medium-Mu Triode	6.3	0.15	600	8.0	—
956	Remote-Cutoff Pentode	6.3	0.15	430	1.7	600

RCA Quick Selection Guide

TUBES FOR SPECIAL APPLICATIONS (cont'd)

Type	Description	Heater or Filament		Frequency Mc	Max. Plate Dissipation Watts	Trans- con- ductance Micro- mhos
		Volts	Amp			
METAL AND GLASS TYPES (cont'd)						
957	Medium-Mu Triode	1.25	0.05	—	—	650
958A	Medium-Mu Triode	1.25	0.1	350	0.6	—
959	Sharp-Cutoff Pentode	1.25	0.05	—	—	600
1609	Sharp-Cutoff Pentode	1.1	0.25	—	—	725
1612	Pentagrid Mixer	6.3	0.3	—	—	375
1620	Sharp-Cutoff Pentode	6.3	0.3	—	1.75	1,900
1621	Power Pentode	6.3	0.7	—	7.9	—
1622	Beam Power Tube	6.3	0.9	—	13.8	—
1629	Electron Ray Tube	12.6	0.15	Plate and target supply volts, 250. At zero grid bias, shadow angle = 90°. At -7.5 volts grid bias, shadow angle = 0°.		
1631	Beam Power Tube	12.6	0.45	—	16.0	—
1635	High-Mu Twin Triode	6.3	0.6	—	3.0	—
5642	Half-Wave Rectifier	1.25	0.2	Max. peak inverse volts, 10,000. Max. DC plate ma, 0.25		
5687	Medium-Mu Twin Triode	6.3 12.6	0.9 0.45	—	4.2	11,500
6026	Oscillator Triode	6.3	0.2	400	3.0	—
6080	Low-Mu Twin Triode	6.3	2.5	—	13.0	—
6082	Low-Mu Twin Power Triode	26.5	0.6	—	13.0	—
6336A	Low-Mu Twin Power Triode	6.3	5.0	—	30.0	13,500
9004	UHF Diode	6.3	0.15	850	—	—
9005	UHF Diode	3.6	0.165	1500	—	—

RCA Quick Selection Guide
TUBES FOR
MOBILE COMMUNICATIONS EQUIPMENT
(Operating from 3- and 6-Cell
Storage-Battery Systems)
For 6-Cell Storage Battery Systems

Type	Description	Class	Service
7054	Power Pentode	9-Pin Min.	Class C rf power amplifier, oscillator, frequency multiplier up to 40 Mc.
7055	Twin Diode	7-Pin Min.	Detector in am and fm receivers, low-current rectifier, speech clipper
7056	Sharp-Cutoff Pentode	7-Pin Min.	Rf and if amplifier up to 45 Mc.
7057	Medium-Mu Twin Triode	9-Pin Min.	Rf amplifier in cascode-type circuits up to 200 Mc.
7058	High-Mu Twin Triode	9-Pin Min.	Phase inverter, resistance-coupled amplifier, low-frequency oscillator
7059	Medium-Mu Triode—Sharp-Cutoff Pentode	9-Pin Min.	Oscillator and mixer in receivers utilizing if frequencies up to 40 Mc.
7060	Medium-Mu Triode—Power Pentode	9-Pin Min.	Pentode as Class C if amplifier and frequency multiplier up to 40 Mc.; triode unit, as reactance modulator
7061	Beam Power Tube	9-Pin Min.	Audio-frequency power amplifier
7551	Beam Power Tube	9-Pin Min.	Class C rf amplifier, oscillator, or frequency multiplier at frequencies up to 175 Mc.
7551	Beam Power Tube	9-Pin Min.	Class C rf amplifier, oscillator, or frequency multiplier at frequencies up to 175 Mc.

For 3-Cell Storage Battery Systems

6660/ 6BA6	Remote-Cutoff Pentode	7-Pin Min.	Rf amplifier in standard broadcast and fm receiver and in wide-band and high-frequency applications
6661/ 6BH6	Sharp-Cutoff Pentode	7-Pin Min.	Rf amplifier in high-frequency, wide-band applications
6662/ 6BJ6	Remote-Cutoff Pentode	7-Pin Min.	Rf amplifier in high-frequency, wide-band applications
6663/ 6AL5	Twin Diode	7-Pin Min.	Detector in fm receivers, clipper and clamper applications

RCA Quick Selection Guide

For 3-Cell Storage Battery Systems (cont'd)

Type	Description	Class	Service
6669/ 6AQ5-A	Beam Power Tube	7-Pin Min.	Audio-frequency power amplifier
6677/ 6CL6	Power Pentode	9-Pin Min.	Power amplifier
6678/ 6U8-A	Medium-Mu Triode—Sharp- Cutoff Pentode	9-Pin Min.	Oscillator and mixer for very high frequencies
6679/ 12AT7	High-Mu Twin Triode	9-Pin Min.	Grounded-grid amplifier, frequency converter up to 300 Mc.
6680/ 12AU7-A	Medium-Mu Twin Triode	9-Pin Min.	Phase inverter, amplifier, oscillator, multivibrator
6681/ 12AX7	High-Mu Twin Triode	9-Pin Min.	Phase inverter, resistance-coupled amplifier, multivibrator

**CROSS REFERENCE: RCA TUBE TYPES AND
MILITARY SPECIFICATIONS**

By Tube Types

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
0A2WA	MIL-E-1/290B	6/18/57
0A3	MIL-E-1/17B	1/21/59
0A4G	MIL-E-1/790A	12/23/55
0B2	MIL-E-1/18	2/5/53
0B2WA	MIL-E-1/940D	7/25/60
0C3	MIL-E-1/193	5/20/53
0D3	MIL-E-1/196	5/20/53
1A3	MIL-E-1/19A	1/21/59
1A5GT	MIL-E-1/104A	1/7/54
1B3GT	MIL-E-1/748B	1/21/59
1C21	MIL-E-1/791A	12/23/55
1EP1	MIL-E-1/1342 (Navy)	4/12/60
1EP1	MIL-E-1/1342A	12/1/61
1P21	MIL-E-1/28E	2/5/62
1P37	MIL-E-1/401	10/28/53
1P39	MIL-E-1/402	10/28/53
1P40	MIL-E-1/403	10/28/53
1P42	MIL-E-1/405A	6/23/55
1R5	MIL-E-1/325A	1/21/59
1S4	MIL-E-1/326A	5/27/59
1S5	MIL-E-1/327B	1/21/59
1T4	MIL-E-1/328A	1/21/59
1U4	MIL-E-1/626A	1/21/59
1U5	MIL-E-1/327B	1/21/59
1V2	MIL-E-1/683A (Navy)	9/20/56
2A3	MIL-E-1/191B	1/21/59
2AP1A	MIL-E-1/588	2/23/54
2BP1	MIL-E-1/272B	10/22/57
2BP11	MIL-E-1/272B	10/22/57
2E24	MIL-E-1/336	8/14/53

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
2E26	MIL-E-1/338D	3/1/61
2X2A	MIL-E-1/749A	12/4/57
3A4	MIL-E-1/108A	1/21/59
3A5	MIL-E-1/33B	1/21/59
3AP1A	MIL-E-1/589	2/23/54
3B28	MIL-E-1/753D	1/28/58
3B4WA	MIL-E-1/1358 (SigC)	7/28/60
3BP1A	MIL-E-1/594	2/23/54
3C33	MIL-E-1/799	12/23/55
3D22A	MIL-E-1/798A	5/14/56
3E29	MIL-E-1/212	5/20/53
3JP1	MIL-E-1/36B	10/22/57
3JP7	MIL-E-1/36B	10/22/57
3KP1	MIL-E-1/501A	2/23/54
3Q4	MIL-E-1/343	8/14/53
3Q5GT	MIL-E-1/107A	1/7/54
3RP1	MIL-E-1/390A	2/23/54
3S4	MIL-E-1/326A	5/27/59
3V4	MIL-E-1/343	8/14/53
4X150A	MIL-E-1/160H	9/8/60
4X150D	MIL-E-1/160H	9/8/60
4CX250B	MIL-E-1/889A	10/14/60
4CX250F	MIL-E-1/889A	10/14/60
5ADP1	MIL-E-1/689C	8/26/60
5AHP7	MIL-E-1/972B	4/17/57
5BP1A	MIL-E-1/592	2/23/54
5CP1A	MIL-E-1/273E	10/31/60
5AHP7A	MIL-E-1/1161A	9/12/61
5CP7A	MIL-E-1/273E	10/31/60
5CP12	MIL-E-1/273E	10/31/60
5FP7A	MIL-E-1/43F	10/12/59
5FP14A	MIL-E-1/948C	9/12/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
5R4GY	MIL-E-1/344A	6/18/57
5T4	MIL-E-1/345	8/14/53
5U4G	MIL-E-1/223E	11/29/60
5U4GB	MIL-E-1/985 (Navy)	11/3/55
5UP1	MIL-E-1/498A	10/14/60
5UP7	MIL-E-1/498A	10/14/60
5V4G	MIL-E-1/224	5/20/53
5X4G	MIL-E-1/223E	11/29/60
5Z3	MIL-E-1/223E	11/29/60
5Z4	MIL-E-1/348	8/20/53
6A7	MIL-E-1/349A	1/21/59
6A8	MIL-E-1/350	8/20/53
6AB4	MIL-E-1/351	8/20/53
6AB7Y	MIL-E-1/352	8/20/53
6AC7	JAN Spec.	11/14/45
6AC7W	MIL-E-1/354	8/20/53
6AC7WA	MIL-E-1/554B	11/30/56
6AF6G	MIL-E-1/356	8/20/53
6AG5	MIL-E-1/357	8/20/53
6AG7Y	MIL-E-1/45C	5/14/56
6AK6	MIL-E-1/47A	4/22/59
6AH6	MIL-E-1/46A	4/22/59
6AQ6	MIL-E-1/48B	1/14/54
6AT6	MIL-E-1/119A	1/21/59
6AS7G	MIL-E-1/49C	1/21/59
6AU6WB	MIL-E-1/952D	3/28/61
6AU6WA	MIL-E-1/1	1/13/53
6AV6	MIL-E-1/51B	4/22/59
6B8	MIL-E-1/513	1/14/54
6BA7	MIL-E-1/406	12/9/53
6BF6	JAN Spec.	1/28/48
6BG6G	MIL-E-1/53B	1/21/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
6BH6	MIL-E-1/516	1/14/54
6BJ6	MIL-E-1/517	1/14/54
6BJ6A	MIL-E-1/1094A	5/2/60
6C4	MIL-E-1/55B	1/14/54
6CB6	MIL-E-1/1245A	5/2/60
6BN6	MIL-E-1/121B	9/10/61
6BQ6GT	MIL-E-1/518B	1/21/59
6C5	MIL-E-1/519	1/14/54
6C6	MIL-E-1/767A	4/22/59
6CG7	MIL-E-1/1095	10/22/57
6CL6	MIL-E-1/864B	1/21/59
6D6	MIL-E-1/768	7/16/54
6E5	MIL-E-1/57	2/5/53
6F4	MIL-E-1/424	12/9/53
6F5	MIL-E-1/192	5/20/53
6F6	MIL-E-1/122B	5/27/59
6F7	JAN Spec.	7/31/43
6G6G	MIL-E-1/565	1/22/54
6J4	MIL-E-1/58	2/5/53
6J4WA	MIL-E-1/619D	12/4/57
6J6WA	MIL-E-1/243B	6/18/57
6J7	MIL-E-1/520A	5/27/59
6J7GT	MIL-E-1/520A	5/27/59
6K6GT	MIL-E-1/566A	4/22/59
6K7	MIL-E-1/634	3/4/54
6K8	JAN Spec.	8/1/50
6L7	MIL-E-1/429A	9/17/56
6N7GT	MIL-E-1/633	3/4/54
6R7	JAN Spec.	11/15/44
6S7	MIL-E-1/635	3/4/54
6SA7Y	MIL-E-1/60A	8/14/53
6SC7	MIL-E-1/199	5/20/53

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
6SF7	MIL-E-1/363	8/20/53
6SG7Y	MIL-E-1/365A	9/17/56
6SH7	MIL-E-1/636A	9/17/56
6SJ7Y	MIL-E-1/521	1/14/54
6SQ7	MIL-E-1/124	3/30/53
6SQ7GT	MIL-E-1/124	3/30/53
6SR7	MIL-E-1/125	3/30/53
6SS7	MIL-E-1/568	1/22/54
6U5	MIL-E-1/569	1/22/54
6U8A	MIL-E-1/1169A (Navy)	10/7/59
6V6GTY	MIL-E-1/126B	5/27/59
6V6Y	MIL-E-1/126B	5/27/59
6Y6G	MIL-E-1/432A	6/18/57
6X4W	MIL-E-1/64A	5/20/53
7BP7A	MIL-E-1/66A	7/3/53
7MP7	MIL-E-1/67E	10/12/59
10KP7	MIL-E-1/503B	10/22/57
12A6Y	MIL-E-1/434	12/5/53
12AH7GT	MIL-E-1/435	12/9/53
12AT6	MIL-E-1/119A	1/21/59
12AT7WA	MIL-E-1/3D	3/28/61
12AT7WB	MIL-E-1/1097B (Navy)	12/6/60
12AU6	MIL-E-1/1091 (Navy) & Amend. dtd 5/15/57	4/4/57
12AU7	MIL-E-1/127B	1/21/59
12AX7	MIL-E-1/128C	1/21/59
12BA6	MIL-E-1/436	12/9/53
12BE6	MIL-E-1/571A	4/22/59
12C8	MIL-E-1/640	3/4/54
12H6	JAN Spec.	6/30/45
12DP7A	MIL-E-1/69B	3/11/55
12K8	JAN Spec.	9/27/50

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
12K8Y	JAN Spec.	9/27/50
12SA7Y	MIL-E-1/60A	8/14/53
12SC7	MIL-E-1/199	5/20/53
12SF7	MIL-E-1/363	8/20/53
12SG7Y	MIL-E-1/365A	9/17/56
12SH7	MIL-E-1/636A	9/17/56
12SJ7	MIL-E-1/521	1/14/54
12SK7Y	MIL-E-1/61B	9/17/56
12SL7GT	MIL-E-1/62B	1/14/54
12SN7GT	MIL-E-1/63A	3/4/54
12SQ7	MIL-E-1/124	3/30/53
12SR7	MIL-E-1/125	3/30/53
12SW7	MIL-E-1/125	3/30/53
12SX7GT	MIL-E-1/63A	3/4/54
12SY7	MIL-E-1/60A	8/14/53
25L6GT	MIL-E-1/596A	1/21/59
25Z5	MIL-E-1/539	1/14/54
25Z6GT	MIL-E-1/539	1/14/54
26A6	MIL-E-1/439A	1/21/59
26A7GT	MIL-E-1/71A	1/21/59
26C6	MIL-E-1/646A	1/21/59
26D6	MIL-E-1/671A	1/21/59
35C5	MIL-E-1/673	3/23/54
35L6GT	MIL-E-1/617	2/23/54
35W4	MIL-E-1/441	12/9/53
35Z5GT	MIL-E-1/616A	6/18/57
42	MIL-E-1/447A	4/22/59
50C5	MIL-E-1/448A	4/22/59
50L6GT	MIL-E-1/596A	1/21/59
50Y6GT	JAN Spec.	11/20/45
80T	MIL-E-1/347A	6/18/57
83	MIL-E-1/581A	4/22/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
117N7GT	JAN Spec.	2/9/44
117P7GT	MIL-E-1/544A	5/27/59
117Z6GT	MIL-E-1/584	1/22/54
575A	JAN Spec.	7/1/49
801A	MIL-E-1/926	6/23/55
803	MIL-E-1/927A	6/28/57
(except that the Bump Test 4.9.19.3 be deleted)		
805	MIL-E-1/921	8/5/55
807	MIL-E-1/99A	1/14/54
808	JAN Spec.	2/1/46
809	JAN Spec.	7/15/44
810	JAN Spec.	11/20/45
811A	MIL-E-1/871A	6/28/57
813	MIL-E-1/928A	10/26/55
814	JAN Spec.	6/30/45
815	MIL-E-1/929	8/5/55
816	JAN Spec.	11/15/45
829B	MIL-E-1/853	6/28/56
830B	JAN Spec.	3/15/46
832A	MIL-E-1/215	5/20/53
833A	MIL-E-1/933	8/5/53
836	MIL-E-1/912	6/23/55
837	MIL-E-1/934	8/5/55
845W	MIL-E-1/816	10/26/54
861	MIL-E-1/935	8/5/55
868	MIL-E-1/561	2/23/54
880	MIL-E-1/950A	6/28/57
884	MIL-E-1/894B	12/4/57
891R	MIL-E-1/1007	5/14/56
902A	MIL-E-1/593	2/23/54
918	MIL-E-1/562	2/23/54
920	MIL-E-1/408	10/28/53

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
921	MIL-E-1/409A	11/20/53
922	MIL-E-1/410A	11/20/53
925	MIL-E-1/412B	10/22/57
927	MIL-E-1/414	10/28/53
929	MIL-E-1/416	10/28/53
930	MIL-E-1/417	10/28/53
931VA	MIL-E-1/597C	10/22/57
955	MIL-E-1/457	1/7/54
956	MIL-E-1/458	1/7/54
957	MIL-E-1/547	1/14/54
1613	MIL-E-1/460	1/7/54
1616	MIL-E-1/915	8/5/55
1619	MIL-E-1/649	3/4/54
1624	MIL-E-1/461	1/7/54
1625	MIL-E-1/99A	1/14/54
1631	MIL-E-1/699	5/3/54
1635	MIL-E-1/462	1/7/54
2041	MIL-E-1/1383 (Navy)	7/10/61
2031	MIL-E-1/1273 (Navy)	6/12/59
5652	MIL-E-1/419A	2/23/54
5651WA	MIL-E-1/825A	9/17/56
5654/6AK5W	MIL-E-1/4D	3/28/61
5670	MIL-E-1/5E	12/14/61
5675	MIL-E-1/78C	2/7/55
5690	MIL-E-1/489B	12/4/57
5691	MIL-E-1/133A	7/16/54
5692	MIL-E-1/134B	12/4/57
5693	MIL-E-1/81A	1/14/54
5696	MIL-E-1/917B	3/13/58
5726/6AL5W	MIL-E-1/7E	3/28/61
5751WA	MIL-E-1/237	5/20/53
5727/2D21W	MIL-E-1/83C	4/17/61

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
5749/6BA6W	MIL-E-1/8C	3/29/61
5751	MIL-E-1/10E	8/9/61
5762	MIL-E-1/824	2/7/55
5763	MIL-E-1/85A	12/26/56
5794A	MIL-E-1/180E	6/28/57
5814A	MIL-E-1/12E	10/19/61
5819	MIL-E-1/943B	10/22/57
5876	MIL-E-1/94D	8/23/55
5876A	MIL-E-1/1043 (USAF)	8/23/55
5879	MIL-E-1/1017B	12/20/61
5893	MIL-E-1/96E	3/11/55
5915	MIL-E-1/470	1/7/54
5963	MIL-E-1/1035 (Navy)	4/12/56
5963	MIL-E-1/1033 (SigC)	3/15/56
5964	MIL-E-1/472B	1/21/59
6005/6AQ5W	MIL-E-1/13E	3/29/61
6012	MIL-E-1/714C	5/23/61
6032A	MIL-E-1/606A (Navy)	9/20/54
6080	MIL-E-1/209	5/20/53
6080WA	MIL-E-1/510D	12/20/61
6082	BuShips	9/2/52
6099	MIL-E-1/241	5/20/53
6146	MIL-E-1/380C	1/21/59
6146W	MIL-E-1/1362 (Navy)	1/16/61
6159	MIL-E-1/863 (Navy) & Ltr. dtd 2/20/57	2/16/55
6161	MIL-E-1/1067 (Navy)	11/23/56
6186/6AG5WA	MIL-E-1/244A	7/16/54
6189/12AU7WA	MIL-E-1/246D	8/7/61
6197	MIL-E-1/904B (Navy)	10/9/59
6211	MIL-E-1/905C (Navy)	12/15/58
6263	MIL-E-1/684 (USAF)	10/20/54

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

RCA TUBE TYPE	MILITARY SPECIFICATION	
	Number	Date*
6263A	MIL-E-1/1044 (USAF)	—
6264A	MIL-E-1/1045 (USAF)	5/27/59
6293	MIL-E-1/381B	2/7/61
6293W	MIL-E-1/1363 (Navy)	2/7/61
6383	MIL-E-1/595B (USAF)	12/29/53
6816	MIL-E-1/1239 (SigC)	10/28/56
6884	MIL-E-1/1239 (SigC)	10/28/56
6914A	MIL-E-1/1049A (Navy)	9/30/57
6914A	MIL-E-1/1049C	1/8/62
6950/2039	MIL-E-1/1332A (USAF)	5/12/61
6952	MIL-E-1/1106 (Navy)	6/17/57
7008	MDNE-PD-66	5/22/61
7111	MIL-E-1/1243 (Navy)	2/25/59
7315	MIL-E-1/1274A (Navy)	4/11/60
7448	MIL-E-1/1274A (Navy)	4/11/60
7533	MIL-E-1/1311 (SigC)	9/24/59
7554	MIL-E-1/1325A (Navy)	8/15/61
7580	MIL-E-1/1318 (USAF)	10/30/59
7586	MIL-E-1/1397 (SigC)	5/26/61
7587	MIL-E-1/1434 (SigC)	2/5/62
7895	MIL-E-1/1433 (SigC)	2/1/62
8005	JAN Spec.	11/15/45
8013A	JAN Spec.	12/15/44
8025A	JAN Spec.	8/1/48
9001	MIL-E-1/652A	1/21/59
9002	MIL-E-1/653A	1/21/59
9003	MIL-E-1/654A	1/21/59
9004	MIL-E-1/902 (Navy)	4/22/55
9005	MIL-E-1/655A	1/21/59
9006	MIL-E-1/476A	1/21/59

*Date of specification subject to change by military services.

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

By Mil Specs

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
1	6AU6WA	99A	1625
3D	12AT7WA	104A	1A5GT
4D	5654/6AK5W	107A	3Q5GT
5E	5670	108A	3A4
7E	5726/6AL5W	119A	6AT6
8C	5749/6BA6W	119A	12AT6
10E	5751	121B	6BN6
12E	5814A	122B	6F6
13E	6005/6AQ5W	124	6SQ7
17B	0A3	124	6SQ7GT
18	0B2	124	12SQ7
19A	1A3	125	6SR7
28D	1P21	125	12SR7
33B	3A5	125	12SW7
36B	3JP1	126B	6V6GT
36B	3JP7	126B	6V6Y
43F	5FP7A	127B	12AU7
45C	6AG7Y	128C	12AX7
46A	6AH6	133A	5691
47A	6AK6	134B	5692
48B	6AQ6	160H	4X150A
49C	6AS7G	160H	4X150D
51B	6AV6	180E	5794A
53B	6BG6G	191B	2A3
55B	6C4	192	6F5
57	6E5	193	0C3
58	6J4	196	0D3
60A	6SA7Y	199	6SC7
60A	12SA7Y	199	12SC7
60A	12SY7	209	6080
61B	12SK7Y	212	3E29
62B	12SL7GT	215	832A
63A	12SN7GT	223E	5U4G
63A	12SX7GT	223E	5X4G
64A	6X4W	223E	5Z3
66A	7BP7A	224	5V4G
67E	7MP7	237	5751WA
69B	12DP7A	241	6099
71A	26A7GT	243B	6J6WA
78C	5675	244A	6186/6AG5W
81A	5693	246D	6189/12AU7WA
83C	5727/2D21W	272B	2BP1
85A	5763	272B	2BP11
94D	5876	273E	5CP1A
96E	5893	273E	5CP7A
99A	807	273E	5CP12

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
290B	0A2WA	447A	42
325A	1R5	448A	50C5
326A	1S4	457	955
326A	3S4	458	956
327B	1S5	460	1613
327B	1U5	461	1624
328A	1T4	462	1635
336	2E24	470	5915
338D	2E26	472B	5964
343	3Q4	476A	9006
343	3V4	489B	5690
344A	5R4GY	498A	5UP7
345	5T4	498A	5UP1
347A	80T	501A	3KP1
348	5Z4	503B	10KP7
349A	6A7	510D	6080WA
350	6A8	513	6B8
351	6AB4	516	6BH6
352	6AB7Y	517	6BJ6
354	6AC7W	518B	6BQ6GT
356	6AF6G	519	6C5
357	6AG5	520A	6J7
363	6SF7	520A	6J7GT
363	12SF7	521	6SJ7Y
365A	6SG7Y	521	12SJ7
365A	12SG7Y	539	25Z5
380C	6146	539	25Z6GT
381B	6293 and 6293W	544A	117P7GT
390A	3RP1	547	957
401	1P37	561	868
402	1P39	562	918
403	1P40	565	6G6G
405A	1P42	566A	6K6GT
406	6BA7	568	6SS7
408	920	569	6U5
409A	921	571A	12BE6
410A	922	581A	83
412B	925	584	117Z6GT
414	927	588	2AP1A
416	929	589	3AP1A
417	930	592	5BP1A
419A	5652	593	902A
424	6F4	594	3BP1A
429A	6L7	596A	25L6GT
432A	6Y6G	596A	50L6GT
434	12A6Y	597C	931VA
435	12AH7GT	616A	35Z5GT
436	12BA6	617	35L6GT
439A	26A6	619D	6J4WA
441	35W4	626A	1U4

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
633	6N7GT	864B	6CL6
634	6K7	871A	811A
635	6S7	889A	4CX250B
636A	6SH7	889A	4CX250F
636A	12SH7	894B	884
640	12C8	912	836
646A	26C6	915	1616
649	1619	917B	5696
652A	9001	921	805
653A	9002	926	801A
654A	9003	927A	803
655A	9005	928A	813
671A	26D6	929	815
673	35C5	933	833A
689C	5ADP1	934	837
699	1631	935	861
748B	1B3GT	940D	0B2WA
749A	2X2A	943B	5819
753D	3B28	948C	5FP14A
767A	6C6	950A	880
768	6D6	952D	6AU6WB
790A	0A4G	972B	5AHP7
791A	1C21	1007	891R
798A	3D22A	1094A	6BJ6A
799	3C33	1095	6CG7
816	845W	1161	5AHP7A
824	5762	1245A	6CB6
825A	5651WA	1342A	1EP1
853	829B		

Navy Limited Coordinated Specifications

1342A	1EP1	1067	6161
683A	1V2	904B	6197
985	5U4GB	905C	6211
1169A	6U8A	1363	6293W
1091	12AU6	1049A	6914A
1097B	12AT7WB	1106	6952
1273	2031	1243	7111
1383	2041	1274A	7315
1035	5963	1274A	7448
606A	6032A	1325A	7554
1362	6146W	902	9004
863	6159		

Army Limited Coordinated Specifications

1358	3B4WA	1311	7533
1033	5963	1397	7586
1239	6816	1434	7587
1239	6884	1433	7895

CROSS REFERENCE: RCA TUBE TYPES AND MILITARY SPECIFICATIONS

Military Specification	RCA Tube Type	Military Specification	RCA Tube Type
---------------------------	------------------	---------------------------	------------------

Air Force Limited Coordinated Specifications

1043	5876A	595B	6383
684	6263	1332A	6950/2039
1044	6263A	MDNE-PD-66	7008
1045	6264A	1318	7580

JAN Coordinated Specifications

JAN Specification	RCA Tube Type	JAN Specification	RCA Tube Type
11/15/45	6AC7	7/1/49	575A
1/28/48	6BF6	2/1/46	808
7/31/43	6F7	7/15/44	809
8/1/50	6K8	11/20/45	810
11/15/44	6R7	6/30/45	814
6/30/45	12H6	11/15/45	816
9/27/50	12K8	3/15/46	830B
9/27/50	12K8Y	11/15/45	8005
11/20/45	50Y6GT	12/15/44	8013A
2/9/44	117N7GT	8/1/48	8025A

RCA
INTERCHANGEABILITY DIRECTORY
OF INDUSTRIAL-TYPE
ELECTRON TUBES

The primary means of identifying a tube type is the basic designation which may take different forms. The simplest designations consist only of a number; others employ a combination of letters and digits. In addition, many manufacturers have utilized a prefix composed of one or more letters.

Because the majority of industrial tube types employ industry-assigned type designations, this directory has been prepared without distinctive manufacturers' identification prefixes, except in those cases where manufacturers assign their own type numbers. One manufacturer may assign the same type number to a tube type as that of another manufacturer for an entirely different tube type. In such cases, the manufacturer's prefix is retained to distinguish between the types. For example, the number 54 is used by one manufacturer to identify a phototube, and by another manufacturer to identify a power tube. Therefore, to permit product identification, it is necessary to retain the manufacturer's prefix as an essential part of the basic type number. Hence, the phototube is identified as CE54, and the power tube as HK54. In all other cases, any industry-assigned type made by one manufacturer is directly interchangeable with a type having the same designation made by another manufacturer, regardless of the manufacturer's prefix.

Identifying information about the Type to be Replaced, including the associated prefix when necessary, is given in the first column, followed by a symbol in the second column denoting the class of tube. The last two columns show the RCA Direct Replacement Type or the RCA Similar Type, respectively, when one or the other is available. In some cases the usefulness of the list is further extended by showing both a Direct Replacement Type and a Similar Type.

Basic designations shown in the first column of the tabulation are listed in numerical-alphabetical sequence. Those starting with a digit are given first; those starting with a letter appear at the end of the tabulation.

HOW TO USE

1. Look in Column 1 for the basic designation of the type to be replaced.

2. Then look in Column 3 for the corresponding RCA Direct Replacement Type.

3. If no RCA Direct Replacement Type is shown, look in Column 4 for an RCA Similar Type. Such a type usually is not directly interchangeable with the type to be replaced because of mechanical and/or electrical differences. Tube data should, therefore, be checked before using an RCA Similar Type as a replacement.

KEY TO SYMBOLS IN COLUMN 2

CM = Camera Tube or Monoscope	PC = Photoconductive Cell
CR = Cathode-Ray Tube	PJ = Photojunction Cell
G = Glow Tube	R = Rectifier
GA = Gauge Tube	RT = Receiving Tube
K = Klystron	RIT = Receiving-Type Industrial Tube
I = Ignitron	ST = Storage Tube
IC = Image-Converter Tube	T = Thyatron
M = Magnetron	TW = Traveling-Wave Tube
P = Phototube	VPT = Vacuum Power Tube

Information contained in this Interchangeability Directory has been carefully checked and is believed to be reliable but no responsibility is assumed for possible inaccuracies. The reporting of any discrepancies to Commercial Engineering, RCA, Harrison, N. J., will be appreciated.

***DIRECT REPLACEMENT TYPES**—RCA types shown in this category are direct replacements for corresponding types to be replaced.

†SIMILAR REPLACEMENT TYPES—RCA types shown in this category are not directly interchangeable with the types to be replaced because of differences in mechanical and/or electrical characteristics. For more information as to degree of interchangeability, refer to respective tube data or write to RCA Commercial Engineering, Harrison, New Jersey.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
0A2	G	0A2	003
0A2-WA	G	0A2-WA	0A2, 003
0A3	G	0A3	0C2
0A3/VR75	G	0A3	0C2
0A4-G	G	0A4-G	
0B2	G	0B2	0C3
0B2-WA	G	0B2-WA	0B2, 0C3
0C2	G	0C2	0A3
0C3	G	0C3	0B2
0C3/VR106	G	0C3	0B2
0C3-W	G		0C3, 0B2
003	G	003	0A2
003/VR150	G	003	0A2
003-W	G		003, 0A2
1C21	G	1C21	
1EP1	CR	1EP1	
1EP2	CR	1EP2	
1EP11	CR	1EP11	
1L4	RT	1L4	
1P21	P	1P21	
1P22	P	1P22	
1P23	P	868	
1P28	P	1P28	
1P29	P	1P29	
1P29/ FJ401	P	1P29	
1P32	P	927	
1P37	P	1P37	
1P39	P	1P39	
1P40	P	1P40	
1P41	P	1P41	
1P42	P	1P42	
2-1500	R		8020
2AP1	CR	2AP1-A	
2AP1-A	CR	2AP1-A	
2BP1	CR	2BP1	
2BP11	CR	2BP11	
2C22	RT		6J5
2C38	VPT	2C38-A	
2C39	VPT	2C39-A	
2C39-A	VPT	2C39-A	
2C39-B	VPT		2C39-A
2C39-WA	VPT	2C39-WA	
2C40	VPT	2C40	
2C40-A	VPT	2C40-A	
2C43	VPT	2C43	
2C51	RT	5670	5670-WA
2021	T	2021	2021-W, 5727, 5727/ 2021-W
2021-W	2021-W	T	2021, 5727, 5727/ 2021-W
2E24	2E24	VPT	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
2E25	VPT		2E24
2E26	VPT	2E26	
2E30	VPT		5618
2F21	CM	2F21	
2K26	K	2K26	
2X2/679	R	2X2-A	
2X2-A	R	2X2-A	
3-25A3	VPT		809
3-50A4	VPT		811-A
3-50Q2	VPT	834	
3-75A3	VPT		8005
3-450A4	VPT		833-A
3A4	RET	3A4	
3A5	RET	3A5	
3AP1	CR	3AP1-A	
3AP1-A	CR	3AP1-A	
3AQP1	CR	3AQP1	
3B24-W	R		8020
3B25	R	3B25	
3B27	R		836
3B28	R	3B28	
3BP1	CR	3BP1-A	
3BP1-A	CR	3BP1-A	
3C21	VPT		838
3C23	T	3C23	
3C33	VPT	3C33	
3C46	T	6130/ 3C46	
3CX100A5	VPT		2C39-A
3D22	T	3D22-A	
3D22-A	T	3D22-A	
3E29	VPT	3E29	
3JP1	CR	3JP1	
3JP7	CR	3JP7	
3KP1	CR	3KP1	
3KP4	CR	3KP4	
3KP7	CR	3KP7	
3KP11	CR	3KP11	
3KP16	CR	3KP16	
3RP1	CR	3RP1	
3RP1-A	CR	3RP1-A	
3WP1	CR	3WP1	
3WP2	CR	3WP2	
3WP11	CR	3WP11	
3X100A5	VPT	2C39-A	
3X2500A3	VPT	5762/ 7C24	
4-85A	VPT	4-85A	
4-125A	VPT	4-125A/ 4D21	
4-125A/ 4D21	VPT	4-125A/ 4D21	
4-125A/ 6155	VPT	6155/ 4-125A	
4-250A	VPT	4-250A/ 5D22	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
4-250A/ 5022	VPT	4-250A/ 5022	
4-250A/ 6156	VPT	6156/ 4-250A	
4-400A	VPT	4-400A	
4-750A	VPT		4-1000A
4-1000A	VPT	4-1000A	
4AP10	CR	4AP10	
4B24	R		604/7014*
4B32	R		872-A
4C21	VPT		8005
4C22	VPT		8005
4C25	VPT		808
4CX250B	VPT	7203/ 4CX250B	
4CX250F	VPT	7204/ 4CX250F	
4D21	VPT	4-125A/ 4D21	
4D21/ 4-125A	VPT	4D21/ 4-125A	4-125A/ 4D21
4D21-A	VPT		
4D32	VPT		4-125A/ 4D21
4E27/ 8001	VPT	4E27/ 8001	
4E27A	VPT	4E27-A/ 5-125B	
4E27A/ 5-125B	VPT	4E27A/ 5-125B	
4X150A	VPT	7034/ 4X150A, 4X150A	
4X1500	VPT	7036/ 4X1500, 4X1500	
4X150G	VPT		7034/ 4X150A, 4X150A
4X250B	VPT	7203/ 4CX250B	
4X250F	VPT	7204/ 4CX250F	
4X500A	VPT	4X500A	
5-125B	VPT	4E27A/ 5-125B	
5ABP1	CR	5ABP1	
5ABP7	CR	5ABP7	
5ABP11	CR	5ABP11	
5ADP1	CR	5ADP1	
5ADP7	CR		5ABP7
5ADP11	CR		5ABP11
5ABP1	CR		5ABP1
5ABP7	CR		5ABP7
5ABP11	CR		5ABP11

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
5AMP7	CR		5AMP7, 5AMP7-A	
5AMP7-A	CR		5AMP7-A	
5AUP24	CR		5AUP24	
5AYP4	CR		5AYP4	
5AZP4	CR		5AZP4	
5BP1	CR		5BP1-A	
5BP1-A	CR		5BP1-A	
5C21	T		C6J/5C21	760/6858
5C21/C6J	T		C6J/5C21	
5C24	VPT			8000
5CNP16	CR			5ZP16
5CP1	CR		5CP1-A	
5CP1-A	CR		5CP1-A	
5CP7	CR		5CP7-A	
5CP7-A	CR		5CP7-A	
5CP11-A	CR		5CP11-A	
5CP12	CR		5CP12	
5022	VPT		4-250A/ 5022	
5DEP1	CR			SUP1
5DEP7	CR			SUP7
5DEP11	CR			SUP11
5FP4-A	CR		5FP4-A	
5FP7-A	CR		5FP7-A	
5FP7-B	CR			5FP7-A
5FP14	CR		5FP14-A	
5FP14-A	CR		5FP14-A	
5FP15-A	CR		5FP15-A	
5HP1-A	CR			5BP1-A
5R4-GY	R		5R4-GY	5R4-GYB
5R4-GYB	R		5R4-GYB	5R4-GY
5TP4	CR		5TP4	
5UP1	CR		5UP1	
5UP7	CR		5UP7	
5UP11	CR		5UP11	
5HP11	CR		5HP11	
5MP15	CR		5MP15	
5ZP16	CR		5ZP16	
5ZP24	CR			5ALP24
6AC7-W	RIT		6AC7-W	
6AC7-Y	RIT		6AC7-W	
6AQ5-WA	RIT		6106/ 6AQ5-WA	6186
6AQ7-Y	RIT		6AQ7-Y	
6AK5-W	RIT		5654/ 6AK5-W	5654, 5654/ 6AK5-W/ 6096
6AK6	RIT		6AK6	
6AR6	RT			6BQ6-GA
6AS6	RIT		6AS6	5725
6AS7-B	RIT		6AS7-B	6080, 6080-WA

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
6AS7-GTB		RIT		6AS7-G, 6080, 6080-WA
6AU6-WA		RIT	6AU6-WA	6136
6B		R		5561
6BA6-W		RIT	5749/ 6BA6-W	5749
6C24		VPT		5786
6D22		VPT		4X500A
6F4		RIT	6F4	
6J4		RIT	6J4	6J4-WA
6J4-WA		RIT	6J4-WA	6J4
6J6-WA		RIT	6J6-WA	6101, 6101/ 6J6-WA
6Q5-G		T	884	
6SJ7-WBT		RIT		5693, 6SJ7-Y
6SJ7-Y		RIT	6SJ7-Y	5693, 6SJ7-WBT
6SL7-WBT		RIT		5691
6SN7-GTY		RIT	6SN7-GTY	5692
7BP7		CR	7BP7-A	
7BP7-A		CR	7BP7-A	
7BP7-B		CR		7BP7-A
7C24		VPT	5762/7C24	
7C25		VPT		5762/7C24
7C27		VPT		5762/7C24
7C30		VPT		5762/7C24
7CP4		CR	7CP4	
7JP1		CR	7VP1	
7MP7		CR	7MP7	
7RP4		CR	7RP4	
7QP4		CR	7QP4	
7TP4		CR	7TP4	
7VP1		CR	7VP1	
7WP4		CR	7WP4	
8D21		VPT	8D21	
8HP4		CR	8HP4	
8JP4		CR		8HP4
8MP4		CR		8HP4
8YP4		CR		8HP4
9C21		VPT	9C21	
9C22		VPT	9C22	
9C25		VPT	9C25	
10AKP7		CR		10KP7
10KP7		CR	10KP7	
10KP7-A		CR	10KP7	
10KP7-B		CR		10KP7
10SP4		CR	10SP4	
10-Y		VPT	801-A	
12A6		RIT	12A6	
12AT7-WA		RIT	12AT7-WA	6201
12AU7-WA		RIT	6189/ 12AU7-WA	5B14-A, 5B14-WA
12DP7		CR	12DP7-A	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class			
12DP7-A	CR	12DP7-A		
12DP7-B	CR	12DP7-A		
12DP7-C	CR			12DP7-A
12SW7	RIT	12SW7		
12SX7-GT	RIT	12SX7-GT		
12SY7	RIT	12SY7		
16ADP7	CR	16ADP7		
17	T	6557		
24-6	VPT			808
25T	VPT			809
26A6	RIT	26A6		26FZ6
26A7-GT	RIT	26A7-GT		
26C6	RIT	26C6		
26D6	RIT	26D6		
30Z	VPT			809
32 (or FG 32)	R	6558		
35T	VPT			811-A
35TG	VPT			808
40	VPT			812-A
51T	VPT			8005
57	T			5559
75TH	VPT			8005
81A	T			3C23
83	R	83		
100R	R	8020		
100TH	VPT			810
100TL	VPT			8000
104	R	5561		
105	T	105		
111H	VPT			812-A
143-D	R			2X2-A
150T	VPT			806
152TH	VPT			806
152TL	VPT			806
172	T	172		
203-A	VPT			8005
203-H	VPT			8005
203-Z	VPT			838
205-D	VPT			801-A
205-E	VPT			801-A
207	VPT	207		
211	VPT			8005
211B	VPT			8005
211D	VPT			8005
211E	VPT			8005
211H	VPT			8005
214E	R			836
217-A	R			80
217-C	R			836
220C	VPT			892
220CA	VPT			892-R
232C	VPT			892
233	VPT			880
241B	VPT			833-A
242A	VPT			8005
242B	VPT			8005

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
242C		VPT		8005
249A		R		866-A
249B		R		866-A
249C		R		866-A
260TH		VPT		810
250TL		VPT		806
254B		VPT		865
255A		R		869-B
255B		R		869-B
258B		R		866-A
260A		VPT		860
266B		R		857-B
266C		R		857-B
267B		R		872-A
268A		VPT		801-A
274A		RT		5R4-GT
274B		RT	5R4-GT	
284A		VPT		845
284B		VPT		845
284D		VPT		845
295A		VPT		8005
300		VPT		806
301A		R		83
303A		VPT		8005
304B		VPT	834	
304H		VPT		833-A
304T		VPT		833-A
307A		VPT		807
310		VPT		801-A
310A		RT		6C6
310B		RT		1620
312A		VPT		828
313C		G		1C21
315A		R		673
318A		R		872-A
320B		VPT		892
321A		R		673
322A		VPT	803	
323B		T		3C23
328A		RT		6C6
331A		VPT	805	
332A		VPT		803
339A		VPT		807
341AA		VPT		891-R
342A		VPT		892
342B		VPT		8005
343A		VPT		892
348A		RT		1620
349A		RT		6F6
350A		VPT	807	
350B		VPT		807
351A		RT		6X5-GT
352A		RT		6R7
353A		R	872-A	
354C		VPT		806
354E		VPT		806

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3	4
Basic Designation	Tube Class		Replace by RCA Type*	Similar RCA Type†
356	VPT			5771
356A	VPT			807
356B	VPT			806
357A	VPT			833-A
357B	VPT			833-A
358A	G			1C21
363A	VPT			892
367A	R			673
368B	R			849-B
371B	R			8020
375A	R			575-A
381	VPT			
384D	VPT		2C38-A	845
393A	T			3C23
394A	T			627
395A	G			5823
403A	RT		6AK5	6AK5-W, 5654, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
403B	RT			6AK5, 6AK5-W, 5654, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
407A	RIT		407-A	
408A	RIT		408-A	
415	I		5650	
421A	RIT			6AS7-G, 6080, 6080-WA 5651
423A	G			833-A
450TM	VPT			
451	R		8020	
480	VPT			806
483	VPT			806
488	VPT			810
471	VPT			8005
473	VPT			5762/7C24
481	R			8013-A
481B	R			8013-A
502A	T		502-A	
546	T			5696
575-A	R		575-A	
578	R			8020
579-B	R		579-B	
604	R		604/7014	
604/7014	R		604/7014	
604L	R			604/7014

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
615	R		615/7018	5558
615/7018	R		615/7018	
618	R			5561
618L	R			5561
618P	R			5561
627	T		627	
629	T		629	
630	T		2060	2050-A
630A	T		2060	2050-A
631	T		5559	
632-A	T		632-B	
632-B	T		632-B	
635	R		635/7019	5561
635/7019	R		635/7019	
635L	R			635/7019
635P	R			635/7019
651	I		5552-A	
651/656	I		5552-A	
652	I		5551-A	
652/657	I		5551-A	
653B	I		5565	
655	I		5553-B	
655/658	I		5553-B	
656	I		5562-A	
657	I		5551-A	
658	I		5553-B	
672	T		672-A	
672-A	T		672-A	
673	R		673	
676	T		676	
677	T		677	
678	T			5563-A
681	I		5550	
681/686	I		5550	
686	I		5550	
710	T		710/8011	676
710/8011	T		710/8011	676
710L	T			710/8011
714	T		714/7021	5557
714/7021	T		714/7021	5557
715	T		5557	
715/5557	T		5557	
715/5557/ F6-17	T		5557	
716	T		716/6885	
716/6885	T		716/6885	
760	T		760/6858	
760/6858	T		760/6858	
760L	T			760/6858
760P	T			760/6858
778	T			760/6858
778L	T			760/6858
778P	T			760/6858
800	VPT			812-A
801	VPT		801-A	
801-A	VPT		801-A	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
801-A/801	VPT		801-A	
802	VPT		802	
803	VPT		803	
804	VPT		804	
805	VPT		805	
806	VPT		806	
807	VPT		807	
808	VPT		808	
809	VPT		809	
810	VPT		810	
811	VPT		811-A	
811-A	VPT		811-A	
812	VPT		812-A	
812-A	VPT		812-A	
813	VPT		813	
814	VPT		814	
814/RK47	VPT		814	
815	VPT		815	
816	R		816	
826	VPT		826	
827-R	VPT		827-R	
828	VPT		828	
829	VPT		829-B	
829-A	VPT		3E29	
829-B	VPT		829-B	
830	VPT		830-B	
830-B	VPT		830-B	
832	VPT		832-A	
832-A	VPT		832-A	
833	VPT		833-A	
833-A	VPT		833-A	
834	VPT		834	
836	R		836	
837	VPT		837	
838	VPT		838	
841	VPT			809
846	VPT		845	
854H	VPT			833-A
857	R		857-B	
857-B	R		857-B	
859	VPT			9C21
860	VPT		860	
861	VPT		861	
865	VPT		865	
866	R		866-A	
866-A	R		866-A	
866-A/866	R		866-A	
866-AX	R			866-A
866-JR	R			816
868	P		868	
868/PJ23	P		868	
869-A	R		869-B	
869-B	R		869-B	
872	R		872-A	
872-A	R		872-A	
872-A/872	R		872-A	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

	1	2	3	4
Type To Be Replaced			Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class			
878		R	878	
879		R	2X2-A	
880		VPT	880	
884		T	884	
885		T	885	
889		VPT	889-A	
889-A		VPT	889-A	
889-R		VPT	889R-A	
889R-A		VPT	889R-A	
891		VPT	891	
891-R		VPT	891-R	
892		VPT	892	
892-R		VPT	892-R	
893		VPT		9C21
893-A		VPT		9C21
893A-R		VPT		9C22
902		CR	902-A	
902-A		CR	902-A	
906-P1		CR	3AP1-A	
908		CR	908-A	
908-A		CR	908-A	
917		P	917	
918		P	918	
919		P	919	
920		P	920	
921		P	921	
922		P	922	
923		P	923	
925		P	925	
926		P	926	
927		P	927	
928		P	928	
929		P	929, 1P39	
930		P	930, 1P40	
931		P	931-A	
931-A		P	931-A	
931-VA		P	931-VA	
934		P	934	
935		P	935	
954		RIT	954	
955		RIT	955	
956		RIT	956	
957		RIT	957	
958-A		RIT	958-A	
958		RIT	958	
967		T	5557	
991		G	991	
1051		I	1051-A, 5551-A	
1051-A		I	1051-A, 5551-A	
1052		I	1052-A, 5552-A	
1052-A		I	1052-A, 5552-A	
1266		G		582

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
1267	RT			2A3
1280	RT			14C7
1803	RIT			1620, 5879
1809	RIT	1809		
1612	RIT	1612		
1613	RIT	1613		
1614	RIT	1614		
1616	R	1616		
1619	RIT	1619		
1620	RIT	1620		
1621	RIT	1621		
1622	RIT	1622		
1623	VPT			809
1624	VPT	1624		
1625	VPT	1625		
1626	RIT	1626		
1629	RIT	1629		
1631	RIT	1631		
1632	RIT	1632		
1635	RIT	1635		
1640	P	6905/ 1640		
1645-A	P	1645-A		
1654	R			1X2-A
1699	OM	1699		
1701	T	5657		
1702	T			5563-A
1802-P1	CR	58P1-A		
1816-P4	CR			10FP4-A
1816-P4A	CR			10FP4-A
1818-P1	CR	1818-P1		
1818-P11	CR	1818-P11		
1818-P27	CR	1818-P27		
1849	OM	1850-A		
1850	OM	1850-A		
1850-A	OM	1850-A		
1852	RT	6AC7		
1853	RT	6AB7		
1854	OM	6474		
1855	ST			7539
1858	ST	1858		
1899	OM			2F21
1946	GA	1946		
1947	GA	1947		
1949	GA	1949		
1950	GA	1950		
2020	P	2020		
2022	P	2022		
2029	VPT	2029		
2039	VPT	6950/ 2039		
2041	VPT	2041		
2050	T	2050		2050-A
2050-A	T	2050-A		2050
2051	T	2050		2050-A
2054	VPT	2054		

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
2056	P		2056	
2525A5	CR		58P1-A	
4009	TW		4009	
4010	TW		4010	
4011	M		4011-A	
4011-A	M		4011-A	
4015	TW		4015	
4017	TW		4017	
4019	TW		4019	
4020	TW		4020	
4021	TW		4021	
4401	OM		4401	
4401V1	OM		4401V1	
4402	PC		4402	
4403	PC		4403	
4404	PC		4404	
4408	PC		4408	
4410	PC		4410	
4415	OM		4415	
4416	OM		4416	
4420	PJ		4420	
4600-A	VPT		4600-A	
4601	VPT		4601	
4602	VPT		4602	
4603	VPT		4603	
4604	VPT		4604	
5514	VPT			811-A
5516	VPT			2E24
5530	VPT			5762/ 7C24
5550	I		5550	
5550/GL415	I		5550	
5550/681	I		5550	
5550/681/ 686	I		5550	
5551	I		1051-A, 5551-A	
5551/652	I		1051-A, 5551-A	
5551/ FG-271	I		1051-A, 5551-A	
5551-A	I		1051-A, 5551-A	
5551-A/652	I		1051-A, 5551-A	
5552	I		1052-A, 5552-A	
5552/651	I		1052-A, 5552-A	
5552/ FG-235A	I		1052-A, 5552-A	
5552-A	I		1052-A, 5552-A	
5552-A/651	I		1052-A, 5552-A	
5553	I		5553-B	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3	4
Basic Designation	Tube Class	Replace by RCA Type*	Similar RCA Type†	
5553/655	I	5553-B		
5553/ FG-258A	I	5553-B		
5553-A	I	5553-B		
5553-B	I	5553-B		
5553-B/655	I	5553-B		
5555	I	5555		
5555/653-B	I	5555		
5555/ FG-238B	I	5555		
5556	VPT	5556		
5556/ PJ-8	VPT	5556		
5557	T	5557		
5557/17	T	5557		
5557/715	T	5557		
5557/FG-17	T	5557		
5557/ FG-17/ 1701	T	5557		
5558	R	5558		
5558/32	R	5558		
5558/FG-32	R	5558		
5559	T	5559		
5559/57	T	5559		
5559/FG-57	T	5559		
5560	T	5560		
5560/FG-86	T	5560		
5561	R	5561		
5561/104	R	5561		
5561/ FG-104	R	5561		
5563	T	5563-A		
5563-A	T	5563-A		
5581	P	5581		
5582	P	5582		
5583	P	5583		
5584	P	5584		
5588	VPT	5588		
5588/401B	RIT		5654, 6AK5-W, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096	
5581/403B	RIT		5654, 6AK5-W, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096	
5582	VPT	5582		
5604	VPT		9C25	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3	4
Basic Designation	Tube Class		Replace by RCA Type*	Similar RCA Type†
5004-A	VPT			9C25
5006	WPT			892
5018	RIT		5018	
5032	T		C3J/5032	
5032/C3J	T		C3J/5032	
5036	RIT		5036	5036-A
5036-A	RIT		5036-A	5036
5039	RIT		5039	
5042	R		5042	
5051	G		5051	
5051-WA	G		5051-WA	
5053	P		5053	
5054	RIT		5054	6AK5-W, 5654/ 6AK5-W, 5654/ 6AK5-W/ 6096
5054/ 6AK5-W	RIT		5054/ 6AK5-W	6AK5-W, 5654/ 6AK5-W/ 6096
5054/ 6AK5-W/ 6096	RIT		5054/ 6AK5-W/ 6096	5654, 5654/ 6AK5-W
5058	WPT			880
5059	RIT			12A6
5060	RIT			12CB
5061	RIT			12SK7
5063	T			5096
5064	T			3C23
5065	T		C16J/ 5065	
5065/ C16J	T		C16J/ 5065	
5066	VPT			889-A
5067	VPT			889R-A
5068	VPT			892
5069	VPT			892-R
5070	RIT		5070	5070-WA
5070-WA	RIT		5070-WA	5070
5071	VPT		5071	
5075	VPT		5075	
5079	RT			7A6
5083	T			716/6055
5083/C1J-A	T			716/6055
5084	T		C3J-A/ 5084	3C23
5084/C3J-A	T		C3J-A/ 5084	
5085	T		C6J-A/ 5085	
5085/C6J-A	T		C6J-A/ 5085	
5086	RIT		5086	
5087	RIT		5087	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
5600	R	5600	
5601	RJT	5601	
5602	RJT	5602	
5603	RJT	5603	
5605	R		816
5606	T	5606	
5713	VPT	5713	
5718	RJT	5718	
5718-A	RJT	5718	
5719	RJT	5719	
5719-A	RJT	5719	
5725	RJT	5725	6AS6
5726	RJT	5726	5726/ 6AL5-W, 5726/ 6AL5-W/ 6097
5726/ 6AL5-W	RJT	5726/ 6AL5-W	5726, 5726/ 6AL5-W/ 6097
5726/ 6AL5-W/ 6097	RJT	5726/ 6AL5-W/ 6097	5726, 5726/ 6AL5-W
5727	T	5727	2021, 2021-W, 5727/ 2021-W
5727/ 2021-W	T	5727/ 2021-W	2021, 2021-W
5734	RJT	5734	
5736	VPT		5762/7C24
5741	R		8020
5743	VPT		5556
5748	RJT	5748	5749/ 6BA6-W
5749/ 6BA6-W	RJT	5749/ 6BA6-W	5749
5750	RJT	5750	6BE6
5751	RJT	5751	5751-WA
5751-WA	RJT	5751-WA	5751
5762	VPT	5762/ 7C24	
5762/7C24	VPT	5762/ 7C24	
5763	RJT	5763	
5770	VPT	5770	
5771	VPT	5771	
5786	VPT	5786	
5788	I		5555
5794	VPT		6562/ 5794-A
5794-A	VPT	6662/ 5794-A	
5812	RJT		5763
5814	RJT	5814-A	5814-WA, 6189/ 12AU7-WA

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3	4
Basic Designation	Tube Class	Replace by RCA Type*	Similar RCA Type†	
5814-A	RIT	5814-A	5814-WA, 6189/ 12AU7-WA	
5814-WA	RIT	5814-WA	5814-A, 6189/ 12AU7-WA	
5819	P	5819		
5820	CM	5820		
5822	I	5822-A		
5822-A	I	5822-A		
5823	G	5823		
5825	R	5825		
5840	RIT	5840		
5840-A	RIT		5840	
5844	RIT		5964	
5868/ AX9902	VPT		833-A	
5876	VPT	5876	5876-A	
5876-A	VPT	5876-A	5876	
5879	RT	5879		
5881	RT	5881		
5881	VPT		5671	
5892	R		635/7019	
5893	VPT	5893		
5896	RIT	5896		
5897	RIT	5718		
5898	RIT	5719		
5899	RIT	5899		
5899-A	RIT	5899		
5902	RIT	5902		
5915	RIT	5915		
5915-A	RIT		5915	
5917	VPT		5762/ 7C24	
5918	VPT		5770	
5919	VPT		5671	
5920	RIT		6101, 6J6-WA	
5930	RT		2A3	
5931	RT		5U4-GB	
5932	RT		7027-A	
5933	VPT		807	
5933-WA	VPT		807	
5934	R		579-B	
5936	VPT		9C21	
5946	VPT	5946		
5963	RIT	5963		
5964	RIT	5964		
5965	RIT	5965		
5965-A	RIT		5965	
6005	RIT	6005	6005/ 6AQ5-W	
6005/ 6AQ5-W	RIT	6005/ 6AQ5-W	6005, 6005/ 6AQ5-W/ 6095	
6005/	RIT	6005/	6005, (Cont'd)	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
6AQ5-W/ 6095	RIT		6AQ5-W/ 6095	6005/ 6AQ5-W
6011	T		710/6011	
6011/710	T		710/6011	
6012	T		6012	
6014	T		C1K/6014	
6014/C1K	T		C1K/6014	
6021	RIT		6021	
6026	RIT		6026	
6028	RIT		406-A	
6028/406A	RIT		406-A	
6032	1C		6032, 6032-A 6032-A	
6032-A	1C			
6057	RIT			5751
6058	RIT			5726
6060	RIT			6201
6062	RIT			5763
6067	RJT			5814-A
6072	RIT		6072	
6073	G		6073	6073/ 0A2, 0A2,003 6073, 0A2, 003
6073/0A2	G		6073/0A2	
6074	G		6074	6074/ 0B2, 0B2,0C3 6074, 0B2, 0C3
6074/0B2	G		6074/0B2	
6080	RIT		6080	6080-W, 6A57-G
6080-WA	RIT		6080-WA	6080, 6A57-G
6082	RIT		6082	
6082-A	RIT			6082
6084	RT			5879
6085	RIT			5692
6087	R			5690
6094	RIT			6005, 6005/ 6AQ5-W/ 6095, 6005/ 6AQ5-W
6095	RIT		6005/ 6AQ5-W/ 6095	6005, 6005/ 6AQ5-W
6096	RIT		5654/ 6AK5-W/ 6096	5654, 5654/ 6AK5-W, 6AK5-W
6097	RIT		5726/ 6AL5-W/ 6097	5726, 5726/ 6AL5-W

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
6099	RIT		6099	6J6-WA, 6101, 6101L/ 6J6-WA
6101	RIT		6101	6101/ 6J6-WA
6101/ 6J6-WA	RIT		6101/ 6J6-WA	6101
6106	R			5690
6111	RIT		6111	
6112	RIT		6112	
6130	T		6130/ 3C45	
6130/ 3C45	T		6130/ 3C45	
6136	RIT		6136	6AUG-WA 5651
6140/423-A	RIT			
6146	VPT		6146	
6155	VPT		6155/ 4-125A	
6155/ 4-125A	VPT		6155/ 4-125A	
6156	VPT		6156/ 4-250A	
6156/ 4-250A	VPT		6156/ 4-250A	
6159	VPT		6159	
6161	VPT		6161	
6166	VPT		6166	
6166-A	VPT		6166-A/ 7007	
6166-A/ 7007	VPT		6166-A/ 7007	
6173	R		6173	
6180	R			5690
6181	VPT		6181	
6186	RIT		6186	6186/ 6AG5-WA
6186/ 6AG5-WA	RIT		6186/ 6AG5-WA	6186
6189/ 12AU7-WA	RIT		6189/ 12AU7-WA	5814-A, 5814-WA
6197	RIT		6197	
6198	CM			7038
6198-A	CM			7038
6199	P		6199	
6201	RIT		6201	6AT7-WA
6205	RIT		6205	
6206	RIT		6206	
6211	RIT		6211	
6211-A	RIT			6211
6217	P		6217	
6263	VPT		6263	
6264	VPT		6264-A	
6264-A	VPT		6264-A	
6267	RT			5879

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3	4
Basic Designation	Tube Class		Replace by RCA Type*	Similar RCA Type†
6291	P		6199	
6292	P		6342-A	
6293	VPT		6293	
6326	CM		6326	
6326-A	CM			7038
6328	P		6328	
6333	VPT			892
6336	RIT			6336-A
6336-A	RIT		6336-A	
6337	RIT			6336-A
6342	P		6342-A	
6342-A	P		6342-A	
6346	I			1051-A, 5551-A
6347	I			1052-A, 5552-A
6348	I			5553-B
6350	RIT		6350	
6362	P			7767
6365	P			7764
6385	RIT			5670
6394	RIT			6082
6405/1040	P		6405/1040	
6414	RIT			5965
6417	RIT		6417	7551
6445	VPT			892-R
6446	VPT			892
6447	VPT			892-R
6448	VPT		6448	
6467	P			6199
6472	P		7472	
6474	CM		6474	
6474/1054	CM		6474	
6486	RIT			5725
6486-A	RIT			5725
6489	ST		6489	
6509	I			5555
6514	I			5555
6520	RIT			6A87-G
6521	M		6521	
6524	VPT		6524	
6528	RIT			6080
6549	VPT			4-65A
6550	RIT			7027-A
6562	VPT		6562/ 5794-A	
6562/ 5794-A	VPT		6562/ 5794-A	
6570	P		6570	
6571	ST		6571	
6576	VPT,			5771
6626	G		6626/ 0A2-WA	0A2-WA
6626/ 0A2-WA	G		6626/ 0A2-WA	0A2-WA
6655	P		6655-A	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
6655-A	P		6655-A	
6660	RIT		6660/68A6	
6660/68A6	RIT		6660/68A6	
6661	RIT		6661/68H6	
6661/68H6	RIT		6661/68H6	
6662	RIT		6662/68J6	
6662/68J6	RIT		6662/68J6	
6663	RIT		6663/6AL5	
6663/6AL5	RIT		6663/6AL5	
6664	RIT			6AB4
6669	RIT		6669/ 6A05-A	
6669/ 6A05-A	RIT		6669/ 6A05-A	
6676	RIT			6CB6
6677	RIT		6677/6CL6	
6677/6CL6	RIT		6677/6CL6	
6678	RIT		6678/ 6U8-A	
6678/ 6U8-A	RIT		6678/ 6U8-A	
6679	RIT		6679/ 12AT7	
6679/ 12AT7	RIT		6679/ 12AT7	
6680	RIT		6680/ 12AU7-A	
6680/ 12AU7-A	RIT		6680/ 12AU7-A	
6681	RIT		6681/ 12AX7	
6681/ 12AX7	RIT		6681/ 12AX7	
6687	RIT			5915
6694-A	PC		6694-A	
6806	VPT		6806	
6810	P		6810-A	
6810-A	P		6810-A	
6814	RIT		6814	
6816	VPT		6816	
6829	RIT			5965
6849	CM		6849	7198
6850	VPT		6850	
6853	R			5690
6855/716	T		716/6855	
6858/780	T		780/6858	
6861	TV		6861	
6865	M		6865-A	
6865-A	M		6865-A	
6866	ST		6866	
6883	VPT		6883	7448
6884	VPT		6884	
6887	RIT		6887	
6893	VPT		6893	
6894	R		6894	
6895	R		6895	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
6896/1855	ST			7539
6887	VPT		6887	
6803	P		6803	
6811	P			7102
6814	IC		6814	
6814-A	IC		6814-A	
6822	RIT		6822	
6829	IC		6829	
6835	P			7767
6839	RIT		6839	
6849	VPT		6849	
6850/2039	VPT		6850/2039	
6852	VPT		6852	
6853	P		6853	
6857	PC		6857	
6891	ST			7448
7007	VPT		6166-A/ 7007	
7008	M		7008	
7014	R		604/7014	
7018	R		615/7018	
7019	R		635/7019	
7021	T		714/7021	
7029	P		7029	
7034/ 4X150A	VPT		7034/ 4X150A	
7035/ 4X150D	VPT		7035/ 4X150D	
7036	RIT			5915
7038	CM		7038	
7038-A	CM			7038
7043	P		7043	
7044	RIT		7044	
7046	P		7046	
7054	RIT		7054	
7055	RIT		7055	
7056	RIT		7056	
7057	RIT		7057	
7058	RIT		7058	
7059	RIT		7059	
7060	RIT		7060	
7061	RIT		7061	
7062	RIT			5965
7064	P			6655-A
7065	P			6655-A
7079	RIT			6111
7085	VPT			5771
7084	VPT		7084	
7102	P		7102	
7105	RIT			6080, 6080-WA, 6A5T-G
7111	M		7111	
7117	P		7117	
7136	R			575-A
7163	PC		7163	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
7183		ST	7183	
7198		CM	7198	
7200		P	7200	
7203/ 4CX250B		VPT	7203/ 4CX250B	
7204/ 4X250F		VPT	7204/ 4CX250F	
7204/ 4CX250F		VPT	7204/ 4CX250F	
7212		VPT	7212	
7213		VPT	7213	
7214		VPT	7214	
7222		ST		4418
7223		PJ	7223	
7224		PJ	7224	
7225		ST		6499
7226		CM		7262-A
7226-A		CM		7263-A
7244		RIT		6101.
				6101/ 6J6-WA, 6J6-WA
7244-A		RIT		6101.
				6101/ 6J6-WA, 6J6-WA
7245		RIT		6J4-WA, 6J4
7245-A		RIT		6J4-WA, 6J4
7262		CM	7262-A	
7262-A		CM	7262-A	
7263		CM	7263-A	
7263-A		CM	7263-A	
7264		P	7264	
7265		P	7265	
7270		VPT	7270	
7271		VPT	7271	
7291-A		CM		7038
7293		CM	7293-A	
7293-A		CM	7293-A	
7295		CM	7295-A	
7295-A		CM	7295-A	
7307		T	710/8011	
7308		RIT	6922	
7315		ST	7315	
7318		RIT		5814-A
7325		CM		7735
7326		P	7326	
7336		CM		7038
7351		CM		7735-A
7357		VPT	7357	
7358		VPT	7358	
7380		RIT	7380	
7370		RIT		5687
7386		T		760/6011

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1 Type To Be Replaced		2	3 Replace by RCA Type*	4 Similar RCA Type†
Basic Designation	Tube Class			
7389	OM		7389-A	
7389-A	OM		7389-A	
7404	IC		7404	
7412	PC		7412	
7448	ST		7448	
7457	VPT		7457	
7458	VPT			5762/ 7C24 9C25
7465	VPT			
7467	PJ		7467	
7509	T			710/6011
7513	OM		7513	
7533	VPT		7533	
7536	PC		7536	
7539	ST		7539	
7551	RIT		7551	
7552	VPT		7552	
7553	VPT		7553	
7554	VPT		7554	
7558	RIT		7558	
7566	ST			6499
7580	VPT		7580	
7586	RIT		7586	
7587	RIT		7587	
7607	VPT			7580
7609	VPT			7035/ 4X150D 5820
7611	OM			
7629	OM		4401	
7647	VPT		7647	
7649	VPT		7649	
7650	VPT		7650	
7651	VPT		7651	
7669	I			5551-A 5552-A
7671	I			
7687	OM		7687	
7701	RIT			7551 6CY5
7717	RIT			
7728	RIT		6201	
7729	RIT			12AX7-A
7730	RIT		6180/ 12AU7-MA	
7731	RIT			6678/ 6UB-A 6CB6 5814-A
7732	RIT			
7733	RIT			
7735	OM		7735	
7735-A	OM		7735-A	
7746	P		7746	
7764	P		7764	
7767	P		7767	
7801	VPT		7801	
7835	VPT		7835	
7842	VPT		7842	
7843	VPT		7843	
7844	VPT		7844	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
7846		PC	7846	
7850		P	7850	
7870		VPT	7870	
7895		NIT	7895	
8000		VPT	8000	
8001		VPT	4E27/ 8001	
8005		VPT	8005	
8008		R	8008	
8013-A		R	8013-A	
8014-A		VPT		5786
8020		R	8020	
8020/100R		R	8020	
9001		NIT	9001	
9002		NIT	9002	
9003		NIT	9003	
9004		NIT	9004	
9005		NIT	9005	
9006		NIT	9006	
AX9911		T		6130/3C45
BW11		VPT	634	
C18		T		3C23
C18/A		T		3C23
C1J/A		T		3C23
C1K		T	C1K/8014	
C1K/8014		T	C1K/8014	
CSJ		T	CSJ/5632	
CSJ/5632		T	CSJ/5632	
CSJ/A		T	CSJ-A/ 5684	
CSJ-A/ 5684		T	CSJ-A/ 5684	
C6J		T	C6J/5C21	
C6J/5C21		T	C6J/5C21	
C6J/A		T	C6J-A/ 5685	
C6J-A/ 5685		T	C6J-A/ 5685	
C16J		T	C16J/5685	
C16J/5685		T	C16J/5685	
CDS-9		PC		7163
CE1A/B		P		918
CE1C		P	918	
CE1D		P	868	
CE1V-A/B		P		917, 919
CE2C		P		6953
CE2D		P		1P40, 930
CE4A/B		P		930, 1P40
CE4C		P		930, 1P40
CE4D		P	930, 1P40	
CE5A/B		P		927
CE5C		P		927
CE5D		P		927
CE11V-A/B		P		917
CE11V-C		P		917
CE11V-D		P	917	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
CE21-A/B	P		920
CE21-C	P		920
CE21-D	P	920	
CE22	P		1P41
CE22-C	P		1P41
CE22-D	P	1P41	
CE23-A/B	P		923
CE23-C	P		923
CE23-D	P	923	
CE25A/B	P		927
CE25A/B	P		927
CE25C	P		927
CE25C	P		927
CE25D	P	927	
CE25D	P	927	
CE29Q	P		5653
CE29R	P	929	
CE30A/B	P		930
CE30C	P		930
CE30D	P	930	
CE30Y-A/B	P		925
CE30Y-C	P		925
CE30Y-D	P	925	
CE31Y-A/B	P		919
CE31Y-C	P		919
CE31Y-D	P	919	
CE34Q	P		934
CE34R	P	934	
CE36A/B	P		927
CE36C	P		927
CE36D	P	927	
CE41	P	921	
CE42	P	922	
CE54	P		1P41
CE58	P	5581	
CE64Q	P		5583
CE64R	P	5583	
CE91Q	P		1P37
CE91R	P	1P37	
CE98	P	5682	
CE213	R	615/7018	
CE224	R		604/7014
CE302	T		3C23
CE306	T		676
CE308	T	5667	
CE311	T	3C23	
CL402	PC		7412
CL4023	PC		7536
CL407	PC		7412
CL4073	PC		7536
CL802	PC		4402
CL803	PC		7846
CL803A	PC		7846
CL804	PC		7846
CL805	PC		4402

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
CL805L	PC		4402
CL807	PC		4402
DR17	T		5557
DR200	VPT		806
F123-A	VPT		806
F127-A	VPT		810
F129-B	VPT		889-A
F307A	VPT	207	
F872-B	R		872-A
FG17/5557/ ML715	T	5557	
FG27A	T		5559
FG95	T	5560	
FG235A	I	5552-A	
FG238B	I	5555	
FG258A	I	5553-B	
FG258B	I	5553-B	
FG271	I	5551-A	
FJ401	P	1P29	
FJ405	P		935
FP85	R		8020
FP85A	R		8020
FY20	VPT		8000
GL35T	VPT		808
GL146	VPT		805
GL152	VPT		805
HD203-A	VPT		805
NF60	VPT		8005
NF100	VPT		8005
NF120	VPT		8005
NF125	VPT		8005
NF140	VPT		8005
NF200	VPT		8000
NF201	VPT		8000
NF201-A	VPT		8000
NF220R	VPT		5671
NF250	VPT		8000
NK54	VPT		808
NK254	VPT		810
NK257	VPT	4E27/8001	
NK257B	VPT	4E27/8001	
NK354D	VPT		806
NK354F	VPT		806
NV12	VPT		806
NV18	VPT		810
NV25	VPT		809
NY40Z	VPT		811-A
NY51B	VPT		8005
NY51Z	VPT		838
NY57	VPT		813-A
NY60	VPT		807
NY61/807	VPT	807	
NY69	VPT		1624
K20	PC	6957	
KU23	VPT		810
KU42	T	6130/3C45	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
KU62B	T		5559
KU63A	T	677	
NL1001	I		5550
NL1005	I		5551-A
NL1022	I	5822-A	
NL1053	I	5553-B	
NL1053-A	I	5553-B	
NSL5	PC		7163
NSL6	PC		4404
NSL7	PC		4403
ORP30	PC		6957
ORP80	PC		7412
ORP61	PC		7536
PJ8	VPT	5556	
PJ21	VPT		5556
PJ22	P		917, 919
PJ23	P	866	
PL172	VPT		4-1000A
R50A	P		1P41
R51A	P		927
R51B	P		5583
R51BY	P		929
R59A	P		918
R59B	P		1P37
R59TAV	P		917
R60A	P		920
R61A	P		930
R61AV	P		925
R61B	P		5581
R61BY	P		1P39
R71A	P		930
R71AV	P		925
R85A	P		928
R1111	GA		1947
RK11	VPT		809
RK12	VPT		809
RK20A	VPT	804	
RK23	VPT		802
RK25	VPT	802	
RK25B	VPT	802	
RK28	VPT	803	
RK28A	VPT	803	
RK31	VPT		830-B
RK36	VPT		806
RK37	VPT		808
RK38	VPT		810
RK39	VPT	807	
RK41	VPT		807
RK45	VPT		837
RK46	VPT		804
RK47	VPT	814	
RK48A	VPT		813
RK51	VPT		830-B
RK52	VPT		811-A
RK58	VPT	838	
RK63	VPT		806

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

1		2	3	4
Type To Be Replaced		Tube Class	Replace by RCA Type*	Similar RCA Type†
Basic Designation				
RK63A	VPT			806
RX21	R			872-A
SK80	P			868
SR50	P			917
SR53	P			917
T55	VPT			808
T60	VPT			8005
T125	VPT			810
T200	VPT			806
T822	VPT			810
T875-A	R	575		
TGRA	R			575-A
TGRB	R			872-A
TT17	T			5557
TYTA	VPT			892
TYTB	VPT			833-A
TYTC	VPT			889-A
TYTE	VPT			889-A
TZ20	VPT			809
TZ40	VPT			811-A
UE100	VPT			810
UE311	VPT			8005
UE311CH	VPT			8000
UE317C	R			836
UE812-N	VPT			8005
UE893-RA	VPT			9C22
UE905	VPT	805		
UE930	VPT	830-B		
UE930-B	VPT	830-B		
UE938	VPT	838		
UE945	VPT	845		
UE966	R	866-A		
UE966-A	R	866-A		
UE972	R	872-A		
UE972-A	R	872-A		
UE973	T			5559
UE975-A	R			575-A
UEX-22	R			1616
UH50	VPT	834		
V700	VPT			8005
VC1258	T			6130/3C45
WL734	P			917
WL735	P	868		
WL741	P	923		
WL782	GA			1947
WL767	P			935
WL773	P			935
WL775	P			935
WT6	RT	616		
WT210-0001	T	2021		
WT210-0003	T	884		
WT210-0004	T	2050		
WT210-0006	RT	646		
WT210-0007	RT			616
WT210-0008	R	866-A		
WT210-0009	RT	84/824		

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
WT210-0011	G	0C3	
WT210-0012	RT	80	
WT210-0013	RT	523	
WT210-0015	T	5557	
WT210-0018	G	003	
WT210-0019	RT	83	
WT210-0021	RT	6X5-GT	
WT210-0025	RT	117Z8-GT	
WT210-0027	R	872-A	
WT210-0028	RT	3Q5-GT	
WT210-0029	RT	6C5	
WT210-0031	CR	902-A	
WT210-0037	RT	117L7/ M7-GT	
WT210-0038	T	172	
WT210-0040	RT	6X4	
WT210-0042	RT	5Y3-GT	
WT210-0043	T	C3J/5632	
WT210-0044	R	575-A	
WT210-0045	VPT	802	
WT210-0048	RT	5UN-8	
WT210-0052	CR	2AP1-A	
WT210-0053	CR	3AP1-A	
WT210-0056	T	5559	
WT210-0057	T	5580	
WT210-0058	T	876	
WT210-0060	G	024	
WT210-0061	RT		117N7-GT
WT210-0062	T	5557	
WT210-0067	T		3C23
WT210-0068	T	5557	
WT210-0070	I	5550	
WT210-0071	I	1051-A, 9551-A	
WT210-0072	I	1052-A, 5552-A	
WT210-0073	I	5553-B	
WT210-0074	T	105	
WT210-0077	T	5727	
WT210-0078	T	172	
WT210-0078	T	105	
WT210-0081	RT	6XJ7	
WT210-0082	RT	6V6	
WT210-0083	RT	7K7	
WT210-0084	RT	6N7, 6N7-GT	
WT210-0085	RT	5085	
WT210-0086	VPT	833-A	
WT210-0087	RT	6X6	
WT210-0088	RT	6J5, 6J5-GT	
WT210-0089	RT	606-B	
WT210-0090	RT	6C6	
WT210-0091	G	0AN-8	
WT210-0106	T	C3J/ 5632	710/ 6011

For key to symbols in column 2. see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
WT210-0116	T	5560	
WT210-0147	I	1052-A, 5552-A	
WT210-0149	I	1051-A, 5551-A	
WT210-0152	I	5553-B	
WT210-0158	I	1051-A, 5551-A	
WT210-0159	I	1052-A, 5552-A	
WT210-0165	I	5553-B	
WT210-0179	T	780/6058	
WT210-0188	T	C1K/6014	
WT210-0234	T	C16J/5665	
WT245	T	884	
WT246	T	2050	
WT261	RT	6N6	
WT262	R	866-A	
WT263	R	84/624	
WT268	G	0C3	
WT270	RT	80	
WT270K	RT	523	
WT272	T	5557	
WT294	G	003	
WT301	R	83	
WT308	RT	6X5-GT	
WT377	RT	11726-GT	
WT389	RT	305-GT	
WT390	RT	6C5	
WT606	T	2021	
WT699	I	5550	
WTT-100	RT	6X4	
WTT-102	RT	5Y3-GT	
WTT-103	RT	6N6	
WTT-104	T	575-A	
WTT-106	T	C3J/ 5432	
WTT-108	T	3C23	
WTT-111	T	5559	
WTT-112	T	632-B, 5560	
WTT-113	T	676	
WTT-117	T	5557	
WTT-118	T	105	
WTT-119	T	172	
WTT-122	RT	63J7	
WTT-123	RT	6V6	
WTT-124	RT	7K7	
WTT-125	RT	6N7-GT	
WTT-126	RT	5085	
WTT-127	VPT	833-A	
WTT-128	RT	6X8	
WTT-129	RT	6J5-GT	
WTT-130	RT	606-G	
WTT-131	RT	6C6	
WTT-132	G	0A4-6	

For key to symbols in column 2, see page 171.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced		Replace by RCA Type*	Similar RCA Type†
Basic Designation	Tube Class		
WTT-133	T		3C23
WTT-134	T	C16J/ 5005	
WTT-135	RT	5U4-G	
WTT-136	CR	2AP1-A	
WTT-137	CR	3AP1-A	
WTT-139	T		760/6058
WTT-149	T	172	
WTT-430	T	172	
Z-225/ 866-A	R		866-A
Z8120	VPT		830
ZP572	VPT	2C30-A	

For key to symbols in column 2, see page 171.

SEMICONDUCTOR DEVICES



GERMANIUM TRANSISTORS

SILICON TRANSISTORS

SILICON RECTIFIERS

MULTIPLE DIODES

TUNNEL DIODES

GERMANIUM COMPENSATING DIODE

GALLIUM-ARSENIDE VARACTOR DIODES

DIGITAL MICRO-CIRCUITS

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage
GERMANIUM P-N-P TYPES (Unless Otherwise Specified)															
2N104	TO-40														
2N109	TO-40														
2N139	TO-40														
2N140	TO-40														
2N173	TO-36														
2N174	TO-36														
2N175	TO-40														
2N176	†														
2N215	TO-1														
2N217	TO-1														
2N218	TO-1														
2N219	TO-1														
2N220◆	TO-1														
2N269	TO-1														
2N270	●														
2N274▲◆	TO-44														
2N277	TO-36														
2N278	TO-36														
2N301	†														
2N301-A	†														
2N351	†														
2N370▲	TO-7														
2N371▲	TO-7														
2N372▲	TO-7														
2N373▲‡	TO-7														
2N374▲‡	TO-7														
2N376	†														

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching					
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N384▲◆	T0-44															
2N388*◆	T0-5															
2N388-A*	T0-5															
2N395	T0-5															
2N396	T0-5															
2N396-A	T0-5															
2N397	T0-5															
2N398	T0-5															
2N398-A	T0-5															
2N398-B	T0-5															
2N404◆	T0-5															
2N404-A	T0-5															
2N405	T0-40															
2N406	T0-1															
2N407	T0-40															
2N408	T0-1															
2N409	T0-40															
2N410	T0-1															
2N411	T0-40															
2N412	T0-1															
2N414	T0-5															
2N441	T0-36															
2N442	T0-36															
2N443	T0-36															
2N578	T0-9															
2N579	T0-9															
2N580	T0-9															
2N581	T0-5															

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching					
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N582	T0-5															
2N583	T0-1															
2N584	T0-1															
2N585*	T0-9															
2N586	●															
2N591	T0-1															
2N640▲‡	T0-7		■													
2N641▲‡	T0-7															
2N642▲‡	T0-7															
2N643▲	T0-9															
2N644▲	T0-4															
2N645▲	T0-9															
2N647*	T0-1															
2N649*	T0-1															
2N705	T0-18															
2N708	T0-18															
2N710	T0-18															
2N711	T0-18															
2N794	T0-18															
2N795	T0-18															
2N796	T0-18															
2N828	T0-18															
2N934	T0-18															
2N955*	T0-18															
2N955-A	T0-18															
2N1010*	T0-1															
2N1023▲	T0-44															

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching						
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current	
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																	
2N1066▲	TO-33	■															
2N1090*	TO-9												■				
2N1091*	TO-9												■				
2N1099	TO-36								■				■				
2N1100	TO-36								■				■				
2N1169*	TO-5			Bidirectional Type									■				
2N1170*	TO-5			Bidirectional Type									■		■		
2N1177▲	TO-45	■															
2N1178▲	TO-45				■												
2N1179▲	TO-45			■													
2N1180▲	TO-45							■									
2N1183	TO-8								■							■	
2N1183-A	TO-8								■							■	
2N1183-B	TO-8								■							■	
2N1184	TO-8								■							■	
2N1184-A	TO-8								■							■	
2N1184-B	TO-8								■							■	
2N1213	TO-5			Thyristor												■	
2N1214	TO-5			Thyristor												■	
2N1215	TO-5			Thyristor												■	
2N1216	TO-5			Thyristor												■	
2N1224▲	TO-33			■												■	
2N1225▲	TO-33	■		■												■	
2N1226▲	TO-33			■												■	
2N1300	TO-5															■	
2N1301	TO-5															■	
2N1302*	TO-5												■				

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency				Audio Frequency				Switching						
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Spec.) (Cont'd)																
2N1303	TO-5															
2N1304*	TO-5															
2N1305	TO-5															
2N1306*	TO-5															
2N1307	TO-5															
2N1308*	TO-5															
2N1309	TO-5															
2N1319	TO-5			Bidirectional Type												
2N1358	TO-36															
2N1384▲	TO-11															
2N1395▲	TO-33															
2N1396▲	TO-33															
2N1397▲	TO-33															
2N1412	TO-36															
2N1425▲	TO-7															
2N1426▲	TO-7															
2N1450	TO-9															
2N1524▲	TO-1															
2N1525▲	TO-40															
2N1526▲	TO-1															
2N1527▲	TO-40															
2N1605*	TO-5															
2N1605-A*	TO-5															
2N1631▲	TO-40															
2N1632▲	TO-1															
2N1633▲	TO-40															
2N1634▲	TO-1															

For footnotes, see page 212.

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching			
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal Driver	Large-Signal Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
GERMANIUM P-N-P TYPES (Unless Otherwise Specified)														
2N1635▲	TO-40						■							
2N1636▲	TO-1						■							
2N1637▲	TO-1	■												
2N1638▲	TO-1						■							
2N1639▲	TO-1					■								
2N1683	TO-5											■		
2N1853	TO-5											■		
2N1854	TO-5											■		
2N1905▲	†		■		■				■					
2N1906▲	†		■		■				■			■		
2N2273	TO-18	■	■				■							
2N2338	TO-36											■		■
2N2339	Offset Stud											■		■
2N2482	TO-18	■	■				■							
3907/2N404	TO-5											■		

RCA SILICON TRANSISTOR CLASSIFICATION CHART

SILICON N-P-N TYPES

2N497	TO-5											■		■
2N656	TO-5											■		■
2N696◆	TO-5												■	
2N697◆	TO-5												■	
2N699	TO-5											■		
2N706	TO-18	■	■										■	
2N706-A	TO-18	■	■										■	

For footnotes, see page 212.

RCA SILICON TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching					
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal	Driver	Large-Signal	Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current
SILICON N-P-N TYPES (Cont'd)																
2N708	TO-18															
2N709	TO-18															
2N834	TO-18															
2N914	TO-18															
2N1067	TO-8															
2N1068	TO-8															
2N1069	TO-3															
2N1070	TO-3															
2N1092	TO-5															
2N1479	TO-5															
2N1480	TO-5															
2N1481	TO-5															
2N1482	TO-5															
2N1483	TO-8															
2N1484	TO-8															
2N1485	TO-8															
2N1486	TO-8															
2N1487	TO-3															
2N1488	TO-3															
2N1489	TO-3															
2N1490	TO-3															
2N1491	TO-12															
2N1492	TO-12															
2N1493	TO-12															
2N1511	TO-36															
2N1512	TO-36															
2N1513	TO-36															
2N1514	TO-36															

For footnotes, see page 212.

RCA SILICON TRANSISTOR CLASSIFICATION CHART

TYPE	JEDEC Package	Radio Frequency					Audio Frequency				Switching				
		VHF Amplifier	HF Amplifier	Mixer	Oscillator	Converter	IF Amplifier	Small-Signal Driver	Large-Signal Power	Low-Speed	Medium-Speed	High-Speed	High-Voltage	High-Current	
SILICON N-P-N TYPES (Cont'd)															
2N1613	TO-5														
2N1700	TO-5														
2N1701	TO-8														
2N1702	TO-3														
2N1703	TO-36														
2N1708	TO-46														
2N1711	TO-5														
2N1768	□														
2N1769	□														
2N2015	TO-36														
2N2016	TO-36														
2N2102	TO-5														
2N2205	TO-18														
2N2206	TO-46														
2N2270	TO-5														
2N2475	TO-18														
2N2476	TO-5														
2N2477	TO-5														

* N-P-N Type

† Similar to TO-3

□ Offset-stud Type

● Like TO-7 but has 3 leads

▲ Drift-field Type

‡ Not recommended for new equipment

◆ MIL type available

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
-------------	-------------------------	----------------------------

RCA SILICON RECTIFIERS FOR RADIO AND TV APPLICATIONS

1N1763	0.5	400
1N1764	0.5	500

RCA SILICON RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS

1N248-A 1N248-RA }	20	50
1N248-B 1N248-RB }	20	55
1N248-C 1N248-RC }	20	55
1N249-A 1N249-RA }	20	100
1N249-B 1N249-RB }	20	110
1N249-C 1N249-RC }	20	110
1N250-A 1N250-RA }	20	200
1N250-B 1N250-RB }	20	220
1N250-C 1N250-RC }	20	220
1N440-B	0.75	100
1N441-B	0.75	200
1N442-P	0.75	300
1N443-B	0.75	400
1N444-B	0.75	500
1N445-B	0.75	600
1N536	0.75	50
1N537	0.75	100
1N538	0.75	200
1N539	0.75	300
1N540	0.75	400
1N547	0.75	600

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
RCA SILICON RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS (Cont'd)		
1N1095	0.75	500
1N1183-A 1N1183-RA }	40	50
1N1184-A 1N1184-RA }	40	100
1N1186-A 1N1186-RA }	40	200
1N1187 1N1187-R }	35	300
1N1188 1N1188-R }	35	400
1N1189 1N1189-R }	35	500
1N1190 1N1190-R }	35	600
1N1195 1N1195-R }	18	300
1N1195-A 1N1195-RA }	20	300
1N1196 1N1196-R }	18	400
1N1196-A 1N1196-RA }	20	400
1N1197 1N1197-R }	18	500
1N1197-A 1N1197-RA }	20	500
1N1198 1N1198-R }	18	600
1N1198-A 1N1198-RA }	20	600
1N1199-A 1N1199-RA }	12	50
1N1200-A 1N1200-RA }	12	100
1N1202-A 1N1202-RA }	12	200

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
-------------	-------------------------	----------------------------

RCA SILICON RECTIFIERS FOR MILITARY AND INDUSTRIAL APPLICATIONS (Cont'd)

1N1203-A 1N1203-RA }	12	300
1N1204-A 1N1204-RA }	12	400
1N1205-A 1N1205-RA }	12	500
1N1206-A 1N1206-RA }	12	600
1N1612 1N1612-R }	5	50
1N1613 1N1613-R }	5	100
1N1614 1N1614-R }	5	200
1N1615 1N1615-R }	5	400
1N1616 1N1616-R }	5	600

INDUSTRIAL & CONSUMER APPLICATIONS

1N2858	0.75	50
1N2859	0.75	100
1N2860	0.75	200
1N2861	0.75	300
1N2862	0.75	400
1N2863	0.75	500
1N2864	0.75	600
1N3193	0.75	200
1N3194	0.75	400
1N3195	0.75	600
1N3196	0.5	800
1N3253 1N3254 1N3255 1N3256	Like 1N3193, 1N3194, 1N3195, and 1N3196, respectively, but has insulated sleeve	

RCA SILICON RECTIFIER DATA CHART

RCA TYPE	Max. DC Fwd. Amperes	Max. Peak Inverse Volts
---------------------	---------------------------------	------------------------------------

NEW LOW-COST, SINGLE-ENDED 125-MA TUBULAR RECTIFIERS

**Diffused-Junction Reliability for
Price-Oriented Designs**

1N3754	0.125	100
1N3755	0.125	200
1N3756	0.125	400

RCA MULTICELL SILICON RECTIFIERS FOR INDUSTRIAL AND MILITARY APPLICATIONS

CR101	0.850	1200
CR102	0.825	2000
CR103	0.725	3000
CR104	0.625	4000
CR105	0.625	5000
CR106	0.575	6000
CR107	0.550	7000
CR108	0.550	8000
CR109	0.550	9000
CR110	0.550	10000

AXIAL-LEAD TYPES WITH PRECISION-MATCHED CELLS

CR201	0.3	1500
CR203	0.3	3000
CR204	0.3	4500
CR206	0.3	6000
CR208	0.3	8000
CR210	0.3	10000
CR212	0.3	12000

MILITARY-SPECIFICATION TYPES

TRANSISTORS

JAN 2N174	USA 2N1183-B	USA 2N1484
JAN 2N220	USA 2N1184	USA 2N1485
USA 2N274	USA 2N1184-A	USA 2N1486
JAN 2N384	USA 2N1184-B	USA 2N1511
USN 2N388	USA 2N1358	USA 2N1512
USAF 2N404	USN 2N1412	USA 2N1513
USA 2N696	USA 2N1479	USA 2N1514
USA 2N697	USA 2N1480	USN 2N1853
USA 2N706	USA 2N1481	USN 2N1854
USA 2N1183	USA 2N1482	USA 2N2273
USA 2N1183-A	USA 2N1483	

RECTIFIERS

USA 1N249-B	USAF 1N1200
USA 1N250-B	USAF 1N1201
USA 1N2135-A	USAF 1N1202
JAN 1N538	USAF 1N1203
JAN 1N540	USAF 1N1204
JAN 1N547	USAF 1N1205
USAF 1N1199	USAF 1N1206

RCA SEMICONDUCTOR DIODE CLASSIFICATION CHART

FOR TEMPERATURE- AND VOLTAGE- COMPENSATION APPLICATIONS

1N2326

Tunnel Diodes for Computer Applications

GERMANIUM TYPES

1N3128
1N3129
1N3130

GALLIUM-ARSENIDE TYPE

1N3138

Multiple Diode Switches for Computer Applications

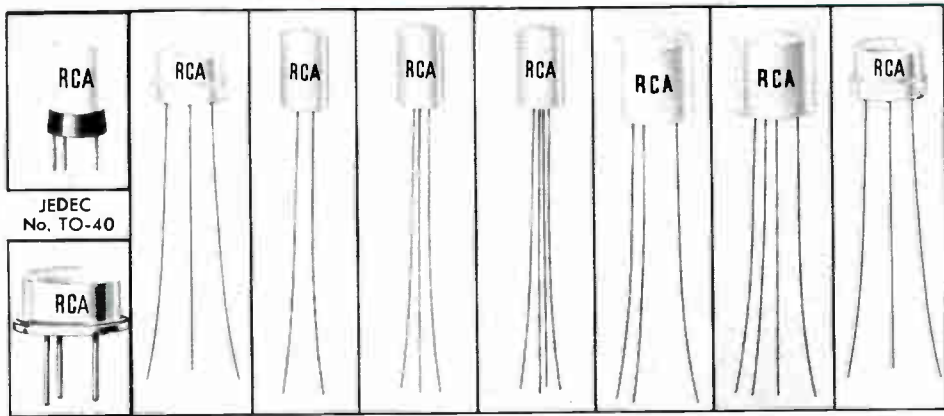
GERMANIUM TYPES

2DG001
3DG001

For information on photojunction and photoconductive cells, see page 140.

RCA SEMICONDUCTOR DEVICES—ACTUAL SIZE

218



JEDEC
No. TO-40

JEDEC
No. TO-8

JEDEC
No. TO-9

COMPENSATING
DIODE
(TO-1 CASE)

JEDEC
No. TO-1

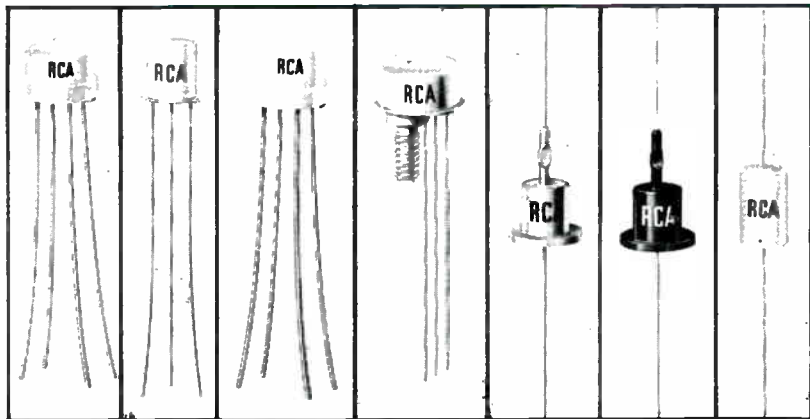
JEDEC
No. TO-44

SIMILAR
TO JEDEC
No. TO-7

JEDEC
No. TO-7

JEDEC
No. TO-5

RCA SEMICONDUCTOR DEVICES—ACTUAL SIZE



JEDEC
No. TO-33

JEDEC
No. TO-18

JEDEC
No. TO-11

OFFSET-
STUD
PACKAGE

JEDEC
No. DO-1

JEDEC
No. DO-1

JEDEC
No. TO-1
CASE

RCA SEMICONDUCTOR DEVICES—ACTUAL SIZE



JEDEC No. TO-3



SIMILAR TO
JEDEC No. TO-3



SIMILAR TO JEDEC No. TO-3
(2N1905, 2N1906)

220



JEDEC
No.
DO-5



JEDEC
No.
DO-4



JEDEC No. TO-36



JEDEC
No. TO-12



JEDEC No. TO-45

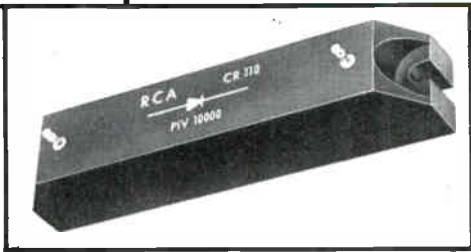


(2 1/2 X ACTUAL SIZE)

RCA SEMICONDUCTOR DEVICES




CR-201 SERIES



CR-101 SERIES

1" x 1" x 2 $\frac{3}{8}$ " TO 1" x 1" x 5 $\frac{1}{2}$ "

RCA BATTERIES—QUICK SELECTION GUIDE


 Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches			NEDA® Type No.
			L.	W. or Dia.	Overall Ht.	
VS143♦	1.4	0-100	—	0.625	0.650	1100
VS144♦	1.4	0-250	—	0.640	1.968	1101
VS145♦	1.4	0-7	—	0.455	0.135	1106
VS147♦	1.4	0-20	—	0.615	0.238	1104
VS148♦	2.8	0-100	—	0.662	1.315	—
VS149♦	4.2	0-100	—	0.662	1.965	1304
VS150♦	1.4	0-50	—	0.625	0.440	1105
VS163♦	4.2	0-50	—	0.662	1.327	1305
VS164♦	5.6	0-50	—	0.662	1.767	1404
VS165♦	7	0-50	—	0.662	2.217	1500
VS300A■	9	0-9	—	1	1 ¹³ / ₁₆	1600
VS301	3, 6, 9	0-150	8	2 ¹³ / ₁₆	1 ⁹ / ₁₆	1601
VS304	9, 13 ¹ / ₂	0-10	1 ¹¹ / ₃₂	1 ¹ / ₃₂	2 ¹¹ / ₁₆	1900
VS305■	9	0-15	1 ¹³ / ₃₂	1 ¹¹ / ₃₂	2 ³ / ₄	1602
VS306	9	0-30	2 ⁹ / ₁₆	2 ¹ / ₃₂	3 ⁵ / ₃₂	1603
VS309A■	9.8	0-10	—	⁹ / ₁₆	1 ²⁹ / ₃₂	1606
VS312■	8.4	0-30	1 ¹ / ₃₂	⁵ / ₈	2	1604
VS313♦	1.4	0-200	—	0.550	1.968	1103
VS321	4 ¹ / ₂	0-200	2 ¹³ / ₁₆	1 ³ / ₄	8 ¹¹ / ₃₂	1303
VS322■	9	0-20	1 ¹³ / ₁₆	1 ¹³ / ₁₆	2 ⁷ / ₁₆	1605
VS323■	9	0-8	1 ¹ / ₃₂	2 ¹ / ₃₂	1 ²⁹ / ₃₂	1604
VS324■	4 ¹ / ₂	0-40	1 ¹³ / ₃₂	1 ¹¹ / ₃₂	2 ³ / ₄	1610
VS325■	6	0-25	1 ¹³ / ₃₂	³ / ₄	4 ¹¹ / ₁₆	1403
VS326■	9	0-20	1 ¹³ / ₃₂	³ / ₄	4 ¹¹ / ₁₆	1613
VS327♦	9	0-7	—	³ / ₄	2	1611
VS328♦	8.4	0-50	—	³ / ₄	2	1611
VS329■	12	0-9	—	1	2 ⁷ / ₁₆	1810
VS334♦	1 ¹ / ₂	0-25	—	⁹ / ₁₆	1 ³¹ / ₃₂	15
VS335♦	1 ¹ / ₂	0-80	—	1 ¹ / ₃₂	1 ¹⁹ / ₁₆	14
VS336♦	1 ¹ / ₂	0-150	—	1 ¹¹ / ₃₂	2 ¹³ / ₃₂	13
VS400■	4.2	0-60	—	1 ¹ / ₃₂	1 ³¹ / ₃₂	1300
VS401♦	1.4	0-50	—	0.470	1.130	1102
VS1073♦	1 ¹ / ₂	—	—	0.470	1.130	910
VS1149♦	4 ¹ / ₂	—	—	0.662	1.965	1306
VS1334♦	1 ¹ / ₂	—	—	0.550	1.960	15
VS1335♦	1 ¹ / ₂	—	—	1 ¹ / ₃₂	2	14
VS1336♦	1 ¹ / ₂	0-1000	—	1 ⁵ / ₁₆	2 ³ / ₈	13

•National Electronic Distributors Association.

♦Flashlight-type terminals.

■2-snap fastener terminals.

RCA BATTERIES—QUICK SELECTION GUIDE

 Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches			NEDA ^o Type No.
			L.	W. or Dia.	Overall Ht.	
PORTABLE "A" TYPES						
VS004	1½	0-1000	2⅝	2⅝	3 ²⁷ / ₃₂	4
VS009	6	0-250	2⅝	2⅝	3 ²⁷ / ₃₂	6
VS034A♦	1½	0-25	—	⁹ / ₁₆	1 ³¹ / ₃₂	815
VS035A♦	1½	0-80	—	1 ¹ / ₃₂	1 ¹⁵ / ₁₆	814
VS036♦	1½	0-150	—	1 ¹¹ / ₃₂	2 ¹³ / ₃₂	813
VS065	7½	0-70	2 ⁵ / ₃₂	1 ¹⁵ / ₁₆	3 ¹ / ₃₂	9
VS067	4½	0-250	3 ¹⁵ / ₁₆	1 ⁵ / ₁₆	4 ³ / ₃₂	3
VS068♦	6	0-25	1 ⁷ / ₃₂	1 ⁷ / ₃₂	2 ¹¹ / ₃₂	2
VS069	1½	0-300	2 ²⁵ / ₃₂	1 ¹³ / ₃₂	3 ¹ / ₃₂	18
VS070	1½	0-250	—	1 ¹¹ / ₃₂	4 ¹ / ₁₆	23
VS072	4½	0-150	4 ³ / ₃₂	1 ⁷ / ₁₆	2 ¹⁵ / ₁₆	19
VS129	7½	0-50	3 ²⁹ / ₃₂	²⁷ / ₃₂	2 ²⁷ / ₃₂	8
VS141	1½	0-500	2 ¹⁹ / ₃₂	1⅜	4¼	11
VS236♦	1½	0-300	—	1 ¹¹ / ₃₂	4 ³ / ₁₆	20
VS315■	7½	0-80	2 ⁹ / ₁₆	2 ¹ / ₃₂	2 ¹³ / ₁₆	26
VS1334♦	1½	—	—	0.550	1.968	815
VS1335♦	1½	—	—	1 ¹ / ₃₂	2	814
VS1336♦	1½	0-1000	—	1 ⁵ / ₁₆	2⅝	813

PORTABLE "B" TYPES


VS012	45	0-70	3 ³¹ / ₃₂	2 ¹⁷ / ₃₂	5 ⁵ / ₁₆	207
VS013	45	0-40	3 ¹⁹ / ₃₂	1 ²⁷ / ₃₂	5½	202
VS014	45	0-40	3 ⁹ / ₁₆	2¼	4½	206
VS015	22½, 45	0-25	3	2 ⁵ / ₁₆	4⅞	205
VS016■	67½	0-10	2 ¹³ / ₁₆	1⅜	3 ²³ / ₃₂	200
VS055■	45	0-10	2 ²¹ / ₃₂	1	3 ¹¹ / ₁₆	201
VS082■	67½	0-6	2 ¹³ / ₁₆	1⅜	2½	203
VS084♦	22½	0-2.5	1 ¹ / ₃₂	⁵ / ₈	2	215
VS086■	45	0-4	1 ¹ / ₁₆	⁵ / ₈	3 ¹¹ / ₁₆	213
VS090■	90	0-10	3 ²³ / ₃₂	1⅜	3 ²³ / ₃₂	204
VS217■	75	0-10	1 ¹⁵ / ₁₆	1 ¹⁵ / ₃₂	6 ¹⁵ / ₃₂	212
VS218■	67½	0-8	1 ²⁹ / ₃₂	1	5 ⁷ / ₁₆	211P
VS219■	90	0-8	1 ³¹ / ₃₂	1 ¹ / ₃₂	7 ¹⁵ / ₃₂	214
VS316■	90	0-10	1 ¹⁵ / ₁₆	1 ¹⁵ / ₃₂	7⅞	216
VS318■	67½	0-3	1 ¹¹ / ₃₂	1	3½	217

^oNational Electronic Distributors Association.

♦Flashlight-type terminals.

■2-snap fastener.

RCA BATTERIES—QUICK SELECTION GUIDE

 Type	Volts			Sug- gested Current Range Ma.	Max. Dimensions Inches			NEDA [®] Type No.
	A	B	C		L	W. or Dia.	Overall Ht.	
VS006C	1½	—	—	0-1500	—	2¾	6 ²¹ / ₃₂	906
VS006S	1½	—	—	0-1500	—	2¾	6 ²¹ / ₃₂	905
VS028	—	—	-4½	0-50	2 ⁷ / ₁₆	2 ⁷ / ₃₂	3	714
VS029§	—	—	-7½	0-50	3 ²⁹ / ₃₂	2 ⁷ / ₃₂	3	713
VS039	6	—	—	0-1500	10 ⁷ / ₁₆	2 ²³ / ₃₂	7 ⁷ / ₃₂	907
VS040C	6	—	—	0-250	2¾	2¾	4 ¹³ / ₃₂	908
VS040S	6	—	—	0-250	2¾	2¾	4¼	915
VS070	1½	—	—	0-250	—	1 ³ / ₃₂	3 ¹⁵ / ₁₆	23
VS083♦	—	15	—	0-2.5	1 ¹ / ₃₂	¾	1 ¹⁵ / ₃₂	208
VS084♦	—	22½	—	0-2.5	1 ¹ / ₃₂	¾	2	215
VS085♦	—	30	—	0-2.5	1 ¹ / ₃₂	¾	2 ⁹ / ₁₆	210
VS093	—	300	—	0-2.5	2 ¹¹ / ₁₆	2 ⁷ / ₃₂	3 ²⁹ / ₃₂	722
VS100	3	—	—	0-250	2 ²¹ / ₃₂	1 ¹¹ / ₃₂	4 ⁹ / ₁₆	701
VS101	1½	—	—	0-500	2 ²¹ / ₃₂	1 ¹¹ / ₃₂	4 ⁹ / ₁₆	700
VS102	—	22½	—	0-40	3½	2 ³ / ₃₂	3 ¹ / ₁₆	710
VS103	6	—	—	0-1000	8 ⁵ / ₁₆	2 ¹³ / ₁₆	6 ⁷ / ₁₆	902
VS106	1½	—	—	0-1000	2¾	2¾	4¾	900
VS112	—	22½, 45	—	0-50	4 ³ / ₃₂	2 ⁹ / ₁₆	5 ⁷ / ₁₆	709
VS114	—	22½, 45	—	0-20	3 ¹ / ₃₂	1¾	4 ³¹ / ₃₂	711
VS127W	—	22½, 45	—	0-250	8 ¹ / ₃₂	4 ¹ / ₁₆	7¾	724
VS130	—	—	-4½	0-150	4 ¹ / ₁₆	1 ¹³ / ₃₂	3 ¹ / ₃₂	712
VS131	—	—	-22½	0-50	4	2 ⁷ / ₁₆	3¾	708
VS133	4½	—	—	0-50	2 ⁷ / ₁₆	2 ⁷ / ₃₂	3 ¹ / ₁₆	706
VS134	3	—	—	0-25	1 ⁷ / ₃₂	¾	2 ²¹ / ₃₂	704
VS136*	3	—	—	0-500	2¾	2¾	4 ⁹ / ₁₆	703
VS138	3	—	—	0-1000	3¾	2 ¹¹ / ₁₆	5 ¹³ / ₁₆	901
VS139	7½	—	—	0-1000	7¼	4 ¹ / ₁₆	6 ⁷ / ₁₆	903
VS140*	9	—	—	0-1000	8 ¹⁹ / ₃₂	4 ¹ / ₁₆	6 ⁷ / ₁₆	904
VS142*	4½	—	—	0-25	1 ²³ / ₃₂	¾	2 ²¹ / ₃₂	705
VS143♦	1.4	—	—	0-100	—	0.625	0.650	1100
VS144♦	1.4	—	—	0-250	—	0.640	1.968	1101
VS145♦	1.4	—	—	0-7	—	0.455	0.135	1106
VS147♦	1.4	—	—	0-20	—	0.615	0.238	1104
VS148♦	2.8	—	—	0-100	—	0.662	1.315	—
VS149♦	4.2	—	—	0-100	—	0.662	1.965	1304
VS150♦	1.4	—	—	0-50	—	0.625	0.440	1105
VS157W*	—	22½, 45	—	0-300	8¾	4 ⁷ / ₁₆	7 ¹¹ / ₁₆	715
VS163♦	4.2	—	—	0-50	—	0.662	1.327	1305
VS164♦	5.6	—	—	0-50	—	0.662	1.767	1404
VS317	6	—	—	0-500	5 ¹¹ / ₃₂	2 ²⁷ / ₃₂	4 ¹⁵ / ₁₆	918
VS1149♦	4½	—	—	—	—	0.662	1.965	1306


*National Electronic Distributors Association.

♦Flashlight-type terminals.

*Available on special order only.

§5-screw terminals and 1 pigtail.

RCA BATTERIES—QUICK SELECTION GUIDE

 Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches			NEDA® Type No.
			L.	W. or Dia.	Overall Ht.	

FLASHLIGHT AND LANTERN TYPES

VS034A♠	1½	0-25	—	9/16	1 31/32	815
VS035A♠	1½	0-80	—	1 1/32	1 15/16	814
VS036♠	1½	0-150	—	1 11/32	2 13/32	813
VS040C	6	0-250	2 3/8	2 3/8	4 13/32	908
VS040S	6	0-250	2 3/8	2 3/8	4 3/8	915
VS073	1½	0-20	—	0.445	1.180	910
VS074	1½	0-20	—	13/32	1 3/4	24
VS138	3	0-1000	3 3/8	2 11/16	5 13/16	901
VS317	6	0-500	5 11/32	2 27/32	4 15/16	918
VS1073♠	1½	0-150	—	0.470	1.130	910
VS1334♠	1½	0-300	—	0.550	1.968	815
VS1335♠	1½	0-500	—	1 1/32	2	814
VS1336♠	1½	0-1000	—	1 5/16	2 3/8	813

PHOTOFLASH TYPES

VS704△	15	0-1.5	3/8	1 9/32	1 3/8	220
VS705†	22 1/2	0-1.5	3/8	1 9/32	2	221
VS734♠	1½	0-25	—	9/16	1 31/32	—
VS735♠	1½	0-80	—	1 1/32	1 15/16	—
VS736♠	1½	0-150	—	1 11/32	2 13/32	—
VS1073♠	1½	0-150	—	0.470	1.130	910
VS1334♠	1½	0-300	—	0.550	1.968	1815
VS1335♠	1½	0-500	—	1 1/32	2	1814
VS1336♠	1½	0-1000	—	1 5/16	2 3/8	1813

Type	Volts		Suggested Current Range Ma.		Max. Dimensions Inches			NEDA® Type No.
	A	B	A	B	L.	W. or Dia.	Overall Ht.	

PORTABLE "A-B" PACKS

VS019	7 1/2, 9	90	0-50	12-15	9 7/32	2 23/32	4 5/16	401
VS047	9	90	0-50	12-15	14 1/16	2 11/16	4 1/16	400
VS050	6, 7 1/2	75	0-50	0-12	8 9/16	3 3/4	2 7/16	403
VS057W	7 1/2, 9	90	0-50	8-12	8 3/8	2 1/8	3 25/32	405
VS058	9	90	0-50	12-15	9 7/32	2 23/32	4 7/32	406
VS059	9	90	0-50	8-12	8 3/8	2 1/8	3 25/32	428
VS060	7 1/2	75	0-50	0-12	8 3/8	3 3/8	2 1/8	431
VS064	1 1/2	90	0-300	10-14	3 27/32	2 7/32	7 13/16	425

FARM "A-B" PACKS

VS022	1 1/2	90	0-300	8-12	15 11/16	4 1/32	6 15/16	413
VS119	7 1/2, 9	90	0-50	10-12	7 27/32	4 1/8	9 3/8	415

△Flat-projecting terminals, one at each end. *National Electronic
 †Flat-recessed terminals, one at each end. Distributors Association.
 ♠Flashlight-type terminals.

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Bright Star		Bright Star (cont'd)	
0197	VS036	126	VS138
0198	VS035A or VS1335	146	VS039
0199	VS034A or VS1334	155	VS139
03-17	VS133	158	VS317
03-17S	VS028	260	VS100
0918	VS300A	305	VS072
0920	VS312 or VS323	360	VS067
6 Ign.	VS006S	361	VS067
6 Tel.	VS006C	460	VS040C
10M	VS1336, VS036, or VS336	460S	VS040S
10P	VS736	462	VS004
11M	VS035, VS335, or VS1335	464	VS106
11P	VS735	591	VS065
12P	VS084	646	VS009
15-03W	VS131	675	VS218
15-50W	VS102		
15P	VS704		
22P	VS705		
30-03	VS012		
30-03BP	VS112		
30-33	VS013		
30-55	VS014		
30-59	VS015		
30-61	VS157W		
45N	VS016		
50-17	VS134		
51-03	VS029		
51-17	VS142		
58	VS074		
59-1	VS034A, VS1334, or VS334		
59P	VS734		
60N	VS090		
61-05	VS022		
61R	VS236		
66-03	VS047		
66-50	VS019		
66-52	VS050		
66-53	VS057W		
66-54	VS058		
71-17S	VS130		
		Burgess	
		A30	VS014
		AL-1	VS035A or VS1335
		AL-9	VS034A or VS1334
		AL-133	VS1149
		AL-N	VS073 or VS1073
		B5	VS129
		B30	VS012
		C5	VS065
		D3	VS072
		D5	VS315
		D6	VS306
		D6BP	VS132
		D6P1	VS301
		F2BP	VS100
		F3	VS067
		F4BP	VS040S
		F4H	VS040C
		F4P1	VS009
		F6A60	VS019
		F6A60P	VS058

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Burgess (cont'd)		Burgess (cont'd)	
G3	VS067	U15	VS084
G6B60	VS047	U20	VS085
H126	VS327 or VS328	U30	VS086
H132R	VS148	U200	VS093
H133	VS149 or VS1149	UX45	VS318
H133R	VS149 or VS1149	V45	VS016
H146	VS312 or VS323	XX9	VS304
H163	VS163	XX30	VS055
H164	VS164	XX45	VS016
H165	VS165	XX50	VS217
H177	VS309A	Y6	VS309A
H233	VS400	Y10	VS704
Hg-1R	VS143	Y15	VS705
Hg-9	VS313	Z	VS034A or VS1334
Hg-12R	VS144	Z4	VS068
Hg-400R	VS145	Z30	VS015
Hg-401	VS401	Z30NX	VS114
Hg-630	VS147	ZMR	VS313 or VS334
Hg-640	VS150	1	VS035A or VS1335
K45	VS082	2	VS036 or VS1336
L6	VS327 or VS328	2D	VS069
M6	VS322	2F	VS141
M30	VS013	2F2H	VS136
N	VS073 or VS1073	2F4	VS010
N60	VS090	2FBP	VS101
N60X	VS316	2N6	VS305
NE	VS073	2R	VS336
P6	VS300A	2U6	VS312 or VS323
P6M	VS300A	2Z3	VS324
P45	VS218	4F	VS004
P45M	VS218	4F2H	VS138
P60	VS219	4F4H	VS103
S6D60	VS119	4F5H	VS139
S461	VS039	4F6H	VS140
T5Z50	VS050	4FH	VS106
T5Z50P	VS060	4FP1	VS009
T6Z60	VS057W	4TZ60	VS064
T6Z60P	VS059	6 Ign.	VS006S
TW1	VS317	6 Tel.	VS006C
U10	VS083	7	VS074

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Burgess (cont'd)		Eveready (cont'd)	
8R	VS070	E177	VS309A
17GD60	VS022	E233	VS400
21R	VS236	E400	VS145
120	VS735	E401	VS401
130	VS335 or VS1335	E630	VS147
220	VS736	E640	VS150
230	VS336	W350	VS114
422	VS134	W352	VS100
432	VS142	W353	VS141
532	VS133	W354	VS101
920	VS734	W356	VS136
930	VS334 or VS1334	W357	VS138
23/OST	VS130	W359	VS014
4156	VS102	W363F	VS127W
5156SC	VS131	W364F	VS157W
5308	VS112	6 "Gray Label"	VS006C
5360	VS028	6 "Ignitor"	VS006S
5540	VS029	206	VS327 or VS328
10308SC	VS127W	216	VS312 or VS323
10308SCpr	VS127W	226	VS300A
21308SC	VS157W	228	VS329
		239	VS304
		243	VS324
		246	VS305
		266	VS322
		276	VS306
		333	VS1149
		409	VS040C
		411	VS083
		412	VS084
		413	VS085
		415	VS086
		416	VS318
		437	VS217
		455	VS055
		457	VS082
		467	VS016
		468	VS016
		477	VS218
		479	VS219
Eveready			
A100	VS336		
D99	VS036 or VS1336		
E1	VS143		
E9	VS313 or VS334		
E12	VS144		
E91	VS1334		
E93	VS1335		
E126	VS327 or VS328		
E132	VS148		
E133	VS149 or VS1149		
E133N	VS149		
E146	VS312 or VS323		
E163	VS163		
E164	VS164		
E165	VS165		

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Eveready (cont'd)		Eveready (cont'd)	
482	VS013	759	VS022
484	VS012	761T	VS130
490	VS090	762S	VS112
493	VS093	763	VS102
495	VS316	773	VS029
504	VS704	776	VS119
505	VS705	778	VS131
509	VS040C	781	VS028
510S	VS040S	785	VS060
515	VS034A or VS1334	815	VS734
523	VS1149	835	VS735
528	VS323 or VS312	850	VS736
635	VS335 or VS1335	904	VS073 or VS1073
703	VS133	912	VS074
706	VS103	915	VS034A or VS1334
707	VS315	935	VS035A or VS1335
713	VS129	950	VS036 or VS1336
715	VS139	960P	VS070
716	VS140	964	VS236
717	VS065	1015	VS334 or VS1334
718	VS010	1461	VS039
720	VS069	2506	VS301
724	VS068	2709	VS326
726	VS072	2713	VS325
727	VS059	2731	VS321
729	VS064		
731	VS317		
735	VS106		
736	VS067		
738	VS015		
742	VS004		
744	VS009		
746	VS067		
750	VS134		
751	VS142		
752	VS047		
753	VS019		
755	VS050		
756	VS057W		
757	VS058		
		Mallory, P. R.	
		M2	VS068
		M3	VS067
		M4	VS004
		M6	VS009
		M8	VS129
		M9	VS065
		M11	VS141
		M13F	VS036 or VS1336
		M13P	VS736
		M13R	VS336

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)		Mallory, P. R. (cont'd)	
M14F	VS035A or VS1335	M905	VS006S
M14P	VS735	M906	VS006C
M14R	VS335 or VS1335	M907	VS039
M15F	VS034A or VS1334	M908	VS040C
M15P	VS734	M910F	VS073 or VS1073
M15R	VS334 or VS1334	M914	VS006S
M18	VS069	M915	VS040S
M19	VS072	M916	VS040C
M20	VS236	M918	VS317
M23	VS070	M1600	VS300A
M24F	VS074	M1602	VS305
M26	VS315	M1603	VS306
M200	VS016	M1604	VS312 or VS323
M201	VS055	M1605	VS322
M202	VS013	M1611	VS327
M203	VS082	M1900	VS304
M204	VS090	Mn1300	VS036 or VS1336
M205	VS015	Mn1306	VS1149
M206	VS014	Mn1400	VS1335 or VS035A
M207	VS012	Mn1500	VS1334 or VS034A
M208	VS083	Mn1604	VS323 or VS312
M210	VS085	Mn2400	VS074
M211P	VS218	Mn9100	VS1073 or VS073
M212	VS217	RM1	VS143
M213	VS086	RM1R	VS143
M214	VS219	RM12	VS144
M215	VS084	RM12R	VS144
M216	VS316	RM400	VS145
M217	VS318	RM400R	VS145
M400	VS047	RM401	VS401
M401	VS019	RM630	VS147
M405	VS057W	RM640	VS150
M406	VS058	TR126	VS327 or VS328
M413	VS022	TR132R	VS148
M504	VS704	TR133	VS149 or VS1149
M505	VS705	TR133R	VS149
M900	VS106	TR146	VS312 or VS323
M902	VS103	TR163	VS163
M903	VS139	TR164	VS164
M904	VS140	TR165	VS165

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)		Marathon (cont'd)	
TR165R	VS165	1611	VS327 or VS328
TR177	VS309A	1900	VS304
TR233	VS400	3001	VS010
ZM9	VS313	3002	VS068
		3003	VS067
		3004	VS004
		3006	VS009
		3007	VS067
		3008	VS129
		3009	VS065
Marathon			
6T	VS006C	3011	VS141
66	VS006S	3018	VS069
111	VS035A or VS1335	3019	VS072
113	VS335 or VS1335	3020	VS236
121	VS036 or VS1336	3023	VS070
122	VS036 or VS1336	3026	VS315
123	VS336	4200	VS016
131	VS073 or VS1073	4201	VS055
133	VS073 or VS1073	4202	VS013
170	VS034A or VS1334	4203	VS082
173	VS313, VS334, or VS1334	4204	VS090
180	VS074	4205	VS015
490R	VS040C	4206	VS014
490RR	VS040C	4207	VS012
491	VS106	4208	VS083
496S	VS040S	4210	VS085
640	VS039	4211	VS218
640EF	VS039	4212	VS217
896	VS317	4213	VS086
901	VS138	4214	VS219
902	VS103	4215	VS084
903	VS139	4216	VS316
904	VS140	4217	VS318
1600A	VS300A	4220	VS704
1601	VS301	4221	VS705
1602	VS305	4311	VS218
1603	VS306	5400	VS047
1604	VS312 or VS323	5401	VS019
1605	VS322	5403	VS050
1610	VS324	5405	VS057W

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Marathon (cont'd)		Montgomery Ward (cont'd)	
5406	VS058	47	VS217
5413	VS022	49	VS012
5415	VS119	51	VS022
5424	VS022	54	VS119
5425	VS064	55	VS219
5428	VS059	57	VS022
5431	VS060	62-103	VS144
6700	VS101	62-104	VS164
6701	VS100	62-105	VS163
6703	VS136	62-122	VS313
6704	VS134	67	VS313, VS334, or VS1334
6705	VS142	72	VS058
6706	VS133	79	VS055
6708	VS131	82	VS057
6709	VS112	84	VS131
6710	VS102	86	VS084
6711	VS114	87	VS085
6712	VS130	92	VS305
6713	VS029	93	VS306
6714	VS028	95	VS304
6715	VS157W	96	VS300A
6716	VS127W	100	VS313, VS334, or VS1334
6722	VS093	120	VS086
Montgomery Ward		121	VS400
6	VS035A or VS1335	123	VS312 or VS323
21	VS004	124	VS312 or VS323
23	VS336	2338	VS073 or VS1073
24	VS002	2340	VS036
26	VS067	2341	VS035A or VS1335
27	VS236	2342	VS034A or VS1334
28	VS141	13250	VS006S
29	VS065	13255	VS039
33	VS019	13257	VS040C
37	VS047	13274	VS317
40	VS218		
41	VS014		
42	VS013		
43	VS016		
46	VS090		

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)		Ray-O-Vac (cont'd)	
9	VS065	431	VS060
11	VS141	641	VS039
13	VS336	700	VS101
14	VS335 or VS1335	701	VS100
15	VS334 or VS1334	703	VS136
15M	VS313 or VS1334	704	VS134
18	VS069	705	VS142
19	VS072	706	VS133
20	VS236	708	VS131
23	VS070	709	VS112
26	VS315	710LP	VS734
110LP	VS735	711	VS114
200	VS016	712	VS130
201	VS055	713	VS029
202	VS013	714	VS028
203	VS082	715	VS157W
204	VS090	716	VS073 or VS1073
205	VS015	722	VS093
206	VS014	724	VS127W
207	VS012	900	VS106
208	VS083	901	VS138
210LP	VS736	902	VS103
211M	VS218	903	VS139
211P	VS218	904	VS140
212	VS217	918	VS317
213	VS086	941	VS040C
214	VS219	941RR	VS040C
215	VS084	941SC	VS040S
217	VS318	1304M	VS149 or VS1149
220	VS704	1600	VS300A
221	VS705	1600M	VS300A
400	VS074	1601	VS301
401	VS019	1602	VS305
403	VS050	1603	VS306
405	VS057W	1604	VS312 or VS323
406	VS058	1604M	VS312 or VS323
413	VS022	1605	VS322
415	VS119	1606	VS309A
425	VS064	1611M	VS327 or VS328
428	VS059	1810M	VS329

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)	
1900	VS304
R401	VS401
Sears (Homart)	
2259	VS106
4650	VS036 or VS1336
4653	VS034A or VS1334
4656	VS074
4659	VS035A or VS1335
4662	VS036 or VS1336
4700	VS039
4701	VS006S
4702	VS040C
4702ST	VS040S
4707	VS317
5005	VS130
6312	VS022
6401	VS047
6407	VS019
6408	VS050
6409	VS057W
6410	VS058
6415	VS163
6416	VS312 or VS323
6417	VS312 or VS323
6418	VS300A
6419	VS306
6420	VS301
6421	VS300A
6422	VS327 or VS328
6425	VS329
6430	VS004
6440	VS067
6441	VS067
6442	VS236
6444	VS065
6445	VS336
6446	VS335 or VS1335
6447	VS313, VS334, or VS1334

Type to be Replaced	Replace by RCA Type
Sears (Homart) (cont'd)	
6448	VS313, VS334, or VS1334
6451	VS009
6460	VS014
6461	VS013
6462	VS012
6465	VS090
6470	VS219
6480	VS016
6482	VS218
6485	VS086
8212	VS084
8213	VS085
Usalite	
AB666	VS022
AB677	VS047
#6GP	VS006S
6 Ign.	VS006S
6T	VS006C
74	VS035A, VS335, or VS1335
74P	VS735
75LP	VS036 or VS336
75P	VS736
77	VS336, VS036, or VS1336
603	VS135
606	VS029
613	VS131
616	VS103
620	VS015
621	VS014
623	VS112
624	VS012
634	VS004
634S	VS106
638	VS010
639	VS009
640	VS013
641	VS039
650	VS127W

BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Usalite (cont'd)		Wizard (Western Auto) (cont'd)	
660	VS157W	3B6462	VS058
680	VS019	3B6464	VS050
681	VS057W	7D7003	VS067
682	VS058	7D7009	VS065
683	VS067		
684	VS236	7D7013	VS036, VS336, or VS1336
685	VS065	7D7014	VS035A, VS335, or VS1335
688	VS067	7D7015	VS034A, VS334, or VS1334
690	VS101		
691	VS100		
692	VS131	7D7024	VS074
693	VS112	7D7200	VS016
694	VS102	7D7201	VS055
695	VS130	7D7211	VS218
696	VS140		
720	VS139	7D7401	VS019
741	VS317	7D7405	VS057W
745	VS055	7D7413	VS022
767	VS016	7D7600	VS300A
768	VS217	7D7602	VS305
769	VS090	7D7604	VS312 or VS323
777	VS218	7D7905	VS006S
908	VS034A, VS334, or VS1334	7D8013	VS036, VS336, or VS1336
908P	VS734	7D8014	VS035A, VS335, or VS1335
911	VS073 or VS1073		
934	VS040C	7D8015	VS034A, VS334, or VS1334
934R	VS040C	7D8020	VS236
934S	VS040S	7D8907	VS039
972	VS028		
1005	VS133	7D8908	VS040C
1090	VS142	7D8915	VS040S
1095	VS134	7D8918	VS317
		7D9013	VS036 or VS336
		7D9015	VS313 or VS1334
Wizard (Western Auto)			
3B6110	VS004	7D9304	VS149
3B6145	VS009	7D9604	VS312 or VS323
3B6228	VS014	7D9611	VS327 or VS328
3B6241	VS013		
3B6260	VS090		

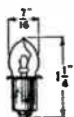
BATTERY INDEX

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Zenith		Zenith (cont'd)	
N	VS073 or VS1073	Z437	VS217
Z1	VS070	Z450	VS072
Z2NL	VS036 or VS1336	Z455	VS055
Z4NL	VS336	Z457	VS082
Z5	VS236	Z477	VS218
Z5M	VS704	Z490	VS090
Z6M	VS705	Z495	VS316
Z7	VS035A, VS335, or VS1335	Z530	VS012
Z8	VS034A, VS334, or VS1334	Z550	VS012
Z9	VS313, VS334, or VS1334	Z707	VS315
Z11M	VS083	Z736	VS067
Z12M	VS084	Z750	VS065
Z13M	VS085	Z775	VS060
Z67	VS016	Z783	VS013
Z83A	VS067	Z802	VS022
Z90	VS219	Z909	VS058
Z94	VS004	Z912	VS074
Z146	VS312 or VS323	Z916	VS040C
Z216	VS312 or VS323	Z962	VS059
Z226	VS300A	Z979	VS019
Z276	VS306	Z985	VS047
Z415	VS086	Z990	VS119

RCA MINIATURE LAMPS

TYPE NO.	VOLTS	AMPS	BULB	BASE	BEAD COLOR
FLASHLIGHT					
PR-2	2.4	0.5	B-3½	Min. Flg.	Blue
PR-3	3.6	0.5	B-3½	Min. Flg.	Green
PR-6	2.5	0.3	B-3½	Min. Flg.	Brown
13	3.8	0.3	G-3½	Min. Scr.	Green
14	2.5	0.3	G-3½	Min. Scr.	Blue
112	1.1	0.22	TL-3	Min. Scr.	Pink
222	2.2	0.25	TL-3	Min. Scr.	White
233	2.3	0.27	G-3½	Min. Scr.	Purple
RADIO PANEL AND MISCELLANEOUS					
40	6.8	0.15	T-3¼	Min. Scr.	Brown
41	2.5	0.5	T-3¼	Min. Scr.	White
42	3.2	0.5	T-3¼	Min. Scr.	Green
43	2.5	0.5	T-3¼	Min. Bay.	White
44	6-8	0.25	T-3¼	Min. Bay.	Blue
45	3.2	0.5	T-3¼	Min. Bay.	Green
46	6-8	0.25	T-3¼	Min. Scr.	Blue
47	6-8	0.15	T-3¼	Min. Bay.	Brown
48	2.0	0.06	T-3¼	Min. Scr.	Pink
49	2.0	0.06	T-3¼	Min. Bay.	Pink
50	6-8	0.2	G-3½	Min. Scr.	White
51	6-8	0.2	G-3½	Min. Bay.	White
55	6-8	0.4	G-4½	Min. Bay.	White
291	2.9	0.17	T-3¼	Min. Bay.	White
292	2.9	0.17	T-3¼	Min. Scr.	White
1490	3.2	0.16	T-3¼	Min. Bay.	White
1891	12-16	2 C.P.	T-3¼	Min. Bay.	
1892	14	1 C.P.	T-3¼	S.C. Bay.	



B-3½ Bulb
Min. Flange Base



TL-3 Bulb
Min. Screw Base

G-3½ Bulb
Min. Screw Base



T-3¼ Bulb
Min. Screw Base



G-3½ Bulb
Min. Bayonet Base

G-4½ Bulb
Min. Bayonet Base



T-3¼ Bulb
Min. Bayonet Base

RCA SOUND TAPE AND AUDIO DEVICES

RCA offers a wide variety of Magnetic Recording Sound Tape to meet the requirements of both the broadcaster and the home recordist.



RED SEAL

For superb stereophonic and monophonic recordings, use RCA Red Seal recording tape—the recording tape used for RCA Victor Masters and for pre-recorded tape. Quality controlled and tested during every step of the manufacturing process to provide you with the finest recording your equipment is capable of producing.

A new type numbering system for RCA tape on seven-inch, or smaller, reels makes it easy for you to order Red Seal Tape. The type number is composed of three parts corresponding to the thickness of the base material, the type of base, and the length.

The thickness of the base material is indicated by:

- 5 = 0.5 mil
- 10 = 1.0 mil
- 15 = 1.5 mil

The type of base is indicated by:

- A = Acetate
- M = "Mylar"*
- TM = Tensitized "Mylar"

The length is indicated by:

- 3 = 300 feet
- 6 = 600 feet
- 9 = 900 feet
- 12 = 1200 feet
- 18 = 1800 feet
- 24 = 2400 feet

RCA SOUND TAPE AND AUDIO DEVICES (Cont'd)

For example, Type 15A12 defines a reel of 1.5-mil, acetate-base tape, 1200 feet long. Similarly Type 5TM24 defines a reel of 0.5-mil, Tensitized "Mylar"-base tape, 2400 feet long.

*DuPont Registered Trade Mark

PROFESSIONAL GRADE

Professional Grade RCA Magnetic Recording Sound Tape is designed to provide high-quality recordings under extremely difficult conditions. Tough and durable, professional-grade tape is available in 1½-mil thickness only on either acetate or "Mylar" base. Reel size, tape length, and base material are identified by the following type numbers:

ACETATE (PLASTIC) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
15A-1.5	3	150
15A-3	4	300
15A-6	5	600
15A-12	7	1200
265C1	—	2400
266C1	10½	2400
267C1	10½	2400
268C1	10½	2400

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
15M-6	5	600
15M-12	7	1200
280C1	—	2400
281C1	10½ [◊]	2400
282C1	10½ [♠]	2400
283C1	10½ [■]	2400

LONG-PLAY

Long-Play RCA Magnetic Recording Sound Tape is designed to provide longer recording time on either "Mylar" or acetate base than Professional-Grade and has the same high quality recording characteristics. Long-Play tape is 1-mil thick. Reel size, tape length, and base material are identified by the following type numbers:

ACETATE (PLASTIC) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
10A-9	5	900
10A-18	7	1800
269C1	—	3600
270C1	10½ [◊]	3600
271C1	10½ [♠]	3600
272C1	10½ [■]	3600

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
10M-2.25	3	225
10M-9	5	900
10M-18	7	1800
276C1	—	3600
277C1	10½ [◊]	3600
278C1	10½ [♠]	3600
279C1	10½ [■]	3600

◊NAB Metal Reel

♠NAB Plastic Reel

■EIA Plastic Reel.

EXTRA-LONG-PLAY

Extra-Long-Play RCA Magnetic Recording Sound Tape is designed to provide extra-long running time. On 7" reels, running time is up to 4 hours on dual-track recordings. Extra-Long-Play tape is available on either ½-mil "Mylar," or ½-mil Tensilized "Mylar," which has twice the tensile strength of ½-mil "Mylar."

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
5M-12	5	1200
5M-24	7	2400

TENSILIZED "MYLAR" BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
5TM-3	3	300
5TM-6	4	600
5TM-12	5	1200
5TM-24	7	2400
273C1	10½ [●]	4800
274C1	10½ [□]	4800
275C1	10½ [■]	4800

VIBRANT SERIES

Vibrant Series RCA Magnetic Recording Sound Tape is especially designed for the home recordist. This tape can provide high-quality, full-frequency recordings on both stereo and monaural equipment.

ACETATE (PLASTIC) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
701C1	5	600
702C1	7	1200
703C1	5	900 [●]
704C1	7	1800 [●]

"MYLAR" (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
707C1	5	900 [●]
708C1	7	1800 [●]
709C1	5	1200 [□]
710C1	7	2400 [□]

● 1-mil Tape

□ ½-mil Tensilized



RCA SNAP-LOAD CARTRIDGE

Pre-threaded, magazine-loaded tape cartridge. 264C1—560 ft. of "Mylar" base tape in snap-load cartridge.



Special 3-inch Reel for use with RCA Cartridge Tape Recorder

RCA Type	Reel Diameter Inches	Tape Length Feet
M10M-2.75	2 ¹⁵ / ₁₆	275

TAPE ACCESSORIES

Type	Description
EB-3	3" Empty Box (formerly No. 518C1)
EB-4	4" Empty Box (formerly No. 520C1)
EB-5	5" Empty Box (formerly No. 508C1)
EB-7	7" Empty Box (formerly No. 509C1)
EKR-3	Special Reel & Box for RCA Cartridge Tape Recorder
EPR-3	3" Reel & Box (formerly No. 519C1)
EPR-4	4" Reel & Box (formerly No. 521C1)
EPR-5	5" Reel & Box (formerly No. 506C1)
EPR-7	7" Reel & Box (formerly No. 507C1)
501C1	5-Reel Tape Chest for 5" Reels
510C1	Empty Box for Snap-Load Cartridge
511C1	½" x 100" Splicing Tape
512C1	½" x 150" Splicing Tape
513C1	¾" x 100" Splicing Tape
514C1	¾" x 150" Splicing Tape
515C1	¼" x 100" Splicing Tape
516C1	Tape Recorder Head Demagnetizer
517C1	12-Reel Tape Shelf

RCA SPECIAL COMMUNICATIONS PRODUCTS

Two-Way Radios



Mark VIII Radio-Phone

Description: Inexpensive two-way radio for operation in the 27-megacycle Citizens Band. Operates on any of nine crystal-controlled transmitting and receiving channels. Transceiver has built in ac power supply. Separate 6- or 12-volt dc power supplies available for mobile applications. Includes squelch control to eliminate background noise. The basic ac unit is supplied with an internal speaker and plug-in microphone. Highly selective superheterodyne receiver with tunable control dial permits reception of any desired channel. 5-watt* transmitter.

Features: • frequency range 26.965-27.225 Mc • transmitter power output 3 watts (nominal) • audio output 2½ watts • receiver sensitivity (6 db signal to noise ratio) 0.4 microvolt

W 11¼", H 3½", D 8"; Weight 8 lbs. (including microphone)

*Maximum allowable plate input power to final radio-frequency stage as defined by FCC regulations.

RCA SPECIAL COMMUNICATIONS PRODUCTS



Personal-Com 300

Description: A truly practical 27-Mc portable transceiver, this lightweight unit operates from a self-contained rechargeable battery. Completely self contained including superheterodyne receiver, for operation in the popular 27-Mc Citizens Band. No license required to operate and provides excellent voice reproduction. Designed for one-hand operation, the "volume-on-off" switch and "push-to-talk" button are placed so that they can be operated with the thumb of either hand. Ideal for business or personal use on construction sites, loading platforms, farms, camps, or on board a boat.

Features: • transmitter power input 90 mw • frequency range 26.975-27.225 Mc • speaker 2" diameter, 100-ohm voice coil • crystals: subminiature, tolerance 0.005%

H 7 $\frac{3}{8}$ ", W 2 $\frac{3}{8}$ ", D 1 $\frac{3}{8}$ "; Weight 1 lb., 1 $\frac{1}{2}$ oz. (with battery)

RCA SPECIAL COMMUNICATIONS PRODUCTS

Citizens Band Antennas

BASE STATION ANTENNAS

- 17628—Provides excellent, low angle, line-of-sight transmission. Achieves a directional, vertically polarized radiation pattern. For operation with 52-ohm cable.
- 7 db forward gain over ground plane • 5X power gain • 13.5 db front to back ratio
- 17629—Half-wave length antenna ideal for fixed station use. Can be roof or side mounted on all types of buildings. Omnidirectional, it lowers the angle of radiation and offers a very low standing wave ratio. For operation with 52-ohm cable.
- 17630—An isolating skirt for Model MI-555501-A. Mounts 9' below antenna to lower angle of radiation and minimize effects of mounting structure.
- 17666—Features a shunt fed, grounded radiator with very low noise pickup. Its low radiation angle intensifies signal pattern.
- 555500—Omnidirectional antenna will handle up to 3 kw. Vertically polarized, for use with any amateur fixed station receiver-transmitter requirement.
- 555501-A—The most popular of all Citizens Band ground plane antennas. Radials are bent at base clamp and offer proper angle for 50-ohm match.

MOBILE ANTENNAS

- 17624—Cowl mounted mobile antenna with continuously loaded 48" fiberglass whip provides excellent radiation pattern. Designed to substitute for conventional one-quarter-wave whips as well as base-loaded and center-loaded antennas.
- 17624-A—Four-foot continuously loaded fiberglass whip with white plastic covering. 50-ohm match.
- 17670—Equipped with solderless connectors and only 44" long, this antenna can be mounted entirely from the outside of the vehicle.
- 17668—Center loaded cowl mount antenna provides excellent horizontal pattern and eliminates fading when changing direction. Can be mounted on fender, cowl, or rear deck. Length varies between 43" collapsed and 60" extended.

RCA SPECIAL COMMUNICATIONS PRODUCTS

MOBILE ANTENNAS (Cont'd)

- 17669—Trunk lid mounting antenna with center loaded whip. Small mounting holes are hidden under trunk lid recess.
- 555578—This popular model is adaptable to virtually all American and foreign cars. Complete bumper mounting antenna assembly with easily adjusted mounting links eliminates the need for drilling holes.
- 555579—A complete antenna kit for rear or side mounting and equipped with a special alloy, cadmium plated spring and having a flexible center conductor.

MARINE ANTENNAS

- 17667—Complete antenna system made out of corrosion resistant materials with universal mounting lay-down assembly. Its flexible 42" whip section will bend without damage. Height adjustable between 107" and 71".
- 555580—Complete antenna kit for deck or cabin mounting. Consists of base, spring, 108" stainless steel whip, cable, and gutter clip. Chrome plated base with impact resistant plastic insulator, mounting pads, and hardware. Furnished with cable and connectors.

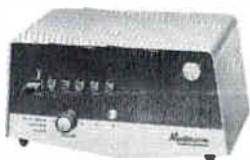
PORTABLE OR TEMPORARY ANTENNAS

- 17625—Gutter-clamp antenna easily snaps on rain gutters of automobiles. Heavy spring assures positive grip—can't shake off regardless of road conditions.
- 17626—Portable antenna with 43" stainless steel whip for mounting directly on transceivers. Extremely efficient for short range communications. Covers a frequency range of 25-29 Mc.
- 17627—Base-loaded portable whip antenna for mounting on Citizens Band transceivers. Vinyl covered loading coil wound into road reduces length without loss of flexibility.

RCA SPECIAL COMMUNICATIONS PRODUCTS

Intercoms

"MASTERCOM"



"SWITCHBOARD"

"MASTERCOM" (Master Intercom)

Description: Extremely sensitive amplifier, ideal for use in home as well as in factory or office. High sensitivity permits picking up voices from across the room.

Features: • volume control with ac "on-off" switch • five individual station-selector slide switches • three-position talk switch and system-selector switch for either all-master or master-to-remote hook-up • 110-120 volts ac or dc, 50 or 60 cycles • power output 2½ watts • power consumption 20 watts • speaker: 3½" Alnico V magnet, 3.2-ohm voice coil H 4¼", W 8⅞", D 4⅞"

"SWITCHBOARD" (Master Intercom)

Description: An all-new master intercom station that offers many features of a telephone switchboard.

Features: • master can speak to any one, several, or all remote intercom stations • "switchboard" feature enables master to set-up direct remote-to-remote communications • remote stations can originate calls to the "switchboard" master at will • master can monitor any one or all remote stations at will • master can set up any one or more remotes to monitor any station in system • "busy" light flickers whenever conversations take place • 110-120 volts ac or dc, 50 or 60 cycles • power output 2½ watts • power consumption 20 watts • speaker 3½" Alnico V magnet, 3.2-ohm voice coil H 4¼", W 8⅞", D 4⅞"

RCA SPECIAL COMMUNICATIONS PRODUCTS



"REMOTE STATION"

Description: Can be used with either the RCA "Mastercom" or "Switchboard" unit. For private or non-private operation. When private, call switch must be used, without interception by master. When non-private, remote may reply to master from a distance without using switch. "Remote Station" can also be installed so that the call switch is inoperative and, thereby, unable to originate calls.



"WIRELESS" Intercom System

Description: Makes use of existing power lines for transmission of voice. Does not require wires nor installation—"just plug in and talk." Comes complete with two identical stations. Several additional stations may be added to any system.

Features: • two- or three-wire line selector switch to match every type of house wiring • advanced circuitry eliminates interference from power lines • uses as little current as a night lamp • neon pilot light indicates when in operation • 105-125 volts ac or dc, 50 or 60 cycles • power consumption 30 watts • audio power output $2\frac{1}{2}$ watts • speakers $3\frac{1}{2}$ " Alnico V, 3.2-ohm voice coil • frequency 200 Kc
H $4\frac{1}{8}$ ", W $8\frac{7}{16}$ ", D $4\frac{9}{16}$ "

RCA SPECIAL COMMUNICATIONS PRODUCTS

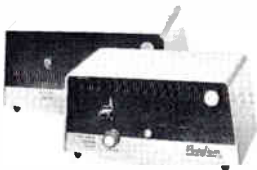


"TRANSISTORIZED" Intercom System

Description: Can be installed anywhere independent of line current. Operates on four standard 1½-volt penlight batteries. Instantaneous talk—no warm-up necessary. Provides exceptionally long battery life due to master's special battery-saver "standby-listen-talk" switch. Master also includes volume control. Remote equipped with a "listen-call" switch. System comes complete with master, remote, and 50 feet of cable.

Features: • power output 8 watts • power gain 70 db
• negative feedback for stability and low distortion 6 db • input and output impedance 3.2 ohms

H 4½", W 8⅞", D 4⅞"



"PARTYLINER" (Intercom System)

Description: Combines smart, new styling with outstanding performance. Economically priced to fit everyone's budget. As many as four remotes can be added to the system. Remotes can answer call without operating switch and can be closed for privacy but still receive calls. Ideal for use in factories, warehouses, and loading docks.

Features: • range of master to any remote is about 500 feet • master has its own volume control with "on-off" switch • heavy-duty, 3-position "talk" switch • pilot light • extremely low hum and noise level • 110-120 volts ac or dc, 50 or 60 cycles • power consumption 20 watts • power output 2.5 watts • speaker master and remote both contain a 3½" Alnico V, 3.2-ohm voice coil

H 4½", W 8⅞", D 4⅞"

RCA SPECIAL COMMUNICATIONS PRODUCTS

Sound Amplifiers and Systems

CONSUL SERIES



CONSUL 12 (12-Watt Public Address Amplifier)

Description: Dependable, high-quality sound reproduction. For use in low-power public address and paging systems, garages, taverns, churches, amusement parks, and auctions.

Features: • rated power 12 watts • frequency response 30-20000 cps, ± 2 db • inputs 1 mic., 2 aux. • hum and noise below rated output: fundamental —75 db, at mic. input —55 db, at phono input —75 db • gain: mic. input 117 db, phono input 84 db • sensitivity: mic. input 5 millivolts, phono input 0.3 volt • output impedance 4, 8, and 16 ohms (plus speaker plug-in socket), and output for line or booster amplifier and tape recorder

Controls: channel 1 gain, aux. 1 and 2 gain (fader), master volume, tone (4-pos. sw.), power on-off, pilot light.

H 6", W 15 $\frac{1}{8}$ ", D 10 $\frac{3}{4}$ "; Weight 21 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS



CONSUL 35 (35-Watt Public Address Amplifier)

Description: Extremely versatile, medium power amplifier designed for simple operation and reliable performance, and excellent for speech reproduction, music, or paging in auditoriums, ballrooms, churches, and schools.

Features: • rated power 35 watts • frequency response 20-20000 cps, ± 2 db • inputs 2 mic., 3 aux., 1 mag. phono • hum and noise below rated output: fundamental —80 db, at mic. input —55 db, at phono input —75 db • gain: mic. input 124 db, phono input 89 db • sensitivity: mic., input 4 millivolts, phono input 0.3 volt • output impedance 4, 8, 16, and 150 ohms (plus two speaker sockets), and 25 volts balanced, 70.7 volts unbalanced outputs

Controls: • channel 1 gain, channel 2 and 3 mixer fader, master volume, bass, treble, power on-off, pilot light.

H 6", W 15 $\frac{1}{8}$ ", D 10 $\frac{3}{4}$ "; Weight 26 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS



CONSUL 100 (100-Watt Public Address Amplifier)

Description: Highly efficient, high-power amplifier designed to provide maximum sound amplification in hospitals, industrial plants, auditoriums, hotels, and churches.

Features: • rated power 100 watts • frequency response 20-20000 cps, ± 2 db • inputs 2 mic., 2 aux., 1 mag. phono • hum and noise below rated output: fundamental —85 db, at mic. input —60 db, at phono input —80 db • gain: mic. input 128 db, phono input 94 db • sensitivity: mic. input 4 millivolts, phono input 0.3 volt • output impedance: 4, 8, 16, and 150 ohms (plus two speaker sockets), and 25 volts balanced, 70.7 volts unbalanced outputs

Controls: channel 1 gain, channel 2 and 3 mixer-fader, master volume, bass, treble, power on-off, pilot light.

H 6", W 18 $\frac{1}{4}$ ", D 11 $\frac{3}{4}$ "; Weight 38 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS



CONSUL COMBINATION (Mixer/Preamplifier)

Description: Exceptional unit, designed for use with any sound system, fulfilling the need for additional channels and increasing the flexibility of sound and recording installations. Completely self-contained, the Consul Combination permits remote control of multiple program sources.

Features: • rated output: 0 dbm, at less than 0.2% total harmonic distortion; 7 volts, at 1% total harmonic distortion • frequency response 20-15000 cps, + 0 db (—) —0.5 db • inputs 4 mic., 2 aux., 1 mag. phono • hum and noise at 7 volt output —85 db (fundamental) • gain: mic. inputs 60 db, aux. inputs 28 db • sensitivity: mic. inputs 4 millivolts, aux. inputs 160 millivolts • output: low impedance cathode-follower, min. recommended load impedance: 50 ohms

Controls: gain controls for channels 1, 2, 3, 4; mic. mag. switch for channel 1, mic. aux. switches for channels 2 and 3, mic. master switch for channel 4, power on-off, pilot light, switched aux. ac power outlet.

H 5½", W 11½", D 5½"; Weight 11 lbs.

RCA SPECIAL COMMUNICATIONS PRODUCTS



CONSUL PHONOGRAPH TOP

Description: Designed for the rugged dependability required of all public address system components. Will mount directly on top of the amplifier, or operate remotely. It provides four playback speeds and has a built-in 45 rpm adaptor.

Features: • equipped with turnover cartridge for playing 78 rpm standard play and long play monophonic recordings • ceramic-type cartridge for maximum resistance to high humidity and temperature • tonearm can be secured to the base for safer portability • employs standard styli for easy replacement in the field • separate power switch to turn phonograph on and off



Panel Lock Covers

Features: • attractive, sturdy metal panel covers, complete with lock, for each of the Consul series amplifiers • panel light may be viewed at all times with cover in place • easy installation; no screws or adjustments necessary • takes only seconds to insert or remove covers from cage

RCA SPECIAL COMMUNICATIONS PRODUCTS

High-Fidelity, Multi-Purpose Loudspeakers



Envoy 8



Envoy 12



Envoy 15

ENVOY SERIES

Description: Whatever your sound requirements, RCA's new multipurpose Envoy Series Loudspeakers provide a truly practical solution to your problem. The crisp, wide-range response of these high-quality speakers provides realistic performance from your high-fidelity, stereo, or monophonic equipment. For public address applications, the Envoy Series Loudspeakers deliver room-filling sound faithfully reproduced from record, tape, or voice input. Their low-silhouette frames permit installation in walls or ceilings, making them ideal for building into new construction.

Features: • dual cone construction • edgewise-wound ribbon-wire voice coil • sealed polyester reinforced fiberglass coil form • long, medium-diameter voice coils • heavy-duty die-cast frames • fungus-proofed cones and spiders.

Envoy 8—Specifications: • frequency response 55-13000 cps • EIA sensitivity rating 43 db cone resonant frequency 75 cps • impedance 8 ohms • peak power handling capacity 40 watts • diameter: voice coil 2", speaker 8 $\frac{3}{8}$ " • depth 3 $\frac{1}{2}$ "

Envoy 12—Specifications: • frequency response 40-13000 cps • EIA sensitivity rating 45 db cone resonant frequency 65 cps • impedance 8 ohms • peak power handling capacity 40 watts • diameter: voice coil 2", speaker 12 $\frac{1}{4}$ " • depth 3 $\frac{1}{2}$ "

Envoy 15—Specifications: • frequency response 35-13000 cps • EIA sensitivity rating 48 db • cone resonant frequency 50 cps • impedance 8 ohms • peak power handling capacity 40 watts • diameter: voice coil 2", speaker 15 $\frac{1}{8}$ " • depth 6 $\frac{1}{32}$ "

RCA SPECIAL COMMUNICATIONS PRODUCTS

General Purpose Microphones

ATTACHE SERIES



508



606

Attaché 508 (Dynamic Type)

Description: Attractive, traditionally styled pressure-type dynamic high-impedance microphone combining compactness and sturdiness with high-level output. Excellent reproduction of both music and speech. Designed especially for public-address use in hotels, theatres, auditoriums, schools, and churches.

Features: • frequency response 50-8000 cps • output level —151 db (EIA sensitivity rating) • on-off switch: sliding contact short circuits microphone in "off" position • impedance: for high-impedance amplifier input • non-directional characteristics • stand coupler $\frac{5}{8}$ " —27 thread • corrosion-resistant diaphragm is capable of withstanding high humidity, extreme temperatures, and severe mechanical shock
H 6 $\frac{1}{4}$ ", W 2 $\frac{3}{8}$ ", D 3 $\frac{1}{8}$ "; Weight 1 $\frac{1}{4}$ lbs.

Attaché 606 (Ceramic Type)

Description: Attractive styling and small size make this high-impedance microphone an ideal replacement unit for home recorders. Serves well as a utility microphone in low-cost public-address applications. Designed for hand or table use, it has sufficient sensitivity for any modern amplifier input.

Features: • frequency response 60-6000 cps • output level —155 db (EIA sensitivity rating) • high-impedance output —55 db • non-directional characteristic

H 3 $\frac{9}{16}$ ", W 1 $\frac{3}{16}$ ", D 1 $\frac{3}{4}$ "; Weight 8 oz. (including cable)

RCA SPECIAL COMMUNICATIONS PRODUCTS



Attache 608 (Cardioid Type)

Description: Ceramic-type cardioid microphone designed for use in public address, call, and paging systems, base-station operation of a mobile-communications network, high-level Citizens Band radio or amateur radio. The cardioid characteristic makes the Attache 608 especially useful in locations where high-level random noise and reverberation are present.

Features: • frequency response 60-8000 cps • output level -155 db (EIA sensitivity rating) • on-off switch: sliding contact short circuits microphone in "off" position • high-impedance output • cardioid polar pattern • temperature: will withstand 200°F
H 8 $\frac{7}{32}$ " , W 1 $\frac{7}{8}$ " , D 1 $\frac{1}{32}$ " ; Weight 1 lb. (including cable)

RCA ELECTRONIC INSTRUMENTS

for servicing • production • research • training

TEST AND MEASURING EQUIPMENT

Voltmeter-Type Instruments



WV-77E VoltOhmyst® (VTVM) & WV-77E(K) VoltOhmyst (VTVM) Kit

Measures—in 7 ranges: • 0.02 to 1500 volts dc • 0.1 to 1500 volts ac rms • 0.2 to 4000 p-p volts of sine and complex waveforms • 0.2 ohms to 1000 megohms

Features: • dc accuracy $\pm 3\%$ full scale, ac $\pm 5\%$ • dc input resistance 11 megohms • ac response 40 cps to 5 Mc on lower 3 ranges • zero-center scale adjustment for FM alignment • $4\frac{1}{4}$ " meter

H $7\frac{3}{8}$ ", W $5\frac{5}{8}$ ", D $4\frac{3}{8}$ "; Weight 5 lbs.

RCA ELECTRONIC INSTRUMENTS



WV-98C Senior VoltOhmyst (VTVM) & WV-98C(K) Senior VoltOhmyst Kit

Measures—in 8 ranges: • 0.02 to 1500 volts dc • 0.1 to 1500 volts ac rms • 0.2 to 4000 p-p volts of sine waveforms • 0.2 to 2000 p-p volts of complex waveforms • 0.2 ohms to 1000 megohms

Features: • special $\frac{1}{2}$ -volt dc scale—ideal for transistor measurements • accuracy ac and dc $\pm 3\%$ full scale, except 5% on lower 2 ac ranges • dc input resistance 11 megohms • zero-center scale adjustment for FM alignment • $6\frac{1}{2}$ " meter • special dc/ac-ohms shielded probe and cable
H $6\frac{1}{2}$ ", W 7", D $3\frac{3}{4}$ "; Weight 6 lbs.

RCA ELECTRONIC INSTRUMENTS



WV-87B Master VoltOhmyst (VTVM)

Like the Senior VoltOhmyst except for low dc range but features: • $7\frac{1}{2}$ " meter with mirror-backed scale • accuracy $\pm 3\%$ full scale on all ranges

Measures—in 9 ranges: • $10\ \mu\text{a}$ to 15 amp dc
H 10", W $13\frac{1}{2}$ ", D 7"; Weight 8 lbs.



WV-120A Power Line Monitor

For constant indication of power line voltage

Features: • expanded scale 100 to 140 volts indicates true rms values • accuracy $\pm 2\%$ at 120 volts, $\pm 3\%$ at 100 and 140 volts • readable from 10 feet or more • plugs in to power line outlet • wide frequency range, 25 to 400 cps

H $3\frac{15}{16}$ ", W 5", D $3\frac{1}{16}$ "; Weight $1\frac{1}{2}$ lbs.

RCA ELECTRONIC INSTRUMENTS

WV-38A Volt-Ohm-Millammeter & WV-38A(K) VOM Kit

Measures: • 0.005 to 5000 volts dc in 8 ranges, input resistance 20,000 ohms/volt full scale • 0.05 to 5000 volts ac in 6 ranges, input resistance 5000 ohms/volt full scale • $1 \mu\text{a}$ to 10 amp dc in 6 ranges insertion loss 0.25 volt • 0 - 20 megohms in 3 ranges • -20 to +50 db (zero = 1 mw into 600 ohms) • af output 2.5 to 250 volts in 4 ranges

Features: • $5\frac{1}{4}$ " meter • accuracy $\pm 3\%$ full scale on dc, 5% on ac and af • frequency response 10 cps to 50 kc • facility for measuring af in presence of dc H $6\frac{7}{8}$ ", W $5\frac{1}{4}$ ", D $3\frac{1}{8}$ "; Weight $3\frac{1}{2}$ lbs.



WV-37B Battery Tester

Measures: • wide range of battery types under load • percentage of rated output voltage • whether battery should be replaced

Features: • 8 blank switch positions for new battery types • small size, readily portable

H $6\frac{7}{8}$ ", W $5\frac{1}{4}$ ", D $3\frac{1}{8}$ ".

RCA ELECTRONIC INSTRUMENTS



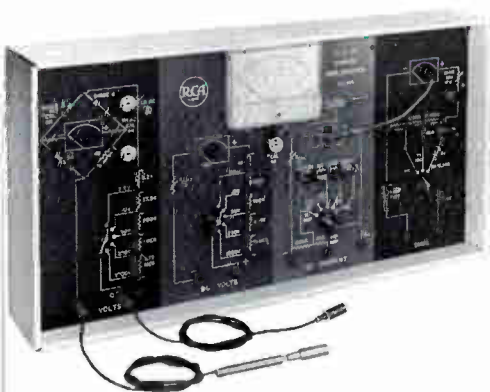
WV-84C Ultra-Sensitive DC Microammeter

Measures: • 0.0002 to 1000 microamps dc in 6 ranges, 0.5 volt insertion loss • 0.02 to 100 dc volts in 3 ranges • input resistance more than 100 meg-ohms/volt • ohms measurement, 900 to 90,000 meg-ohms in 2 ranges

Features: • meter electronically protected against burnout

H 7½", W 10½", D 6¼"; Weight 10 lbs.

RCA ELECTRONIC INSTRUMENTS



WE-95A(K) VOM Dynamic Demonstrator Kit

Provides extremely effective method for instruction on principles of multi-range volt-ohm-milliameters. Each section colored for convenient reference. A detailed explanation of each circuit function is given in booklet for instructor's use.

DC input resistance: 20,000 ohms/volt

AC input resistance: 5,000 ohms/volt

Features: • easy to assemble • packing box serves as convenient dust-proof housing for either vertical or horizontal operation

Measures: • 2.5 to 1,000 volts ac or dc in five ranges • 12 to 120,000 ohms in three ranges • 1.0 ma to 10 amp full scale in five dc current ranges

Size of panel: 24" x 12"

RCA ELECTRONIC INSTRUMENTS

Oscilloscopes



WO-33A 3" Oscilloscope & WO-33A (K) Oscilloscope Kit

For black-and-white & color TV servicing and general electronic applications

Features: • small and easily portable, weighs only 14 pounds • vertical amplifier sensitivity .003 rms volt/inch (narrow band), 0.1 rms volt/inch (wide band) • horizontal amplifier sensitivity 0.9 rms volts/inch • input impedance, 1 meg/90 $\mu\mu\text{f}$ • vertical amplifier, wideband response 5.5 cps to 5.5 Mc • rise time 0.1 μsec • with low-capacity probe input impedance 10 meg/10 $\mu\mu\text{f}$ • sweep oscillator 15 cps to 75 kc • internal calibrating voltage
H 8 $\frac{3}{4}$ " , W 6 $\frac{1}{2}$ " , D 10 $\frac{1}{2}$ " ; Weight 14 lbs.

RCA ELECTRONIC INSTRUMENTS



WO-91A 5" Oscilloscope

For black-and-white & color TV servicing and general electronic applications

Features: • vertical amplifier sensitivity 0.018 rms volt/inch (narrow band), 0.053 rms volt/inch (wide band) • horizontal amplifier sensitivity 0.18 rms volt/inch • input impedance, 1 meg/75 $\mu\mu\text{f}$ • with low capacity probe, impedance 10 meg/12.5 $\mu\mu\text{f}$ • vertical amplifier wideband response 3 cps to 4.5 Mc • rise time 0.1 μsec • preset sweeps for TV deflection frequencies • two-stage sync separator for improved stability • sweep oscillator 10 cps to 100 kc • internal calibrating voltage • provision for 2-axis blanking

H 13½", W 9", D 16½"; Weight 30 lbs.

RCA ELECTRONIC INSTRUMENTS

Signal Generators



WR-64A Color-Bar/Dot/Crosshatch Generator & WR-64A(K) Color-Bar/Dot/Crosshatch Generator Kit

For color-TV applications.

[Note: Construction of the WR-64A(K) kit requires technician's abilities and test equipment as specified in the kit instructions.]

Provides: • rf output on channel 3 • output cable connected directly to receiver antenna • 10 color bars at 30° phase intervals • stable dot pattern, enabling proper convergence • crosshatch pattern for size and linearity checks • line and frame sync pulses • picture carrier .05 volts max. • sound carrier 10% of picture carrier, switched out when not required

Features: • crystal-controlled accuracy • simple to operate

H 10", W 12½", D 8"; Weight 13¼ lbs.

RCA ELECTRONIC INSTRUMENTS



WR-50A RF Signal Generator & WR-50A(K) RF Signal Generator Kit

Provides: • rf output 85 Kc to 30 Mc in six overlapping ranges • dual control for rf output from two-step attenuator and potentiometer • at least 0.05-volt rms output from cathode follower type of output

Features: • dial calibration accuracy 1% • calibrating oscillator circuit with front panel socket for crystal • 400-cycle oscillator for internal modulation • shielded cables for rf and af output

H 7 $\frac{3}{4}$ " , W 5 $\frac{5}{8}$ " , D 4 $\frac{3}{4}$ " ; Weight 5 lbs.

RCA ELECTRONIC INSTRUMENTS



WR-51A Stereo FM Signal Simulator

Provides: • variable-level composite stereo output signal for either left or right channel • variable-level 19 Kc subcarrier signal • 100 Mc FM signal with composite stereo, monophonic FM, and 60-cps sweep signals • 0 to 75 Kc FM deviation adjustment • 60 cps sweep width, adjustable from 0 to 700 Kc • crystal-controlled marker frequency for 10.7 Mc if, plus four additional rf markers in the 88-108 Mc range • two coaxial connecting cables, one direct and one for use with 75- or 300-ohm input.

Features: • special phase-test signal (L + R) for accurate phase adjustment of subcarrier transformers • eight pre-set sine-wave frequencies: 400 cps, 1,000 cps, 5,000 cps, 19 Kc, 28 Kc, 38 Kc, 48 Kc, and 67 Kc • center frequency trim adjustment for 100 Mc carrier • 60-db attenuator in three 20 db steps for rf signal • zero-center meter for checking receiver stereo balance

H 10", W 12½", D 8"; Weight 14 lbs.

RCA ELECTRONIC INSTRUMENTS



WA-44C Sine/Square-Wave Audio Generator

Provides: • sine or square-wave frequencies, 20 cps to 200 kc • sine-wave output, 8 volts rms into 100,000 ohms/75 $\mu\mu\text{f}$ load • square-wave output, 10 volts p-p into 100,000 ohms/75 $\mu\mu\text{f}$ load

Features: • source impedances 300 ohms and 3000 ohms • square-wave rise time less than 0.15 μsec , tilt less than 5% • output amplitude variation (30 cps to 100 kc) ± 1.5 db • frequency stability $\pm 2\%$ • dial calibration accuracy $\pm 5\%$

H 7", W 10 $\frac{1}{16}$ ", D 6 $\frac{1}{2}$ "; Weight 10 $\frac{1}{2}$ lbs.



NG-360A Phase Checker

Used for a dynamic check of phasing in any audio system from input to the output of the speakers

Features: • sound powered; requires no external voltage source • any VOM, VTVM, or oscilloscope may be used as the indicator

RCA ELECTRONIC INSTRUMENTS



WR-69A Television/FM Sweep Generator

Provides: • sweep output for channels 2 - 13 in 12 ranges • FM sweep output 88-108 Mc in 2 ranges • if-video sweep output 50 kc - 50 Mc in 6 ranges • output voltage at least 0.1 volt on all ranges • rf sample voltage for use with marker adders • two bias output voltages, continuously variable from 0 to -12 volts, available at front panel

Features: • continuously adjustable sweep width, up to at least 12 Mc on the TV channels and up to at least 20 Mc on FM and if/video • maximum output amplitude variation 0.1 db/Mc • attenuator range for TV and FM channels 60 db, for if/video 70 db • output cable for TV and FM 300 ohms balanced to ground, if/video 100 ohms • switched blanking permits zero-reference line during alignment

H 10", W 13 $\frac{5}{8}$ ", D 7": Weight 16 lbs.

RCA ELECTRONIC INSTRUMENTS



WR-70A RF/IF/VF Marker Adder

For alignment of color TV and black-and-white TV receivers

Provides: • marker pulse by beating marker frequency with sample of rf sweep signal and applies marker pulse to demodulated output from receiver under test • provides combined signal for oscilloscope display • four different marker shapes—(1) positive peak, (2) negative peak, (3) positive and negative peaks (wideband), (4) positive and negative peaks (narrow band)

For use in conjunction with conventional: • if/video sweep generators having 50 kc to 50 Mc output at 0.1 min. rms volts • rf sweep generators having 0.005 min. rms volts output • conventional marker generators

Features: • sweep attenuation 60 db max. • complete with 4 connectors; marker input, sweep sample input, demodulated signal input, scope output

H 7½", W 10½", D 6¼"; Weight 8 lbs.

RCA ELECTRONIC INSTRUMENTS



WR-76A High-Sensitivity AC VTVM & WR-76A(K) High-Sensitivity AC VTVM Kit

For laboratory and service use and as a wide range audio preamplifier (38 db gain on 10-millivolt range). Operates from power line source of 105 to 125 volts at 50 to 400 cps.

Measures: • ac voltages from 0.01 volt to 100 volts • —40 to +40 db • voltages having a frequency range of 10 cps to 1.5 Mc with WG-300B probe in DIRECT position, and 10 cps to 500 Kc with WG-300B probe in the LOW-CAP position • $\pm 5\%$ accuracy of full-scale reading for voltage and db measurements

Features: • two different scales for voltage measurements • separate scale for db measurements • supplied with WG-300B coaxial-type low-capacitance/direct probe

H 7 $\frac{3}{8}$ " , W 5 $\frac{3}{8}$ " , D 4 $\frac{3}{8}$ " ; Weight 5 lbs.

RCA ELECTRONIC INSTRUMENTS



WR-99A Crystal-Calibrated Marker Generator

Provides: • crystal-controlled frequencies (internal) 1 Mc, 4.5 Mc, 10 Mc • rf output frequencies (fundamentals) 19 - 260 Mc in 8 ranges calibrated at 1 Mc and 10 Mc intervals • dual markers spaced at 4.5 Mc when used with sweep generator and scope to mark picture and sound carrier points on response curve • output voltages at least 0.05 rms volts at crystal frequencies and 0.1 rms volts at VFO frequencies • internal modulation 1 Mc, 10 Mc, 4.5 Mc, 4.5 Mc with 600 cps, and 600 cps

Features: • modulation can be accomplished from external source up to 10 Mc, from plug-in crystal 1 Mc to 30 Mc, from plug-in LC circuit 100 kc to 1 Mc • rf attenuator 60 db in 12 steps of 5 db • output cable impedance 90 ohms

H 10", W 13½", D 7"; Weight 17 lbs.

RCA ELECTRONIC INSTRUMENTS

Tube Testers



WT-100A Electron Tube Micromhometer

Measures: • transconductance, control-grid or suppressor-grid to plate 0 to 100,000 μ mhos in 6 ranges • dc electrode currents; to plate, grid No. 3, grid No. 2 and No. 4 and grid No. 1 0 μ a to 300 ma in 11 ranges • tube voltage drop 0-300 volts in 4 ranges at plate currents up to 300 milliamperes • ac heater volts 0-117 in 5 ranges with power capability to 30 watts • dc heater volts 0.1-3 at currents up to 250 ma • indicates shorts up to 2 megohms resistance

Features: • transconductance accuracy $\pm 3\%$ • plate volts 0-300 with capability to 30 watts • grid No. 2 and 4 voltage up to 300 volts at currents up to 30 ma • grid No. 3 and grid No. 1 volts 0-100 • plate and grid No. 2 supply regulation $\pm 3\%$ • cathode and grid No. 1 resistor continuously adjustable from 0 to 2600 ohms and from 0 to 5 megohms respectively • 4 multiple-socket plug-in units supplied with unit covering a wide range of different tube types and bases • 2 top-cap connectors • push-to-read operation • rotary switches can connect up to 14 pins and two top caps to desired test circuit • built-in 7-pin and 9-pin straighteners • meter fully protected against overload

H 8", W 23½", D 18½"; Weight 50 lbs.

RCA ELECTRONIC INSTRUMENTS

Voltage and Power Supplies



MP-25A TV Isotap

Provides: • output voltages of 130, 115, and 105 volts ac, up to 275 volt-amperes, with 4% regulation

Features: • tapped to match line voltages from 105 to 130 in 6 steps, switch selector • auto transformer and isolation transformer windings • separate outlet for each output voltage



WG-307B TV Bias Supply & WG-307B(K) TV Bias Supply Kit

Provides: • three separate adjustable voltages, 0 to -15 volts minimum for rf, if, and agc bias circuits in color and black-and-white TV receivers

Features: • separate potentiometers for adjusting 0- to -15-volt outputs

RCA ELECTRONIC INSTRUMENTS

Accessories

WG-304B RF Modulator

For checking frequency adjustment of color TV receivers for use in conjunction with a crystal calibrated signal generator, sweep frequency generator, and a marker source

Provides: • rf output signal to TV antenna leads amplitude-modulated by signal from video sweep generator

WG-295D Video Multimarker

For sweep alignment and troubleshooting of color TV receivers

Provides: • absorption markers at 0.5, 1.5, 2.5, 3.0, 3.58, 4.1, and 4.5 Mc for marking video response curves

Features: • easy identification of the desired marker
• insertion loss 1 db or less

Probes

For Voltmeter-Type Instruments



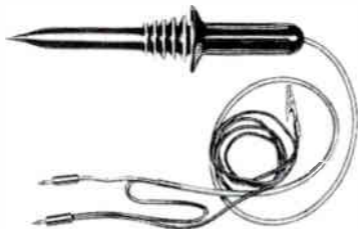
WG-301A Crystal-Diode Probe • slips on to probe WG-299D to increase frequency range to 250 Mc

WG-351A Crystal-Diode Probe • extends frequency range of WV-77C and WV-77E(K) to over 100 Mc. Alligator clips at input

RCA ELECTRONIC INSTRUMENTS



WG-289 High Voltage Probe • extends dc voltage range to 50,000 volts—RCA VoltOhmysts WV-98A, WV-98B, WV-98C, WV-77A, WV-77B, WV-77C, WV-97A, WV-87A, WV-87B • microphone type connector



WG-297 High Voltage Probe • extends dc voltage range to 50,000 volts—RCA voltmeters WV-77E and WV-77E(K) and WV-38A • banana plug connectors

WG-206, WG-210, WG-211 Multiplier Resistors

For use in WG-289 and WG-297 high-voltage probes

WG-206—1090 megohms multiples 11 megohm input resistance by 100

WG-210—900 megohms multiplies 5000-volt range of 20,000 ohms/volt VOM's by 100

WG-211—495 megohms multiplies 250-volt range of 20,000 ohms/volt VOM's by 100

WG-299D DC/AC-Ohms Probe and Cable • for use with VoltOhmysts except WV-77E and WV-77E(K) • shielded from connector to tip • finger-tip switch to select dc or ac-ohms operation

RCA ELECTRONIC INSTRUMENTS

Probes For Oscilloscopes



WG-300B Direct/Low-Capacitance Probe and Cable • for use with RCA oscilloscopes WO-33A and WO-91A • increases input impedance to 10 megohms/11 μ f • finger-tip switch to select direct or low-cap operation

WG-349A Direct/Low-Capacitance Probe • for use with WO-33A and WO-33A(K) scopes • increases input impedance to 10 megohms/12 μ f



WG-302A RF/IF/VF Signal Tracing Probe • slips on to probe WG-300B, demodulates signal permitting display on WO-91A scope

WG-350A Demodulator Probe • for use with WO-33A and WO-33A(K) scopes, demodulation and signal tracing of radio, TV rf and if signals

TEST AND MEASURING EQUIPMENT

• **INSTRUCTION BOOKLETS**, containing specifications, operating and maintenance data, application information, schematic diagrams, and replacement parts lists, are available for all RCA test instruments.

NOTE: All prices are optional list prices and apply in the U.S.A. They are subject to change without notice.

WA-44	(Audio Signal Generator).....	\$0.50
WA-44C	(Sine-Square Wave Audio Generator).....	1.00
WO-33A	(Super-Portable Oscilloscope).....	1.00
WO-88A	(5-in. Oscilloscope).....	.50
WO-91A	(5-in. Oscilloscope).....	1.00
WR-36A	(Dot-Bar Generator).....	.50
WR-39C	(TV Calibrator).....	.50
WR-46A	(Video Dot/Crosshatch Generator).....	.75
WR-49A	(RF Signal Generator).....	.50
WR-49B	(RF Signal Generator).....	1.00
WR-61B	(Color-Bar Generator).....	1.00
WR-64A	(Color-Bar/Dot/Crosshatch Generator).....	1.00
WR-67A	(Test-Oscillator).....	.25
WR-69A	(TV-FM Sweep Generator).....	1.00
WR-70A	(RF-IF-VF Marker Adder).....	.75
WR-86A	(UHF Sweep Generator).....	.50
WR-99A	(Marker Calibrator).....	1.00
WV-37B	(Radio Battery Tester).....	.25
WV-38A	(Volt-Ohm-Milliammeter).....	.50
WV-65A	(VoltOhmyst®).....	.25
WV-74A	(High-Sensitivity AC VTVM).....	.75
WV-75A	(VoltOhmyst®).....	.25
WV-77A	(VoltOhmyst®).....	.25
WV-77B	(VoltOhmyst®).....	.25
WV-77E	(VoltOhmyst®).....	1.00
WV-84C	(Ultra-Sensitive DC Microammeter).....	.75
WV-87B	(Master VoltOhmyst®).....	.75
WV-95A	(VoltOhmyst®).....	.25
WV-97A	(VoltOhmyst®).....	.50
WV-98A	(VoltOhmyst®).....	1.00
WV-98B	(Senior VoltOhmyst®).....	1.00
WV-98C	(Senior VoltOhmyst®).....	.50
195-A	(VoltOhmyst®).....	.25
WT-100A	(Electron-Tube MicroMhoMeter, Ser. No. 1001 and over).....	2.00
WT-100A	(Tube Chart 1CE-163).....	3.00
WT-110A	(Automatic Electron-Tube Tester).....	1.00
WT-110A	(1CE-174 Card Punch Data).....	.25
WT-110A	(1CE-234 Card Punch Data).....	1.00
WT-110A	(Supplement 2 to 1CE-234 Card Punch Data)....	.50

JANUARY 1963

TUES. 1

NEW YEAR'S DAY

WED. 2

THURS. 3

FRI. 4

SAT. 5

JANUARY 1963

SUN. 6

MON. 7

TUES. 8

WED. 9

THURS. 10

FRI. 11

SAT. 12

JANUARY 1963

SUN. 13

MON. 14

TUES. 15

WED. 16

THURS. 17

FRI. 18

SAT. 19

JANUARY 1963

SUN. 20

MON. 21

TUES. 22

WED. 23

THURS. 24

FRI. 25

SAT. 26

JANUARY-FEBRUARY 1963

SUN. 27

MON. 28

TUES. 29

WED. 30

THURS. 31

FRI. 1

SAT. 2

FEBRUARY 1963

SUN. 3

MON. 4

TUES. 5

WED. 6

THURS. 7

FRI. 8

SAT. 9

FEBRUARY 1963

SUN. 10

MON. 11

TUES. 12

LINCOLN'S BIRTHDAY

WED. 13

THURS. 14

FRI. 15

SAT. 16

FEBRUARY 1963

SUN. 17

MON. 18

TUES. 19

WED. 20

THURS. 21

FRI. 22

WASHINGTON'S BIRTHDAY

SAT. 23

FEBRUARY-MARCH 1963

SUN. 24

MON. 25

TUES. 26

WED. 27

ASH WEDNESDAY

THURS. 28

FRI. 1

SAT. 2

MARCH 1963

SUN. 3

MON. 4

TUES. 5

WED. 6

THURS. 7

FRI. 8

SAT. 9

MARCH 1963

SUN. 10

MON. 11

TUES. 12

WED. 13

THURS. 14

FRI. 15

SAT. 16

MARCH 1963

SUN. 17

MON. 18

TUES. 19

WED. 20

THURS. 21

FRI. 22

SAT. 23

MARCH 1963

SUN. 24

MON. 25

TUES. 26

WED. 27

THURS. 28

FRI. 29

SAT. 30

MARCH-APRIL 1963

SUN. 31

MON. 1

TUES. 2

WED. 3

THURS. 4

FRI. 5

SAT. 6

APRIL 1963

SUN. 7

MON. 8

TUES. 9

PASSOVER BEGINS

WED. 10

THURS. 11

FRI. 12

GOOD FRIDAY

SAT. 13

APRIL 1963

SUN. 14

EASTER SUNDAY

MON. 15

TUES. 16

PASSOVER ENDS

WED. 17

THURS. 18

FRI. 19

SAT. 20

APRIL 1963

SUN. 21

MON. 22

TUES. 23

WED. 24

THURS. 25

FRI. 26

SAT. 27

APRIL-MAY 1963

SUN. 28

MON. 29

TUES. 30

WED. 1

THURS. 2

FRI. 3

SAT. 4

MAY 1963

SUN. 5

MON. 6

TUES. 7

WED. 8

THURS. 9

FRI. 10

SAT. 11

MAY 1963

SUN. 12

MON. 13

TUES. 14

WED. 15

THURS. 16

FRI. 17

SAT. 18

MAY 1963

SUN. 19

MON. 20

TUES. 21

WED. 22

THURS. 23

FRI. 24

SAT. 25

300

MAY-JUNE 1963

SUN. 26

MON. 27

TUES. 28

WED. 29

THURS. 30

MEMORIAL DAY

FRI. 31

SAT. 1

JUNE 1963

SUN. 2

MON. 3

TUES. 4

WED. 5

THURS. 6

FRI. 7

SAT. 8

JUNE 1963

SUN. 9

MON. 10

TUES. 11

WED. 12

THURS. 13

FRI. 14

FLAG DAY

SAT. 15

JUNE 1963

SUN. 16

MON. 17

TUES. 18

WED. 19

THURS. 20

FRI. 21

SAT. 22

JUNE 1963

SUN. 23

MON. 24

TUES. 25

WED. 26

THURS. 27

FRI. 28

SAT. 29

JUNE-JULY 1963

SUN. 30

MON. 1

TUES. 2

WED. 3

THURS. 4

INDEPENDENCE DAY

FRI. 5

SAT. 6

JULY 1963

SUN. 7

MON. 8

TUES. 9

WED. 10

THURS. 11

FRI. 12

SAT. 13

JULY 1963

SUN. 14

MON. 15

TUES. 16

WED. 17

THURS. 18

FRI. 19

SAT. 20

JULY 1963

SUN. 21

MON. 22

TUES. 23

WED. 24

THURS. 25

FRI. 26

SAT. 27

JULY-AUGUST 1963

SUN. 28

MON. 29

TUES. 30

WED. 31

THURS. 1

FRI. 2

SAT. 3

310

AUGUST 1963

SUN. 4

MON. 5

TUES. 6

WED. 7

THURS. 8

FRI. 9

SAT. 10

AUGUST 1963

SUN. 11

MON. 12

TUES. 13

WED. 14

THURS. 15

FRI. 16

SAT. 17

AUGUST 1963

SUN. 18

MON. 19

TUES. 20

WED. 21

THURS. 22

FRI. 23

SAT. 24

AUGUST 1963

SUN. 25

MON. 26

TUES. 27

WED. 28

THURS. 29

FRI. 30

SAT. 31

SEPTEMBER 1963

SUN. 1

MON. 2

LABOR DAY

TUES. 3

WED. 4

THURS. 5

FRI. 6

SAT. 7

SEPTEMBER 1963

SUN. 8

MON. 9

TUES. 10

WED. 11

THURS. 12

FRI. 13

SAT. 14

SEPTEMBER 1963

SUN. 15

MON. 16

TUES. 17

WED. 18

THURS. 19

JEWISH NEW YEAR

FRI. 20

JEWISH NEW YEAR

SAT. 21

SEPTEMBER 1963

SUN. 22

MON. 23

TUES. 24

WED. 25

THURS. 26

FRI. 27

SAT. 28
YOM KIPPUR

SEPTEMBER-OCTOBER 1963

SUN. 29

MON. 30

TUES. 1

WED. 2

THURS. 3

FRI. 4

SAT. 5

OCTOBER 1963

SUN. 20

MON. 21

TUES. 22

WED. 23

THURS. 24

FRI. 25

SAT. 26

OCTOBER-NOVEMBER 1963

SUN. 27

MON. 28

TUES. 29

WED. 30

THURS. 31

FRI. 1

SAT. 2

NOVEMBER 1963

SUN. 3

MON. 4

TUES. 5

ELECTION DAY

WED. 6

THURS. 7

FRI. 8

SAT. 9

NOVEMBER 1963

SUN. 10

MON. 11

VETERANS' DAY

TUES. 12

WED. 13

THURS. 14

FRI. 15

SAT. 16

NOVEMBER 1963

SUN. 17

MON. 18

TUES. 19

WED. 20

THURS. 21

FRI. 22

SAT. 23

NOVEMBER 1963

SUN. 24

MON. 25

TUES. 26

WED. 27

THURS. 28

THANKSGIVING DAY

FRI. 29

SAT. 30

DECEMBER 1963

SUN. 1

MON. 2

TUES. 3

WED. 4

THURS. 5

FRI. 6

SAT. 7

DECEMBER 1963

SUN. 8

MON. 9

TUES. 10

WED. 11

THURS. 12

FRI. 13

SAT. 14

DECEMBER 1963

SUN. 15

MON. 16

TUES. 17

WED. 18

THURS. 19

FRI. 20

SAT. 21

DECEMBER 1963

SUN. 22

MON. 23

TUES. 24

WED. 25

CHRISTMAS DAY

THURS. 26

FRI. 27

SAT. 28

NOTES

NOTES

NOTES

NOTES

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....

Address.....

City.....

Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

Name.....
Address.....
City.....
Phone No.....

RCA Field Sales Offices
INDUSTRIAL TUBE PRODUCTS

Newark 2, New Jersey, 744 Broad Street
(HUMboldt 5-3900)

Chicago 54, Ill., Merchandise Mart Plaza, Room 1154
(WHitehall 4-2900)

Los Angeles 22, California, 6801 East Washington Blvd.
(RAYmond 3-8361)

Burlingame, California, 1838 El Camino Real
(OXford 7-1620)

ENTERTAINMENT TUBE PRODUCTS

Newark 2, New Jersey, 744 Broad Street
(HUMboldt 5-3900)

Chicago 54, Ill., Merchandise Mart Plaza, Room 1154
(WHitehall 4-2900)

Los Angeles 22, California, 6801 East Washington Blvd.
(RAYmond 3-8361)

GOVERNMENT SALES

Harrison, New Jersey, 415 South 5th Street
(HUMboldt 5-3900)

Washington 6, D. C., 1725 K Street, N. W.
(FEderal 7-8500)

Dayton 2, Ohio, 224 North Wilkinson Street
(BALdwin 6-2366)

1963

JANUARY

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JULY

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

AUGUST

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

MARCH

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

SEPTEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

APRIL

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

MAY

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 30	24	25	26	27	28	29

DECEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				