RCA REFERENCE BOOK 1961

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RIDGEFIELD TRENTON

1961

REFERENCE BOOK

RECEIVING TUBES
INDUSTRIAL-TYPE TUBES
PICTURE TUBES
CATHODE-RAY AND POWER TUBES
PHOTOTUBES
ELECTRONIC INSTRUMENTS
BATTERIES
SEMICONDUCTOR PRODUCTS

A DAILY PRODUCT REMINDER FOR

INDUSTRY
COMMUNICATIONS
RADIO — TELEVISION
RESEARCH

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Published by
RADIO CORPORATION OF AMERICA
ELECTRON TUBE DIVISION
415 S. 5th Street
Harrison, N. J. Tel. HUmboldt 5-3900

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TABLE OF CONTENTS

TABLE OF CONTENTS—(Continued)

SEQUENCE OF RCA TECHNICAL PUBLICATIONS

RCA TUBE HANDBOOK
RADIOTRON DESIGNER'S HANDBOOK
TECHNICAL BULLETINS
RCA RECEIVING TUBE MANUAL
RCA RECEIVING TUBES AND PICTURE TUBES
RCA TRIPLE PINDEX
RCA HIGH-FIDELITY AMPLIFIER CIRCUITS BOOKLET
RCA INTERCHANGEABILITY DIRECTORY OF FOREIGN vs. U.S.A. RECEIVING-TYPE ELECTRON TUBES
RCA PREFERRED TYPES LIST
RCA TRANSMITTING TUBES
RCA RECEIVING-TYPE TUBES FOR INDUSTRY AND COMMUNICATIONS
RCA INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES
RCA POWER AND GAS TUBES
RCA PHOTOSENSITIVE DEVICES AND CATHODE-RAY TUBES
RCA MAGNETRONS AND TRAVELING-WAVE TUBES
RCA HEADLINERS FOR HAMS
RCA BATTERIES
BATTERIES FOR TRANSISTOR APPLICATIONS
RCA COLOR TELEVISION PICT-O-GUIDE
PRACTICAL COLOR TELEVISION
PRACTICAL COLOR TELEVISION, SUPPLEMENT 1
TV SERVICING
TV SERVICING, SUPPLEMENT 1
SP-1042—1955-1957
SP-1035—1954
SP-1028—1953
SP-1021—1952
SP-1014—1950-1951
SP-1007—1946-1950
} TV SERVICE PARTS DIRECTORIES
RCA VICTOR TV SERVICE PARTS GUIDE
SERVICE PARTS DIRECTORY FOR RCA VICTOR RADIOS & PHONOGRAPHS
RCA SEMICONDUCTOR PRODUCTS HANDBOOK
RCA SEMICONDUCTOR PRODUCTS TECHNICAL BULLETINS

RCA TECHNICAL PUBLICATIONS

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

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

ELECTRON TUBE DIVISION

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

• **RCA TUBE HANDBOOK**—HB-3 (7⅜" x 5¼"). Five deluxe 1⅞-inch-capacity binders imprinted in gold. The bible of the industry — contains over 4200 pages of loose-leaf data and curves on RCA receiving tubes; picture tubes; oscillograph tubes; special-purpose kinescopes; photosensitive devices including phototubes, photoconductive cells, photojunction cells, and camera tubes; storage tubes; power tubes; gas tubes; transistors and silicon rectifiers; and other miscellaneous types for special applications. Available on subscription basis. Price $17.50* including service for first year. Also available with HB-10 Semiconductor Products Handbook at special combination price of $20.00.* Write to Commercial Engineering for descriptive folder and order form.

• **RADIOTRON DESIGNER'S HANDBOOK**—4th Edition (8¾" x 5½")—1500 pages. New, enlarged, up-to-date 4th Edition is 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*

• **TECHNICAL BULLETINS**—Complete 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.

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Technical Publications (cont'd)

• **RCA RECEIVING TUBE MANUAL**—RC-20 (8¼" x 5⅜")—432 pages. Revised, expanded, and brought up to date. Contains technical data on more than 760 receiving tubes, including types for black-and-white and color television and series-string applications. Features tube theory written for the layman, application data for radio and television circuits, Resistance-Coupled Amplifier Section, and several circuits for high-fidelity audio amplifiers. Features lie-flat binding. Price $1.00.*

• **RCA RECEIVING TUBES AND PICTURE TUBES**—1275-J (10⅞" x 8⅜")—48 pages. Booklet contains classification chart, characteristics chart, and base diagrams and envelope outlines on more than 900 entertainment receiving tubes and picture tubes. Price 35 cents.*

• **RCA TRIPLE PINDEX**—PINDEX-109 (5¼" x 8¼")—240 pages. Base diagrams for more than 2000-JEDEC-registered receiving tubes and picture tubes. The Receiving-Tube Section includes over 1500 base diagrams arranged so that at least three required bases may be observed at one time. The Picture-Tube section contains base diagrams of more than 400 picture tubes. Another section contains a group of over 200 small industrial receiving-type tubes and over 200 foreign receiving tubes which are cross-referenced to base diagrams in the Receiving-Tube Section. All tube types and base diagrams are arranged in numerical-alphabetical sequence. Price $1.75.*

• **RCA HIGH-FIDELITY AMPLIFIER CIRCUITS BOOKLET**—HF-110 (8⅜" x 10⅞")—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 INTERCHANGEABILITY DIRECTORY OF FOREIGN vs. U.S.A. RECEIVING-TYPE ELECTRON TUBES** — ICE-197A (8⅜" x 10⅞")—4 pages. Covers approximately 500 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. Single copy free on request.

• **RCA PREFERRED TYPES LIST**—PTL-501G (10⅞" x 8⅜")—8 pages. Lists RCA Preferred Tube Types both receiving and non-receiving by function. An aid to equipment designers in the selection of tube types for new equipment design. Single copy free on request.

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* Prices shown apply in U.S.A. and are subject to change without notice.

Technical Publications (cont'd)

• **RCA TRANSMITTING TUBES**—TT-4 (8⅜" x 5⅜")—256 pages. Written for the engineer, service technician, radio amateur, student, and experimenter. Contains basic information on generic tube types, on tube parts and materials, on tube installation and application, and on interpretation of tube data. Includes technical data and curves for power tubes having plate-input ratings up to 4 kilowatts, and maximum ratings and operating values for associated rectifier tubes. Contains sections on transmitter-design considerations and on rectifier circuits and filters. Features classification charts for quick, easy selection of tubes, and circuit diagrams for transmitting and industrial applications. Features lie-flat binding. Price $1.00.*

• **RCA RECEIVING-TYPE TUBES FOR INDUSTRY AND COMMUNICATIONS**—RIT-104B (10⅞" x 8⅜")—32 pages. Technical information on 190 RCA "special red" tubes, nuvistors, premium tubes, computer tubes, pencil tubes, glow-discharge tubes, small thyratrons, low-microphonic amplifier tubes, traveling-wave tubes, and other special types. Includes socket connection diagrams. Price 30 cents.*

• **RCA INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES**—ID-1020B (10⅞" x 8⅜")—24 pages. Lists more than 2700 type designations of 33 different manufacturers arranged in alphabetical-numerical sequence; shows the RCA Direct Replacement Type or the RCA Similar Type, when available. Price 25 cents.*

• **RCA POWER AND GAS TUBES**—PG-101D (10⅞" x 8⅜")—32 pages. Technical information on over 175 RCA vacuum power tubes, rectifier tubes, thyratrons, and ignitrons. Includes terminal connections. Price 30 cents.*

• **RCA PHOTOSENSITIVE DEVICES AND CATHODE-RAY TUBES**—CRPD-105-A (10⅞" x 8⅜")—32 pages. Contains technical information on 134 RCA tubes including single-unit, twin-unit, and multiplier phototubes; camera and image-converter tubes; flying-spot tubes; monitor, projection, transcriber, and view-finder kinescopes; oscillograph and storage tubes. Price 30 cents.*

• **RCA MAGNETRONS AND TRAVELING-WAVE TUBES**—MT-301A (10⅞" x 8⅜")—48 pages. Operating theory for magnetrons and traveling-wave tubes, application considerations, and techniques for measurement of electrical parameters. Price 60 cents.*

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Technical Publications (cont'd)

• **RCA HEADLINERS FOR HAMS**—HAM-103B (10⅞" x 8⅜")—4 pages. Technical information and terminal connection diagrams for 48 RCA "HAM" PREFERENCE TYPES: modulators, class C amplifiers and oscillators, frequency multipliers, rectifier tubes, thyratrons, cold-cathode (glow-discharge) tubes, and cathode-ray tubes. Single copy free on request.

• **RCA BATTERIES**—BAT-134E (10⅞" x 8⅜")—16 pages. Contains characteristics, operating current range, terminal types, and socket patterns of more than 100 RCA dry batteries for transistor devices, radio, flashlight, ignition use, electronic toys, and industrial applications. Includes a battery interchangeability directory, and a battery replacement guide for portable radios. Price 35 cents.*

• **BATTERIES FOR TRANSISTOR APPLICATIONS**—TBA-107A (10⅞" x 8⅜".) Contains technical data, dimensional outlines, and curves for 25 dry batteries of the Leclanché and Mercury types specifically designed for low-current applications utilizing transistors. Price 25 cents.*

• **RCA COLOR TELEVISION PICT-O-GUIDE**—(9⅝" x 5⅜")—200 pages. Developed and written by John R. Meagher, RCA's nationally recognized authority on practical TV servicing. Prepared to aid TV technicians in trouble-shooting and adjusting color TV receivers. Color photographs are included to assist in recognizing and understanding visible symptoms of troubles and misadjustments. Price $4.50.*

• **PRACTICAL COLOR TELEVISION**—Revised Edition (11" x 8½")—84 pages. Black-and-white and color illustrations. Presents comprehensive information on basic color principles, transmitter color signal, color camera, and color kinescope. Covers commercial-model receiver circuit using the RCA-15GP22 color picture tube, as well as installation and service of color receivers. Provides detailed description of color-test equipment. Price $2.00.*

• **PRACTICAL COLOR TELEVISION, SUPPLEMENT 1.**—(11" x 8½")—Contains 36 pages plus fold-out schematic and block diagrams; describes theory, operation and servicing of large-screen color TV receiver utilizing RCA-21AXP22 color picture tube; includes 55 black-and-white and color illustrations including schematic and block diagrams, wave-forms, and explanations of color circuits and adjustments. Price 75 cents.*

• **TV SERVICING**—TVS-1030 (10⅞" x 8⅜")—48 pages. This booklet contains a compilation of articles on TV trouble shooting, 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.*

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Technical Publications (cont'd)

• **TV SERVICING, SUPPLEMENT 1.**—TVS-1031 (10⅞" x 8⅜")—12-page booklet by John R. Meagher on solving trouble-shooting problems in those hard-to-service television receivers known to service technicians as "tough" sets or "dogs." Emphasizes time-saving component-checking techniques and proper use of test equipment. Price 15 cents.*

Service Parts Directories for RCA Victor TV Receivers

SP-1042: For period covering late 1955, 1956 and 1957. Covers over 250 models of RCA Victor black-and-white and color-TV receivers. Includes servicing information on printed circuit boards and adjustment and trouble-shooting information on the RP-205 and RP-208 record changers. 128 pages. Price, $2.00 per copy.

SP-1035: For period covering 1954 and early 1955. Covers 106 models of RCA Victor black-and-white and color-TV receivers. Includes adjustment and trouble-shooting information on the RP-197 and RP-198 record changers. Also shown are typical r-f wave forms for all vhf channels. 72 pages. Price, $1.25 per copy.

SP-1028: For period covering 1953. Covers 108 models of RCA Victor TV receivers. Includes wiring diagrams for all listed receivers plus information on radio chassis used in radio-TV combination receivers. 84 pages. Price, $1.35 per copy.

SP-1021: For period covering 1952. Covers 27 models of RCA Victor TV receivers. Includes wiring diagrams for all listed receivers. 36 pages. Price, 50 cents per copy.

SP-1014: For period covering 1950 and 1951. Covers 71 models for RCA Victor TV receivers. 142 pages. Price, $1.50 per copy.

SP-1007: For period covering 1946 through June 1950. Covers 56 models of RCA Victor TV receivers. 80 pages. Price, 75 cents per copy.

• **RCA VICTOR TV SERVICE PARTS GUIDE**—SP-2001B: For period covering 1946 through 1956. Lists stock numbers of major replacement parts for RCA Victor TV sets by receiver-model number and corresponding receiver-chassis number. Also lists stock numbers of tuner-replacement parts by tuner-chassis number. 16 pages. (10⅞" x 8⅜"). Price, 25 cents per copy.

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• **SERVICE PARTS DIRECTORY FOR RCA VICTOR RADIOS & PHONOGRAPHS**—SP-1008B: For period covering 1954 through June 1958. Lists stock numbers of major replacement parts by receiver model number for all RCA Victor radios. Also includes stock numbers of major replacement parts for RCA phonographs, and an index cross-reference of RCA record changers to cartridge and styli. 16 pages. (8⅜" x 10⅞"). Price, 25 cents per copy.

SEMICONDUCTOR DIVISION

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

• **RCA SEMICONDUCTOR PRODUCTS HANDBOOK**—HB-10 (7⅜" x 5⅝"). Deluxe 2⅜-inch capacity red binder imprinted in gold. Contains over 500 pages of loose-leaf data and curves on semiconductor devices such as germanium transistors, silicon transistors, and silicon rectifiers. Available on subscription basis. Price $5.00* including service for one year. Also available with HB-3 Tube Handbook at special combination price of $20.00.* Write to Commercial Engineering for descriptive folder and order form.

• **RCA SEMICONDUCTOR PRODUCTS**—SCD-108C (10⅞" x 8⅜")—40-page booklet contains technical data on RCA transistors and silicon rectifiers. Includes section on transistor theory, an interchangeability directory which lists over 1200 type designations of 29 different manufacturers, and a section on circuits containing 33 schematics illustrating some of the more important applications of transistors and silicon rectifiers. Price 30 cents.*

• **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.

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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 bi-monthly. 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 bi-monthly. 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. Keep abreast of the latest, up-to-the-minute information on new circuits, TVI, civil defense equipment, and novice gear. Published bi-monthly. Free from your RCA Electron Tube Distributor.

• **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, test equipment, batteries, semiconductors, and materials. Published quarterly. Available without charge from your RCA Electron Tube Distributor.

RECEIVING TUBE CHART I SECTION

For More Information on a Specific Tube Type, Write to

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RCA RECEIVING TUBE CHART I

Miniature Metal, GT, and other Receiving Types

(For Footnotes and Base Diagrams, See Pages 37 through 52)

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
00-A	Detector Triode	D12a	4D	D.C. F	5.0	0.25	Grid-Leak Detector
01-A	Detector★ Amplifier	D12a	4D	D.C. F	5.0	0.25	Class A Amplifier
0Y4	Half-Wave Gas Rectifier	B2	4BU	Cold	—	—	Rectifier
0Z4 0Z4-G	Full-Wave Gas Rectifier	B3 B2	4R	Cold	—	—	Rectifier
1A3	HF Diode	B0	5AP	H	1.4	0.15	Detector Rectifier
1A4-P	Remote-Cutoff Pentode	D9	4M	D.C. F	2.0	0.06	Amplifier
1A5-GT	Power Amplifier Pentode	C2c	6X	D.C. F	1.4	0.05	Class A Amplifier
1A6	Pentagrid Converter ◘	D9	6L	D.C. F	2.0	0.06	Converter
1A7-GT	Pentagrid Converter ◘	C3	7ZK	D.C. F	1.4	0.05	Converter
1AC5	Power Pentode	A	8CP	F	1.25	0.04	Class A Amplifier
1AD5	Sharp-Cutoff Pentode	A	8CP	F	1.25	0.04	Class A Amplifier
1AX2	Half-Wave Rectifier	B5a	9Y	F	1.4	0.65	Pulsed Rectifier in TV Receivers
1B3-GT	Half-Wave Rectifier	D2	3C	F	1.25	0.2	Pulsed Rectifier in TV Receivers
1B4-P	RF Amplifier Pentode	D9	4M	D.C. F	2.0	0.06	Amplifier
1B5/25S	Duplex-Diode Triode	D5	6M	D.C. F	2.0	0.06	Triode Unit as Amplifier
1B7-GT	Pentagrid Converter ◘	C3	7ZK	D.C. F	1.4	0.10	Converter
1C5-GT	Power Amplifier Pentode	C2c	6X	D.C. F	1.4	0.10	Class A Amplifier
1C6	Pentagrid Converter ◘	D9	6L	D.C. F	2.0	0.12	Converter
1C7-G	Pentagrid Converter ◘	D8	7Z	D.C. F	2.0	0.12	Converter
1D5-GP	Remote-Cutoff Pentode	D8	5Y	D.C. F	2.0	0.06	Class A Amplifier
1D5-GT	Remote-Cutoff Tetrode	D8	5R	D.C. F	2.0	0.06	Class A Amplifier
1D7-G	Pentagrid Converter ◘	D8	7Z	D.C. F	2.0	0.06	Converter
1D8-GT	Diode-Triode-Power Pentode	C2c	8AJ	D.C. F	1.4	0.10	Pentode Unit as Class A Amplifier Triode Unit as Class A Amplifier
1DN5	Diode Remote-Cutoff Pentode	B0	6BW	F	1.4	0.5	Triode Unit as Class A Amplifier
1E5-GP	RF Amplifier Pentode	D8	5Y	D.C. F	2.0	0.06	Class A Amplifier
1E7-GT	Twin-Pentode Power Amplifier	C2c	8C	D.C. F	2.0	0.24	Class A Amplifier
1E8	Pentagrid Converter▲	A	8CN	F	1.25	0.04	Converter
1F4	Power Amplifier Pentode	D12a	5K	D.C. F	2.0	0.12	Amplifier
1F5-G	Power Amplifier Pentode	D11c	6X	D.C. F	2.0	0.12	Class A Amplifier
1F6	Duplex-Diode Pentode	D9	6W	D.C. F	2.0	0.06	Pentode Unit as Amplifier
1F7-G	Duplex-Diode Pentode	D8	7AF	D.C. F	2.0	0.06	Pentode Unit as Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
1G3-GT/ 1B3-GT	**Half-Wave Rectifier**	C10	3C	F	1.25	0.2	Pulsed Rectifier in TV Receivers HV Rectifier in RF Power Supplies
1G4-GT	**Medium-Mu Triode**	C2c	5S	D.C. F	1.4	0.05	Class A Amplifier
1G5-G	**Power Amplifier Pentode**	D11c	6X	D.C. F	2.0	0.12	Class A Amplifier
1G6-GT	**Twin-Triode Amplifier**	C2c	7AB	D.C. F	1.4	0.10	Class B Amplifier
1H4-G	**Detector★ Amplifier**	D3	5S	D.C. F	2.0	0.06	Class A Amplifier Class B Amplifier
1H5-GT	**Diode High-Mu Triode**	C3	5ZK	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier
1H6-G	**Duplex-Diode Triode**	D3	7AA	D.C. F	2.0	0.06	Triode Unit as Class A Amplifier
1J3	**Half-Wave Rectifier**	DZ	3C	F	1.25	0.2	Pulsed Rectifier in TV Receivers
1J5-G	**Power Pentode**	D11c	6X	D.C. F	2.0	0.12	Class A Amplifier
1J6-G 1J6-GT	**Twin-Triode Amplifiers**	C10	7AB	D.C. F	2.0	0.24	Class B Amplifier
1K3	**Half-Wave Rectifier**	C10	3C	F	1.25	0.2	Pulsed Rectifier in TV Receivers
1L4	**RF Amplifier Pentode**	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier
1L6	**Pentagrid Converter ø**	B0	7DC	D.C. F	1.4	0.05	Converter
1LA4	**Power Amplifier Pentode**	B5	5AD	D.C. F	1.4	0.05	Amplifier
1LA6	**Pentagrid Converter ø**	B5	7AK	D.C. F	1.4	0.05	Converter
1LB4	**Power Amplifier Pentode**	B5	5AD	D.C. F	1.4	0.05	Class A Amplifier
1LC5	**Sharp-Cutoff Pentode**	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier
1LC6	**Pentagrid Converter ø**	B5	7AK	D.C. F	1.4	0.05	Converter
1LD5	**Diode-Pentode**	B5	6AX	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier
1LE3	**Medium-Mu Triode**	B5	4AA	D.C. F	1.4	0.05	Class A Amplifier
1LG5	**Remote-Cutoff Pentode**	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier
1LH4	**Diode High-Mu Triode**	B5	5AG	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier
1LN5	**Sharp-Cutoff Pentode**	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier
1N5-GT	**Sharp-Cutoff Pentode**	C3	5YK	D.C. F	1.4	0.05	Class A Amplifier
1N6-G	**Diode—Power Amplifier Pentode**	D1	7AM	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier
1P5-GT	**Remote-Cutoff Pentode**	C3	5YK	D.C. F	1.4	0.05	Class A Amplifier
1Q5-GT	**Beam Power Tube**	C2c	6AF	D.C. F	1.4	0.1	Class A Amplifier
1R5	**Pentagrid Converter▲**	B0	7AT	D.C. F	1.4	0.05	Converter
1S4	**Power Amplifier Pentode**	B0	7AV	D.C. F	1.4	0.1	Class A Amplifier
1S5	**Diode-Pentode**	B0	6AU	D.C. F	1.4	0.05	Pentode Unit as AF Amplifier
1T4	**Remote-Cutoff Pentode**	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier
1T5-GT	**Beam Power Tube**	C2c	6X	D.C. F	1.4	0.05	Class A Amplifier
1T6	**Diode-Pentode**	A	8DA	F	1.25	0.04	Pentode Unit as Class A Amplifier
1U4	**Sharp-Cutoff Pentode**	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier
1U5	**Diode-Pentode**	B0	6BW	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier
1-v	**Half-Wave Rectifier**	D5	4G	H	6.3	0.3	With Capacitive-Input Filter
1V2	**Half-Wave Rectifier**	B0a	9U	F	0.625	0.3	Pulsed Rectifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
1X2-A	Half-Wave Rectifier	B4	9Y	F	1.25	0.2	Pulsed Rectifier in TV Receivers
1X2-B	Half-Wave Rectifier	B4	9Y	F	1.25	0.2	Pulsed Rectifier in TV Receivers
2A3	Power Amplifier Triode	E3a	4D	F	2.5	2.5	Class A Amplifier Push-Pull Class AB1 Amplifier
2A4-G	Glow-Discharge Triode	D3	5S	D.C. F	2.5	2.5	Relay Service
2A5	Power Amplifier Pentode	D12a	6B	H	2.5	1.75	Amplifier
2A6	Duplex-Diode High-Mu Triode	D9	6G	H	2.5	0.8	Triode Unit as Amplifier
2A7	Pentagrid Converter ●	D9	7C	H	2.5	0.8	Converter
2AF4-A	Medium-Mu Triode	B0	7DK	H●	2.35	0.6	Class A Amplifier Oscillator at 950 Mc.
2B7	Duplex-Diode Pentode	D9	7D	H	2.5	0.8	Pentode Unit as Amplifier
2BN4	Medium-Mu Triode	B0	7EG	H●	2.3	0.6	Class A Amplifier
2CY5	Sharp-Cutoff Tetrode	B0	7EW	H●	2.4	0.6	Class A Amplifier
2E5	Electron-Ray Tube	D5	6R	H	2.5	0.8	Visual Indicator
2EN5	Twin Diode	B0	7FL	H●	2.1	0.45	Horizontal Phase Detector
3A2	Half-Wave Rectifier	B4	9DT	H	3.15	0.22	Pulsed Rectifier in TV Receivers
3A3	Half-Wave Rectifier	D2	8EZ	H	3.15	0.22	Pulsed Rectifier in TV Receivers
3A8-GT	Diode-Triode RF Amplifier Pentode	C5	8AS	D.C. F	1.4 2.8	0.1 0.05	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
3AF4-A	Medium-Mu Triode	A1	7DK	H●	3.2	0.45	Class A Amplifier Oscillator at 950 Mc.
3AL5	Twin Diode	A1	6BT	H●	3.15	0.6	Detector Rectifier
3AU6	Sharp-Cutoff Pentode	B0	7BK	H●	3.15	0.6	Class A Amplifier
3AV6	Twin Diode High-Mu Triode	B0	7BT	H●	3.15	0.6	Triode Unit as Class A Amplifier
3B2	Half-Wave Rectifier	E1a	8GH	H	3.15	0.22	Pulsed Rectifier in TV Service
3BC5	Sharp-Cutoff Pentode	B0	7BD	H●	3.15	0.6	Class A Amplifier
3BN6	Beam Tube	B1	7DF	H●	3.15	0.6	Limiter and Discriminator
3BU8	Sharp-Cutoff Twin Pentode	B1a	9FG	H●	3.15	0.6	Class A Amplifier With Both Sections Operating
3BY6	Pentagrid Amplifier	B0	7CH	H●	3.15	0.6	Sync Separator and Sync Clipper
3BZ6	Semiremote-Cutoff Pentode	B0	7CM	H●	3.15	0.6	Class A Amplifier
3CB6	Sharp-Cutoff Pentode	B0	7CM	H●	3.15	0.6	Class A Amplifier
3CF6	Sharp-Cutoff Pentode	B0	7CM	H●	3.15	0.6	Class A Amplifier
3CS6	Pentagrid Amplifier	B0	7CH	H●	3.15	0.6	Sync Separator and Sync Clipper Class A Amplifier
3CY5	Sharp-Cutoff Tetrode	B0	7EW	H●	2.9	0.45	Class A Amplifier
3DK6	Sharp-Cutoff Pentode	B0	7CM	H●	3.15	0.6	Class A Amplifier
3DT6	Sharp-Cutoff Pentode	B0	7CM	H●	3.15	0.6	Class A Amplifier FM Detector
3LF4	Beam Power Tube	B5	8BA	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier
3Q4	Power Amplifier Pentode	B0	7BA	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
3Q5-GT	Beam Power Tube	C2c	7AP	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier
3S4	Power Amplifier Pentode	B0	7BA	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier
3V4	Power Amplifier Pentode	B0	6BX	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier
4AU6	Sharp-Cutoff Pentode	B0	7BK	H●	4.2	0.45	Class A Amplifier
4BC5	Sharp-Cutoff Pentode	B0	7BD	H●	4.2	0.45	Class A Amplifier
4BC8	Medium-Mu Twin-Triode	B0a	9AJ	H●	4.2	0.6	Each Unit as Class A Amplifier
4BN6	Beam Tube	B1	7DF	H●	4.2	0.45	Limiter and Discriminator
4BQ7-A	Medium-Mu Twin-Triode	B0a	9AJ	H●	4.2	0.6	Each Unit as Class A Amplifier
4BS8	Medium-Mu Twin Triode	B0a	9AJ	H●	4.5	0.6	Cascode Amplifier Each Unit as Class A Amplifier
4BU8	Sharp-Cutoff Twin Pentode	B1a	9FG	H●	4.2	0.45	Class A Amplifier (With both sections operating)
4BZ6	Semiremote-Cutoff Pentode	B0	7CM	H●	4.2	0.45	Class A Amplifier
4BZ7	Medium-Mu Twin-Triode	B0a	9AJ	H●	4.2	0.6	Each Unit as Class A Amplifier
4CB6	Sharp-Cutoff Pentode	B0	7CM	H●	4.2	0.45	Class A Amplifier
4CS6	Pentagrid Amplifier	B0	7CH	H●	4.2	0.45	Sync Separator and Sync Clipper Class A Amplifier
4DE6	Sharp-Cutoff Pentode	B0	7CM	H●	4.2	0.45	Class A Amplifier
4DT6	Sharp-Cutoff Pentode	B0	7CM	H●	4.2	0.45	Class A Amplifier FM Detector
4EW6	Sharp-Cutoff Pentode	B0	7CM	H●	4.2	0.6	Class A Amplifier
5AM8	Diode—Sharp-Cutoff Pentode	B0a	9CY	H●	4.7	0.6	Diode Unit Pentode Unit as Class A Amplifier
5AN8	Medium-Mu Triode—Sharp-Cutoff Pentode	B0a	9DA	H●	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5AQ5	Beam Power Tube	B1	7BZ	H●	4.7	0.6	Single Tube Class A Amplifier Push-Pull Class AB, Amplifier
5AS4 **5AS4-A**	Full-Wave Rectifiers	E3 D6	5T‡	H	4.7	3.0	With Capacitive-Input Filter With Inductive-Input Filter
5AS8	Diode—Sharp-Cutoff Pentode	B0a	9DS	H●	4.7	0.6	Diode Unit Pentode Unit as Class A Amplifier
5AT8	Triode—Pentode Converter	B0a	9DW	H●	4.7	0.6	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer√
5AV8	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9DZ	H●	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5AZ4	Full-Wave Rectifier	C2	5T	F	5.0	2.0	Power Rectifier
5B8	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9EC	H●	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5BE8	Medium-Mu Triode—Sharp-Cutoff Pentode	B0a	9EG	H●	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
5BK7-A	Medium-Mu Twin Triode	B0a	9AJ	He	4.7	0.6	Each Unit as Class A Amplifier
5BQ7-A	Medium-Mu Twin Triode	B0a	9AJ	He	4.7	0.45	Each Unit as Class A Amplifier
5BR8	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9FA	He	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5BT8	Twin-Diode–Sharp-Cutoff Pentode	B0a	9FE	He	4.7	0.6	Class A Amplifier
5CG8	Triode Pentode Converter	B0a	9GF	He	4.7	0.6	Triode Unit as 250-Mc Oscillator Pentode Unit As Mixer√ Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5CL8 5CL8-A	Medium-Mu Triode Sharp-Cutoff Tetrode	B0a	9FX	He	4.7	0.6	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
5CM8	High-Mu Triode— Sharp-Cutoff Pentode	B0a	9FZ	He	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5CQ8	Medium-Mu Triode Sharp-Cutoff Tetrode	B0a	9GE	He	4.7	0.6	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
5CZ5	Beam Power Tube	B1a	8HN	He	4.7	0.6	Vertical Deflection Amplifier Class A Amplifier Push-Pull Class AB_1 Amplifier
5EU8	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9JF	He	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5J6	Medium-Mu Twin-Triode	B0	7BF	He	4.7	0.6	Each Unit as Class A Amplifier Push-Pull Class C Amplifier
5T4	Full-Wave Rectifier	D7	5T	F	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5T8	Triple Diode High-Mu Triode	B0a	9E	He	4.7	0.6	Triode Unit as Class A Amplifier
5U4-G	Full-Wave Rectifier	E2	5T‡	F	5.0	3.0	With Capacitive-Input Filter
5U4-GB	Full-Wave Rectifier	D12c	5T‡	H	5.0	3.0	With Capacitive-Input Filter With Inductive-Input Filter
5U8	Triode— Pentode Converter	B0a	9AE	He	4.7	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
5V3	Full-Wave Rectifier	D12b	5T	F	5.0	3.8	With Capacitive Input Filter With Inductive Input Filter
5V4-G	Full-Wave Rectifier	D11c	5L‡	H	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5V4-GA	Full-Wave Rectifier	C11a	5L‡	H	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
5V6-GT	Beam Power Tube	C2c	7AC	He	4.7	0.6	Single-Tube Class A Amplifier Push-Pull Class AB_1 Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
5W4 5W4-GT	Full-Wave Rectifiers	C2a C4	5T 5T‡	F	5.0	1.5	With Capacitive-Input Filter
5X4-G	Full-Wave Rectifier	E2	5Q	F	5.0	3.0	Power Rectifier
5X8	Triode—Pentode Converter	B8a	9AK	H●	4.7	0.6	Triode Unit as 250-Mc. Oscillator
							Pentode Unit as Mixer√
5Y3-G **5Y3-GT**	Full-Wave Rectifiers	D11c C4	5T‡	F	5.0	2.0	With Capacitive-Input Filter
							With Inductive-Input Filter
5Y4-G **5Y4-GT**	Full-Wave Rectifiers	D11c	5Q	F	5.0	2.0	Power Rectifier
5Z3	Full-Wave Rectifier	E3a	4C	F	5.0	3.0	Power Rectifier
5Z4	Full-Wave Rectifier	C2a	5L	H	5.0	2.0	With Capacitive-Input Filter
							With Inductive-Input Filter
6A3	Power Amplifier Triode	E3a	4D	F	6.3	1.0	Amplifier
6A4/LA	Power Amplifier Pentode	D12a	5B	F	6.3	0.3	Class A Amplifier
6A6	Twin-Triode Amplifier	D12a	7B	H	6.3	0.8	Amplifier
6A7 6A7S	Pentagrid Converters ◘	D9	7C	H	6.3	0.3	Converter
6A8 **6A8-G** **6A8-GT**	Pentagrid Converters ◘	C1 D8 C3	8A 8A‡ 8A	H	6.3	0.3	Converter
6AB4	High-Mu Triode	B8	5CE	H	6.3	0.15	Class A Amplifier
6AB5/ 6N5	Electron-Ray Tube Indicator Type	D4	6R	H	6.3	0.15	Visual Indicator
6AB7	Remote-Cutoff Pentode	B3	8N	H	6.3	0.45	Class A Amplifier
6AC5-GT	High-Mu Power Amplifier Triode	C2c	6Q‡	H	6.3	0.4	Class B Amplifier
							Dynamic-Coupled Amplifier With 76 Driver
6AC7	Sharp-Cutoff Pentode	B3	8N	H	6.3	0.45	Class A Amplifier
6AD6-G	Electron-Ray Tube	B5c	7AG	H	6.3	0.15	Visual Indicator
6AD7-G	Triode—Power Pentode	D11c	8AY	H	6.3	0.85	Triode Unit as Class A Amplifier
							Pentode Unit as Class A Amplifier
6AE5-GT	Amplifier Triode	C4	6Q‡	H	6.3	0.3	Class A Amplifier
6AE6-G	Twin-Plate Control Tube	D3	7AH	H	6.3	0.15	Remote Cutoff Triode
							Sharp-Cutoff Triode
6AE7-GT	Twin-Input Triode Amplifier	C2c	7AX	H	6.3	0.5	Class A Amp.▲▲
							Driver For Push-Pull 6AC5-GT In Dynamic-Coupled Amplifier
6AF3	Half-Wave Rectifier	C2b	9CR	H	6.3	1.2	Television Damper Service
6AF4 **6AF4-A**	Medium-Mu Triodes	A1 90	7DK	H	6.3	0.225	Class A Amplifier
							Oscillator at 950 Mc.
6AF6-G	Electron-Ray Tube Twin Indicator Type	B8c	7AQ	H	6.3	0.15	Visual Indicator
6AG5	Sharp-Cutoff Pentode	B8	7BD	H	6.3	0.3	As Pentode Class A Amplifier
							As Triode‡ Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6AG7	Power Pentode	C2a	8Y	H	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit
6AH4-GT	Medium-Mu Triode	C2c	8EL	H	6.3	0.75	Vertical Deflection Amplifier
6AH6	Sharp-Cutoff Pentode	B0	7BK	H	6.3	0.45	Class A Amplifier
6AK5	Sharp-Cutoff Pentode	A1	7BD	H	6.3	0.175	Class A Amplifier
6AL5	Twin Diode	A1	6BT	H	6.3	0.3	Detector Rectifier
6AL7-GT	Electron-Ray Tube Indicator Type	C0b	8GH	H	6.3	0.15	Visual Indicator
6AM4	High-Mu Triode	A1a	9BX	H	6.3	0.225	Class A Amplifier
6AM8 **6AM8-A**	Diode— Sharp-Cutoff Pentodes	B0a	9CY	H He	6.3	0.45	Diode Unit Pentode Unit as Class A Amplifier
6AN4	High-Mu Triode	A1	7DK	H	6.3	0.225	Class A Amplifier Mixer Service
6AN8	Triode— Sharp-Cutoff Pentode	B0a	9DA	H	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AQ5 **6AQ5-A**	Beam Power Tubes	B1	7BZ	H He	6.3	0.45	Single Tube Class A Amplifier Push-Pull Class AB_1 Amplifier
6AQ6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.15	Triode Unit as Class A Amplifier
6AQ7-GT	Twin-Diode High-Mu Triode	C2c	8CK	H	6.3	0.3	Triode Unit as Class A Amplifier
6AR5	Power Pentode	B1	8CC	H	6.3	0.4	Class A Amplifier
6AS5	Beam Power Tube	B1	7CV	H	6.3	*0.8	Class A Amplifier
6AS8	Diode— Sharp-Cutoff Pentode	B0a	9DS	H	6.3	0.45	Diode Unit Pentode Unit as Class A Amplifier
6AT6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.3	Triode Unit as Class A Amplifier
6AT8 **6AT8-A**	Triode— Pentode Converters	B0a	9DW	H He	6.3	0.45	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer√
6AU4-GT	Half-Wave Rectifier	C10b	4CG	H	6.3	1.8	Television Damper Service
6AU4-GTA	Half-Wave Rectifier	C10b	4CG	H	6.3	1.8	Television Damper Service
6AU5-GT	Beam Power Tube	C2c	8CK	H	6.3	1.25	Horizontal Deflection Amplifier
6AU6	Sharp-Cutoff Pentode	B0	7BK	H	6.3	0.3	Class A Amplifier
6AU7	Medium-Mu Twin-Triode	B0a	9A	H	3.15 6.3	0.6 0.3	Each Unit as Class A Amplifier
6AU8	Medium-Mu Triode— Sharp-Cutoff Pentode	B1a	9DX	He	6.3	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6AV5-GA 6AV5-GT	Beam Power Tubes	D1a C2c	8CK	H	6.3	1.2	Horizontal Deflection Amplifier
6AV6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.3	Triode Unit as Class A Amplifier
6AW8 **6AW8-A**	High-Mu Triode— Sharp-Cutoff Pentode	B1a	9DX	He	6.3	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier••
6AX4-GT	Half-Wave Rectifier	C2c	4CG	H	6.3	1.2	Television Damper Service
6AX5-GT	Full-Wave Rectifier	C2c	6S	H	6.3	1.2	With Capacitive-Input Filter With Inductive-Input Filter
6AX8	Medium-Mu Triode— Sharp-Cutoff Pentode	B0a	9AE	H	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6AZ8	Medium-Mu Triode—Semiremote-Cutoff Pentode	B0a	9ED	H	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6B4-G	Power Amplifier Triode	E2	5S	F	6.3	1.0	Class A Amplifier Push-Pull Class AB_1 Amplifier
6B5	Direct-Coupled Power Amplifier	D12a	6AS	H	6.3	0.8	Class A Amplifier
6B6-G	Twin-Diode High-Mu Triode	D8	7V‡	H	6.3	0.3	Triode Unit as Amplifier
6B7 6B7S	Twin-Diode Remote-Cutoff Pentode	D9	7D	H	6.3	0.3	Pentode Unit as Amplifier
6B8	Twin-Diode Pentode	C1	8E	H	6.3	0.3	Pentode Unit as Amplifier
6B8-G	Twin Diode—Remote-Cutoff Pentode	D8	8E‡	H	6.3	0.3	Pentode Unit as RF Amplifier Pentode Unit as AF Amplifier
6BA6	Remote-Cutoff Pentode	B0	7BK	H	6.3	0.3	Class A Amplifier
6BA7	Pentagrid Converter▲	B1a	8CT	H	6.3	0.3	Converter
6BA8-A	Medium-Mu Triode Sharp-Cutoff Pentode	B1a	9DX	H●	6.3	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6BC4	Medium-Mu Triode	A1a	9DR	H	6.3	0.225	Class A Amplifier
6BC5	Sharp-Cutoff Pentode	B0	7BD	H	6.3	0.3	Class A Amplifier
6BC7	Triple Diode	B0a	9AX	H	6.3	0.45	DC Restorer in Color TV
6BC8	Medium-Mu Twin-Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6BD4	Sharp-Cutoff Beam Triode	E0	8FU	H	6.3	0.6	Voltage-Control
6BD4-A	Sharp-Cutoff Beam Triode	E0	8FU	H	6.3	0.6	Voltage-Control
6BD6	Remote-Cutoff Pentode	B0	7BK	H	6.3	0.3	Class A Amplifier
6BE6	Pentagrid Converter▲	B0	7CH	H	6.3	0.3	Converter
6BF5	Beam Power Tube	B1	7BZ	H	6.3	1.2	Class A Amplifier Vertical Deflection Amplifier□
6BF6	Twin-Diode Medium-Mu Triode	B0	7BT	H	6.3	0.3	Triode Unit as Class A Amplifier
6BG6-G **6BG6-GA**	Beam Power Tubes	F1 E	5BT	H	6.3	0.9	Horizontal Deflection Amplifier
6BH6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.15	Class A Amplifier
6BH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B1a	9DX	H●	6.3	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6BJ6	Remote-Cutoff Pentode	B0	7CM	H	6.3	0.15	Class A Amplifier
6BJ7	Triple Diode	B0a	9AX	H	6.3	0.45	DC Restorer in Color TV
6BJ8	Twin Diode Medium-Mu Triode	B1a	9ER	H●	6.3	0.6	Triode Unit as Class A Amplifier Triode Unit as Vertical Deflection Amplifier
6BK4	Sharp-Cutoff Beam Triode	E1a	8GC	H	6.3	0.2	Voltage-Control
6BK5	Beam Power Tube	B1a	9BQ	H	6.3	1.2	Class A Amplifier
6BK7-A **6BK7-B**	Medium-Mu Twin Triodes	B0a	9AJ	H H●	6.3	0.45	Each Unit as Class A Amplifier
6BL4	Half-Wave Rectifier	D11b	8GB	H	6.3	3.0	Television Damper Service
6BL7-GT	Medium-Mu Twin Triode	C2c	8BD	H	6.3	1.5	Vertical Deflection Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6BL7-GTA	Medium-Mu Twin Triode	C2c	8BD	H	6.3	1.5	Vertical Deflection Amplifier (Unit No. 2) Vertical Deflection Oscillator (Unit No. 1)
6BN4	Medium-Mu Triode	B0	7EG	H	6.3	0.2	Class A Amplifier
6BN4-A	Medium-Mu Triode	B0	7EG	H	6.3	0.2	Class A Amplifier
6BN6	Beam Power Tube	B1	7DF	H	6.3	0.3	Limiter and Discriminator
6BN8	Twin-Diode High-Mu Triode	B1a	9ER	H●	6.3	0.6	Triode Unit as Class A Amplifier
6BQ5	Beam Power Tube	C0a	9CV	H	6.3	0.76	Class A Amplifier Push-Pull Class AB_1 Amplifier
6BQ6-GT	Beam Power Tube	C11	6AM	H	6.3	1.2	Horizontal Deflection Amplifier
6BQ6-GT/ 6CU6	Beam Power Tube	C11	6AM	H	6.3	1.2	Horizontal Deflection Amplifier
6BQ7	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6BQ7-A	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6BR8 6BR8-A	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9FA	H H●	6.3	0.4	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier Cascode Amplifier
6BS8	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6BU8	Sharp-Cutoff Twin Pentode	B1a	9FG	H	6.3	0.3	Class A Amplifier With Both Sections Operating
6BW4	Full-Wave Rectifier	B1a	9DJ	H	6.3	0.9	With Capacitive Input Filter With Inductive Input Filter
6BX7-GT	Medium-Mu Twin Triodes	C2c	8BD	H	6.3	1.5	Vertical Deflection Oscillator Vertical Deflection Amplifier
6BY5-GA	Full-Wave Rectifier	C11a	6CN	H	6.3	1.6	Television Damper Service
6BY6	Pentagrid Amplifier	B0	7CH	H	6.3	0.3	Sync Separator and Sync Clipper
6BY8	Diode Sharp-Cutoff Pentode	B1a	9FN	H●	6.3	0.6	Diode Unit Pentode Unit as Class A Amplifier
6BZ6	Semiremote-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier
6BZ7	Medium-Mu Twin-Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6BZ8	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6C4	HF Power Triode	B0	8BG	H	6.3	0.15	Class A Amplifier Class C Amplifier
6C5 6C5-GT	Medium-Mu Triodes	B3 C3	8Q 8Q✓	H	6.3	0.3	Class A Amplifier Bias Detector
6C6	Sharp-Cutoff Pentode	D13a	6F	H	6.3	0.3	Amplifier Detector
6C7	Twin-Diode Triode	D9	7G	H	6.3	0.3	Triode Unit as Class A Amplifier
6C8-G	Medium-Mu Twin-Triode	D8	8G	H	6.3	0.3	Each Unit as Class A Amplifier
6CB5	Beam Power Tube	E0a E0	8GD	H	6.3	2.5	Horizontal Deflection Amplifier
6CB5-A	Beam Power Tube	E0a E0	8GD	H	6.3	2.5	Horizontal Deflection Amplifier
6CB6 6CB6-A	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6CD6-G **6CD6-GA**	Beam Power Tubes	F1 E0	5BT	H	6.3	2.5	Horizontal Deflection Amplifier
6CF6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier
6CG7	Medium-Mu Twin-Triode	B1a	9AJ	H●	6.3	0.6	Horizontal Deflection Oscillator Vertical Deflection Oscillator
6CG8 **6CG8-A**	Triode Pentode Converter	B0a	9GF	H H●	6.3	0.45	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CH8	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9FT	H	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CK4	Low-Mu Triode	C5	8JB	H	6.3	1.25	Vertical Deflection Amplifier
6CL6	Power Pentode	B1a	9BV	H	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit
6CL8	Medium-Mu Triode Sharp-Cutoff Tetrode	B0a	9FX	H●	6.3	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CL8-A	Medium-Mu Triode Sharp-Cutoff Tetrode	B0c	9FX	H●	6.3	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CM6	Beam Power Tube	B1a	9CK	H	6.3	0.45	Class A Amplifier Vertical Deflection Amplifier
6CM7	Dual Triode With Dissimilar Units	B1a	9ES	H●	6.3	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CM8	High-Mu Triode— Sharp-Cutoff Pentode	B0a	9FZ	H●	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CN7	Twin Diode High-Mu Triode	B0a	9EN	H	●3.15 6.3	0.6 0.3	Triode Unit as Class A Amplifier
6CQ8	Medium-Mu Triode Sharp-Cutoff Tetrode	B0a	9GE	H●	6.3	0.45	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
6CR6	Diode Remote-Cutoff Pentode	B0	7EA	H	6.3	0.3	Pentode Unit as Class A Amplifier
6CS6	Pentagrid Amplifier	B0	7CH	H	6.3	0.3	Sync Separator and Sync Clipper Class A Amplifier
6CS7	Dual Triode With Dissimilar Units	B1a	9EF	H●	6.3	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CU5	Beam Power Tube	B1	7CV	H	6.3	1.2	Class A Amplifier
6CU8	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9GM	H●	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CX8	Medium-Mu Triode— Sharp-Cutoff Pentode	B1a	9DX	H	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6CY5	Sharp-Cutoff Tetrode	B0	7EW	H	6.3	0.2	Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6CY7	Dual Triode With Dissimilar Units	B1a	9LG	H	6.3	0.75	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6CZ5	Beam Power Tube	B1a	9HN	H	6.3	0.45	Vertical Deflection Amplifier Class A Amplifier Push-Pull Class AB1 Amplifier
6D6	Remote-Cutoff Pentode	D13a	6F	H	6.3	0.3	Amplifier Mixer
6D7	Sharp-Cutoff Pentode	D13a	7H	H	6.3	0.3	Amplifier Detector
6D8-G	Pentagrid Converter ◘	D8	8A‡	H	6.3	0.15	Converter
6DA4	Half-Wave Rectifier	C2c	4CG	H	6.3	1.2	Television Damper Service
6DC6	Semiremote-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier
6DE4	Half-Wave Rectifier	C10b	4CG	H	6.3	1.6	Television Damper Service
6DE6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier
6DE7	Dual Triode With Dissimilar Units	B1a	9HF	H●	6.3	0.95	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6DG6-GT	Beam Power Tube	C2c	7S	H	6.3	1.2	Class A Amplifier
6DK6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier
6DN6	Beam Power Tube	E	5BT	H	6.3	2.5	Horizontal Deflection Amplifier
6DN7	Dual Triode With Dissimilar Units	C0	8BD	H	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
6DQ5	Beam Power Tube	D11	8JC	H	6.3	2.5	Horizontal Deflection Amplifier
6DQ6-A	Beam Power Tube	D6	6AM	H	6.3	1.2	Horizontal Deflection Amplifier
6DR7	Dual Triode With Dissimilar Units	B1a	9HF	H	6.3	0.9	Vertical Deflection Oscillator Vertical Deflection Amplifier
6DS5	Beam Power Tube	B1	7BZ	H	6.3	0.8	Class A Amplifier
6DT5	Beam Power Tube	B1a	9HN	H	6.3	1.2	Vertical Deflection Amplifier
6DT6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier FM Detector
6DT8	High-Mu Twin Triodes	B0a	9DE	H	6.3	0.3	Class A Amplifier
6E5	Electron-Ray Tube	D4	6R	H	6.3	0.3	Visual Indicator
6E6	Twin-Triode Power Amplifier	D12a	7B	H	6.3	0.6	Push-Pull Class A Amplifier
6E7	Remote-Cutoff Pentode	D13a	7H	H	6.3	0.3	Amplifier
6EA8	Triode—Pentode Converter	B0a	9AE	H●	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EB8	High-Mu Triode—Sharp-Cutoff Pentode	B1a	9DX	H	6.3	0.75	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EH5	Power Pentode	B1	7CV	H	6.3	1.2	Class A Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6EH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B0a	9JG	H●	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6EM5	Beam Power Tube	C0a	9HN	H	6.3	0.8	Vertical Deflection Amplifier Class A Amplifier
6EW6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.4	Class A Amplifier
6F5 6F5-GT	High-Mu Triodes	C1 C2c	5M 5M‡	H	6.3	0.3	Class A Amplifier
6F6 **6F6-G** **6F6-GT**	Power Pentodes	C2a D11c C10	7S 7S‡ 7S‡	H	6.3	0.7	Pentode Class A Amplifier Triode—Class A Amplifier Pentode Push-Pull Class A Amplifier
6F7	Medium-Mu Triode—Remote-Cutoff Pentode	D9	7E	H	6.3	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier Pentode Unit as Mixer
6F8-G	Twin-Triode Amplifier	D8	8G	H	6.3	0.6	Each Unit as Class A Amplifier
6FG6	Electron-Ray Tube	B5b	9GA	H	6.3	0.27	Visual Indicator
6FV6	Sharp-Cutoff Tetrode	B0	7FQ	H	6.3	0.2	Class A Amplifier
6FW8	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier
6G6-G	Power Amplifier Pentode	D3	7S‡	H	6.3	0.15	Pentode Class A Amplifier
6H6 6H6-GT	Twin Diodes	A1b C3	7Q 7Q‡‡	H	6.3	0.3	Voltage Doubler Half-Wave Rectifier
6J5 **6J5-GT**	Medium-Mu Triodes	B3 C3	6Q 6Q✓	H	6.3	0.3	Class A Amplifier
6J6	Medium-Mu Twin Triode	B0	7BF	H	6.3	0.45	Each Unit as Class A Amplifier Push-Pull Class C Amplifier
6J7 6J7-G **6J7-GT**	Sharp-Cutoff Pentodes	C1 D8 C3	7R 7R‡‡ 7R✓	H	6.3	0.3	Pentode Class A RF Amplifier Pentode Class A AF Amplifier Pentode Bias Detector
6J8-G	Triode-Heptode Converter	D8	8H	H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
6K5-GT	High-Mu Triode	C3	5U	H	6.3	0.3	Class A Amplifier
6K6-GT	Power Pentode	C2c	7S‡	H	6.3	0.4	Single-Tube Class A Amplifier Push-Pull Class A Amplifier
6K7 6K7-G **6K7-GT**	Remote-Cutoff Pentodes	C1 D8 C3	7R 7R‡ 7R✓	H	6.3	0.3	Class A Amplifier Mixer Service
6K8 6K8-G 6K8-GT	Triode-Hexode Converters	C1 D8 C10	8K 8K‡ 8K✓	H	6.3	0.3	Triode Unit as Oscillator Hexode Unit as Mixer
6L5-G	Medium-Mu Triode	D3	6Q‡	H	6.3	0.15	Class A Amplifier
6L6 6L6-G **6L6-GB**	Beam Power Tubes	D7 E2 D6	7AC 7AC‡ 7AC	H	6.3	0.9	Single-Tube Class A Amplifier Push-Pull Class A Amplifier Push-Pull Class AB_1 Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6L7	Pentagrid Mixers▲	C1	7T	H	6.3	0.3	Mixer Service
6L7-G		D8	7T‡				Class A Amplifier
6N6-G	Direct-Coupled Power Triode	D11c	7AU	H	6.3	0.8	Class A Amplifier
6N7	High-Mu Twin Power Triodes	C2a	8B	H	6.3	0.8	Class A Amplifier (as Driver)*
6N7-GT		C2c	8B‡				Class B Amplifier
6P5-GT	Medium-Mu Triode	C2c	6Q‡	H	6.3	0.3	Amplifier Detector
6P7-G	Triode-Pentode	D8	7U	H	6.3	0.3	Amplifier and Converter
6Q7	Twin-Diode High-Mu Triodes	C1	7V	H	6.3	0.3	Triode Unit as Class A Amplifier
6Q7-G		D8	7V‡				
6Q7-GT		C3	7V✱				
6R7	Twin-Diode Medium-Mu Triodes	C1	7V	H	6.3	0.3	Triode Unit as Class A Amplifier
6R7-G		D8	7V‡				
6R7-GT		C2c	7V‡				
6S4	Medium-Mu Triode	B1a	9AC	H	6.3	0.6	Vertical Deflection Amplifier
6S4-A				H●			
6S7	Remote-Cutoff Pentodes	C1	7R	H	6.3	0.15	Class A Amplifier
6S7-G		D8	7R‡				
6S8-GT	Triple-Diode High-Mu Triode	C9a	8CB	H	6.3	0.3	Triode Unit as Class A Amplifier
6SA7	Pentagrid Converter▲	B3	8R	H	6.3	0.3	Mixer
6SA7-GT		C3	8AD				
6SB7-Y	Pentagrid Converter▲	B3	8R	H	6.3	0.3	Mixer
6SC7	High-Mu Twin-Triode Amplifier	B3	8S	H	6.3	0.3	Each Unit as Amplifier
6SF5	High-Mu Triodes	B3	6AB	H	6.3	0.3	Class A Amplifier
6SF5-GT		C2c	6AB‡				
6SF7	Diode-Remote-Cutoff Pentode	B3	7AZ	H	6.3	0.3	Pentode Unit as Class A Amplifier
6SG7	Remote-Cutoff Pentode	B3	8BK	H	6.3	0.3	Class A Amplifier
6SH7	Sharp-Cutoff Pentode	B3	8BK	H	6.3	0.3	Class A Amplifier
6SJ7	Sharp-Cutoff Pentodes	B3	8N	H	6.3	0.3	Class A Amplifier
6SJ7-GT		C3	8N✱				
6SK7	Remote-Cutoff Pentodes	B3	8N	H	6.3	0.3	Class A Amplifier
6SK7-GT		C3	8N✱				
6SL7-GT	High-Mu Twin Triode	C2c	8BD	H	6.3	0.3	Each Unit as Class A Amplifier
6SN7-GT	Medium-Mu Twin Triodes	C2c	8BD	H	6.3	0.6	Each Unit as Class A Amplifier
6SN7-GTA				H			
6SN7-GTB				H●			Vertical Deflection Amplifier +
6SQ7	Twin-Diode High-Mu Triodes	B3	8Q	H	6.3	0.3	Triode Unit as Class A Amplifier
6SQ7-GT		C3	8Q✱				
6SR7	Duplex-Diode Triode	B3	8Q	H	6.3	0.3	Triode Unit as Class A Amplifier
6SS7	Remote-Cutoff Pentode	B3	8N	H	6.3	0.15	Class A Amplifier
6ST7	Duplex-Diode Triode	B3	8Q	H	6.3	0.15	Triode Unit as Amplifier
6SZ7	Twin-Diode High-Mu Triode	B3	8Q	H	6.3	0.15	Triode Unit as Class A Amplifier
6T4	Medium-Mu Triode	A1	7DK	H	6.3	0.225	Oscillator in UHF TV Receivers
							Class A Amplifier
6T7-G	Twin-Diode High-Mu Triode	D8	7V‡	H	6.3	0.15	Triode Unit as Class A Amplifier
6T8	Triple-Diode High-Mu Triode	B0a	9E	H	6.3	0.45	Triode Unit as Class A Amplifier
6T8-A				H●			
6U5	Electron-Ray Tube	D4	6R	H	6.3	0.3	Visual Indicator
6U7-G	Remote-Cutoff Pentode	D13	7R‡	H	6.3	0.3	Class A Amplifier
							Mixer Service

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
6U8 **6U8-A**	Medium-Mu Triode—Sharp-Cutoff Pentodes	B0a	9AE	H H●	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
6V3-A	Half-Wave Rectifier	C0a	9BD	H	6.3	1.75	Television Damper Service
6V6 **6V6-GT**	Beam Power Tubes	C2a C2c	7AC 7AC‡	H	6.3	0.45	Single-Tube Class A Amplifier Push-Pull Class AB_1 Amplifier
6V7-G	Duplex-Diode Triode	D8	7V‡	H	6.3	0.3	Triode Unit as Amplifier
6W4-GT	Half-Wave Rectifier	C2c	4CG	H	6.3	1.2	With Capacitive-Input Filter
6W6-GT	Beam Power Amplifier	C2c	7AC‡	H	6.3	1.2	Vertical Deflection Amplifier
6W7-G	Sharp-Cutoff Pentode	D8	7R‡	H	6.3	0.15	Class A Amplifier
6X4	Full-Wave Rectifier	B1	5BS	H	6.3	0.6	With Capacitive-Input Filter With Inductive-Input Filter
6X5 **6X5-GT**	Full-Wave Rectifiers	C2a C2c	6S 6S‡	H	6.3	0.6	With Capacitive-Input Filter With Inductive-Input Filter
6X8	Triode-Pentode Converter	B0a	9AK	H	6.3	0.45	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer√
6Y5	Full-Wave Rectifier	D5	6J	H	6.3	0.8	With Capacitive-Input Filter
6Y6-G **6Y6-GA**	Beam Power Tube	D11c C11a	7AC‡	H	6.3	1.25	Single-Tube Class A Amplifier
6Y7-G	Twin-Triode Amplifier	D3	8B‡	H	6.3	0.6	Class B Amplifier
6Z5	Full-Wave Rectifier	D5	6K	H	6.3 12.6	0.8 0.4	With Capacitive-Input Filter
6Z7-G	Twin-Triode Amplifier	D3	8B‡	H	6.3	0.3	Class B Amplifier
6ZY5-G	Full-Wave Rectifier	D3	6S‡	H	6.3	0.3	With Capacitive-Input Filter
7A4	Medium-Mu Triode	B5	5AC	H	6.3	0.3	Amplifier
7A5	Beam Power Tube	C2	6AA	H	6.3	0.75	Class A Amplifier
7A6	Twin Diode	B5	7AJ	H	6.3	0.15	Detector Rectifier
7A7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.3	Class A Amplifier
7A8	Octode Converter	B5	8U	H	6.3	0.15	Converter
7AD7	Power Pentode	C2	8V	H	6.3	0.6	Class A Amplifier
7AF7	Medium-Mu Twin Triode	B5	8AC	H	6.3	0.3	Each Unit as Class A Amplifier
7AG7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier
7AH7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier
7AU7	Medium-Mu Twin-Triode	B0a	9A	H● H	3.5 7.0	0.6 0.3	Each Unit as Class A Amplifier
7B4	High-Mu Triode	B5	5AC	H	6.3	0.3	Amplifier
7B5	Power Amplifier Pentode	C2	6AE	H	6.3	0.4	Class A Amplifier
7B6	Twin-Diode High-Mu Triode	B5	8W	H	6.3	0.3	Triode Unit as Amplifier
7B7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier
7B8	Pentagrid Converter●	B5	8X	H	6.3	0.3	Converter
7C5	Beam Power Tube	C2	6AA	H	6.3	0.45	Class A Amplifier
7C6	Twin-Diode High-Mu Triode	B5	8W	H	6.3	0.15	Triode Unit as Class A Amplifier
7C7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
7E6	Twin-Diode Triode	B5	8W	H	6.3	0.3	Triode Unit as Amplifier
7E7	Twin-Diode Remote-Cutoff Pentode	B5	8AE	H	6.3	0.3	Pentode Unit as Class A Amplifier
7F7	High-Mu Twin-Triode	B5	8AC	H	6.3	0.3	Each Unit as Amplifier
7F8	Medium-Mu Twin-Triode	B0b	8BW	H	6.3	0.3	Each Unit as Class A Amplifier
7G7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.45	Class A Amplifier
7H7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.3	Class A Amplifier
7J7	Triode-Heptode Converter	B5	8BL	H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
7K7	Twin-Diode-High-Mu Triode	B5	8BF	H	6.3	0.3	Triode Unit as Class A Amplifier
7L7	RF Amplifier Pentode	B5	8V	H	6.3	0.3	Class A Amplifier
7N7	Medium-Mu Twin-Triode	C2	8AC	H	6.3	0.6	Each Unit as Class A Amplifier
7Q7	Pentagrid Converter▲	B5	8AL	H	6.3	0.3	Converter
7R7	Twin-Diode—Remote-Cutoff Pentode	B5	8AE	H	6.3	0.3	Pentode Unit as Class A Amplifier
7S7	Triode-Heptode Converter	B5	8BL	H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer
7V7	RF Amplifier Pentode	B5	8V	H	6.3	0.45	Class A Amplifier
7W7	RF Amplifier Pentode	B5	8BJ	H	6.3	0.45	Class A Amplifier
7X7	Twin Diode—High-Mu Triode	C2	8BZ	H	6.3	0.3	Triode Unit as Class A Amplifier
7Y4	Full-Wave Rectifier	B5	5AB	H	6.3	0.5	With Capacitive-Input Filter
7Z4	Full-Wave Rectifier	C2	5AB	H	6.3	0.9	With Capacitive-Input Filter
8AU8	Medium-Mu Triode—Sharp-Cutoff Pentode	B1a	9DX	He	8.4	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8AW8-A	High-Mu Triode Sharp-Cutoff Pentode	B1a	9DX	He	8.4	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8BH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B1a	9DX	He	8.4	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8BN8	Twin Diode—High-Mu Triode	B1a	9ER	He	8.4	0.45	Triode Unit as Class A Amplifier
8BQ5	Beam Power Tube	C0a	9CV	He	8.0	0.6	Class A Amplifier Push-Pull Class AB1 Amplifier
8CG7	Medium-Mu Twin Triode	B1a	9AJ	He	8.4	0.45	Horizontal Deflection Oscillator Vertical Deflection Oscillator
8CM7	Dual Triode With Dissimilar Units	B1a	9ES	He	8.4	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
8CN7	Twin Diode—High-Mu Triode	B0a	9EN	He H	4.2 8.4	0.45 0.225	Triode Unit as Class A Amplifier
8CX8	Medium-Mu Triode—Sharp-Cutoff Pentode	B1a	9DX	He	8.0	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8EB8	High-Mu Triode—Sharp-Cutoff Pentode	B1a	9DX	He	8.0	0.6	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
8EM5	Beam Power Tube	C0a	8HN	He	8.4	0.6	Vertical Deflection Amplifier Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
9AU7	Medium-Mu Twin Triode	B0a	9A	He H	4.7 9.4	0.45 0.225	Each Unit as Class A Amplifier
9BR7	Twin Diode—High-Mu Triode	B0a	9CF	He H	4.7 9.4	0.6 0.3	Triode Unit as Class A Amplifier
9CL8	Medium-Mu Triode—Sharp-Cutoff Tetrode	B0a	9FX	He	9.5	0.3	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
9U8-A	Medium-Mu Triode—Sharp-Cutoff Pentode	B0a	9AE	He	9.45	0.3	Triode Unit as Class A Amplifier Pentode Unit
10	Power Amplifier Triode	E3a	4D	F	7.5	1.25	Class A Amplifier
10C8	High-Mu Triode—Sharp-Cutoff Pentode	B0a	9DA	He	10.5	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
10DE7	Dual Triode With Dissimilar Units	B1a	9HF	He	9.7	0.6	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
11CY7	Dual Triode With Dissimilar Units	B1a	9LG	He	11	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
11 12	Detector★ Amplifier Triode	D2a D12	4F 4D	D.C. F	1.1	0.25	Class A Amplifier
12A5	Power Amplifier Pentode	D5	7F	H	6.3 12.6	0.6 0.3	Class A Amplifier
12A7	Rectifier-Pentode	D9	7K	H	12.6	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier
12A8-GT	Pentagrid Converter ■	C3	8AJ	H	12.6	0.15	Converter
12AB5	Beam Power Tube	B1a	9EU	H	10.0 to 15.9	0.2 approx. at 12.6 v	Class A Amplifier Push-Pull Class AB, Amplifier
12AC6	Remote-Cutoff Pentode⊙	B0	7BK	H	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12AD6	Pentagrid Converter⊙	B0	7CH	H	10.0 to 15.9	0.15 approx. at 12.6 v	Converter
12AE6	Twin Diode Medium-Mu Triode⊙	B0	7BT	H	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⊙	B0	7BT	H	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AF3	Half-Wave Rectifier	C2b	9CB	He	12.6	0.6	Television Damper Service
12AF6	Remote-Cutoff Pentode⊙	B0	7BK	H	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12AH7-GT	Twin Triode	C0b	8BE	H	12.6	0.15	Each Unit as Class A Amplifier
12AJ6	Twin Diode Medium-Mu Triode⊙	B0	7BT	H	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12AL5	Twin-Diode	A1	6BT	H	12.6	0.15	Detector-Rectifier
12AL8	Medium-Mu Triode—Power Tetrode⊙	B1a	9GS	H	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier Tetrode Unit as Class A Amplifier
12AQ5	Beam Power Tube	B1	7BZ	H	12.6	0.225	Amplifier
12AT6	Twin-Diode High-Mu Triode	B0	7BT	H	12.6	0.15	Triode Unit as Class A Amplifier
12AT7	High-Mu Twin-Triode	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AU6	Sharp-Cutoff Pentode	B0	7BK	H	12.6	0.15	Class A Amplifier
12AU7 **12AU7-A**	Medium-Mu Twin-Triodes	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit As Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
12AV5-GA	Beam Power Tube	D1a	6CK	H●	12.6	0.6	Horizontal Deflection Amplifier
12AV6	Twin-Diode High-Mu Triode	B0	7BT	H	12.6	0.15	Triode Unit as Class A Amplifier
12AV7	Medium-Mu Twin-Triode	B0a	9A	H	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12AW6	Sharp-Cutoff Pentode	B0	7CM	H	12.6	0.15	Class A Amplifier
12AX4-GT **12AX4-GTA**	Half-Wave Rectifiers	C2c	4CG	H H●	12.6	0.6	Television Damper Service
12AX7	High-Mu Twin-Triode	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AY7	Medium-Mu Twin-Triode	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
12AZ7	High-Mu Twin-Triode	B0a	9A	H	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier
12B4-A	Low-Mu Triode	B1a	9AG	H●	6.3 12.6	0.6 0.3	Vertical Deflection Amplifier
12B8-GT	Triode-Pentode	C10a	8T	H	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12BA6	Remote-Cutoff Pentode	B0	7BK	H	12.6	0.15	Class A Amplifier
12BA7	Pentagrid Converter▲	B1a	8CT	H	12.6	0.15	Converter
12BD6	Remote-Cutoff Pentode	B0	7BK	H	12.6	0.15	Class A Amplifier
12BE6	Pentagrid Converter▲	B0	7CH	H	12.6	0.15	Converter
12BF6	Twin-Diode Medium-Mu Triode	B0	7BT	H	12.6	0.15	Triode Unit as Class A Amplifier
12BH7 **12BH7-A**	Medium-Mu Twin-Triodes	B1a	9A	H H●	6.3 12.6	0.6 0.3	Vertical Deflection Amplifier
12BK5	Beam Power Tube	B1a	9BQ	H●	12.6	0.6	Class A Amplifier
12BL6	Remote-Cutoff Pentode⊙	B0	7BK	H	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12BQ6-GTB/ 12CU6	Beam Power Tube	C11	8AM	H●	12.6	0.6	Horizontal Deflection Amplifier
12BR7	Twin-Diode High-Mu Triode	B0a	9CF	H	6.3 12.6	0.45 0.225	Triode Unit as Class A Amplifier
12BV7	Sharp-Cutoff Pentode	B1a	9BF	H	6.3 12.6	0.6 0.3	Class A Amplifier
12BY7 **12BY7-A**	Sharp-Cutoff Pentodes	B1a	9BF	H H●	6.3 12.6	0.6 0.3	Class A Amplifier
12BZ7	High-Mu Twin Triode	B1a	9A	H	6.3 12.6	0.6 0.3	Each Unit as Class A Amplifier
12C8	Twin-Diode Remote-Cutoff Pentode	C1	8E	H	12.6	0.15	Pentode Unit as RF Amplifier Pentode Unit as AF Amplifier
12CA5	Beam Power Tube	B1	7CV	H●	12.6	0.6	Class A Amplifier
12CN5	Remote-Cutoff Pentode⊙	B1	7CV	H	10.0 to 15.9	0.45 approx. at 12.6 v	Class A Amplifier
12CR6	Diode Remote-Cutoff Pentode	B0	7EA	H	12.6	0.15	Pentode Unit as Class A Amplifier
12CT8	Medium-Mu Triode— Sharp-Cutoff Pentode	B0a	9DA	H●	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
12CU5	Beam Power Tube	B1	7CV	H●	12.6	0.6	Class A Amplifier
12CU5/ 12C5	Beam Power Tube	B1	7CV	H●	12.6	0.6	Class A Amplifier
12CX6	Sharp-Cutoff Pentode⊙	B0	7BK	H	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12D4	Half-Wave Rectifier	C2c	4CG	H●	12.6	0.6	Television Damper Service

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
12DB5	**Beam Power Tube**	B4a	9GR	H●	12.6	0.6	Vertical Deflection Amplifier
12DL8	**Twin-Diode Power Tetrode⊙**	B1a	9HR	H	10.0 to 15.9	0.55 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
							Diode Units
12DQ6-A	**Beam Power Tube**	D6	6AM	H●	12.6	0.6	Horizontal Deflection Amplifier
12DQ7	**Power Pentode**	B1a	9BF	H● H	6.3 12.6	0.6 0.3	Class A Amplifier
12DS7	**Twin-Diode Power Tetrode⊙**	B1a	9JU	H	10.0 to 15.9	0.4 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
							Diode Units
12DT5	**Beam Power Tube**	B1a	9HN	H●	12.6	0.6	Vertical Deflection Amplifier
12DT8	**High-Mu Twin Triodes**	B0a	9DE	H	12.6	0.15	Class A Amplifier
12DV8	**Twin Diode—Power Tetrode⊙**	B1a	9HR	H	10.0 to 15.9	0.375 approx. at 12.6 v	Class A Amplifier
12DZ6	**Remote-Cutoff Pentode⊙**	B0	7BK	H	10.0 to 15.9	0.175 approx. at 12.6 v	Class A Amplifier
12EA6	**Sharp-Cutoff Pentode⊙**	B0	7BK	H	10.0 to 15.9	0.175 approx. at 12.6 v	Class A Amplifier
12ED5	**Beam Power Tube**	B1	7CV	H●	12.6	0.45	Class A Amplifier
12EG6	**Pentagrid Amplifier⊙**	B0	7CH	H	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
12EH5	**Power Pentode**	B1	7CV	H●	12.6	0.6	Class A Amplifier
12EK6	**Sharp-Cutoff Pentode⊙**	B0	7BK	H	10.0 to 15.9	0.19 approx. at 12.6 v	Class A Amplifier
12EL6	**Twin Diode—High-Mu Triode⊙**	B0	7FB	H	10.0 to 15.9	0.15 approx. at 12.6 v	Class A Amplifier
							Diode Units
12EM6	**Diode—Power Tetrode⊙**	B1a	9HV	H	10.0 to 15.9	0.5 approx. at 12.6 v	Class A Amplifier
							Diode Unit
12EN6	**Beam Power Tube**	C2c	7AC	H●	12.6	0.6	Vertical Deflection Amplifier
12F5-GT	**High-Mu Triode**	C2c	5M‡	H	12.6	0.15	Amplifier
12F8	**Twin Diode Remote-Cutoff Pentode⊙**	B0a	9FH	H	10.0 to 15.9	0.15 approx. at 12.6 v	Pentode Unit as Class A Amplifier
12FK6	**Twin Diode—Low-Mu Triode⊙**	B0	7BT	H	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
12FM6	**Twin Diode—Medium-Mu Triode⊙**	B0	7BT	H	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier
							Diode Units
12H6	**Twin-Diode**	A1b	7Q	H	12.6	0.15	Detector Rectifier
12J5-GT	**Medium-Mu Triode**	C3	6Q‡	H	12.6	0.15	Amplifier
12J7-GT	**Sharp-Cutoff Pentode**	C3	7R‡	H	12.6	0.15	Amplifier
12J8	**Twin-Diode Power Tetrode⊙**	B0a	9GC	H	10.0 to 15.9	0.325 approx. at 12.6 v	Tetrode Unit as Class A Amplifier
12K5	**Power Tetrode⊙**	B1	7EK	H	10.0 to 15.9	0.4 approx. at 12.6 v	Class A Amplifier
12K7-GT	**Remote-Cutoff Pentode**	C3	7R‡	H	12.6	0.15	Amplifier
12K8	**Triode-Hexode Converter**	C1	8K	H	12.6	0.15	Oscillator Mixer
12L6-GT	**Beam Power Tube**	C2c	7AC‡	H●	12.6	0.6	Class A Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
12Q7-GT	Twin-Diode High-Mu Triode	C3	7V$_K$	H	12.6	0.15	Triode Unit as Amplifier
12R5	Beam Power Tube	B1	7CV	H●	12.6	0.6	Vertical Deflection Amplifier
12S8-GT	Triple-Diode High-Mu Triode	C8a	8CB	H	12.6	0.15	Triode Unit as Class A Amplifier
12SA7 **12SA7-GT**	Pentagrid Converter▲	B3 C2c	8R 8AD	H	12.6	0.15	Mixer
12SC7	Twin-Triode Amplifier	B3	8S	H	12.6	0.15	Each Unit as Class A Amplifier
12SF5 12SF5-GT	High-Mu Triode	B3 C2c	6AB 6AB‡	H	12.6	0.15	Class A Amplifier
12SF7	Diode-Remote-Cutoff Pentode	B3	7AZ	H	12.6	0.15	Pentode Unit as Amplifier
12SG7	Remote-Cutoff Pentode	B3	8BK	H	12.6	0.15	Class A Amplifier
12SH7	Sharp-Cutoff Pentode	B3	8BK	H	12.6	0.15	Class A Amplifier
12SJ7 12SJ7-GT	Sharp-Cutoff Pentodes	B3 C3	8N 8N$_K$	H	12.6	0.15	Class A Amplifier
12SK7 **12SK7-GT**	Remote-Cutoff Pentodes	B3 C3	8N 8N$_K$	H	12.6	0.15	Class A Amplifier
12SL7-GT	High-Mu Twin-Triode	C2c	8BD	H	12.6	0.15	Each Unit as Amplifier
12SN7-GT	Medium-Mu Twin-Triode	C2c	8BD	H	12.6	0.3	Each Unit as Amplifier
12SQ7 **12SQ7-GT**	Twin-Diode High-Mu Triode	B3 C3	8Q 8Q$_K$	H	12.6	0.15	Triode Unit as Amplifier
12SR7 12SR7-GT	Twin-Diode High-Mu Triode	B3 C2c	8Q 8Q$_K$	H	12.6	0.15	Triode Unit as Amplifier
12U7	Medium-Mu Twin Triode◎	B0a	7CK	H	10.0 to 15.9	0.15 approx. at 12.6 v	Each Unit as Class A Amplifier
12V6-GT	Beam Power Amplifier	C2c	7AC‡	H	12.6	0.225	Amplifier
12W6-GT	Beam Power Tube	C2c	7AC‡	H●	12.6	0.6	Vertical Deflection Amplifier
12X4	Full-Wave Rectifier	B1	5BS	H	12.6	0.225	Rectifier
12Z3	Half-Wave Rectifier	D5	4G	H	12.6	0.3	With Capacitive-Input Filter
13DE7	Dual Triode With Dissimilar Units	B1a	9HF	H●	13.0	0.45	Vertical Deflection Oscillator (Unit No. 1) Vertical Deflection Amplifier (Unit No. 2)
14A4	Medium-Mu Triode	B5	5AC	H	12.6	0.15	Class A Amplifier
14A5	Beam Power Tube	B5	6AA	H	12.6	0.15	Class A Amplifier
14A7	Remote-Cutoff Pentode	B5	8V	H	12.6	0.15	Class A Amplifier
14AF7	Medium-Mu Twin-Triode	B5	8AC	H	12.6	0.15	Each Unit as Class A Amplifier
14B6	Duplex-Diode High-Mu Triode	B5	8W	H	12.6	0.15	Triode Unit as Class A Amplifier
14B8	Pentagrid Converter●	B5	8X	H	12.6	0.15	Converter
14C5	Beam Power Tube	C2	6AA	H	12.6	0.225	Class A Amplifier
14C‾	Sharp-Cutoff Pentode	B5	8V	H	12.6	0.15	Class A Amplifier
14E6	Twin-Diode Triode	B5	8W	H	12.6	0.15	Triode Unit as Class A Amplifier
14E7	Twin-Diode Remote-Cutoff Pentode	B5	8AE	H	12.6	0.15	Pentode Unit as Class A Amplifier
14F7	Twin-Triode Amplifier	B5	8AC	H	12.6	0.15	Each Unit as Class A Amplifier
14F8	Medium-Mu Twin-Triode	B0b	8BW	H	12.6	0.15	Each Unit as Class A Amplifier
14H7	Remote-Cutoff Pentode	B5	8V	H	12.6	0.15	Class A Amplifier
14J7	Triode-Heptode Converter	B5	8BL	H	12.6	0.15	Converter

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
14N7	Twin-Triode Amplifier	C2	8AC	H	12.6	0.3	Each Unit as Class A Amplifier
14Q7	Pentagrid Converter▲	B5	8AL	H	12.6	0.15	Converter
14R7	Twin-Diode Pentode	B5	8AE	H	12.6	0.15	Pentode Unit as Class A Amplifier
15	RF Amplifier Pentode	D9	5F	D.C. H	2.0	0.22	Class A Amplifier
17AX4-GT	Half-Wave Rectifier	C2c	4CG	H●	16.8	0.45	Television Damper Service
17BQ6-GTB	Beam Power Tube	C11	6AM	H●	16.8	0.45	Horizontal Deflection Amplifier
17D4	Half-Wave Rectifier	C2c	4CG	H●	16.8	0.45	Television Damper Service
17DE4	Half-Wave Rectifier	C10b	4CG	H●	17.0	0.6	Television Damper Service
17DQ6-A	Beam Power Tube	D6	8AM	H●	16.8	0.45	Horizontal Deflection Amplifier
17H3	Half-Wave Rectifier	B1a	9FK	H●	17.5	0.3	Television Damper Service
18A5	Beam Power Tube	C5	8CK	H●	18.5	0.3	Horizontal Deflection Amplifier
18FW6	Semiremote-Cutoff Pentode	B0	7CC	H	18.0	0.1	Class A Amplifier
18FX6	Pentagrid Converter▲	B0	7CH	H	18.0	0.1	Converter
18FY6	Twin Diode—High-Mu Triode	B0	7BT	H	18.0	0.1	Triode Unit as Class A Amplifier
19	Twin-Triode Amplifier	D5	6C	D.C. F	2.0	0.26	Amplifier
19AU4	Half-Wave Rectifier	C10b	4CG	H●	18.9	0.6	Television Damper Service
19BG6-G **19BG6-GA**	Beam Power Tubes	F1 E	5BT	H	18.9	0.3	Horizontal Deflection Amplifier
19J6	Medium-Mu Twin-Triode	B0	7BF	H	18.9	0.15	Each Unit as Class A Amplifier
19T8	Triple-Diode High-Mu Triode	B0a	9E	H	18.9	0.15	Triode Unit as Class A Amplifier
19X8	Triode-Pentode Converter	B0a	9AK	H	18.9	0.15	Triode as Osc. Pentode as Mixer
20	Power Amplifier Triode	D1	4D	D.C. F	3.3	0.132	Class A Amplifier
22	RF Amplifier Tetrode	E1	4K	D.C. F	3.3	0.132	Screen-Grid RF Amplifier
24-A	RF Amplifier Tetrode	E1	5E	H	2.5	1.75	Screen-Grid RF Amplifier
25A6 25A6-GT	Power Amplifier Pentodes	C2a C3	7S 7S‡	H	25.0	0.3	Class A Amplifier
25A7-GT	Rectifier Pentode	C3	8F	H	25.0	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier
25AC5-GT	High-Mu Power Amplifier Triode	C3	6Q‡	H	25.0	0.3	Dynamic-Coupled Amp. With Type 6AE5-GT Driver
25AV5-GA	Beam Power Tube	D1a	8CK	H	25.0	0.3	Horizontal Deflection Amplifier
25AX4-GT	Half-Wave Rectifier	C2c	4CG	H	25	0.3	Television Damper Service
25B5	Direct-Coupled Power Amplifier	D10	8D	H	25.0	0.3	Amplifier
25B6-G	Power Amplifier Pentode	D11c	7S‡	H	25.0	0.3	Class A Amplifier
25B8-GT	Triode-Pentode	C3	8T	H	25.0	0.15	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
25BK5	Beam Power Tube	B1a	9BQ	H	25.0	0.3	Class A Amplifier
25BQ6-GT **25BQ6-GTB/ 25CU6**	Beam Power Tubes	C11	6AM	H	25.0	0.3	Horizontal Deflection Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
25C5	Beam Power Tube	B1	7CV	H	25.0	0.3	Class A Amplifier
25C6-G	Beam Power Tube	D11c	7AC‡	H	25.0	0.3	Class A Amplifier
25CA5	Beam Power Tube	B1	7CV	H	25.0	0.3	Class A Amplifier
25CD6-GA **25CD6-GB**	Beam Power Tubes	F1 E0	5BT	H● H●	25	0.6	Horizontal Deflection Amplifier
25DN6	Beam Power Tube	E	5BT	H●	25.0	0.6	Horizontal Deflection Amplifier
25EH5	Power Pentode	B1	7CV	H	25.0	0.3	Class A Amplifier
25L6	Beam Power Tube	C2a	7AC	H	25.0	0.3	Amplifier
25L6-GT	Beam Power Tube	C2c	7AC‡	H	25.0	0.3	Amplifier
25N6-G	Direct-Coupled Power Amplifier	D9	7W	H	25.0	0.3	Class A Amplifier
25W4-GT	Half-Wave Rectifier	C2c	4CG	H	25.0	0.3	With Capacitive-Input Filter
25Y5	Rectifier-Doubler	D5	6E	H	25.0	0.3	Half-Wave Rectifier
25Z5	Rectifier-Doubler	D5	8E	H	25.0	0.3	Rectifier-Doubler
25Z6 **25Z6-GT**	Vacuum Rectifier-Doublers	C2a C2c	7Q 7Q‡	H	25.0	0.3	Voltage Doubler Half-Wave Rectifier
26	Amplifier Triode	D12a	4D	F	1.5	1.05	Class A Amplifier
27	Detector★ Amplifier Triode	D5	8A	H	2.5	1.75	Class A Amplifier Bias Detector
30	Medium-Mu Triode	D5	4D	D.C. F	2.0	0.06	Amplifier
31	Power Amplifier Triode	D5	4D	D.C. F	2.0	0.13	Class A Amplifier
32	RF Amplifier Tetrode	E1	4K	D.C. F	2.0	0.06	Screen-Grid RF Amplifier Bias Detector
32ET5	Beam Power Tube	B1	7CV	H	32.0	0.1	Class A Amplifier
32L7-GT	Rectifier-Beam Power Amplifier	C3	8Z	H	32.5	0.3	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
33	Power Amplifier Pentode	D12a	5K	D.C. F	2.0	0.26	Class A Amplifier
34	Remote-Cutoff Pentode	E1	4M	D.C. F	2.0	0.06	Screen-Grid RF Amplifier
35	Remote-Cutoff Tetrode	E1	5E	H	2.5	1.75	Screen-Grid RF Amplifier
35A5	Beam Power Tube	C2	6AA	H	35.0	0.15	Single-Tube Class A Amplifier
35B5	Beam Power Tube	B1	7BZ	H	35.0	0.15	Class A Amplifier
35C5	Beam Power Tube	B1	7CV	H	35.0	0.15	Class A Amplifier
35L6-GT	Beam Power Tube	C2c	7AC‡	H	35.0	0.15	Single-Tube Class A Amplifier
35W4	Half-Wave Rectifier Heater Tap for Pilot	B1	5BQ	H Pilot Between Pins 4 and 6	35.0	0.15	With Capacitive-Input Filter
35Y4	Half-Wave Rectifier Heater Tap for Pilot	C2	5AL	H Pilot Between Pins 1 and 4	35.0	0.15	With Capacitive-Input Filter
35Z3	Half-Wave Rectifier	C2	4Z	H	35.0	0.15	With Capacitive-Input Filter
35Z4-GT	Half-Wave Rectifier	C2c	5AA	H	35.0	0.15	With Capacitive-Input Filter
35Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C2c	6AD	H Pilot Between Pins 2 and 3	35.0	0.15	With Capacitive-Input Filter
36	RF Amplifier Tetrode	D9	5E	H	6.3	0.3	Screen-Grid RF Amplifier Bias Detector
36AM3	Half-Wave Rectifier	B1	5BQ	H	36.0	0.1	With Capacitive-Input Filter

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts.	Amps.	
37	Detector★ Amplifier Triode	D5	5A	H	6.3	0.3	Class A Amplifier Bias Detector
38	Power Amplifier Pentode	D9	5F	H	6.3	0.3	Class A Amplifier
39/44	Remote-Cutoff Pentode	D9	5F	H	6.3	0.3	Class A Amplifier
40	Medium-Mu Triode	D12a	4D	D.C. F	5.0	0.25	Class A Amplifier
41	Power Amplifier Pentode	D5	6B	H	6.3	0.4	Amplifier
42	Power Amplifier Pentode	D12a	6B	H	6.3	0.7	Amplifier
43	Power Amplifier Pentode	D12a	6B	H	25.0	0.3	Amplifier
45	Power Amplifier Triode	D12a	4D	F	2.5	1.5	Class A Amplifier
45Z3	Half-Wave Rectifier	B8	5AM	H	45.0	0.075	Half-Wave Rectifier
45Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C2c	6AD	H Pilot Between Pins 2 and 3	45.0	0.15	With Capacitive-Input Filter
46	Dual-Grid Power Amplifier	E3a	5C	F	2.5	1.75	Class A Amplifier□ Class B Amplifier◆
47	Power Amplifier Pentode	E3a	5B	F	2.5	1.75	Class A Amplifier
48	Power Amplifier Tetrode	E3a	6A	D.C. H	30.0	0.4	Class A Amplifier
49	Dual-Grid Power Amplifier	D12a	5C	D.C. F	2.0	0.12	Class A Amplifier□ Class B Amplifier◆
50	Power Amplifier Triode	F1a	4D	F	7.5	1.25	Class A Amplifier
50A5	Beam Power Tube	C2	6AA	H	50.0	0.15	Class A Amplifier
50B5	Beam Power Tube	B1	7BZ	H	50.0	0.15	Class A Amplifier
50C5	Beam Power Tube	B1	7CV	H	50.0	0.15	Class A Amplifier
50C6-G	Beam Power Tube	D11c	7AC	H	50.0	0.15	Single-Tube Class A Amplifier
50DC4	Half-Wave Rectifier Heater Tap for Pilot	B1	5BQ	H Pilot Lamp Between Pins 4 and 6	50.0	0.15	With Capacitive Input Filter
50EH5	Power Pentode	B1	7CV	H	50.0	0.15	Class A Amplifier
50L6-GT	Beam Power Tube	C2c	7AC;	H	50.0	0.15	Single-Tube Class A Amplifier
50X6	Rectifier-Doubler	C2	7DX	H	50.0	0.15	Rectifier-Doubler Half-Wave Rectifier
50Y6-GT	Rectifier-Doubler	C2c	7Q;	H	50.0	0.15	Rectifier-Doubler
50Y7-GT	Rectifier-Doubler Heater Tap for Pilot	C2c	8AN	H Pilot Lamp Between Pins 6 and 7	50.0	0.15	Voltage Doubler Half-Wave Rectifier
50Z7-G	Rectifier-Doubler Heater Tap for Pilot	D3	8AN	H Pilot Lamp Between Pins 6 and 7	50.0	0.15	Voltage Doubler Half-Wave Rectifier
53	Twin-Triode Amplifier	D12a	7B	H	2.5	2.0	Amplifier
55	Duplex-Diode Triode	D9	6G	H	2.5	1.0	Triode Unit as Amplifier
56	Medium-Mu Triode¶	D5	5A	H	2.5	1.0	Amplifier Detector
57	Sharp-Cutoff Pentode	D13a	6F	H	2.5	1.0	Amplifier Detector
58	Remote-Cutoff Pentode	D13a	6F	H	2.5	1.0	Amplifier Mixer
59	Triple-Grid Power Amplifier	E3a	7A	H	2.5	2.0	Triode¶ Class A Amplifier Pentode▪▪ Class A Amplifier
70L7-GT	Rectifier-Beam Power Amplifier	C10	8AA	H	70.0	0.15	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
71-A	Power Amplifier Triode	D12a	4D	F	5.0	0.25	Class A Amplifier

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
75	**Twin-Diode High-Mu Triode**	D9	6G	H	6.3	0.3	Amplifier
76	Detector Amplifier Triode★	D5	5A	H	6.3	0.3	Class A Amplifier Bias Detector
77	Triple-Grid Detector Amplifier	D9	8F	H	6.3	0.3	Class A Amplifier Bias Detector
78	**Remote-Cutoff Pentode**	D9	6F	H	6.3	0.3	Amplifier Mixer
79	Twin-Triode Amplifier	D9	6H	H	6.3	0.6	Class B Amplifier
80	**Full-Wave Rectifier**	D12a	4C	F	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter
81	Half-Wave Rectifier	F1a	4B	F	7.5	1.25	With Capacitive-Input Filter
82	Full-Wave▶ Rectifier	D12a	4C	F	2.5	3.0	With Capacitive-Input Filter
83	Full-Wave▶ Rectifier	E3a	4C	F	5.0	3.0	With Capacitive-Input Filter
83-v	Full-Wave Rectifier	D12a	4AD	H	5.0	2.0	Power Rectifier
84/6Z4	**Full-Wave Rectifier**	D5	5D	H	6.3	0.5	With Capacitive-Input Filter With Inductive-Input Filter
85	Twin-Diode Triode	D9	6G	H	6.3	0.3	Triode Unit as Class A Amplifier
89	Triple-Grid Power Amplifier	D9	6F	H	6.3	0.4	As Triode◆ Class A Amplifier As Pentode■■ Class A Amplifier
117L7/ M7-GT	**Rectifier-Beam Power Tube**	C10	8AO	H	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
117N7-GT	**Rectifier-Beam Power Tube**	C10	8AV	H	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier
117P7-GT	**Rectifier-Beam Power Tube**	C10	8AV	H	117	0.09	Ampl.-Pwr. Rect.
117Z3	**Half-Wave Rectifier**	B2	4CB		117	0.04	With Capacitive-Input Filter
117Z4-GT	Half-Wave Rectifier	C0	5AA	H	117.0	0.04	With Capacitive-Input Filter
117Z6-GT	**Rectifier-Doubler**	C2c	7Q	H	117	0.075	Voltage Doubler Half-Wave Rectifier
5879	**Sharp-Cutoff Pentode**	B0a	9AD	H	6.3	0.15	Class A Amplifier
5881	**Beam Power Tube**	C9b	7AC	H	6.3	0.9	Single Tube Class A Amplifier Push-Pull Class A Amplifier Push-Pull Class AB_1 Amplifier
6973	**Beam Power Tube**	B1a	9EU	H	6.3	0.45	Push-Pull Class AB, Amplifier Push-Pull ▭ Class AB_1 Amplifier
7025	**High-Mu Twin-Triode**	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier
7027	Beam Power Tube	D11a	8HY	H	6.3	0.9	Push-Pull Class AB, Amplifier Push-Pull Class AB_1 Amplifier
7027-A	**Beam Power Tube**	D11a	8HY	H	6.3	0.9	Push-Pull Class AB, Amplifier Push-Pull Class AB_1 Amplifier

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dim.	B.D.	C.T.	Volts	Amps.	
7189	Beam Power Tube	C0a	9BL	H	6.3	0.76	Push-Pull Class AB1 Amplifier
7199	Medium-Mu Triode Sharp-Cutoff Pentode	B0a	9JT	H	6.3	0.45	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier
EM84/ 6FG6	Electron-Ray Tube	B5b	9GA	H	6.3	0.27	Visual Indicator

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length	x	Diameter
A	1-3/4"	x	3/8"
A1	1-3/4"	x	3/4"
A1a	1-3/4"	x	7/8"
A1b	1-3/4"	x	1-5/16"
B0	2-1/8"	x	3/4"
B0a	2-3/16"	x	7/8"
B0b	2-9/32"	x	1-3/16"
B0c	2-5/16"	x	1-9/32"
B1	2-5/8"	x	3/4"
B1a	2-5/8"	x	7/8"
B2	2-5/8"	x	1-1/16"
B3	2-5/8"	x	1-5/16"
B4	2-11/16"	x	7/8"
B4a	2-3/4"	x	7/8"
B5	2-25/32"	x	1-3/16"
B5a	2-27/32"	x	7/8"
B5b	2-7/8"	x	7/8"
B5c	2-7/8"	x	1-5/16"
C0	3"	x	1-9/32"
C0a	3-1/16"	x	7/8"
C0b	3-1/16"	x	1-9/32"
C1	3-1/8"	x	1-5/16"
C2	3-5/32"	x	1-3/16"
C2a	3-1/4"	x	1-5/16"
C2b	3-9/32"	x	7/8"
C2c	3-5/16"	x	1-9/32"
C3	3-5/16"	x	1-5/16"
C4	3-3/8"	x	1-9/32"

Symbol	Maximum Overall Length	x	Diameter
C5	3-7/16"	x	1-9/32"
C9a	3-7/16"	x	1-5/16"
C9b	3-15/32"	x	1-7/16"
C9c	3-1/2"	x	1-1/16"
C10	3-9/16"	x	1-9/32"
C10a	3-9/16"	x	1-5/16"
C10b	3-13/16"	x	1-9/32"
C11	3-7/8"	x	1-9/32"
C11a	3-7/8"	x	1-9/16"
D1	4"	x	1-3/16"
D1a	4"	x	1-9/16"
D2	4-1/16"	x	1-9/32"
D2a	4-1/8"	x	1-3/16"
D3	4-1/8"	x	1-9/16"
D4	4-3/16"	x	1-3/16"
D5	4-3/16"	x	1-9/16"
D6	4-1/4"	x	1-9/16"
D7	4-5/16"	x	1-5/8"
D8	4-15/32"	x	1-9/16"
D9	4-17/32"	x	1-9/16"
D10	4-19/32"	x	1-9/16"
D11	4-5/8"	x	1-9/16"
D11a	4-5/8"	x	1-5/8"
D11b	4-5/8"	x	1-23/32"
D11c	4-5/8"	x	1-13/16"
D12	4-11/16"	x	1-7/16"
D12a	4-11/16"	x	1-13/16"
D12b	4-3/4"	x	1-9/16"
D12c	4-3/4"	x	1-23/32"

Symbol	Maximum Overall Length	x	Diameter
D13	4-7/8"	x	1-9/16"
D13a	4-15/16"	x	1-9/16"
E	5"	x	1-9/16"
E0	5"	x	1-23/32"
E0a	5-1/8"	x	1-23/32"
E0b	5-1/8"	x	2-1/16"
E1	5-1/32"	x	1-13/16"
E1a	5-7/32"	x	1-23/32"
E2	5-5/16"	x	1-1/16"
E3	5-5/16"	x	2-1/16"
E3a	5-3/8"	x	2-1/16"
F1	5-11/16"	x	2-1/16"
F1a	6-1/4"	x	2-7/16"
G1	8"	x	2-1/16"

EXPLANATION OF FOOTNOTES

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

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.

GS 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 AB_1) indicates that grid current does not flow during any part of input service.

LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

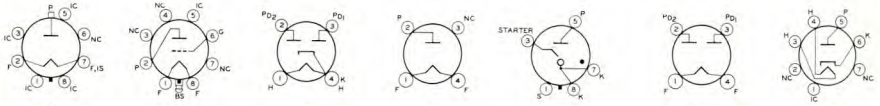
Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

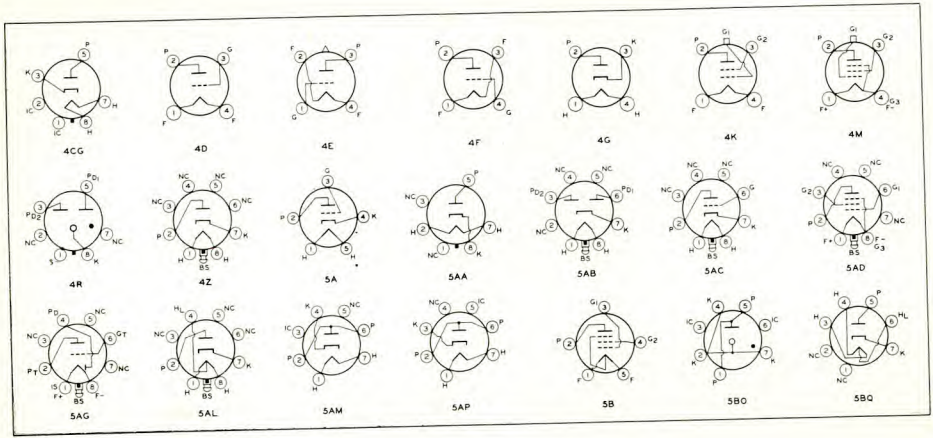
BC = Base Sleeve
BS = Base Shell
DJ = Deflecting Electrode
ES = External Shield
F = Filament
F_M = Filament Mid-Tap
FT = Fluorescent Target

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

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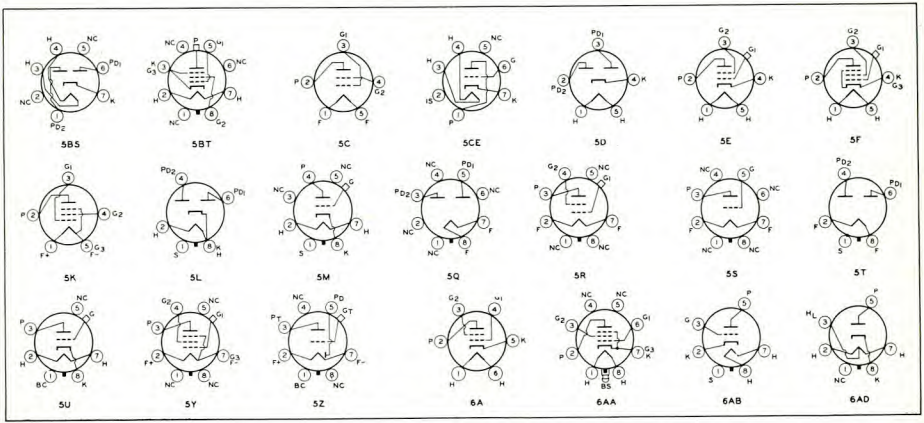
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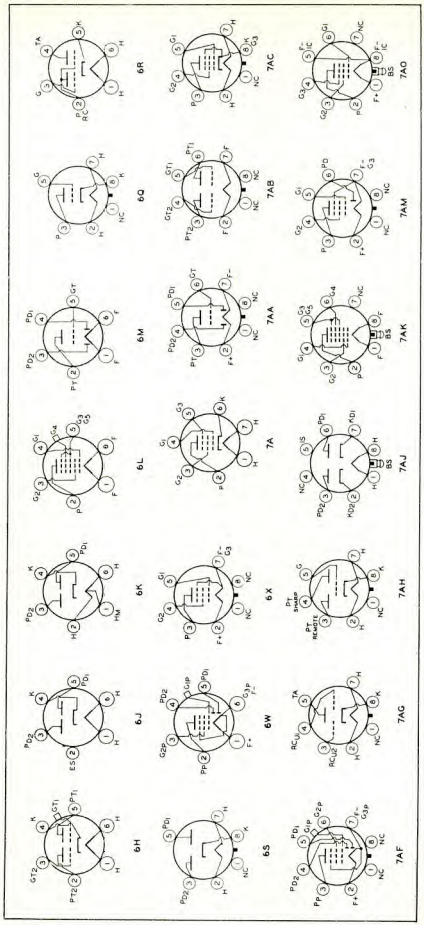
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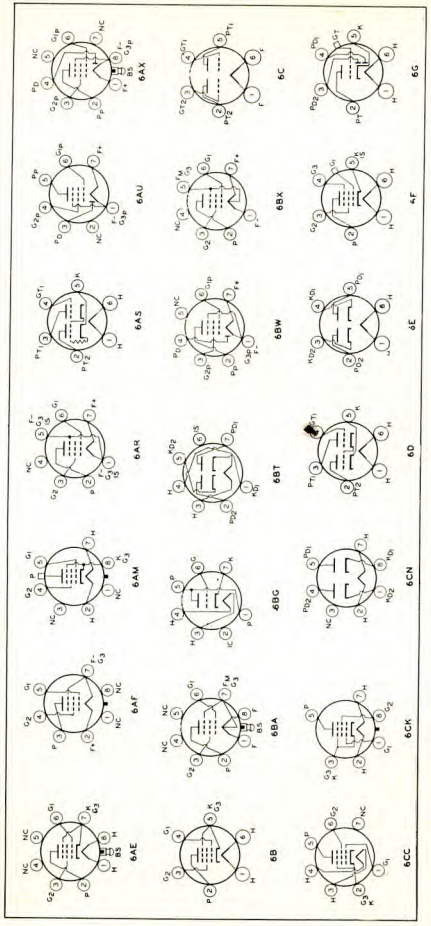
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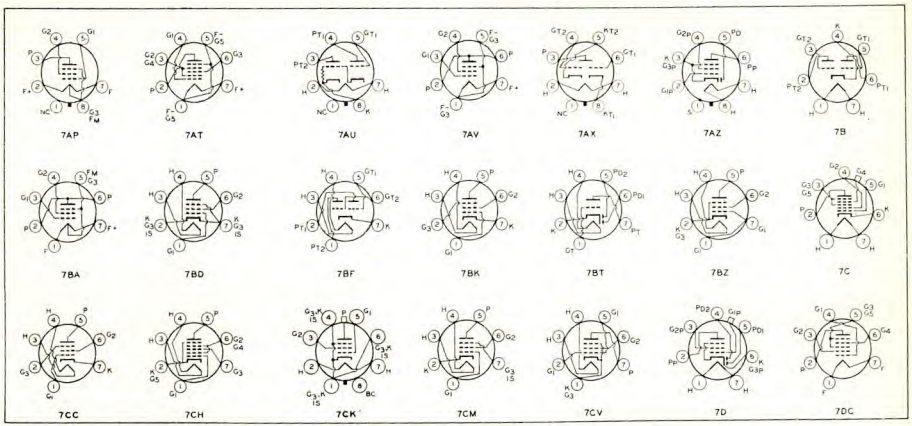
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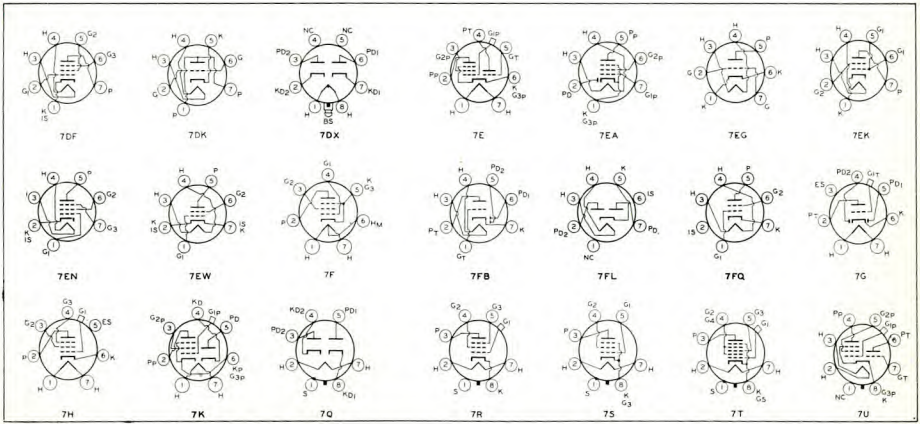
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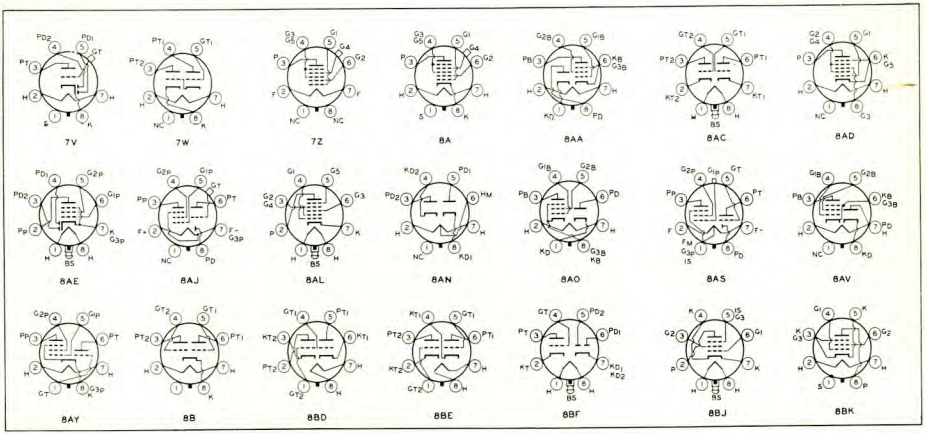
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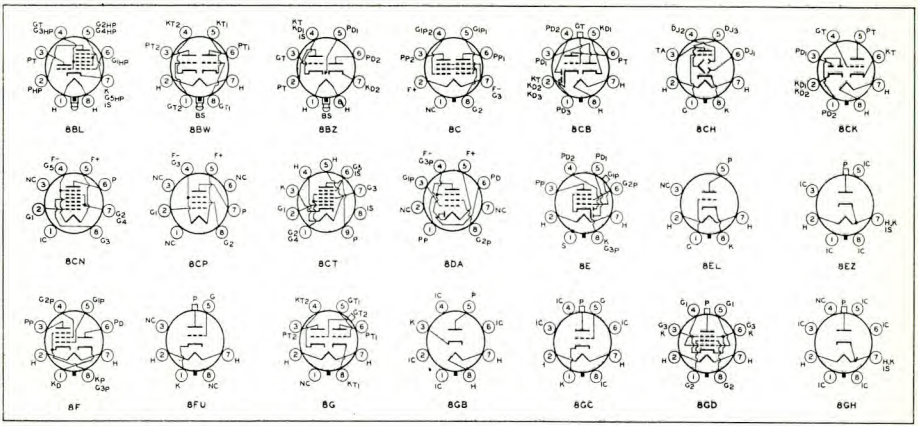
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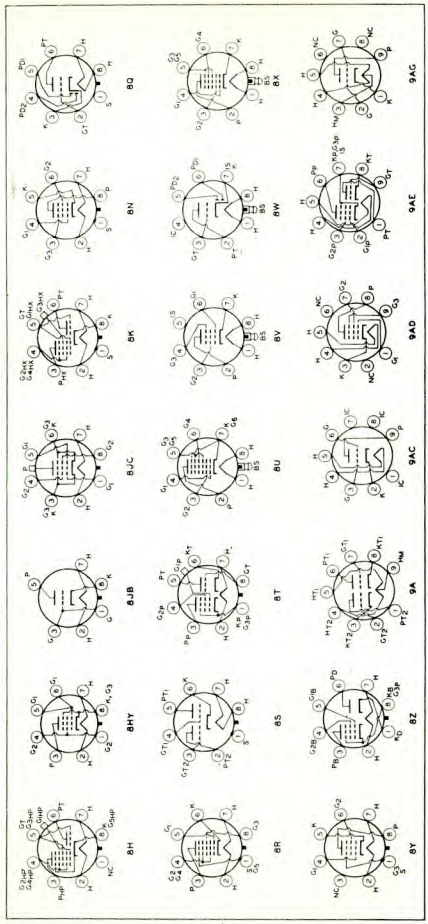
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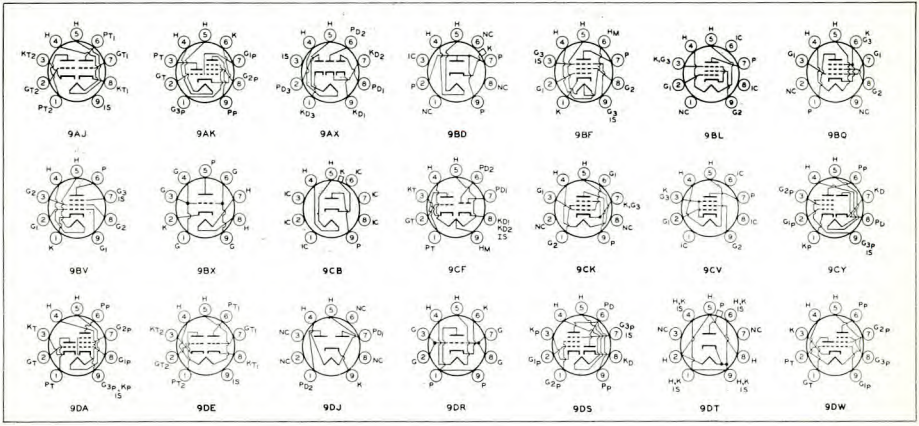
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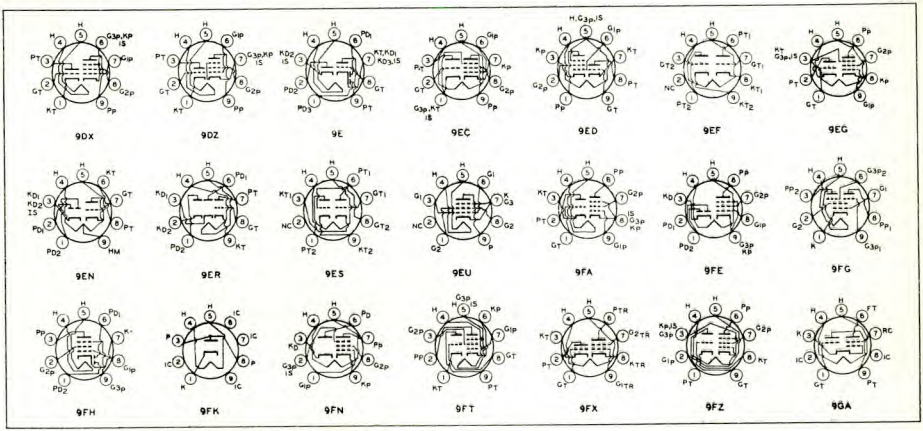
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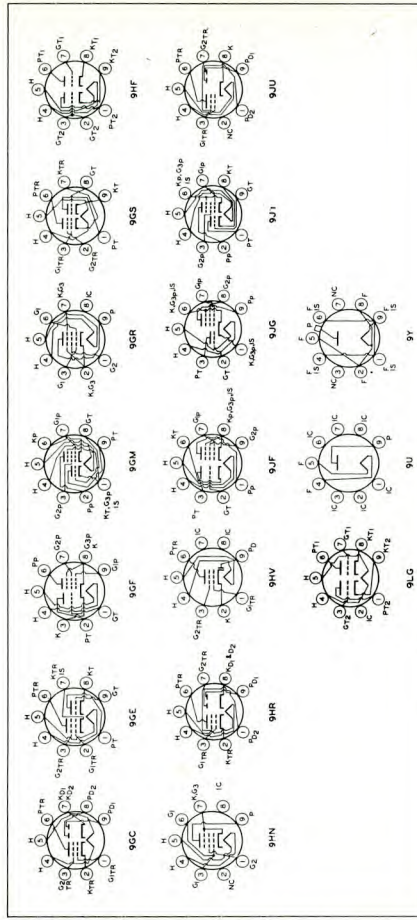
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RCA RECEIVING TUBE CHART II
Covering Types Added After Mid-1959

Type	Name	Tube Dimensions and Basing Diagram		Cathode Type and Rating			Type of Service
		Dimen.	B.D.	C. T.	Volts	Amp.	
2FH5	High-Mu Triode	B0	7FP	H●	2.35	0.6	Class A Amplifier
6CA4	Full-Wave Rectifier	C0a	9M	H	6.3	1.0	With Capacitive Input Filter
6CW4	Nuvistor High-Mu Triode	▶	12AQ	H	6.3	0.13	Class A Amplifier
6EM7	Dual Triode With Dissimilar Units	B5c	8BD	H	6.3	0.9	Vertical Deflection Oscillator (Unit No. 1)
							Vertical Deflection Amplifier (Unit No. 2)
6ER5	High-Mu Triode	B0	7FP	H	6.3	0.18	Class A Amplifier
6EU7	High-Mu Twin Triode	B0a	9LS	H	6.3	0.3	Each Unit as Class A Amplifier
6EV7	High-Mu Twin Triode	B1a	9LP	H	6.3	0.6	Relay-Control Tube
6FE5	Beam Power Tube	C10b	8KB	H	6.3	1.2	Single-Tube Class A Amplifier
							Push-Pull Class A Amplifier
6FH5	High-Mu Triode	B0	7FP	H	6.3	0.2	Class A Amplifier
6FH8	Medium-Mu Triode—Three-Plate Tetrode	B0a	9KP	H	6.3	0.45	Triode as Class A Amplifier
							Tetrode as ◆ Class A Amplifier
6GH8	Medium-Mu Triode—Sharp-Cutoff Pentode	B0a	9AE	H●	6.3	0.45	Horizontal Deflection Oscillator
6GM6	Semiremote-Cutoff Pentode	B0	7CM	H	6.3	0.40	Class A_1 Amplifier
6L6-GC	Beam Power Tube	D6	7AC	H	6.3	0.9	Single-Tube Class A Amplifier
							Push-Pull Class A Amplifier
							Push-Pull Class AB_1 Amplifier
22DE4	Half-Wave Rectifier	C10b	4CG	H●	22.4	0.45	Television Damper Service
35EH5	Power Pentode	B1	7CV	H	6.3	1.2	Class A Amplifier
50FE5	Beam Power Tube	C10b	8KB	H	50.0	0.15	Single-Tube Class A Amplifier
							Push-Pull Class A Amplifier
60FX5	Power Pentode	B1	7CV	H	60.0	0.10	Class A Amplifier
7543	Sharp-Cutoff Pentode	B0	7BK	H	6.3	0.3	Class A Amplifier

◆ Plate No. 1A and plate No. 1B connected to cathode.

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

KEY TO TUBE DIMENSIONS

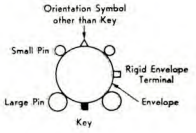
Symbol	Maximum Overall Length	x	Diameter
▶	0.800″	x	0.440″
B0	2-1/8″	x	3/4″
B0a	2-3/16″	x	7/8″
B1	2-5/8″	x	3/4″
B1a	2-5/8″	x	7/8″
B5c	2-7/8″	x	1-5/16″
C0a	3-1/16″	x	7/8″
C10b	3-13/16″	x	1-9/32″
D6	4-1/4″	x	1-9/16″

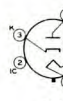
LEGEND FOR BASING DIAGRAMS

Bottom Views

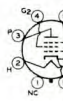
Subscripts D, P and T indicate respectively, diode unit, pentode unit and triode unit in multi-unit types.

G = Grid
H = Heater
IC = Internal Connection–Do Not Use
IS = Internal Shield
K = Cathode
NC = No Connection
P = Plate (Anode)

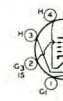




4CG



7AC



7BK

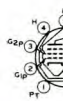
7CM

7CV

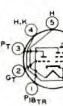
7FP

8BD

8KB



9AE



9KP

9LP

9LS

9M

12AQ

RCA

PICTURE

TUBE

CHARACTERISTICS

CHART ✢

For More Information on a Specific Tube Type, Write to

RCA COMMERCIAL ENGINEERING

HARRISON, N. J.

For footnotes and basing diagrams, see pages 58 through 60.

RCA PICTURE TUBE CHARACTERISTICS CHART (Cont'd)

Type	Envelope	Aluminized Screen	Faceplate	Focusing Method	Deflection Method	Approx. Diagonal Deflection Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor*)‡ Volts	PM Ion-Trap Magnet Min. Gauss
Black-and-White Types										
5TP4*	G	Yes	CL	E	M	50§	Cavity Cap	12C	27000	None
7DP4	G	No	CL	E	M	50§	Cavity Cap	12L	8000	—
7JP4	G	No	CL	E	E□	—	Base Pin	14R	6000	None
8DP4	G	No	FG	E	M	90	Cavity Cap	12AB	8000	31 36
9AP4#	G	No	CL	E	M	40§	Medium Cap	6AL	7000	None
10BP4	G	No	Same as 10BP4-A, except has clear glass faceplate.							
10BP4-A	G	No	FG	M	M	50§	Cavity Cap	12N	12000	—
10FP4-A	G	Yes	FG	M	M	50§	Cavity Cap	12N	12000	None
12AP4#	G	No	CL	E	M	40§	Medium Cap	6AL	7000	None
12KP4-A	G	Yes	FG	M	M	54§	Cavity Cap	12N	12000	None
12LP4	G	No	Same as 12LP4-A, except has clear glass faceplate.							
12LP4-A	G	No	FG	M	M	54§	Cavity Cap	12N	12000	—
14ATP4#	G	Yes	FG	E	M	90	Cavity Cap	12L	14000	None
14BP4	See 14EP4/14CP4/14BP4.									
14CP4	See 14EP4/14CP4/14BP4.									
14EP4	See 14EP4/14CP4/14BP4.									
14EP4/ 14CP4/ 14BP4	G	No	FG	M	M	70	Cavity Cap	12N	14000	29 31
14HP4	G	No	FG	E	M	70	Cavity Cap	12L	14000	29 31
14QP4-A	G	Yes	FG	E	M	70	Cavity Cap	12L	11000	29
14RP4	G	No	Same as 14RP4-A, except has non-aluminized screen.							
14RP4-A	G	Yes	FG	E	M	90	Cavity Cap	12L	14000	36 43
14WP4	See 14WP4/14ZP4.									
14WP4/ 14ZP4	G	Yes	FG	E	M	90	Cavity Cap	12L	14000	None
14ZP4	See 14WP4/14ZP4.									
16AP4	M	No	Same as 16AP4-A, except has clear glass faceplate.							
16AP4-A	M	No	FG	M	M	53§	Metal-Shell Lip	12D	14000	25 29
16DP4-A	G	No	FG	M	M	60§	Cavity Cap	12D	15000	—
16GP4	M	No	Same as 16GP4-B, except has Filterglass faceplate.							
16GP4-A	M	No	Same as 16GP4-B, except has clear glass faceplate.							
16GP4-B	M	No	FFG	M	M	70§	Metal-Shell Lip	12D	14000	29
16GP4-C	M	No	Same as 16GP4-B, except has frosted clear glass faceplate.							
16KP4	See 16RP4/16KP4.									
16KP4-A	See 16RP4-A/16KP4-A.									
16LP4-A	G	No	FG	M	M	52§	Cavity Cap	12N	14000	—
16RP4	See 16RP4/16KP4.									
16RP4/ 16KP4	G	No	Same as 16RP4-A/16KP4-A, except has non-aluminized screen.							
16RP4-A	See 16RP4-A/16KP4-A.									
16RP4-A/ 16KP4-A	G	Yes	FG	M	M	70	Cavity Cap	12N	16000	29 31
16TP4	G	No	FG	M	M	70	Cavity Cap	12N	14000	29 31
16WP4-A	G	No	FG	M	M	70§	Cavity Cap	12N	16000	—
17ATP4	See 17AVP4/17ATP4.									
17ATP4-A	See 17AVP4-A/17ATP4-A.									

RCA PICTURE TUBE CHARACTERISTICS CHART (Cont'd)

RCA Type	Envelope	Aluminized Screen	Faceplate◎	Focusing Method	Deflection Method	Approx. Diagonal Deflection Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor*)† Volts	PM Ion-Trap Magnet Min. Gausses
Black-and-White Types (Cont'd)										
17AVP4	See 17AVP4/17ATP4.									
17AVP4/ 17ATP4	G	No	Same as 17AVP4-A/17ATP4-A, except has non-aluminized screen.							
17AVP4-A	See 17AVP4-A/17ATP4-A.									
17AVP4-A/ 17ATP4-A	G	Yes	FG	E	M	90	Cavity Cap	12L	16000	31 33
17BJP4	G	Yes	FG	E	M	90	Cavity Cap	12L	16000	None
17BP4-A	G	No	Same as 17BP4-B, except has non-aluminized screen.							
17BP4-B	G	Yes	FG	M	M	70	Cavity Cap	12N	16000	29 31
17BRP4	See 17BZP4/17CAP4/17CKP4/17BRP4.									
17BVP4	G	Yes	FG	E	M	110	Cavity Cap	7FA	16000	33
17BZP4	See 17BZP4/17CAP4/17CKP4/17BRP4.									
17BZP4/ 17CAP4/ 17CKP4/ 17BRP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	16000	None
17CAP4	See 17BZP4/17CAP4/17CKP4/17BRP4.									
17CDP4#	G	Yes	FG	E	M	110	Cavity Cap	8HR	16000	None
17CFP4	G	Yes	FG	E	M	90	Cavity Cap	12L	16000	None
17CKP4	See 17BZP4/17CAP4/17CKP4/17BRP4.									
17CP4	M	No	FFG	M	M	70	Metal-Shell Lip	12D	16000	29 31
17CP4-A	M	No	Same as 17CP4, except has Filterglass faceplate.							
17CYP4	G	Yes	FG	E	M	90	Cavity Cap	12L	16000	None
17DAP4#	G	Yes	FG	E	M	110	Cavity Cap	8JK	16000	None
17DKP4	G	Yes	FG	E	M	110	Cavity Cap	8JR	18000	None
17DSP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	18000	None
17DTP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	16000	None
17DXP4▲	G	Yes	FG	E	M	110	Cavity Cap	8JR	16000	None
17GP4	M	No	FFG	E	M	70	Metal-Shell Lip	12M	16000	29 31
17HP4	See 17HP4/17RP4.									
17HP4/ 17RP4	G	No	Same as 17HP4-B/17RP4-C, except has non-aluminized screen.							
17HP4-B	See 17HP4-B/17RP4-C.									
17HP4-B/ 17RP4-C	G	Yes	FG	E	M	70	Cavity Cap	12L	16000	31 33
17JP4	G	No	FG	M	M	70	Cavity Cap	12N	18000	31 33
17LP4	See 17LP4/17VP4.									
17LP4/ 17VP4	G	No	Same as 17LP4-A/17VP4-B, except has non-aluminized screen.							
17LP4-A	See 17LP4-A/17VP4-B.									
17LP4-A/ 17VP4-B	G	Yes	FG■■	E	M	70	Cavity Cap	12L	16000	31 33
17QP4	G	No	FG■■	M	M	70	Cavity Cap	12N	16000	29 31
17QP4-A	G	Yes	FG■■	M	M	70	Cavity Cap	12N	18000	29 31
17RP4	See 17HP4/17RP4.									
17RP4-C	See 17HP4-B/17RP4-C.									

RCA PICTURE TUBE CHARACTERISTICS CHART (Cont'd)

RCA Type	Envelope	Aluminized Screen	Faceplate	Focusing Method	Deflection Method	Approx. Diagonal Deflection Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor*) Volts	PM Ion-Trap Magnet Min. Gausses
Black-and-White Types (Cont'd)										
17TP4	M	No	FFG	E	M	70	Metal-Shell Lip	12M	16000	31 33
17VP4	See 17LP4/17VP4.									
17VP4-B	See 17LP4-A/17VP4-B.									
19AP4	M	No	Same as 19AP4-B, except has clear glass faceplate.							
19AP4-A	M	No	Same as 19AP4-B, except has Filterglass faceplate.							
19AP4-B	M	No	FFG	M	M	66§	Metal-Shell Lip	12D	16000	29 31
19AP4-D	M	No	Same as 19AP4-B, except has frosted clear glass faceplate.							
19XP4	G	Yes	FG	E	M	114	Cavity Cap	8HR	20000 ✓	None
20CP4	G	No	FG	M	M	70	Cavity Cap	12D	18000	31 33
20CP4-A	See 20DP4-A/20CP4-A.									
20CP4-D	See 20DP4-C/20CP4-D.									
20DP4-A	See 20DP4-A/20CP4-A.									
20DP4-A/ 20CP4-A	G	No	Same as 20DP4-C/20CP4-D, except has non-aluminized screen.							
20DP4-C	See 20DP4-C/20CP4-D.									
20DP4-C/ 20CP4-D	G	Yes	FG	M	M	70	Cavity Cap	12N	18000	31 33
20HP4-A	See 20HP4-A/20MP4.									
20HP4-A/ 20MP4	G	No	Same as 20HP4-D, except has non-aluminized screen.							
20HP4-D	G	Yes	FG	E	M	70	Cavity Cap	12L	16000	31 33
20MP4	See 20HP4-A/20MP4.									
21ACP4-A	See 21ACP4-A/21BSP4/21AMP4-A.									
21ACP4-A/ 21BSP4/ 21AMP4-A	G	Yes	FG	M	M	90	Cavity Cap	12N	20000	33 35
21ALP4-A	See 21ALP4-B/21ALP4-A									
21ALP4-B	See 21ALP4-B/21ALP4-A									
21ALP4-B/ 21ALP4-A	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	33 35
21AMP4-A	See 21ACP4-A/21BSP4/21AMP4-A.									
21AP4	M	No	FFG	M	M	70	Metal-Shell Lip	12D	18000	31 33
21ATP4	See 21ATP4-A/21ATP4.									
21ATP4-A	See 21ATP4-A/21ATP4.									
21ATP4-A/ 21ATP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	33 35
21AUP4	See 21AVP4/21AUP4.									
21AUP4-A	See 21AVP4-B/21AUP4-B/21AVP4-A/21AUP4-A.									
21AUP4-B	See 21AVP4-B/21AUP4-B/21AVP4-A/21AUP4-A.									
21AVP4	See 21AVP4/21AUP4.									
21AVP4/ 21AUP4	G	No	FG	E	M	72	Cavity Cap	12L	18000	33 35
21AVP4-A	See 21AVP4-B/21AUP4-B/21AVP4-A/21AUP4-A.									
21AVP4-B	See 21AVP4-B/21AUP4-B/21AVP4-A/21AUP4-A.									
21AVP4-B/ 21AUP4-B/ 21AVP4-A/ 21AUP4-A	G	Yes	FG	E	M	72	Cavity Cap	12L	20000	33 35
21AWP4	G	Yes	FG	M	M	72	Cavity Cap	12N	18000	33 35
21BSP4	See 21ACP4-A/21BSP4/21AMP4-A.									

RCA PICTURE TUBE CHARACTERISTICS CHART (Cont'd)

RCA Type	Envelope	Aluminized Screen	Faceplate	Focusing Method	Deflection Method	Approx. Diagonal Deflection Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor +) Volts	PM Ion-Trap Magnet Min. Gausses
Black-and-White Types (Cont'd)										
21BTP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	33
21CBP4-A	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	None
21CEP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	18000	None
21CQP4	G	Yes	FG	E	M	110	Cavity Cap	7FA	18000	None
21CXP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000•	None
21CZP4	See 21DEP4-A/21DEP4/21CZP4.									
21DAP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	18000	None
21DEP4	See 21DEP4-A/21DEP4/21CZP4.									
21DEP4-A	See 21DEP4-A/21DEP4/21CZP4.									
21DEP4-A/ 21DEP4/ 21CZP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	20000	None
21DFP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	18000	None
21DLP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	None
21DSP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000•	None
21EAP4[%]	G	Yes	FG	E	M	110	Cavity Cap	8JK	18000	None
21EMP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	18000	None
21EP4	G	No	Same as 21EP4-A, except has no external conductive coating.							
21EP4-A	G	No	Same as 21EP4-B, except has non-aluminized screen.							
21EP4-B	G	Yes	FG**	M	M	70	Cavity Cap	12N	18000	31 33
21EQP4	G	Yes	FG	E	M	110	Cavity Cap	8JR	18000	None
21FP4-A	G	No	Same as 21FP4-C, except has non-aluminized screen.							
21FP4-C	G	Yes	FG**	E	M	70	Cavity Cap	12L	18000	33
21MP4	M	No	FFG	E	M	70	Metal-Shell Lip	12M	16000	33
21WP4	G	No	Same as 21WP4-A, except has non-aluminized screen.							
21WP4-A	G	Yes	FG	M	M	70	Cavity Cap	12N	18000	33
21XP4-A	G	Yes	FG	E	M	70	Cavity Cap	12L	18000	35
21YP4	G	No	Same as 21YP4-A, except has non-aluminized screen.							
21YP4-A	G	Yes	FG	E	M	70	Cavity Cap	12L	18000	33
21ZP4-A	G	No	Same as 21ZP4-B, except has non-aluminized screen.							
21ZP4-B	G	Yes	FG	M	M	70	Cavity Cap	12N	18000	33 35
23CP4[¶]	G	Yes	FG	E	M	110	Cavity Cap	8HR	20000	None
23EP4[¶]	G	Yes	FG	E	M	110	Cavity Cap	8KP	20000•	None
23MP4	G	Yes	FG	E	M	114	Cavity Cap	8HR	22000•♂	None
23NP4	G	Yes	FG	E	M	114	Cavity Cap	8HR	22000•♂	None
24ADP4	See 24ADP4/24VP4-A/24CP4-A/24TP4.									
24ADP4/ 24VP4-A/ 24CP4-A/ 24TP4	G	Yes	FG	M	M	90	Cavity Cap	12N	22000	33 35

RCA PICTURE TUBE CHARACTERISTICS CHART (Cont'd)

Type	Envelope	Aluminized Screen	Faceplate⊙	Focusing Method	Deflection Method	Approx. Diagonal Deflection Angle Degrees	High Voltage Terminal	Basing	Maximum Final High-Voltage Electrode (Ultor)‡‖ Volts	PM Ion-Trap Magnet Min. Gausses
Black-and-White Types (Cont'd)										
24AEP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	None
24AHP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	20000	None
24ATP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000*	None
24AUP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	None
24BAP4	G	Yes	FG	E	M	110	Cavity Cap	8HR	20000*	None
24CP4-A	See 24ADP4, 24VP4-A, 24CP4-A, 24TP4.									
24DP4-A	See 24DP4-A, 24YP4.									
24DP4-A/ 24YP4	G	Yes	FG	E	M	90	Cavity Cap	12L	20000	33 33
24TP4	See 24ADP4, 24VP4-A, 24CP4-A, 24TP4.									
24VP4-A	See 24ADP4, 24VP4-A, 24CP4-A, 24TP4.									
24YP4	See 24DP4-A, 24YP4.									
27EP4	G	Yes	FG	M	M	90	Cavity Cap	12D	20000	38
27MP4	M	Yes	FFG	M	M	90	Metal-Shell Lip	12D	18000	33
27RP4	G	Yes	FG	M	M	90	Cavity Cap	12N	20000	—
Color Types										
15GP22**♦	G	Yes	CL	E	M	45§	Metal Flange	20A	20000	None
21AXP22♦	M	Yes	FG	E	M	70§	Metal-Shell	14W	25000	None
21AXP27-A♦	M	Yes	FG	E	M	70§	Metal-Shell	14AH	25000	None
21AYP22-A/ 21AXP22♦	M	Yes	FG	E	M	70§	Metal-Shell	14W	25000	None
21CYP22♦	G	Yes	FG	E	M	70§	Two Cavity Caps	14AL	25000	None
21CYP22-A♦	G	Yes	FG	E	M	70§	Two Cavity Caps	14AL	25000	None

-‡- Active RCA Picture Tube types shown here can replace more than 250 different types of industry picture tubes. The RCA Picture Tube Replacement and Interchangeability Chart is available on request.

Discontinued types are indicated by light type face.

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

E Electrostatic.

■ Projection type.

○ Spherical, unless otherwise specified.

▬ Cylindrical faceplate.

** This type has a flat, aluminized, Filter-glass, phosphor-dot, screen plate.

♦ 6.3-volt, 1.8-ampere heater; three heaters paralleled internally.

◀ 6.3-volt, 1.6-ampere heater; three heaters paralleled internally.

§ Horizontal deflection angle.

↗ Design-Maximum Value.

2.68-volt, 450-milliampere heater.

♉ 2.35-volt, 600-milliampere heater.

♣ 6.3-volt, 450-milliampere heater.

G Glass rectangular.

Ⓖ Glass round.

M Metal rectangular.

Ⓜ Metal round.

CL Clear glass.

FG Filterglass.

FFG Frosted Filterglass.

M Magnetic.

¶ Bipanel type.

⊙ Deflection factors (volts dc/in.) for typical operating conditions shown:

D$_1$ & D$_2$ (nearer screen)	D$_3$ & D$_4$ (nearer base)
185 to 245	150 to 204

‡ Design-Center Value, unless otherwise indicated.

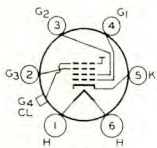
* ULTOR is defined as the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.

♦ Referred to Grid No. 1; Cathode-Drive Service.

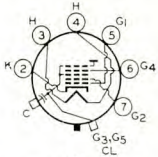
‖ 2.5-volt, 2.1-ampere heater.

♂ 8.4-volt, 450-milliampere heater.

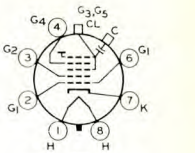
BASING DIAGRAMS FOR RCA PICTURE TUBES



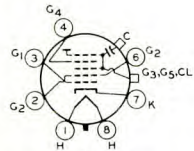
6AL
ULTOR = G_4 + CL
FOCUSING ELECTRODE = G_3



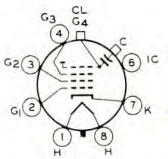
7FA
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4



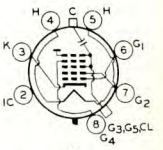
8HR
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4



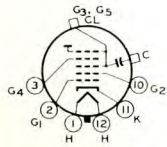
8JK
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4



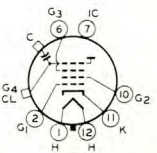
8JR
ULTOR = G_4 + CL
FOCUSING ELECTRODE = G_3



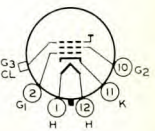
8KP
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4



12AB
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4

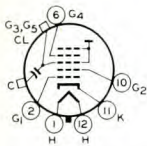


12C
ULTOR = G_4 + CL
FOCUSING ELECTRODE = G_3

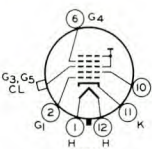


12D
ULTOR = G_3 + CL

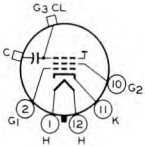
BASING DIAGRAMS FOR RCA PICTURE TUBES (Cont'd)



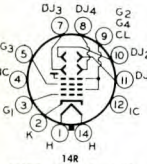
12L
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4



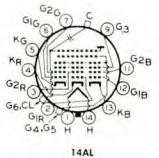
12M
ULTOR = G_3 + G_5 + CL
FOCUSING ELECTRODE = G_4



12N
ULTOR = G_3 + CL

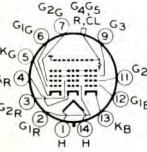


14R
ULTOR = G_2 + G_4 + CL
FOCUSING ELECTRODE = G_3

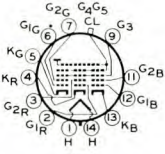


14AL

(14AL)
CAP OVER PIN No. 1:
ULTOR = G_4 + G_5
CAP OVER PIN No. 2:
G_2 + 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 (Ultor Cap).
FOCUSING ELECTRODE = G_3



14AH
ULTOR = G_4 + G_5 + CL + R
FOCUSING ELECTRODE = G_3



14W
ULTOR = G_4 + G_5 + CL
FOCUSING ELECTRODE = G_3

20A
ULTOR = G_5 + G_6 + CL
FOCUSING ELECTRODE = G_3

RCA PREFERRED ENTERTAINMENT TUBE TYPES

For New Equipment Design

The list of Preferred Tube Types is presented to assist equipment manufacturers in formulating their plans for future production of electronic equipment. It is based on a careful survey of the needs of the engineering and manufacturing fields.

By using Preferred Tube Types, electronic-equipment manufacturers can reduce manufacturing costs for the following reasons:

1. LOWER INITIAL COST OF TUBES
2. UNIFORM TUBE QUALITY FROM LONGER PRODUCTION RUNS
3. STANDARDIZATION ON FEWER COMPONENTS
4. BETTER TUBE AVAILABILITY
5. CUSTOMER SATISFACTION

This list is subject to change resulting from technological advances in tube design and application. Such changes will be incorporated in revised issues of this list, which will be available on request.

RCA PREFERRED ENTERTAINMENT TUBE TYPES

RADIO RECEIVER AND PHONOGRAPH APPLICATIONS

RECTIFIERS and DIODE DETECTORS	CONVERTERS	AMPLIFIERS, OSCILLATORS, MIXERS						OUTPUT AMPLIFIERS
		Triodes		Triode-Pentode	Pentodes			
		Twin	With Diodes		Sharp Cutoff	Remote Cutoff	With Diode	
	1R5				1U4		1U5	3V4
5U4-GB	6BE6	6CG7	6AV6	7199*	6AU6	6BA6		6AQ5-A 6973*
5Y3-GT	6DT8	7025*▲						6L6-GC 7027-A*
6AL5	6U8-A							6V6-GT
35W4	12BE6	12AX7▲	12AV6		12AU6	12BA6		25EH5 35C5
	12DT8							50EH5

*For Higher-Fidelity applications.

▲Tapped heater, for 6.3-volt or 12.6-volt operation.

RCA PREFERRED ENTERTAINMENT TUBE TYPES

TELEVISION RECEIVER APPLICATIONS

TUNER TUBES		AMPLIFIERS				
RF Amplifiers	Oscillators Mixers	IF		Video	Audio	Deflection
2CY5 6BC8 6BQ7-A 6CY5	2AF4-A 5CG8 6AF4-A 6CG8-A	3BZ6 6AM8-A 6BZ6	3CB6 6AU6 6CB6-A	6AW8-A 8AW8-A 12BY7-A	5AQ5 6AQ5-A 6AV6 12CU5/12C5	6CD6-GA 6CM7 6DQ5 6DQ6-A 6EM5 8EM5 12DQ6-A

DEFLECTION OSCILLATORS & CONTROL TYPES	DETECTORS		RECTIFIERS			HIGH-VOLTAGE REGULATOR
	Sound	Video	High-Voltage	Low-Voltage	Damper Types	
5U8 6CG7 6CM7 6CS6 6U8-A	3DT6 6DT6	6AM8-A	1B3-GT 1V2 3A3	5U4-GB 5Y3-GT	6AU4-GTA 6AX4-GT 12AX4-GTA	6BK4

PICTURE TUBES

Application	Portable		Table & Console			De Luxe Console	Color
Type	17BZP4	17DKP4	21CEP4	21DAP4	21EQP4	24AHP4	21CYP22-A
Diag. Defl. Angle	110°	110°	110°	110°	110°	110°	70°
Neck) 5 7/16"	x		x	x		x	
Length) 3 9/16"		x			x		
Features		♦					#

♦Light-weight Type.

#All-Glass Envelope.

NUVISTOR

Shown
Actual Size

Nuvistor, an entirely new concept in tube geometry with metal shell and indexing lugs. It represents a major breakthrough in size, weight (approx. 1/15 oz.), performance, power drain, quality and reliability, providing the basis for a complete line of small, rugged, highly versatile receiving tubes. Heater cathode type.

7586* Medium-Mu Triode

General Purpose Type for Critical Industrial Applications.

6CW4 High-Mu Triode

For use as a grounded-cathode, neutralized rf amplifier in vhf tuners of TV and FM receivers.

Type	Cathode		Maximum Dimensions Inches		Maximum Ratings				
					Plate Supply Volts	Plate Volts	Plate Dissipation Watts	Cathode Current Ma.	Plate Current Ma.
	Volts	Amps.	Length	Diam.					
7586	6.3	0.14	0.800	0.440	330	110	1.0	2.0†	20
6CW4	6.3	0.13	0.800	0.440	300	125	1.0	15	—

Characteristics—Class A_1 Amplifier

Type	Plate Supply Volts	Plate Volts	Grid Supply Volts	Cathode Resistor Ohms	Grid-Circuit Resistance Ohms	Amplification Factor	AC Plate Resistance (Approx.) Ohms	Transconductance Micromhos	Plate Current Ma.
7586	— 75	26.5 —	0 0	— 130	500000 —	31 33	4400 2900	7000 11500	2.8 10.5
6CW4	110	—	0	130	500000	62	6300	9800	7.6

*Tests and controls include: Shock, fatigue, variable frequency vibration, high altitude, heater cycling, intermittent shorts, interelectrode leakage. Early hour stability, 100-hr. and 1000-hr. performance life tests.

† Grid current

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▲	
		Length	Diam.		DC Volts	Dissipation Watts
TRIODES (AIR-COOLED)						
3C33	12.6	3 11/16	2 3/8	11 ♀	±2000□	15 ♀
801-A	7.5	5 3/8	2 1/16	8	600	20
805	10	8 1/2	2 5/16	variable	1500	125
808	7.5	6 1/16	2 13/16	47	2000†	75†
809	6.3	6 9/16	2 7/16	50	1000†	30†
810	10	8 3/4	2 1/4 *	36	2500†	175†
811-A	6.3	6 15/32	2 7/16	160	1500†	65†
812-A	6.3	6 15/32	2 7/16	29	1500†	65†
826	7.5	3 11/16	2 3/8	31	1000†	55†
830-B	10	6 11/16	2 1/16	25	1000	60
833-A	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 1/8	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 1/4 *	16.5	2500†	175†
8005	10	6 11/16	2 7/16	20	1500†	85†
8025-A	6.3	4 15/16	1 5/64 *	18	1000†	30†

†For Intermittent Commercial and Amateur Service.

▲Absolute 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▲	
		Length	Diam.		DC Volts	Dissipation Watts
TRIODES (WATER-COOLED)						
9C21	19.5	24½	9½	40	17000	40000
207	22	20¼♦	6 15/32*	20	15000	10000
880	12.6	11½	7	20	10500	20000
889-A	11	10 11/16	3⅝	21	8500	5000
891	11#	20⅞	6 15/32*	8.5	12000	6000
892	11#	20⅞	6 15/32*	50	15000	10000
893-A	10#	26¾	6 7/16*	34.5	20000	20000
5770	11	24½	9½	40	17000	50000
5771	7.5	11 5/16	7	20	12500	22500
6383	6.3	4 9/32	1.760	25	1500	600
6949	7.5	40	10.06	60	20000	400000
TRIODES (FORCED-AIR-COOLED)						
2C39-A	6.3	2¾	1 17/64	100	1000	100
4C33	5	4⅞	2 1/16	25	13000¶	250
9C22	19.5	25	17	41	17000	20000
9C25	6	17⅜	14¼	32	11500	17500
833-A	10	8 13/16	4 19/32	35	4000	450
889R-A	11	11⅞	5 15/32*	21	8500	5000
891-R	11#	22	6 15/32*	8.5	10000	4000
892-R	11#	22	6 15/32*	50	12500	4000
893A-R	10#	28	8 13/16	34.5	20000	20000
5588	6.3	3 13/32	1.76	16	1000	200
5671	11	25	8.5*	40	15000	25000
5713	3.3	4⅞	2 1/16	25	1500	250
5762/7C24	12.6	7⅛♦	4 11/16	29	6200	3000
5786	11	9⅝	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
TETRODES (AIR-COOLED)						
860	10	8¾♦	4¼*	1100∅	3000	100
861	11	17 17/32	6⅝*	2400∅	3500	400
865	7.5	5¾	2 1/16	750∅	750	15

*Maximum Radius. #Per Section.
▲Absolute values for Continuous Commercial Service, unless otherwise specified.
¶Peak Positive-Pulse Plate-Supply Volts.
♦Excluding Flexible Leads.
∅Transconductance.

RCA Quick Selection Guide

VACUUM POWER TUBES

Type	Heater or Filament Volts	Maximum Dimensions Inches		Transconductance*	Max. Plate Ratings▲	
		Length	Diam.	Micromhos	DC Volts	Dissipation Watts
TETRODES (WATER-COOLED)						
8D21	3.2	12 29/32	5 3/4	5§ ♀	6000	6000
TETRODES (FORCED-AIR-COOLED)						
6166	5	11.63	6.38	10§	6900	10000
6166A	5	11.5	6.38	10§	7000	10000
BEAM POWER TUBES (FORCED-AIR-COOLED)						
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
4-1000A	7.5	9 5/8	5 1/4	7 §	6000	1000
4X150A	6	2 15/32	1.635	5 §	1250	150
4X150D	Same as 4X150A but has 26.5-volt heater.					
4X500A	5	4 3/4	2 5/8	6.2§	4000	500
827-R	7.5	6 3/8♦	4 11/16	16 §	3500	800
6155/4-125A	5	5 3/32	2 7/16	6.2§	3000	125
6156/4-250A	5	5 23/32	3 1/16	5.1§	4000	250
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 15/32	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. ♣For severe shock and vibration.

♀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§	2000	250
7204/4CX250F	Same as 7203/4CX250B but has 26.5-volt heater.					
7213	5.5	3.34	3.75	17 §	2500	1500
7214	See Technical Bulletin.□					
7270	6.3	4.73	2.06	8 §	1350†	80†
7271	Same as 7270 but has 13.5-volt heater					
7457	See Technical Bulletin.♦					
7580	See Technical Bulletin.					
7649	See Technical Bulletin.□					
7650	6.3	2.40	2.07	13 §	2500	600
7651	See Technical Bulletin.□					

BEAM POWER TUBES AND PENTODES (AIR-COOLED)

Type	Heater or Filament Volts	Maximum Dimensions Inches		Transconductance	Max. Plate Ratings▲	
		Length	Diam.	Micromhos	DC Volts	Dissipation Watts
2E24	6.3	$3^{21}/_{32}$	$1^{5}/_{16}$	7.5§	600†	13.5†
2E26	6.3	$3^{21}/_{32}$	$1^{5}/_{16}$	6.5§	600†	13.5†
3E29	Similar to type 829-B but for pulsed operation.					
4E27/8001	5	$6^{3}/_{16}$	$2^{11}/_{16}$	2800	4000	75
4E27A/ 5-125B	5	$6^{3}/_{16}$	$2^{3}/_{4}$	2150	4000	125
802	6.3	$5^{3}/_{4}$	$2^{1}/_{16}$	2250	600†	13†
803	10	$9^{1}/_{4}$	$2^{9}/_{16}$	4000	2000	125
804	7.5	$7^{11}/_{16}$	$2^{1}/_{16}$	3250	1500†	50†
807	6.3	$5^{3}/_{4}$	$2^{1}/_{16}$	6000	750†	30†
813	10	$7^{1}/_{2}$	$2^{9}/_{16}$	3750	2250†	125†
814	10	$7^{11}/_{16}$	$2^{1}/_{16}$	3300	1500†	65†
815∅	6.3/12.6	$4^{9}/_{16}$	$2^{3}/_{8}$	4000 •	500†	25†

▲Absolute values for Continuous Commercial Service.
†For Intermittent Commercial and Amateur Service.
§Grid-Screen Mu-Factor.
∅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	Max. Plate Ratings▲	
		Length	Diam.	Micro-mhos	DC Volts	Dissi-pation Watts
828	10	7 11/16	2 1/16	2700	1500†	80†
829-B∅	6.3/12.6	4 5/16	2 3/8	8500 •	750†	40†
832-A∅	6.3/12.6	3 5/16	2 3/8	3500 •	750†	20†
837	12.6	5 3/4	2 1/16	3400	500	12
1613	6.3	3 1/4	1 5/16	2500	350	10
1614	6.3	4 5/16	1 5/8	6050	450†	25†
1619	2.5	4 5/16	1 5/8	4500	400	15
1624	2.5	5 3/4	2 1/16	4000	600	25
1625	12.6	5 3/4	2 1/16	6000	750†	30†
5618	3.0/6.0	2 5/8	3/4	3600	300†	5†
5763	6	2 5/8	7/8	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.					
6524∅	6.3	3 9/16	1 11/16	4500 •	600†	25†
6850	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.					
7054	13.5	2 5/8	.875	11500	300	5
7060*	13.5	2 3/16	.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.□					
7558	6.3	2 5/8	7/8	5300	300	12†

BEAM POWER TUBES AND PENTODES (Water-Cooled)

6448	1.35 •	7.97	11.38	8§§	7000	26000
6806	1.35 •	7.97	11.38	8§§	9000	35000
6952¶	0.95	8.93	11.25	7§	55000✤	8000

▲Absolute values for Continuous Commercial Service.
†For Intermittent Commercial and Amateur Service.
§Grid-Screen Mu-Factor.
∅Twin Unit Type. ¶Gov't end use only.
• Per section.
□Pulse Type.
✤Peak Positive-Pulse Supply Value.
*Includes a triode unit.

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					
0A2	2⅝	¾	151	5	30
0A3	4⅛	1 9/16	75	5	40
0B2	2⅝	¾	108	5	30
0C2	2⅝	¾	75	5	30
0C3	4⅛	1 9/16	108	5	40
0D3	4⅛	1 9/16	153	5	40
991	1 9/16	⅝	59	0.4	2
5651*	2⅛	¾	87	1.5	3.5
6073/0A2	2⅝	¾	151	5	30
6074	2⅝	¾	108	5	30

Type	Dimensions Inches		Max. Ratings		
	Length	Diam.	Peak Anode Volts	Peak Cathode Ma.	Av. Cathode Ma.
RELAY TYPES					
0A4-G	4⅛	1 9/16	225	100	25
1C21	2⅝	1 5/16	180	100	25
5823	2⅛	¾	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					
2X2-A	2.5	4 17/32	1 9/16	12500†	0.0075†#
5R4-GY□	5	5 5/16	2 1/16	2400	0.175†
5R4-GYB□	5	4¼	1 9/16	2650△	0.250△
579-B	2.5	7 7/16	2 1/16	20000	0.025
836	2.5	6 9/16	2 7/16	5000	0.25
878	2.5	7⅝	1 13/16	20000	0.005
1616	2.5	6 13/16	2 1/16	6000	0.13
5825	1.6	5 27/32	2 1/16	60000	0.002
8013-A	2.5	6 1/16	2 1/16	40000	0.020
8020	5	8	2 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	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Av. Amp.
MERCURY-VAPOR TYPES					
83□	5	5 3/8	2 1/16	1550†	0.225†
575-A	5	11 1/8	3 1/8	15000	1.5
673	5	11 7/16	3 1/8	15000	1.5
816	2.5	4 11/16	1 9/16	7500	0.125
857-B	5	19 7/8♦	7 1/8	22000	10
866-A	2.5	6 9/16	2 7/16	10000	0.25
869-B	5	14 7/16	5 1/8	20000	2.5
872-A	5	8 1/2	2 5/16	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11 1/4	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	8 3/4	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	4 1/4	1 9/16	1250	1.0
C3J/5632	2.5	6	1 9/16	1250	2.5
C3J-A/5684	2.5	6	1 9/16	1250	2.5
C6J/5C21	2.5	9 1/2	2 1/32	1250	6.4
C6J-A/5685	2.5	9 1/2	2 1/32	1250	6.4
C16J/5665	2.5	10 1/2♦	2 11/16	1250	18
3C23	2.5	6 1/8	2 1/16	1250	1.5
627	2.5	7	2 7/16	2500	0.64
629	2.5	4 1/4	1 9/16	350	0.04
676	5	11 3/4	3 13/16	2500	6.4
677	5	11 3/4	3 13/16	10000	4.0
884	6.3	4 1/8	1 9/16	350△	0.075♂
885	2.5	4 3/16	1 9/16	350△	0.075♂
5557	2.5	6 1/8	2 1/16	5000	0.5
5559	5	7 1/4	3	1000	2.5
5563-A	5	10 17/32	2 5/8	20000	1.6
6130/3C45	6.3	5 3/16	1 9/16	3000	0.045
TETRODES					
2D21	6.3	2 1/8	3/4	1300	0.1♂
3D22-A	6.3	4 5/8	2 3/8	1500	0.8
105	5	11 1/4♦	2 1/2*	2500	6.4

• For operation up to 50000 ft.
□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.
TETRODES (cont'd)					
172	5	$10^{27}/_{32}$	$2^{5}/_{8}$ *	2000	6.4
502-A	6.3	$2^{5}/_{8}$	$1^{5}/_{16}$	1300	0.1☌
632-B	5.0	$8^{5}/_{16}$	$1^{3}/_{4}$ *	1500	2.5
672-A	5	$8^{1}/_{8}$	$2^{5}/_{16}$	2500	3.2
2050	6.3	$4^{1}/_{8}$	$1^{9}/_{16}$	1300	0.1☌
5560	5	$7^{15}/_{16}$	$2^{1}/_{4}$ *	1000	2.5
5696	6.3	$1^{3}/_{4}$	$^{3}/_{4}$	500	0.025☌
5727	6.3	$2^{1}/_{8}$	$^{3}/_{4}$	1300	0.1☌
6012	6.3	$4^{1}/_{4}$	$1^{23}/_{32}$	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.
5550	(A)	10#	$1^{3}/_{8}$	300	12.1	—	—
5551-A	(B)	$13^{1}/_{2}$#	$2^{1}/_{8}$	600	30.2	1500¶	18 ¶
5552-A	(C)	$15^{1}/_{4}$#	$3^{5}/_{8}$	1200	75.6	—	—
5553-B	(D)	20#	$4^{11}/_{16}$	2400	192.	1500¶	112¶
5555		$18^{1}/_{2}$#	$4^{9}/_{16}$	—	—	2100	150
5822-A		$15^{1}/_{4}$#	$3^{5}/_{8}$	—	—	1500¶	56¶

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	$2^{1}/_{16}$'	$^{13}/_{16}$	90	90	S-1
868	$4^{1}/_{8}$	$1^{1}/_{8}$	100	90	S-1
918	$4^{1}/_{2}$	$1^{1}/_{8}$	90	150	S-1

*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

PHOTOTUBES (cont'd)

Type	Maximum Dimensions Inches		Max. Anode-Supply Volts	Luminous Sensitivity Microamp. Per Lumen	Spectral Response
	Length	Diam.			
GAS TYPES (cont'd)					
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
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 1/16	1 1/8	90	35	S-1
6953	3 1/16	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 1 1/16	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 7/8	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 5/16	250	45	S-4

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 5/16	1500	6 • •	S-11
5819	5 13/16	2 5/16	1250	25 •	S-11
6199	4.57	1.56	1250	27 •	S-11

¶Twin type. *Twin type; each unit has a composite anode-cathode.
• With supply volts=1000. • • With supply volts=1250.

RCA Quick Selection Guide

MULTIPLIER PHOTOTUBES (cont'd)

Type	Max. Dimensions Inches		Max. Anode-Supply Volts	Luminous Sensitivity Amp/Lumen	Spectral Response
	Length	Diam.			
6217	5 13/16	2 5/16	1250	24 •	S-10
6328▲	3.12	1.31	1250	35 •	S-4
6342-A	5.81	2.31	1500	14 • •	S-11
6472▲	2¾ !	1 3/16	1250	35 •	S-4
6655-A	5 13/16	2 5/16	1250	50 •	S-11
6810-A	7½	2⅜	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	11⅛	5¼	3400	180 #	□
7102	4.57	1.56	1500	4.5 • •	S-1
7117▲	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

PHOTOCONDUCTIVE CELLS

Type	Maximum Dimensions Inches			Max. Volts	Luminous Sensitivity Amp/Lumen	Spectral Response
	Overall Length	Width	Depth			
6694-A	0.500	0.375	.220	150	1¶	S-12
6957	2 1/32	1 9/32 Dia.	—	250	1.64¶¶	S-15
7163	0.9	1.26 Dia.	—	250	0.82¶¶	S-15
7412	1.35!	0.30 Dia.	—	200	4.5††	S-15
7536	1.35!	0.30 Dia.	—	200	4.5††	S-15

PHOTOJUNCTION CELLS

Type	Maximum Dimensions Inches		Max. Polarizing Volts	Illumination Sensitivity μA/fc	Spectral Response
	Length	Diam.			
7223	0.580!	0.083	50	0.2	S-14
7224	0.50 !	0.300	50	0.7‡	S-14
7467	0.875	0.35	50	0.7‡	S-14

▲For headlight dimming service. !Excluding flexible leads. • With Supply Volts=1000. • • With Supply Volts=1250. ♦With Supply Volts=2000. ¶With Terminal volts=90 and ambient temp.=25°C. #With Supply Volts=2800. □Extended S-11, with response 2500 to 6500 Angstroms. ¶¶With Terminal Volts=50 and Ambient Temp.=25°C. §§With Supply Volts=2400. §With Supply Volts=1800. ††With Terminal Volts=12 and Ambient Temp.=25°C. ‡With Polarizing Volts=45 at 25°C. †With Supply Volts=1200.

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					
1EP1	4 1/16	1 1/16	1500	210-310	240-350
2AP1-A	7 5/8	1 3/4	1000	195-265	167-225
2BP1	7 13/16	1 3/4	2500	115-155	74-100
3AP1-A	11 7/8	2 3/4	1500	61-91	59-87
3AQP1	9 3/8	2 3/4	2750	73-99	26-35
3BP1-A	10 1/4	2 3/4	2000	85-115	62-85
3JP1◉	10 1/4	2 3/4	4000	85-115	62-85
3KP1	11 3/4	2 3/4	2500	50-68	38-52
3RP1	9 3/8	2 3/4	2500	73-99	52-70
3RP1-A	Same as type 3RP1, except has flat face.				
3WP1	11 5/8	2 3/4	2500	41.5-50.5	28.5-35
5ABP1◉	17 1/8	4 9/16	6000	26-36	18-24
5ADP1◉	16 15/16	4 1/2	6000	26.7-33.3	20.3-25
5BP1-A	17 1/8	4 1/2	2000	35-48	32-44
5CP1-A◉	17 1/8	4 1/2	4000	39-53	33-45
5UP1	15 1/8	4 1/2	2500	28-39	23-31
7VP1	14 7/8	6	4000	31-41	25-34
902-A	7 5/8	1 3/4	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.				
908-A	Same as type 3AP1-A, except for phosphor.				
Short Persistence:					
5FP15-A§	11 1/2	4 1/4	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.				

‡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. Over-all 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:					
3JP7◉	Same as 3JP1, except for phosphor.				
3KP7	Same as type 3KP1, except for phosphor.				
5ABP7◉	Same as type 5ABP1, except for phosphor.				
5AHP7	11⅜	4¼	10000	Elec. focus, mag. defl.	
5AHP7-A	Same as 5AHP7, but has aluminized screen.				
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	13⅜	6	8000	Mag. focus & deflec.	
7MP7	13⅛	6	8000	Mag. focus & deflec.	
10KP7	18	9	10000	Mag. focus & deflec.	
12DP7-A	20⅛	10	10000	Mag. focus & deflec.	
16ADP7	22	14⅜	14000	Mag. focus & deflec.	

MAGNETIC DEFLECTION TYPES

Type	Max. Over-all 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#	12⅞	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 KINESCOPES:					
5AYP4#	11 15/16	4¼	10000	1500	53
5FP4-A	11½	4¼	8000	§	53
PROJECTION KINESCOPES (For Theater Television):					
5AZP4#	12 9/16	4½	40000	9000	50
7NP4★#	20⅛	5x3¾	80000	20000	35
7WP4▲#	20 1/16	5x3¾	80000	20000	35
MONITOR KINESCOPES:					
7CP4	13 13/16	6½	8000	2400	57
7TP4#	13½	6	12000	2000	50
8HP4#	10¼	7 1/16**	14000	1100	90
10SP4#	17	9⅛	20000	3000	50

‡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:

All employ magnetic focus and deflection.

4401 For low-light level pickup in color TV cameras. Suitable for covering prolonged outdoor events where lighting conditions change or for pickup of special nighttime events, such as night baseball.

5820 For both outdoor and studio pickup. Has exceptional sensitivity combined with spectral response approaching that of the eye. Very stable in performance at all incident light levels on the object ranging from bright sunlight to a deep shadow.

6474 For use in color cameras utilizing the method of simultaneous pickup of the studio or outdoor scene to be televised. Capable of producing a picture having natural tone value and accurate detail.

6849 For use in industrial and scientific research television applications involving extremely low light levels. In a standard TV system, can produce signal information with illumination on the photo-cathode as low as 0.00001 foot-candle.

7198 For reliable performance under adverse environmental conditions such as severe shock and vibration, altitudes up to 60,000 ft. wide temperature range and high humidity.

7295-A—4½" type for outdoor and studio pickup with high-quality black-and-white TV cameras. Has larger target area than 3" tubes but uses same optics. Has a high signal-to-noise ratio, excellent resolution capability, good sensitivity and a spectral response approaching that of the eye.

7389-A—4½" type designed primarily to provide extremely high-quality performance in black-and-white studio TV cameras. Has larger target area than 3" tubes but uses same optics. Features exceptionally high signal-to-noise ratio, excellent resolution capability, good sensitivity and a spectral response approaching that of the eye.

7513 For high-quality performance in color cameras utilizing the simultaneous method of pickup, and in black-and-white cameras. Features precision construction for improved registration of images in color-camera equipment.

VIDICONS:

6326 Intended primarily for use in TV cameras for either film or limited-motion live pickup. Has very good sensitivity and resolution.

7038 Broadcast-quality type. For live pickup with black-and-white TV cameras or with color-TV cameras utilizing the method of simultaneous pickup. Also useful for film pickup. No side tip.

7262-A—For use in small, compact, transistorized television cameras, black-and-white or color. Like 7735, but is shorter and has 0.6 watt heater.

VIDICONS (cont'd)

7263 Short, low-heater-power type designed to withstand operating conditions involving severe shock and vibration, altitudes up to 50,000 feet and high humidity.

7735 For telecasting of live scenes in industrial and other closed-circuit TV applications in black-and-white or color TV cameras. Extremely high sensitivity, high resolution capability.

MONOSCOPES

2F21 A 5″ type with Indian-head test pattern for supplying signal to test video performance of TV receivers and transmitters. Utilizes electrostatic focus and magnetic deflection.

1699 Custom-built type like the 2F21 except that its pattern is individually styled to customer requirements.

IMAGE-CONVERTER TUBES

6032 For use with suitable optical systems for viewing a scene with near-infrared radiation.

6032-A—Unilaterally interchangeable with 6032 but is controlled for threshold visibility.

6914 Self-focusing type for use with suitable optical systems for viewing a scene with near-infrared radiation.

6914-A—Unilaterally interchangeable with 6914 but is controlled for threshold visibility.

6929 Small, self-focusing type for use with suitable optical systems for viewing scenes with near-infrared radiation.

7404 Small, self-focusing type for use with suitable optical systems for viewing an object or specimen with near-ultraviolet radiation.

STORAGE TUBES

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

6571 Computer type. For use primarily in binary-digital systems.

6866 5″ direct-view, high-brightness, display type. Electrostatically deflected writing gun with writing speed of about 300,000 inches per second. Thirtyfivar 31-pin base.

7183 5″ direct-view, high-brightness display type. Magnetically deflected writing gun for PPI-type display. Small-button Neoditetrar 8-pin base and Small-button Miniature 7-pin base.

7315 5″ direct-view, high-brightness display type. Electrostatically deflected writing gun with writing speed of about 3,000 inches per second. Diheptal 14-pin base.

7448 Like the 7315, but has a writing speed of about 300,000 inches per second.

7539 Graphechon. For use in data-processing applications where signal information must be transformed continuously from one time base to another. Also provides a means of obtaining bright displays having a continuous range of halftone information under conditions of high ambient illumination.

RCA Quick Selection Guide

MAGNETRONS

4011-A—Tunable from 8750 to 9600 Mc in pulsed-oscillator service. Peak power output is 250 Kw.

6521 Designed and conservatively rated for long, reliable performance as a pulsed oscillator at a fixed frequency of 5400 Mc in weather radar equipment. Peak power output is 85 Kw.

6865-A—Tunable from 8750 to 9600 Mc in pulsed-oscillator service. Peak power output is 230 Kw.

7008 Servo-tunable from 8500-9600 Mc, in pulsed-oscillator service. Peak power output is 230 Kw.

7111 Tunable from 8500 to 9600 Mc in pulsed-oscillator service. Peak power output is 230 Kw.

TRAVELING-WAVE TUBES

4009 Low-power amplifier of the helix-transmission-line type with integral periodic-permanent-magnet focusing. Operates between 2000 and 4000 Mc as a driver for intermediate-power traveling wave amplifiers such as the RCA-4010.

4010 Intermediate-power amplifier type. 1.5 watts saturated power output. Forced-air-cooled. Integral periodic-permanent-magnet focusing.

4015 Intermediate-power amplifier type. 1 watt saturated power output. Forced-air-cooled. Integral periodic-permanent-magnet focusing. Operates between 8000 and 12,000 Mc at altitudes up to 50,000 feet without pressurization.

6861 Low-noise, low-level type intended especially for the input stage of microwave receivers, such as radar, operating in the range of 2700 to 3500 Mc. Has a noise figure of 6.5 db and a gain of approximately 25 db. The rf-input and rf-output transducers are permanently set during manufacture.

VACUUM-GAUGE TUBES

1946 Thermocouple Type. For measuring gas pressures in the range from 1 mm to 0.0001 mm of mercury (1000 to 0.1 micron).

1947 Pirani Type. For measuring gas pressures in the range from 0.5 mm to 0.01 mm of mercury (500 to 10 microns).

1949 Ionization Type, hard-glass construction. For measuring gas pressures below 0.001 mm of mercury (0.1 micron).

1950 Ionization Type. Similar to type 1949, but soft-glass construction.

PENCIL-TYPE TUBES

5675 Medium-Mu Triode. For use in cathode-drive circuits at frequencies up to 3000 Mc. As a local oscillator, it is capable of giving a power output of 475 milliwatts at 1700 Mc.

PENCIL-TYPE TUBES (cont'd)

5876 High-Mu Triode. General-purpose type. For use in cathode-drive circuits as an r-f amplifier, i-f amplifier, or mixer tube up to 1000 Mc; as a frequency multiplier up to 1500 Mc; and as an oscillator up to 1700 Mc. Delivers useful output of 5 watts at 500 Mc as an unmodulated Class C r-f amplifier, and 750 milliwatts as an oscillator at 1700 Mc.

5876-A—Like the 5786 but designed for military and critical industrial application.

5893 Medium-Mu Triode. Designed for use in cathode-drive circuits as a plate-pulsed oscillator up to 3300 Mc and as a cw oscillator, rf power amplifier, and frequency doubler up to 1000 Mc.

6173 UHF Diode. For use in pulse detection and pulse-power-measuring service. May be operated at frequencies as high as 3300 Mc.

6263 Medium-Mu Triode. For use in cathode-drive, rf power amplifiers and oscillators in mobile transmitters operating up to 60,000 feet without pressurization. Under ICAS conditions, gives a useful power output of about 10 watts at 500 Mc in unmodulated Class C amplifier service with a plate input of only 14 watts.

6264-A—Like the 6263 but has a mu of 40. For military and critical industrial applications.

6562/5794-A—Intended for transmitting service in radiosonde applications at 1680 Mc.

7533 Intended for transmitting service in radiosonde applications. Tunable between 1660 and 1700 Mc.

7552 High-Mu, Ceramic-Metal Triode. For use in cathode-drive circuits as low-noise uhf amplifier operating up to 1000 Mc and altitudes of 100,000 feet without pressurization.

7553 Like the 7552 but designed for operation under severe shock and vibration.

7554 High-Mu, Ceramic-Metal Triode. For use in cathode-drive circuits as class C power amplifier, oscillator and frequency multiplier up to 3000 Mc and altitudes of 100,000 feet without pressurization.

TYPES FOR ELECTRONIC-COMPUTER AND OTHER "ON-OFF" CONTROL APPLICATIONS

5915 Pentagrid Amplifier. 7-pin miniature type designed for use as gated amplifier. Grid No. 1 and Grid No. 3 can each be used as independent control electrodes.

5963 Medium-Mu Twin Triode. 9-pin miniature type especially useful in multivibrator applications. Separate terminal for each cathode, and a mid-tapped heater for 6.3-volt or 12.6-volt operation.

5964 Medium-Mu Twin Triode. 7-pin miniature type especially useful in multivibrator applications.

5965 Medium-Mu Twin Triode. 9-pin miniature type especially useful in cathode-follower applications. Separate terminals for each cathode, and a mid-tapped heater for 6.3-volt or 12.6-volt operation.

6197 Sharp-Cutoff Power Pentode. 9-pin miniature type with a transconductance of 11,000 micromhos. Especially useful in pulse-amplifier applications.

6211 Like 5963 except that balance of cutoff bias between the two triode units is closely controlled.

6350 Medium-Mu Twin Triode. 9-pin miniature type, having transconductance per unit = 4600 micromhos. Especially useful in cathode-follower applications in high-speed digital computers. Separate terminals for each cathode, and mid-tapped heater for 6.3-volt or 12.6-volt operation.

6814 Medium-Mu Triode. 8-lead subminiature type. For pulse-amplifier, inverter, and cathode-follower circuits of high-speed digital computers.

6887 Twin diode. 7-pin miniature type. Especially useful in switching circuits of medium-speed electronic computers. Low-wattage heater (only 1.26 watts).

7044 Medium-Mu Twin Triode. 9-pin miniature type, with transconductance per triode unit = 10,000 micromhos. Especially useful in cathode-follower circuits of high-speed digital computers.

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

PREMIUM TUBES

For Military Specifications and Critical Industrial Applications

Type	Prototype▲	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.
6J4-WA*	6J4	High-Mu Triode	7-Pin Min.
6J6-WA*	6J6	Medium-Mu Twin Triode	7-Pin Min.
12AT7-WA*	12AT7	High-Mu Twin Triode	9-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.
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.

*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	Prototype▲	Description	Class
5814-A*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5814-WA*	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5840	—	Sharp-Cutoff Pentode	Subminiature
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	OA2	Voltage Regulator	7-Pin Min.
6073/OA2	OA2	Voltage Regulator	7-Pin Min.
6074	OB2	Voltage Regulator	7-Pin Min.
6074/OB2	OB2	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.
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
6626/OA2-WA*	OA2	Voltage Regulator	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.

TYPES FOR SPECIAL APPLICATIONS

MINIATURES

1L4 Sharp-Cutoff Pentode. For rf amplifiers in battery-supply receivers.

3A4 Power Pentode. Filament volts, 1.4/2.8. A-F power output of 700 milliwatts.

3A5 Medium-Mu Twin Triode. Class C power output of 2 watts at 40 Mc.

6AK6 Power Pentode. Similar to 6G6-G.

6AS6 Sharp-cutoff Pentode. 7-pin miniature type. Grids No. 1 and No. 3 can each be used as independent control electrodes. For use in gated amplifier circuits, delay circuits, gain-controlled amplifiers, and mixer circuits.

6J4 UHF Amplifier Triode. Cathode-drive amplifier. For frequencies up to 500 Mc.

26A6 Remote-Cutoff Pentode. Remote-cutoff, heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.

26C6 Twin-Diode—Medium-Mu Triode. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.

26D6 Pentagrid Converter. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.

7360 Beam-Deflection Tube. For use in modulator, demodulator, and frequency converter applications in single- and double-side band suppressed-carrier communications equipment operating at frequencies up to 100 Mc 9-pin miniature type.

9001 Sharp-Cutoff Pentode. A sharp cut-off pentode for use as an r-f amplifier or detector in uhf service.

9002 UHF Triode. Useful as a uhf detector, amplifier and oscillator.

9003 Remote-Cutoff Pentode. Remote cutoff type useful as a mixer or as an r-f or i-f amplifier in uhf services.

9006 UHF Diode. Heater-cathode type. Resonant frequency about 700 Mc. For uhf services as a rectifier, detector, or measuring device.

TYPES FOR SPECIAL APPLICATIONS *(cont'd)*

METAL, GT, AND OTHER GLASS TYPES

2C40 Lighthouse Triode. A high frequency amplifier and oscillator for use up to 3000 Mc. Plate dissipation, 6.5 watts max., mu = 36, gm = 4800 micromhos.

2C43 Lighthouse Triode. Has the same design features as the 2C40 except for a plate dissipation of 12 watts max., mu = 48, and gm = 8000 micromhos.

6AG7-Y—Power Pentode. Similar to type 6AG7 except for micanol base.

6AS7-G—Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a mu of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications.

6SJ7-Y—Triple-Grid Detector Amplifier. Same as type 6SJ7 except for micanol base.

12A6 Beam Power Tube. Metal type. Designed particularly for aircraft applications. Heater volts, 12.6. Max. plate volts, 250.

12SW7—Twin-Diode—Medium-Mu Triode. Heater-cathode type. Useful in aircraft receivers.

12SX7-GT—Medium-Mu Twin Triode. Heater-cathode type. Useful in aircraft receivers.

12SY7—Pentagrid Converter. Single-ended metal type. Useful in aircraft receivers.

26A7-GT—Twin Beam Power Tube. Heater volts, 26.5. Max. plate volts, 50. For 12-cell battery service.

1609 Amplifier Pentode. For low-microphonic applications. Filament volts, 1.1. Max. plate volts, 135.

1612 Pentagrid Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6L7.

1620 Triple-Grid Detector Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6J7.

1621 Power Amplifier Pentode. Metal type. For application requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; a-f power output, 5 watts.

TYPES FOR SPECIAL APPLICATIONS *(cont'd)*

METAL, GT, AND OTHER GLASS TYPES *(cont'd)*

1622 Beam Power Tube. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; power output, 10 watts.

1629 Electron-Ray Tube. Indicator type. Similar to type 6E5 except for a 12.6-volt heater and an octal base.

1631 Beam Power Amplifier. Metal type. Similar to type 6L6 except for a 12.6-volt heater. Max. plate dissipation, 16 watts.

1632 Beam Power Tube. Metal type. Similar to type 25L6 except for 12.6-volt heater, and plate voltage and dissipation ratings.

1635 Class B Twin Amplifier. Heater-cathode type. For audio amplifier applications.

5642 Diode. Subminiature type with flexible leads for TV high-voltage rectifier applications. Heater volts 1.25. Peak inverse plate voltage 10,000.

5687 Medium-Mu Twin Triode. For general purpose amplifier applications. Heater volts 6.3 and 12.6 for parallel and series operation.

5881 Beam Power Amplifier. For audio-frequency power amplifier applications. Heater volts, 6.3. In push-pull AB1 service, max. power output, 26.5 watts.

5890 Low-current beam pentode of the remote-cutoff type intended particularly for the regulation of high-voltage dc power supplies.

6026 Oscillator Triode. Subminiature type intended for transmitting service in radiosonde applications at 400 Mc.

6080 Low-Mu Twin Triode. Similar to type 6AS7-G in characteristics, but is smaller in size. Intended for applications critical as to shock and vibration, and requiring reduced susceptibility to electrolysis.

6082 Same as 6080 but has 26.5-volt heater. Intended for use in aircraft receivers.

9004 UHF Diode. Acorn type with a heater-cathode. For use as a rectifier, detector, or measuring device. Resonant frequency about 850 Mc.

9005 UHF Diode. Acorn type with a heater-cathode. For use as a rectifier, detector, or measuring device. Resonant frequency about 1500 Mc.

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[2]
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.

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

RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

***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, physical structure, or types of tests to which they are subjected. For more information as to degree of interchangeability refer to respective tube data or write to RCA Commercial Engineering, Harrison, New Jersey.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
0A2	0A2	
0A2-WA	0A2-WA	
0A3	0A3	
0A3/VR75	0A3	
0A4-G	0A4-G	
0B2	0B2	
0B2-WA	0B2-WA	
0C2	0C2	
0C3	0C3	
0C3/VR105	0C3	
0C3-W		0C3
0D3	0D3	
0D3/VR150	0D3	
0D3W		0D3
1A/B		918
1C	918	
1C21	1C21	
1D	868	
1EP1	1EP1	
1EP2	1EP2	
1EP11	1EP11	
1L4	1L4	
1P21	1P21	
1P22	1P22	
1P23	868	
1P28	1P28	
1P29	1P29	
1P29/FJ-401	1P29	
1P32	927	
1P37	1P37	
1P39	1P39	
1P40	1P40	
1P41	1P41	
1P42	1P42	
1V-A/B		917, 919
2-1500		8020
2A/B		6953
2AP1	2AP1-A	
2AP1-A	2AP1-A	
2BP1	2BP1	

*†For footnotes see page 89.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
2BP11	2BP11	
2B4	885	
2C		1P40, 930
2C22		6J5
2C38	2C39-A	
2C39	2C39-A	
2C39-A	2C39-A	
2C39-B		2C39-A
2C39-WA	2C39-WA	
2C40	2C40	
2C40-A		2C40
2C43	2C43	
2C51	5670	
2C52		6SL7-GT
2D		1P40, 930
2D21	2D21	
2D21-W	2D21-W	
2E24	2E24	
2E25		2E24
2E26	2E26	
2E30		5618
2F21	2F21	
2K26	2K26	
2X2/879	2X2-A	
2X2-A	2X2-A	
3-25A3		809
3-50A4		811-A
3-50G2	834	
3-75A3		8005
3-100A		810
3-250A4		806
3-450A4		833-A
3-1000A2		8000
3-1000A4		810
3A4	3A4	
3A5	3A5	
3AP1	3AP1-A	
3AP1-A	3AP1-A	
3BP1	3BP1-A	
3BP1-A	3BP1-A	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
3B25	3B25	
3B27		836
3B28	3B28	
3C21		838
3C23	3C23	
3C24		1623
3C33	3C33	
3C45	6130/3C45	
3CX100A5		2C39-A
3D22	3D22-A	
3D22-A	3D22-A	
3E22	3E22	
3E29	3E29	
3JP1	3JP1	
3JP7	3JP7	
3KP1	3KP1	
3KP4	3KP4	
3KP7	3KP7	
3KP11	3KP11	
3KP16	3KP16	
3RP1	3RP1	
3RP1-A	3RP1-A	
3WP1	3WP1	
3WP2	3WP2	
3WP11	3WP11	
3X100A5	2C39-A	
3X100A11	2C39-A	
3X2500A3		5762/7C24
4-65A	4-65A	
4-125A	4-125A/4D21	
4-125A/4D21	4-125A/4D21	
4-125A/6155	6155/4-125A	
4-250A	4-250A/5D22	
4-250A/5D22	4-250A/5D22	
4-250A/6156	6156/4-250A	
4-750A	4-1000A	
4-1000A	4-1000A	
4(A-D)		930, 1P40
4B32		872-A
4C21		8005

*†For footnotes see page 89.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
4C22		8005
4C25		808
4C33	4C33	
4CX250B	4CX250B	
4D21	4-125A/4D21	
4D21/4-125A	4-125A/4D21	
4D21-A		4-125A/4D21
4D23		4-125A/4D21
4E27/8001	4E27/8001	
4E27A/5-125B	4E27A/5-125B	
4X150A	4X150A	
4X150D	4X150D	
4X150G		4X150A
4X250F	7204/4X250F	
4X500A	4X500A	
5		927
5(A-D)		927
5-125B	4E278/001	
5ABP1	5ABP1	
5ABP7	5ABP7	
5ABP11	5ABP11	
5ADP1	5ADP1	
5ADP7		5ABP7
5ADP11		5ABP11
5AHP7	5AHP7, 5AHP7-A	
5AHP7-A	5AHP7-A	
5AUP24	5AUP24	
5AYP4	5AYP4	
5AZP4	5AZP4	
5BP1	5BP1-A	
5BP1-A	5BP1-A	
5C21/C6J	C6J/5C21	
5C24		8000
5CP1	5CP1-A	
5CP1-A	5CP1-A	
5CP7	5CP7-A	
5CP7-A	5CP7-A	
5CP11-A	5CP11-A	
5CP12	5CP12	
5D22	4-250A/5D22	

*†For footnotes see page 89.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
5D24		4-250A/5D22
5FP4-A	5FP4-A	
5FP7-A	5FP7-A	
5FP14	5FP14-A	
5FP14-A	5FP14-A	
5FP15-A	5FP15-A	
5HP1-A		5BP1-A
5R4-GY	5R4-GY	
5R4-GYB	5R4-GYB	
5TP4	5TP4	
5UP1	5UP1	
5UP7	5UP7	
5UP11	5UP11	
5WP11	5WP11	
5WP15	5WP15	
5ZP16	5ZP16	
6	6L6	
6AC7-Y	6AC7-Y	
6AG5-WA	6186/6AG5-WA	
6AG7-Y	6AG7-Y	
6AK5-W	5654/6AK5-W	
6AK6	6AK6	
6AR6		6BG6-G
6AS6	6AS6	
6AS7-G	6AS7-G	
6AU6-WA	6AU6-WA	
6B		5561
6BA6-W	5749/6BA6-W	
6C24		5786
6D22		4X500A
6F4	6F4	
6J4	6J4	
6J4-WA	6J4-WA	
6J6-A	6101/6J6-A	
6J6-WA	6J6-WA	
6L4	6L4	
6Q5-G	884	
6SJ7-Y	6SJ7-Y	
6SJ7-WGT		5693
6SK7-W	6SK7-W	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
6SL7-WGT		5691
6SN7-GTY	6SN7-GTY	
7BP7	7BP7-A	
7BP7-A	7BP7-A	
7C24	5762/7C24	
7C25		5762/7C24
7C27		5762/7C24
7C30		5762/7C24
7JP1	7VP1	
7MP7	7MP7	
7NP4	7NP4	
7QP4	7QP4	
7TP4	7TP4	
7VP1	7VP1	
7WP4	7WP4	
PJ8	5556	
RK8		800
8D21	8D21	
8HP4	8HP4	
9	868	
9C21	9C21	
9C22	9C22	
9C25	9C25	
10KP7	10KP7	
10SP4	10SP4	
10-Y	801-A	
BW11	834	
RK11	1623	
11V(A-B)		917
11V-C	917	
11V-D		917
HV12		806
RK12		809
12A6	12A6	
12AT7-WA	12AT7-WA	
12AU7-WA	6189/12AU7-WA	
12DP7	12DP7-A	
12DP7-A	12DP7-A	
12DP7-B	12DP7-A	
12L8-GT	12L8-GT	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
12SW7	12SW7	
12SX7-GT	12SX7-GT	
12SY7	12SY7	
14		5557
14T		920
15F		927
16ADP7	16ADP7	
FG-17	5557	
DR-17		5557
TT-17		5557
WL-17	5557	
17	5557	
17F		1P41
18		810
FV-20		8000
TV-20		810
T-20		1623
TZ-20		809
20A	804	
20(C-D)	927	
RK-21		836
PJ-21		5556
21A		872-A
21A/B		921
21(C-D)	920	
CE-22		1P41
PJ-22		917, 919
22(A-D)		1P41
KU-23		810
RK-23		802
PJ-23	868	
23A/B		923
23(C-D)	923	
23A		802
HK-24-G		1623
24-G		808
HY-25		809
RK-25	802	
25A/B		927
25B	802	
25(C-D)	927	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
25T		809
26A6	26A6	
26A7-GT	26A7-GT	
26C6	26C6	
26D6	26D6	
27		806
27A		5559
28	803	
28A	803	
28(A-D)	928	
29	929	
29Q	5653	
29R	929	
30	800	
30V-A/B		925
30V(C-D)	925	
30Z		809
31		830-B
31V-A/B		919
31V(C-D)	919	
32	5558	
RK-33	2C21/1642	
34	934	
34Q		934
34-R	934	
GL-35T		808
35T		811-A
35TG		808
36		806
36(A-D)		927
37		808
38		810
39	807	
HY-40		812-A
T-40		812-A
TZ-40		811-A
40Z		811-A
CE-41	921	
RK-41		807
CE-42	922	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
KU-42	6130/3C45	
44	837	
45		837
46		804
47	814	
48A		813
UH-50	834	
SR-50		917
50A		1P41
50T		8000
51		830-B
51A		927
HY-51B		8005
R-51B		5583
51BV		929
51T		8005
51Z		838
52		811-A
53		917
53AWB		927
HK-54		808
55		8005
HY-57		812-A
FG-57	5559	
WL-57	5559	
RK-57	805	
58	838	
59	5581	
59A		918
59B		1P37
59TAV		917
HF-60		8005
HY-60		807
SK-60		868
T-60		8005
60A		920
61/807	807	
61A		930
61AV		925
61B		5581

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
61BV		1P39
63		806
64		807
64Q		5583
64R	5583	
65		4E27/8001
67	5728/FG-67	
69		1624
70D		8005
71A		930
71AV		925
75TH		8005
FG-81A		3C23
83	83	
85		8020
R-85A		928
FP-85A		8020
91Q		1P37
91R	1P37	
95	5560	
98	5582	
UE-100		810
HF-100		8005
100R	8020	
100TH		810
100TL		8000
104	5561	
105	105	
105/FG-105	105	
111H		812-A
HF-120		8005
ZB-120		838
123-A		806
HF-125		8005
T-125		810
127-A		810
129-B		889-A
140		8005
143-D		2X2-A
146		805

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
TW-150		807
150P		803
150T		806
152		805
152TH		806
152TL		806
HK-154		808
155		806
172	172	
DR-200		806
HF-200		8000
T-200		806
201		8000
201A		810
203-A		8005
203-H		8005
203-Z		838
205D		801-A
205E		801-A
207	207	
210-0001	2D21	
210-0003	884	
210-0004	2050	
210-0006	6H6	
210-0007		6L6
210-0008	866-A	
210-0009	84/6Z4	
210-0011	0C3	
210-0012	80	
210-0013	5Z3	
210-0015	5557	
210-0018	0D3	
210-0019	83	
210-0021	6X5	
210-0021	6X5-GT	
210-0025	117Z6-GT	
210-0027	872-A	
210-0028	3Q5-GT	
210-0029	6C5	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
210-0031	902-A	
210-0037	117L7/M7-GT	
210-0038	172	
210-0040	6X4	
210-0042	5Y3-GT	
210-0044	575-A	
210-0045	892	
210-0048	5U4-G	
210-0052	2AP1-A	
210-0053	3AP1-A	
210-0056	5559	
210-0057	5560	
210-0058	676	
210-0060	0Z4	
210-0061		117N7-GT
210-0062	5557	
210-0067		3C23
210-0069	5557	
210-0070	5550	
210-0071	5551-A	
210-0073	5553-B	
210-0074	105	
210-0078	172	
210-0079	105	
210-0081	6SJ7	
210-0082	6V6	
210-0083	7K7	
210-0084	6N7	
210-0084	6N7-GT	
210-0085	50B5	
210-0086	833-A	
210-0087	6K8	
210-0088	6J5	
210-0088	6J5-GT	
210-0089	6G6-G	
210-0090	6C6	
210-0091	0A4-G	
211		8005
211B		8005
211D		8005

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
211H		8005
214E		217-C
217-A		80
217-C	217-C	
220		8020
220C		892
220CA		892
220R		893A-R
Z-225/866A		866-A
232C		892
233		880
235A	5552-A	
238B	5555	
241B		833-A
242A		8005
242B		8005
242C		8005
245	884	
246	2050	
249A		866-A
249B		866-A
249C		866-A
250		8000
250T		806
250TH		810
250TL		806
252		217-C
253		217-C
254		810
254B		865
255A		869-B
255B		869-B
257(B)	4E27/8001	
258A	5553-B	
258B		866-A
260A		860
261	6H6	
262	866-A	
263	84/6Z4	
266B		857-B

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
266C		857-B
267B		872-A
268A		801-A
269	0C3	
270	80	
270X	5Z3	
271	5551-A	
272	5557	
274A		5R4-GY
274B	5R4-GY	
282A		8000
284A		845
284B		845
284D		845
FP-285		835
287A		5557
294	0D3	
295A		8005
300		806
301	83	
302(722-A)		3C23
301A		83
303A	203-A	
304-A(WR)	834	
304-A(UE)		204-A
304B		834
305		3C23
306		676
F-307A	207	
307A		807
308	6X5-GT	
309	5557	
310		801-A
310A		6C6
310B		1620
UE-311		8005
CE-311	3C23	
311CH		8000
312A		828
313C		1C21

*†For footnotes see page 89.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
315A		673
317C	217-C	
319A		872-A
321A		673
322A	803	
323B		3C23
327A		810
327B		810
328A		6C6
331A	805	
332A		803
339A		807
341A		891-R
341AA		891-R
342B		8005
F-343A		892
348A		1620
349A		6F6
350A	807	
350B		807
351A		6X5-GT
352A		6R7
353A		872-A
354-C		806
354-D		806
354-E		806
354-F		806
356		5771
356/5771		5771
356A		807
356B		806
357A		833-A
F-357A		857-B
357B		833-A
359A		1C21
363A		892
366A	866-A	
367A		673
369-B		869-B
371-B		8020

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
375A		575-A
377	117Z6-GT	
381	2C39-A	
384D		845
389	3Q5-GT	
390	6C5	
393A		3C23
394A		627
395A		5823
401	1P29	
403A	6AK5	
403B		6AK5
405		935
WE-408A		6AK5
415	5550	
421A		6AS7-G
423A		5651
450		833-A
450TH		833-A
451	8020	
460		806
463		806
468		810
471		8005
473		5762/7C24
481		8013-A
502-A	502-A	
507		1949
546		5696
572	2C39-A	
575-A	575-A	
578		8020
579-B	579-B	
606	2D21	
615		5558
618		5561
627	627	
628		5559
629	629	
630	2050	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
630A	2050	
WL-631	5559	
632A	632-B	
632-B	632-B	
634	677	
635		5561
651/656	5552-A	
652/657	5551-A	
653B	5555	
654		849
655/658	5553-B	
672	672-A	
672-A	672-A	
673	673	
676	676	
677	677	
678		5563-A
681/686	5550	
699	5550	
710		676
714		5557
715/5557	5557	
728	5557	
734		917
735	868	
739		927
741	923	
756		809
762		1947
767		935
773		935
775		935
800	800	
801	801-A	
801-A	801-A	
801-A/801	801-A	
802	802	
803	803	
804	804	
805	805	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
806	806	
807	807	
808	808	
809	809	
810	810	
811	811-A	
811-A	811-A	
812	812-A	
812-A	812-A	
812-H		8005
813	813	
814	814	
814/RK47	814	
815	815	
816	816	
822		810
826	826	
827-R	827-R	
828	828	
829	829-B	
829-A	829-B	
829-B	829-B	
830	830-B	
830-B	830-B	
832	832-A	
833	833-A	
833-A	833-A	
834	834	
836	836	
837	837	
838	838	
841	841	
845	845	
854H		833-A
857	857-B	
857B	857-B	
859		893-A
860	860	
861	861	
865	865	
866	866-A	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
866-A	866-A	
866-A/866	866-A	
866-AX		866-A
866-JR		816
868	868	
869-A	869-B	
869-B	869-B	
872	872-A	
872-A	872-A	
872-A/872	872-A	
872-B		872-A
DR-873		872-A
875-A	575-A	
878	878	
879	2X2-A	
880	880	
884	884	
885	885	
889	889-A	
889-A	889-A	
889R	889R-A	
889R-A	889R-A	
891	891	
891-R	891-R	
892	892	
892-R	892-R	
893	893-A	
893-A	893-A	
893A-R	893A-R	
898-A	898-A	
902	902-A	
902-A	902-A	
905	805	
906-P1	3AP1-A	
908	908-A	
908-A	908-A	
917	917	
918	918	
919	919	
920	920	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
921	921	
922	922	
923	923	
924	924	
925	925	
926	926	
927	927	
928	928	
929	929	
930	930	
GL-930	930	
WL-930	930	
UE-930	830-B	
930-B	830-B	
931	931-A	
931-A	931-A	
931-VA	931-VA	
934	934	
935	935	
938	838	
945	845	
954	954	
955	955	
956	956	
957	957	
958-A	958-A	
959	959	
966	866-A	
966-A	866-A	
967	5557	
972	872-A	
972-A	872-A	
973		5559
UE-975-A		575-A
975-A	575-A	
991	991	
1001		5550
1005		5551-A
1051	5551-A	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
1052	5551-A	
1053	5553-B	
1111		1947
1111-M		1947
1230		30
1258		6130/3C45
1266		5823
1267		2A3
1280		14C7
1603		1620 or 5879
1609	1609	
1611	1611	
1612	1612	
1613	1613	
1614	1614	
1616	1616	
1619	1619	
1620	1620	
1621	1621	
1622	1622	
1623	1623	
1624	1624	
1625	1625	
1626	1626	
1629	1629	
1631	1631	
1635	1635	
1640	6405/1640	
1654		1X2-A
1699	1699	
1701	5557	
1702		5563-A
1802-P1	5BP1-A	
1811-P1	7CP1	
1816-P4		10FP4-A
1816-P4A		10FP4-A
1818-P1	1818-P1	
1818-P11	1818-P11	
1818-P27	1818-P27	
1849	1850-A	

*†For footnotes see page 89.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
1850	1850-A	
1850-A	1850-A	
1852	6AC7	
1853	6AB7	
1854	6474	
1855	6896/1855	
1899		2F21
1946	1946	
1947	1947	
1949	1949	
1950	1950	
2020	2020	
2022	2022	
2029	2029	
2050	2050	
2051	2050	
2039	2039	
2525A5	5BP1-A	
4009	4009	
4010	4010	
4011	4011A	
4011A	4011A	
5303		
5331		830-B
5332		830-B
5514		811-A
5516		2E24
5530		5762/7C24
5550	5550	
5550/GL-415	5550	
5550/681	5550	
5550/681/686	5550	
5551	5551-A	
5551/652	5551-A	
5551/FG-271	5551-A	
5551-A	5551-A	
5551-A/652	5551-A	
5552	5552-A	
5552/651	5552-A	
5552/FG-235A	5552-A	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
5552-A	5552-A	
5553	5553-B	
5553/655	5553-B	
5553/FG-258A	5553-B	
5553-A	5553-B	
5553-B	5553-B	
5553-B/655	5553-B	
5555	5555	
5555/653-B	5555	
5555/FG-238B	5555	
5556	5556	
5556/PJ-8	5556	
5557	5557	
5557/17	5557	
5557/715	5557	
5557/FG-17	5557	
5557/FG-17/1701	5557	
5558	5558	
5558/32	5558	
5558/FG-32	5558	
5559	5559	
5559/57	5559	
5559/FG-57	5559	
5560	5560	
5560/FG-95	5560	
5561	5561	
5561/104	5561	
5561/FG-104	5561	
5563	5563-A	
5563-A	5563-A	
5581	5581	
5582	5582	
5583	5583	
5584	5584	
5588	5588	
5590/401B		5654
5591/403B		5654
5592	5592	
5604	5604-A	
5604-A	5604-A	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
5606		892
5618	5618	
5632	C3J/5632	
5632/C3J	C3J/5632	
5636	5636	
5636-A	5636	
5639	5639	
5642	5642	
5651	5651	
5651-WA	5651-WA	
5652	5652	
5653	5653	
5654	5654	
5654/6AK5-W	5654/6AK5-W	
5654/6AK5-W/6096	5654/6AK5-W/6096	
5658		880
5659		12A6
5660		12C8
5661		12SK7
5663		5696
5664		3C23
5665	C16J/5665	
5665/C16J	C16J/5665	
5666		889-A
5667		889R-A
5668		892
5669		892-R
5670	5670	
5670-WA	5670-WA	
5671	5671	
5675	5675	
5679		7A6
5683		3C23
5685	C6J-A/5685	
5685/C6J	C6J-A/5685	
5685/C6J-A	C6J-A/5685	
5686	5686	
5687	5687	
5690	5690	
5691	5691	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
5692	5692	
5693	5693	
5695		816
5696	5696	
5713	5713	
5718	5718	
5718-A	5718	
5719	5719	
5719-A	5719	
5725	5725	
5726	5726	
5726/6AL5-W	5726/6AL5-W	
5726/6AL5-W/6097	5726/6AL5-W/6097	
5727	5727	
5727/2D21-W	5727/2D21-W	
5734	5734	
5736		5762/7C24
5741		8020
5743		5556
5749	5749	
5749/6BA6-W	5749/6BA6-W	
5750	5750	
5750/6BE6-W		5750
5751	5751	
5751-WA	5751-WA	
5762	5762/7C24	
5762/7C24	5762/7C24	
5763	5763	
5770	5770	
5771	5771	
5786	5786	
5788		5555
5794		6562
5812		5763
5814	5814-A	
5814-A	5814-A	
5814-WA	5814-WA	
5819	5819	
5820	5820	
5822	5822-A	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
5822-A	5822-A	
5823	5823	
5824		25B6-G
5825	5825	
5840	5840	
5840-A		5840
5844		6211
5868/AX9902		833-A
5876	5876	
5876-A	5876-A	
5879	5879	
5881	5881	
5890	5890	
5891		5671
5893	5893	
5896	5896	
5896-A	5896-A	
5897	5718	
5898	5719	
5899	5899	
5899-A	5899	
5902	5902	
5915	5915	
5915-A		5915
5917		5762/7C24
5918		5770
5919		5671
5920		6101
5930		2A3
5931		5U4-GB
5932		7027-A
5933		807
5933-WA		807
5934		579-B
5936		9C21
5946	5946	
5963	5963	
5964	5964	
5965	5965	
5976		2K26

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
6005	6005	
6005/6AQ5-W	6005/6AQ5-W	
6005/6AQ5-W/6095	6005/6AQ5-W/6095	
6012	6012	
6014	C1K/6014	
6014/C1K	C1K/6014	
6021	6021	
6026	6926	
6028		5654
6028/408A		5654
6032	6032, 6032-A	
6032-A	6032-A	
6057		5751
6058		5726
6060		6201
6062		5763
6067		5814-A
6072	6072	
6073	6073	
6073/0A2	6073/0A2	
6074	6074	
6074/0B2	6074/0B2	
6080	6080	
6080-WA	6080-WA	
6082	6082	
6082-A		6082
6084		5879
6085		5692
6087		5690
6094		6005
6096	5654/6AK5-W/6096	
6097	5726/6AL5-W/6097	
6099	6099	
6101	6101	
6101/6J6-WA	6101/6J6-WA	
6106		5690
6111	6111	
6112	6112	
6130	6130/3C45	
6130/3C45	6130/3C45	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
6136	6136	
6140/423A		5651
6146	6146	
6155	6155/4-125A	
6155/4-125A	6155/4-125A	
6156	6156/4-250A	
6156/4-250A	6156/4-250A	
6159	6159	
6161	6161	
6166	6166	
6173	6173	
6180		5690
6181	6181	
6186/6AG5-WA	6186/6AG5-WA	
6189/12AU7-WA	6189/12AU7-WA	
6197	6197	
6198	6198	
6198-A		7038
6199	6199	
6201	6201	
6205	6205	
6206	6206	
6211	6211	
6217	6217	
6263	6263	
6264	6264-A	
6267		5879
6291		6199
6292		5819, 2020
6293	6293	
6326	6326	
6326-A		7038
6328	6328	
6333		892
6336		6080
6337		6080-WA
6342	6342, 6342-A	
6342-A	6342-A	
6346		5551-A
6347		5552-A

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
6348		5553-B
6350	6350	
6365		6199
6383	6383	
6385		5670
6394		6082
6405/1640	6405/1640	
6414		5965
6417	6417	
6445		892-R
6446		892
6447		892-R
6448	6448	
6467		6199
6472	6472	
6474	6474	
6474/1854	6474	
6486		5725
6486A		5725
6499	6499	
6509		5555
6514		5555
6520		6AS7-G
6521	6521	
6524	6524	
6528		6080
6550		7027-A
6562	6562	
6570	6570	
6571	6571	
6576		5770
6626	6626/0A2-WA	
6626/0A2-WA	6626/0A2-WA	
6655	6655-A	
6655-A	6655-A	
6660	6660/6BA6	
6660/6BA6	6660/6BA6	
6661	6661/6BH6	
6661/6BH6	6661/6BH6	
6662	6662/6BJ6	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
6662/6BJ6	6662/6BJ6	
6663	6663/6AL5	
6663/6AL5	6663/6AL5	
6669	6669/6AQ5-A	
6669/6AQ5-A	6669/6AQ5-A	
6677	6677/6CL6	
6677/6CL6	6677/6CL6	
6678	6678/6U8-A	
6678/6U8-A	6678/6U8-A	
6679	6679/12AT7	
6679/12AT7	6679/12AT7	
6680	6680/12AU7-A	
6680/12AU7-A	6680/12AU7-A	
6681	6681/12AX7	
6681/12AX7	6681/12AX7	
6687		5915
6694-A	6694-A	
6806	6806	
6810	6810-A	
6810-A	6810-A	
6814	6814	
6816	6816	
6829		5965
6849	6849	
6850	6850	
6853		5690
6861	6861	
6865-A	6865-A	
6866	6866	
6883	6883	
6884	6884	
6887	6887	
6893	6893	
6894	6894	
6895	6895	
6896/1855	6896/1855	
6903	6903	
6914	6914	
6914-A	6914-A	
6929	6929	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
6949	6949	
6952	6952	
6953	6953	
6957	6957	
6973	6973	
7008	7008	
7025	7025	
7027	7027	
7029	7029	
7034/4X150A	7034/4X150A	
7035/4X150D	7035/4X150D	
7036		5915
7038	7038	
7043	7043	
7044	7044	
7046	7046	
7054	7054	
7055	7055	
7056	7056	
7057	7057	
7058	7058	
7059	7059	
7060	7060	
7061	7061	
7062		5965
7079		6111
7086	7086	
7094	7094	
7102	7102	
7105		6080
7110	7110	
7111	7111	
7112	7112	
7117	7117	
7136		575-A
7163	7163	
7183	7183	
7198	7198	
7199	7199	
7200	7200	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
7203/4CX250B	7203/4CX250B	
7204/4X250F	7204/4X250F	
7212	7212	
7213	7213	
7223	7223	
7224	7224	
7244		6101
7244-A		6101
7245		6J4-WA
7245-A		6J4-WA
7262	7262	
7263	7263	
7264	7264	
7265	7265	
7270	7270	
7271	7270	
7315	7315	
7318		5814-A
7326	7326	
7357	7357	
7358	7358	
7360	7360	
7404	7404	
7412	7412	
7448	7448	
7457	7457	
7467	7467	
7513	7513	
7536	7536	
7551	7551	
7552	7552	
7554	7554	
7558	7558	
8000	8000	
8005	8005	
8008	8008	
8013-A	8013-A	
8014-A		5786
8016	1B3-GT/8016	
8020	8020	

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
8020/100R	8020	
8025-A	8025-A	
9001	9001	
9002	9002	
9003	9003	
9004	9004	
9005	9005	
9006	9006	
9911		6130/3C45
E80CC		5692
E80F		5879
E83F		5725
EF86		5879
E90CC		6101
E90F		6661
E91H		5915
E92CC		6211
E99F		6662
E180CC		5965
E182CC		7044
C1B		3C23
C1B/A		3C23
C1J/A		3C23
C3J	C3J/5632	
C1K	C1K/6014	
C1K/6014	C1K/6014	
C3J/5632	C3J/5632	
C3J/A	C3J-A/5684	
C3J-A/5684	C3J-A/5684	
C6J	C6J/5C21	
C6J/5C21	C6J/5C21	
C6J/A	C6J-A/5685	
C6J-A/5685	C6J-A/5685	
C16J	C16J/5665	
C16J/5665	C16J/5665	
TGRA		575-A
TGRB		872-A
TVTA		892
TVTB		833-A
TVTC		889-A

*†For footnotes see page 89.

Type To Be Replaced	Replace By RCA Type*	Similar RCA Type†
T-100	6X4	
T-102	5Y3-GT	
T-103	6H6	
T-104	575-A	
T-105	892	
T-111	5559	
T-112	5560	
T-113	676	
T-114	0Z4	
T-115	117N7-GT	
T-117	5557	
T-118	105	
T-119	172	
T-122	6SJ7	
T-123	6V6	
T-124	7K7	
T-125	6N7-GT	
T-126	50B5	
T-127	833-A	
T-128	6K8	
T-129	6J5-GT	
T-130	6G6-G	
T-131	6C6	
T-132	0A4-G	
T-135	5U4-G	
T-136	2AP1-A	
T-137	3AP1-A	
T-149	172	
V-70-D		8005
V-70-D		8005
X-22		1616

*†For footnotes see page 89.

SEMICONDUCTOR DEVICES

GERMANIUM TRANSISTORS

SILICON TRANSISTORS

SILICON RECTIFIERS

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	Structure	Process*	Typical Use	SERVICE		
				RF	AF	Switching
2N104	PNP	AJ	Small-Signal Amplifier		√	
2N109	PNP	AJ	Large-Signal Amplifier		√	√
2N139	PNP	AJ	IF Amplifier	√		√
2N140	PNP	AJ	Converter	√		√
2N173	PNP	AJ	Power Amplifier		√	
2N174	PNP	AJ	Power Amplifier		√	
2N175	PNP	AJ	Low-Noise Amplifier		√	
2N176	PNP	AJ	Power Amplifier		√	
2N215	PNP	AJ	Small-Signal Amplifier		√	
2N217	PNP	AJ	Large-Signal Amplifier		√	
2N218	PNP	AJ	IF Amplifier	√		√
2N219	PNP	AJ	Converter	√		√
2N220	PNP	AJ	Low-Noise Amplifier		√	
2N269	PNP	AJ	Medium-Speed Switching			√
2N270	PNP	AJ	Large-Signal Amplifier		√	
2N274	PNP	DF	Amplifier	√		√
2N277	PNP	AJ	Power Amplifier		√	√
2N278	PNP	AJ	Power Amplifier		√	√
2N301	PNP	AJ	Power Amplifier		√	
2N301-A	PNP	AJ	Power Amplifier		√	
2N351	PNP	AJ	Power Amplifier		√	
2N370	PNP	DF	Amplifier	√		
2N371	PNP	DF	Oscillator	√		
2N372	PNP	DF	Mixer	√		
2N373	PNP	DF	IF Amplifier	√		
2N374	PNP	DF	Converter	√		
2N376	PNP	AJ	Power Amplifier		√	
2N384	PNP	DF	Amplifier	√		√
2N398	PNP	AJ	High-Voltage Switching			√
2N404	PNP	AJ	Medium-Speed Switching			√
2N405	PNP	AJ	Driver Amplifier		√	
2N406	PNP	AJ	Driver Amplifier		√	
2N407	PNP	AJ	Amplifier		√	
2N408	PNP	AJ	Amplifier		√	
2N409	PNP	AJ	IF Amplifier	√		
2N410	PNP	AJ	IF Amplifier	√		
2N411	PNP	AJ	Converter	√		
2N412	PNP	AJ	Converter	√		
2N441	PNP	AJ	Power Amplifier		√	√
2N442	PNP	AJ	Power Amplifier		√	√

*For key to symbols in column 3 see page 128

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	Structure	Process*	Typical Use	SERVICE		
				RF	AF	Switching
2N443	PNP	AJ	Power Amplifier		✓	✓
2N544	PNP	DF	Amplifier	✓		
2N578	PNP	AJ	Medium-Speed Switching			✓
2N579	PNP	AJ	Medium-Speed Switching			✓
2N580	PNP	AJ	High-Speed Switching			✓
2N581	PNP	AJ	Medium-Speed Switching			✓
2N582	PNP	AJ	High-Speed Switching			✓
2N583	PNP	AJ	Medium-Speed Switching			✓
2N584	PNP	AJ	High-Speed Switching			✓
2N585	NPN	AJ	Medium-Speed Switching			✓
2N586	PNP	AJ	Low-Speed Switching		✓	✓
2N591	PNP	AJ	Driver Amplifier		✓	
2N640	PNP	DF	Amplifier	✓		
2N641	PNP	DF	IF Amplifier	✓		
2N642	PNP	DF	Converter	✓		
2N643	PNP	DF	High-Speed Switching			✓
2N644	PNP	DF	High-Speed Switching			✓
2N645	PNP	DF	High-Speed Switching			✓
2N647	NPN	AJ	Amplifier		✓	
2N649	NPN	AJ	Amplifier		✓	
2N1010	NPN	AJ	Low-Noise Amplifier		✓	
2N1023	PNP	DF	Amplifier	✓		
2N1066	PNP	DF	Amplifier	✓		
2N1090	NPN	AJ	Medium-Speed Switching			✓
2N1091	NPN	AJ	Medium-Speed Switching			✓
2N1099	PNP	AJ	Power Amplifier		✓	✓
2N1100	PNP	AJ	Power Amplifier		✓	✓
2N1169	NPN	AJ	Bidirectional Switching			✓
2N1170	NPN	AJ	Bidirectional Switching			✓
2N1177	PNP	DF	Amplifier	✓		
2N1178	PNP	DF	Oscillator	✓		
2N1179	PNP	DF	Mixer	✓		
2N1180	PNP	DF	IF Amplifier	✓		

*For key to symbols in column 3 see page 128

RCA GERMANIUM TRANSISTOR CLASSIFICATION CHART

TYPE	Structure	Process*	Typical Use	SERVICE		
				RF	AF	Switching
2N1183	PNP	AJ	Amplifier		✓	✓
2N1183-A	PNP	AJ	Amplifier		✓	✓
2N1183-B	PNP	AJ	Amplifier		✓	✓
2N1184	PNP	AJ	Amplifier		✓	✓
2N1184-A	PNP	AJ	Amplifier		✓	✓
2N1184-B	PNP	AJ	Amplifier		✓	✓
2N1213	PNP	DJM	Bistable Switching			✓
2N1214	PNP	DJM	Bistable Switching			✓
2N1215	PNP	DJM	Bistable Switching			✓
2N1216	PNP	DJM	Bistable Switching			✓
2N1224	PNP	DF	Amplifier	✓		✓
2N1225	PNP	DF	Amplifier	✓		✓
2N1226	PNP	DF	Amplifier	✓		✓
2N1300	PNP	DJM	High-Speed Switching			✓
2N1301	PNP	DJM	High-Speed Switching			✓
2N1384	PNP	DF	High-Speed Switching			✓
2N1395	PNP	DF	Amplifier	✓		✓
2N1396	PNP	DF	Amplifier	✓		✓
2N1397	PNP	DF	Amplifier	✓		✓
2N1412	PNP	AJ	Power Amplifier		✓	✓
2N1425	PNP	DF	IF Amplifier	✓		
2N1426	PNP	DF	Converter	✓		
2N1524	PNP	DF	IF Amplifier	✓		
2N1525	PNP	DF	IF Amplifier	✓		
2N1526	PNP	DF	Converter	✓		
2N1527	PNP	DF	Converter	✓		
2N1631	PNP	DF	Amplifier	✓		
2N1632	PNP	DF	Amplifier	✓		
2N1633	PNP	DF	IF Amplifier	✓		
2N1634	PNP	DF	IF Amplifier	✓		
2N1635	PNP	DF	Converter	✓		
2N1636	PNP	DF	Converter	✓		
2N1637	PNP	DF	Amplifier	✓		
2N1638	PNP	DF	IF Amplifier	✓		
2N1639	PNP	DF	Converter	✓		
2N1683	PNP	DJM	High-Speed Switching			✓

*For key to symbols in column 3 see page 128

RCA SILICON TRANSISTOR CLASSIFICATION CHART

TYPE	Structure	Process*	Typical Use	SERVICE		
				RF	AF	Switching
2N706	NPN	DJM	High-Speed Switching			√
2N706-A	NPN	DJM	High-Speed Switching			√
2N1479	NPN	DJ	Power Amplifier		√	√
2N1480	NPN	DJ	Power Amplifier		√	√
2N1481	NPN	DJ	Power Amplifier		√	√
2N1482	NPN	DJ	Power Amplifier		√	√
2N1483	NPN	DJ	Power Amplifier		√	√
2N1484	NPN	DJ	Power Amplifier		√	√
2N1485	NPN	DJ	Power Amplifier		√	√
2N1486	NPN	DJ	Power Amplifier		√	√
2N1487	NPN	DJ	Power Amplifier		√	√
2N1488	NPN	DJ	Power Amplifier		√	√
2N1489	NPN	DJ	Power Amplifier		√	√
2N1490	NPN	DJ	Power Amplifier		√	√
2N1491	NPN	DJM	VHF Amplifier	√		
2N1492	NPN	DJM	VHF Amplifier	√		
2N1493	NPN	DJM	VHF Amplifier	√		
2N1511	NPN	DJ	Power Amplifier		√	√
2N1512	NPN	DJ	Power Amplifier		√	√
2N1513	NPN	DJ	Power Amplifier		√	√
2N1514	NPN	DJ	Power Amplifier		√	√

AJ = Alloy-Junction
DF = Drift-Field
DJ = Diffused-Junction
DJM = Diffused-Junction Mesa
AF = Audio-Frequency
RF = Radio-Frequency

RCA GERMANIUM TRANSISTOR DATA CHART

TYPE	Metal Case (See Illus.) Pgs 134-5	MAXIMUM RATINGS			CHARACTERISTICS	
		Collector-to-Base Volts	Collector Ma	Transistor Dissipation at 25°C mw	DC Current Transfer Ratio	Alpha Cutoff Frequency MC
2N104	A	−30	− 50	150	44 •	1.6
2N109	A	−25	− 70	150	75	—
2N139	A	−16	− 15	80	48 •	6.8
2N140	A	−16	− 15	80	75	10
2N173	T	−60	− 15A	70W	35†	10 Kc
2N174	T	−80	− 15A	87.5W	25†	10 Kc
2N175	A	−10	− 2	50	65 •	0.85
2N176	K	−40	− 3A	10W	63	—
2N215	D	−30	− 50	150	44 •	1.6
2N217	D	−25	− 70	150	75	—
2N218	D	−16	− 15	80	48 •	6.8
2N219	D	−16	− 15	80	75	10
2N220	D	−10	− 2	50	65 •	0.85
2N269	D	−25	−100	120	50	12
2N270	F	−25	−150	250	70	—
2N274	E	−40	− 10	120	60 •	30
2N277	T	−40	− 15A	70W	35†	10 Kc
2N278	T	−50	− 15A	70W	35†	10 Kc
2N301	K	−40	− 3A	11W	70	—
2N301-A	K	−60	− 3A	11W	70	—
2N351	K	−40	− 3A	10W	65	—
2N370	G	−24	− 10	80	60	30
2N371	G	−24	− 10	80	60	30
2N372	G	−24	− 10	80	60	30
2N373	G	−24	− 10	80	60	30
2N374	G	−24	− 10	80	60	30
2N376	K	−40	− 3A	10W	78	—
2N384	E	−40	− 10	120	60 •	100
2N398	B	−105	−100	50	60	—
2N404	H	−25	−100	−120	50	12
2N405	A	−20	− 35	150	35	—
2N406	D	−20	− 35	150	35	—
2N407	A	−20	− 70	150	75	—
2N408	D	−20	− 70	150	75	—
2N409	A	−13	− 15	80	48	6.8
2N410	D	−13	− 15	80	48	6.8
2N411	A	−13	− 15	80	75	10
2N412	D	−13	− 15	80	75	10
2N441	T	−40	− 15A	70W	20†	10 Kc
2N442	T	−50	− 15A	70W	20†	10 Kc

• Small-Signal Current Transfer Ratio
▲Gain-Bandwidth Product
†Minimum Value

A = Amperes
W = Watts

RCA GERMANIUM TRANSISTOR DATA CHART

TYPE	Metal Case (See Illus.) Pgs 134-5	MAXIMUM RATINGS			CHARACTERISTICS	
		Collector-to-Base Volts	Collector Ma	Transistor Dissipation at 25°C mw	DC Current Transfer Ratio	Alpha Cutoff Frequency MC
2N443	T	−60	− 15A	70W	20†	10 Kc
2N544	G	−24	− 10	80	60 •	30
2N578	B	−20	−400	120	30	8
2N579	B	−20	−400	120	30	8
2N580	B	−20	−400	120	45	15
2N581	H	−18	−100	80	30	8
2N582	H	−25	−100	120	60	18
2N583	D	−18	−100	80	30	8
2N584	D	−25	−100	120	60	18
2N585	B	25	200	120	40	5
2N586	F	−45	−250	250	60	—
2N591	D	−32	− 40	50	70	0.7
2N640	G	−34	− 10	80	60	42
2N641	G	−34	− 10	80	60	42
2N642	G	−34	− 10	80	60	42
2N643	N	−30	−100	120	45	30▲
2N644	N	−30	−100	120	45	50▲
2N645	N	−30	−100	120	45	75▲
2N647	D	25	100	100	70	—
2N649	D	20	100	100	65	—
2N1010	D	10	2	50	35	—
2N1023	E	−40	− 10	120	60 •	120
2N1066	N	−40	− 10	120	60 •	120
2N1090	B	25	400	120	50	7
2N1091	B	25	400	120	70	13
2N1099	T	−80	− 15A	87.5W	35†	10 Kc
2N1100	T	−100	− 15A	87.5W	25†	10 Kc
2N1169	H	25	400	120	40	7
2N1170	H	40	400	120	40	7
2N1177	P	−30	− 10	80	100	140
2N1178	P	−30	− 10	80	40	140
2N1179	P	−30	− 10	80	80	140
2N1180	P	−30	− 10	80	80	100
2N1183	I	−45	− 3A	7.5W	20†	0.5†
2N1183-A	I	−60	− 3A	7.5W	20†	0.5†
2N1183-B	I	−80	− 3A	7.5W	20†	0.5†
2N1184	I	−45	− 3A	7.5W	40†	0.5†
2N1184-A	I	− 6	− 3A	7.5W	40†	0.5†

• Small-Signal Current Transfer Ratio
▲Gain-Bandwidth Product
†Minimum Value

A = Amperes
W = Watts

RCA GERMANIUM TRANSISTOR DATA CHART

TYPE	Metal Case (See Illus.) Pgs 134-5	MAXIMUM RATINGS			CHARACTERISTICS	
		Collector-to-Base Volts	Collector Ma	Transistor Dissipation at 25°C mw	DC Current Transfer Ratio	Alpha Cutoff Frequency MC
2N1184-B	I	−80	− 3A	7.5W	40†	0.5†
2N1213	H	−25	−100	75	—	—
2N1214	H	−25	−100	75	—	—
2N1215	H	−25	−100	75	—	—
2N1216	H	−25	−100	75	—	—
2N1224	N	−40	− 10	120	60 •	30
2N1225	N	−40	− 10	120	60 •	100
2N1226	N	−60	− 10	120	60 •	30
2N1300	H	−13	−100	150	50	40▲
2N1301	H	−13	−100	150	75	60▲
2N1384	R	−30	−500	240	50	35▲
2N1395	N	−40	− 10	120	90 •	30
2N1396	N	−40	− 10	120	90 •	100
2N1397	N	−40	− 10	120	90 •	120
2N1412	T	−100	− 15A	87.5W	25†	10 Kc
2N1425	G	−24	− 10	80	50 •	33
2N1426	G	−24	− 10	80	130 •	33
2N1524	D	−24	− 10	80	60 •	33
2N1525	A	−24	− 10	80	60 •	33
2N1526	D	−24	− 10	80	130 •	33
2N1527	A	−24	− 10	80	130 •	33
2N1631	A	−34	− 10	80	80 •	45
2N1632	D	−34	− 10	80	80 •	45
2N1633	A	−34	− 10	80	75 •	40
2N1634	D	−34	− 10	80	75 •	40
2N1635	A	−34	− 10	80	75 •	45
2N1636	D	−34	− 10	80	75 •	45
2N1637	D	−34	− 10	80	80 •	45
2N1638	D	−34	− 10	80	75 •	40
2N1639	D	−34	− 10	80	75 •	45
2N1683	H	−13	−100	150	85	80▲

• Small-Signal Current Transfer Ratio
▲Gain-Bandwidth Product
†Minimum Value
A = Amperes
W = Watts

RCA SILICON TRANSISTOR DATA CHART

TYPE	Metal Case (See Illus.) Pgs 134-5	MAXIMUM RATINGS			CHARACTERISTICS	
		Collector-to-Base Volts	Collector Ma	Transistor Dissipation at 25°C mw	DC Current Transfer Ratio	Alpha Cutoff Frequency MC
2N706	Q	25	—	1W	20†	400▲
2N706-A	Q	25	50	1W	20†	—
2N1479	H	60	1.5A	4W	15†	1.5
2N1480	H	100	1.5A	4W	15†	1.5
2N1481	H	60	1.5A	4W	35†	1.5
2N1482	H	100	1.5A	4W	35†	1.5
2N1483	I	60	3A	15W	15†	1.25
2N1484	I	100	3A	15W	15†	1.25
2N1485	I	60	3A	15W	35†	1.25
2N1486	I	100	3A	15W	35†	1.25
2N1487	J	60	6A	60W	10†	1
2N1488	J	100	6A	60W	10†	1
2N1489	J	60	6A	60W	25†	1
2N1490	J	100	6A	60W	25†	1
2N1491	C	30	50	500	10†	250
2N1492	C	60	50	500	50 •	275
2N1493	C	100	50	500	50 •	300
2N1511	T	60	6A	60W	50 •	1
2N1512	T	100	6A	60W	10†	1
2N1513	T	60	6A	60W	25†	1
2N1514	T	100	6A	60W	25†	1

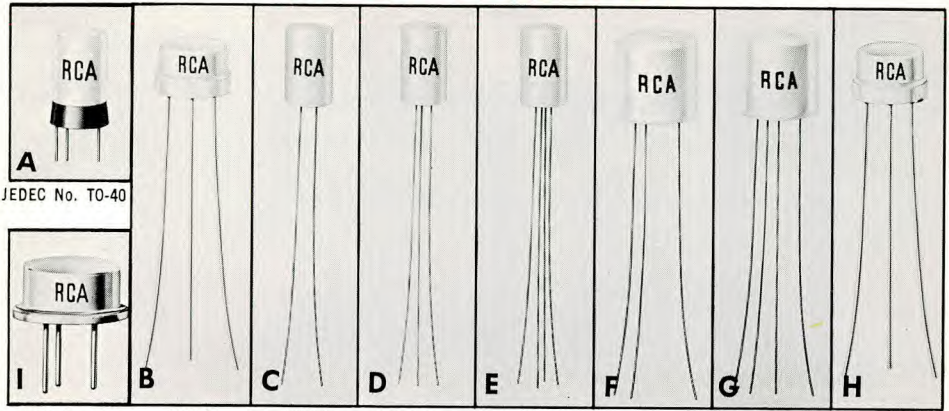
• Small-Signal Current Transfer Radio
▲Gain-Bandwidth Product
†Minimum Value

A = Amperes
W = Watts

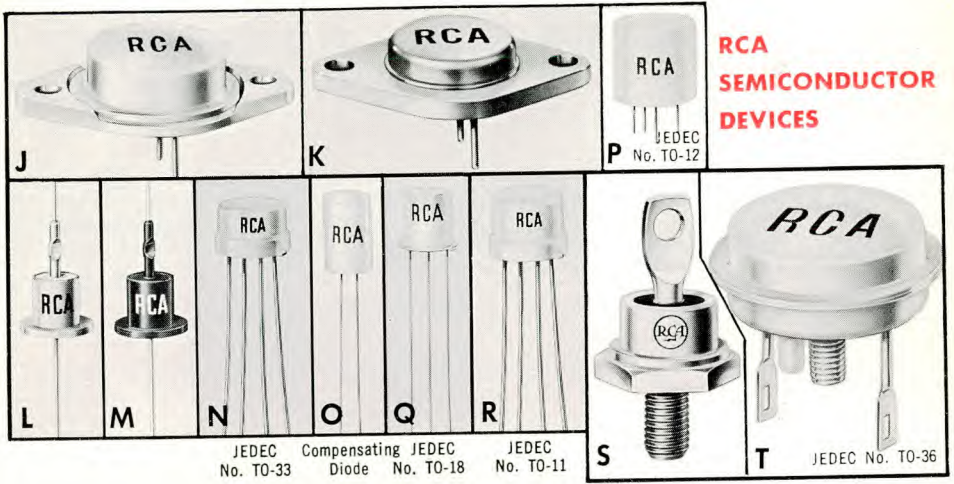
RCA SILICON RECTIFIER DATA CHART

TYPE	Metal Case (See Illus.) Pgs 134-5	Typical Use	Maximum Ratings			Characteristics	
				DC Forward Current		Maximum Reverse Current-Micro-amperes (DC)	
			Peak Inverse Volts	Milli-amperes	@ °C	At Max. PIV and 25°C	At Max. PIV and 150°C
IN248-B	S	Power Supply	55	20000	150	—	5000
IN249-B	S	Power Supply	110	20000	150	—	5000
IN250-B	S	Power Supply	220	20000	150	—	5000
IN440-B	M	Magnetic Amplifier	100	500	100	0.3	100
IN441-B	M	Magnetic Amplifier	200	500	100	0.75	100
IN442-B	M	Magnetic Amplifier	300	500	100	1	200
IN443-B	M	Magnetic Amplifier	400	500	100	1.5	200
IN444-B	M	Magnetic Amplifier	500	425	100	1.75	200
IN445-B	M	Magnetic Amplifier	600	400	100	2	200
IN536	M	Power Supply	50	500	100	5	400
IN537	M	Power Supply	100	500	100	5	400
IN538	M	Power Supply	200	500	100	5	300
IN539	M	Power Supply	300	500	100	5	300
IN540	M	Power Supply	400	500	100	5	300
IN547	M	Power Supply	500	500	100	5	350
IN1095	M	Power Supply	600	500	100	5	300
IN1195-A	S	Power Supply	300	20000	150	—	3200
IN1196-A	S	Power Supply	400	20000	150	—	2500
IN1197-A	S	Power Supply	500	20000	150	—	2200
IN1198-A	S	Power Supply	600	20000	150	—	1500
IN1763	L	TV Power Supply	400	500	75	100	—
IN1764	L	TV Power Supply	500	500	75	100	—
IN2858	L	General Purpose	50	500	100	1*	—
IN2859	L	General Purpose	100	500	100	1*	—
IN2860	L	General Purpose	200	500	100	1*	—
IN2861	L	General Purpose	300	500	100	1*	—
IN2862	L	General Purpose	400	500	100	1*	—
IN2863	L	General Purpose	500	500	100	1*	—
IN2864	L	General Purpose	600	500	100	1*	—

*Typical Value


RCA
A
JEDEC No. TO-40
RCA
I
JEDEC No. TO-8
RCA
B
JEDEC
No. TO-9
RCA
C
JEDEC
No. TO-12
RCA
D
JEDEC
No. TO-1
RCA
E
JEDEC
No. TO-44
RCA
F
RCA
G
JEDEC
No. TO-7
RCA
H
JEDEC
No. TO-5

RCA SEMICONDUCTOR DEVICES



TRANSISTOR INTERCHANGEABILITY DIRECTORY

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N34	GTC	GPA	AF Amplifier		2N407
2N34 ●	RCA	GPA	AF Amplifier		2N407
2N34	SYL	GPA	AF Amplifier		2N407
2N34	TEC	GPA	AF Amplifier		2N407
2N34A ●	RCA	GPA	AF Amplifier		2N407
2N35 ●	RCA	GNA	AF Amplifier		2N647
2N35 ●	RCA	GNA	AF Amplifier		2N647
2N36	CBS	GPA	General Use		2N217
2N36	GTC	GPA	General Use		2N217
2N37	CBS	GPA	General Use		2N408
2N37	GTC	GPA	General Use		2N408
2N37	TEC	GPA	General Use		2N408
2N38	CBS	GPA	AF Amplifier		2N408
2N38	GTC	GPA	AF Amplifier		2N408
2N38	TEC	GPA	AF Amplifier		2N408
2N38A	CBS	GPA	AF Amplifier		2N408
2N38A	GTC	GPA	AF Amplifier		2N408
2N39	GTC	GPA	General Use		2N217
2N39	NU	GPA	General Use		2N217
2N39	TEC	GPA	General Use		2N217
2N40	GTC	GPA	General Use		2N217
2N40	NU	GPA	General Use		2N217
2N40	TEC	GPA	General Use		2N217
2N41 ●	RCA	GPA	AF Amplifier		2N105
2N42	GTC	GPA	General Use		2N217
2N42	NU	GPA	General Use		2N217
2N42	TEC	GPA	General Use		2N217
2N43	GE	GPA	AF Amplifier		2N109
2N43	GTC	GPA	AF Amplifier		2N109
2N43	TEC	GPA	AF Amplifier		2N109
2N43A	GTC	GPA	AF Amplifier		2N220
2N43A	TEC	GPA	AF Amplifier		2N220
2N44	GE	GPA	AF Amplifier		2N109
2N44	GTC	GPA	AF Amplifier		2N109
2N44	TEC	GPA	AF Amplifier		2N109
2N44A	GE	GPA	AF Amplifier		2N109
2N45	GE	GPA	AF Amplifier		2N109
2N45	GTC	GPA	AF Amplifier		2N109
2N45	TEC	GPA	AF Amplifier		2N109
2N46 ●	RCA	GPA	AF Amplifier		

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N47	PHL	GPA	AF Amplifier		
2N48	PHL	GPA	AF Amplifier		
2N49	PHL	GPA	AF Amplifier		
2N54	WHE	GPA	AF Amplifier		2N109
2N55	WHE	GPA	AF Amplifier		2N109
2N56	WHE	GPA	AF Amplifier		2N109
2N59	WHL	GPA	AF Amplifier		2N270
2N60	WHE	GPA	AF Amplifier		2N270
2N61	WHE	GPA	AF Amplifier		2N270
2N62	PHL	GPA	General Use		2N109
2N63	GTC	GPA	AF Amplifier		2N217
2N63	RK	GPA	AF Amplifier		2N217
2N63	TEC	GPA	AF Amplifier		2N217
2N64	GTC	GPA	AF Amplifier		2N217
2N64	RK	GPA	AF Amplifier		2N217
2N64	TEC	GPA	AF Amplifier		2N217
2N65	GTC	GPA	AF Amplifier		2N217
2N76	GE	GPA	AF Amplifier		2N104
2N76	TEC	GPA	AF Amplifier		2N104
2N77 •	RCA	GPA	AF Amplifier	2N105	
2N79 •	RCA	GPA	AF Amplifier		
2N85	TEC	GPA	AF Amplifier		2N109
2N86	TEC	GPA	AF Amplifier		2N109
2N87	TEC	GPA	AF Amplifier		2N109
2N88	TEC	GPA	AF Amplifier		2N105
2N89	TEC	GPA	AF Amplifier		2N217
2N90	TEC	GPA	AF Amplifier		2N217
2N94	SYL	GNA	Switching		2N585
2N96 •	RCA	GPA	AF Amplifier		
2N104	RCA	GPA	AF Amplifier	2N104	
2N105 •	RCA	GPA	AF Amplifier		
2N106	RK	GPA	AF Amplifier		2N104
2N107	GE	GPA	General Use		2N218
2N109	A	GPA	AF Amplifier	2N109	
2N109	GTC	GPA	AF Amplifier	2N109	
2N109	RCA	GPA	AF Amplifier	2N109	
2N111	CTP	GPA	IF Amplifier		2N218
2N111	GTC	GPA	IF Amplifier		2N218
2N111	RK	GPA	IF Amplifier		2N218
2N111A	RK	GPA	IF Amplifier		2N218

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N112	CTP	GPA	IF Amplifier		2N218
2N112	GTC	GPA	IF Amplifier		2N218
2N112	RK	GPA	IF Amplifier		2N218
2N112A	RK	GPA	IF Amplifier		2N218
2N113	CTP	GPA	IF Amplifier	2N139	
2N113	GTC	GPA	IF Amplifier	2N139	
2N113	RK	GPA	IF Amplifier	2N139	
2N114	GTC	GPA	Converter	2N140	
2N114	RK	GPA	Converter	2N140	
2N115	A	GPA	AF Power Ampl		2N270
2N116	CBS	GPA	AF Amplifier		2N175
2N123	GE	GPA	Switching		2N404
2N125	TI	GNG	Switching		2N585
2N126	TI	GNG	Switching		2N585
2N128	PHL	GPS	4-Mc Amplifier		2N247
2N129	PHL	GPS	455-Kc Ampl		2N373
2N130	GTC	GPA	AF Amplifier		2N220
2N130	RK	GPA	AF Amplifier		2N220
2N130A	RK	GPA	AF Amplifier		2N220
2N131A	GTC	GPA	AF Amplifier		2N220
2N132	GTC	GPA	AF Amplifier		2N220
2N132	RK	GPA	AF Amplifier		2N220
2N132A	RK	GPA	AF Amplifier		2N220
2N133	GTC	GPA	AF Amplifier		2N175
2N133	RK	GPA	AF Amplifier		2N175
2N133A	RK	GPA	AF Amplifier		2N175
2N135	GE	GPA	IF-RF Amplifier		2N139
2N136	GE	GPA	IF-RF Amplifier	2N139	
2N137	GE	GPA	IF-RF Amplifier	2N140	
2N138	RK	GPA	AF Amplifier		2N406
2N138A	RK	GPA	AF Amplifier		2N406
2N139	RCA	GPA	IF Amplifier	2N139	
2N140	RCA	GPA	Converter	2N140	
2N155	CBS	GPA	AF Power Ampl	2N301	
2N155	SYL	GPA	AF Power Ampl	2N301	
2N156	CBS	GPA	AF Power Ampl		2N301
2N157	CBS	GPA	AF Power Ampl		
2N157A	CBS	GPA	AF Power Ampl		
2N167	GE	GNG	Switching		2N1090
2N173	DEL	GPA	AF Power Ampl	2N173	

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N173	RCA	GPA	AF Power Ampl	2N173	
2N174	RCA	GPA	AF Power Ampl	2N174	
2N175	RCA	GPA	AF Amplifier	2N175	
2N176	MOT	GPA	AF Power Ampl	2N176	
2N176	NPC	GPA	AF Power Ampl	2N176	
2N176	RCA	GPA	AF Power Ampl	2N176	
2N176	SYL	GPA	AF Power Ampl	2N176	
2N180	CBS	GPA	General Use		2N217
2N181	CBS	GPA	General Use		2N270
2N185	TI	GPA	Switching		2N270
2N186	GE	GPA	AF Amplifier		2N217
2N186A	GE	GPA	AF Amplifier		2N270
2N187	GE	GPA	AF Amplifier		2N109
2N187A	GE	GPA	AF Amplifier		2N270
2N188	GE	GPA	AF Amplifier		2N109
2N188A	GE	GPA	AF Amplifier		2N270
2N189	GE	GPA	AF Amplifier		2N408
2N190	GE	GPA	AF Amplifier		2N408
2N191	GE	GPA	AF Amplifier		2N270
2N192	GE	GPA	AF Amplifier		2N270
2N195	TEC	GPA	AF Amplifier		2N217
2N196	TEC	GPA	AF Amplifier		2N217
2N197	TEC	GPA	AF Amplifier		2N217
2N198	TEC	GPA	AF Amplifier		2N217
2N199	TEC	GPA	AF Amplifier		2N109
2N200	TEC	GPA	AF Amplifier		
2N204	TEC	GPA	General Use		
2N205	TEC	GPA	General Use		
2N206	RCA	GPA	AF Amplifier		
2N207	PHL	GPA	AF Amplifier		2N105
2N207A	PHL	GPA	AF Amplifier		2N105
2N207B	PHL	GPA	AF Amplifier		2N105
2N215	RCA	GPA	AF Amplifier	2N215	
2N217	RCA	GPA	AF Amplifier	2N217	
2N218	RCA	GPA	IF Amplifier	2N218	
2N219	RCA	GPA	Converter	2N219	
2N220	RCA	GPA	AF Amplifier	2N220	
2N223	PHL	GPA	AF Amplifier		2N270
2N224	PHL	GPA	AF Amplifier		2N270
2N226	PHL	GPA	AF Amplifier		2N270

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N231	PHL	GPS	455-Kc Ampl		2N218
2N232	PHL	GPS	455-Kc Ampl		2N218
2N234	BEN	GPA	AF Power Ampl	2N301	
2N234A	BEN	GPA	AF Power Ampl	2N301	
2N235	BEN	GPA	AF Power Ampl	2N301	
2N235A	BEN	GPA	AF Power Ampl	2N301	
2N236A	BEN	GPA	AF Power Ampl		2N301
2N237	NA	GPA	AF Amplifier		2N220
2N238	TI	GPA	AF Amplifier		2N217
2N241	GE	GPA	AF Amplifier		2N217
2N241A	GE	GPA	AF Amplifier		2N270
2N242	SYL	GPA	AF Power Ampl	2N301A	
2N247 •	RCA	GPD	RF Amplifier	2N274	
2N247	SYL	GPD	RF Amplifier	2N274	
2N248	TI	GPG	RF Amplifier		2N274
2N249	TI	GPA	AF Amplifier		2N270
2N250	TI	GPA	AF Power Ampl	2N301	
2N251	TI	GPA	AF Power Ampl	2N301A	
2N252	TI	GPG	Converter		2N374
2N253	TI	GNG	455-Kc Ampl		
2N254	TI	GNG	455-Kc Ampl		
2N255	CBS	GPA	AF Power Ampl	2N301	
2N255	SYL	GPA	AF Power Ampl	2N301	
2N256	CBS	GPA	AF Power Ampl	2N301	
2N257	CTP	GPA	AF Power Ampl	2N301	
2N265	GE	GPA	AF Amplifier		2N408
2N267 •	RCA	GPD	RF Amplifier		2N247
2N268	CTP	GPA	Power Switch		2N301A
2N269	RCA	GPA	Switching	2N269	
2N270	RCA	GPA	AF Amplifier	2N270	
2N271	RK	GPA	Switching		2N404
2N271A	RK	GPA	Switching		2N404
2N272	RK	GPA			2N109
2N273	RK	GPA	AF Amplifier		2N109
2N274	RCA	GPD	RF Amplifier	2N274	
2N277	RCA	GPA	AF Power Ampl	2N277	
2N278	RCA	GPA	AF Power Ampl	2N278	
2N279	AMP	GPA	AF Amplifier		2N217
2N280	AMP	GPA	AF Amplifier		2N215
2N281	AMP	GPA	AF Amplifier		2N217

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N283	AMP	GPA	AF Amplifier		2N215
2N285	BEN	GPA	AF Power Ampl		2N301
2N285A	BEN	GPA	AF Power Ampl		2N301
2N296	SYL	GPA	AF Power Ampl		2N301A
2N297A	CTP	GPA	AF Power Ampl		2N457
2N301	BEN	GPA	AF Power Ampl	2N301	
2N301	RCA	GPA	AF Power Ampl	2N301	
2N301	SYL	GPA	AF Power Ampl	2N301	
2N301A	RCA	GPA	AF Power Ampl	2N301A	
2N302	RK	GPA	Switching		2N269
2N303	RK	GPA	Switching		2N269
2N307	RCA	GPA	AF Power Ampl	2N307	
2N307	SYL	GPA	AF Power Ampl	2N307	
2N307A	SYL	GPA	AF Power Ampl	2N301	
2N307A	TS	GPA	AF Power Ampl	2N301	
2N308	TI	GPG	IF Amplifier		2N373
2N309	TI	GPG	IF Amplifier		2N373
2N310	TI	GPG	IF Amplifier		2N373
2N311	GTC	GPA	Switching		2N404
2N311	MOT	GPA	Switching		2N404
2N312	GTC	GNA	Switching		2N585
2N312	SYL	GNA	Switching		2N585
2N315	GTC	GPA	Switching		2N578
2N316	GTC	GPA	Switching		2N579
2N317	GTC	GPA	Switching		2N582
2N319	GE	GPA	AF Amplifier		2N270
2N320	GE	GPA	AF Amplifier		2N270
2N321	GE	GPA	AF Amplifier		2N270
2N322	GE	GPA	AF Amplifier		2N406
2N323	GE	GPA	AF Amplifier		2N270
2N324	GE	GPA	AF Amplifier		2N407
2N325	SYL	GPA	AF Power Ampl		2N301
2N326	SYL	GNA	AF Power Ampl		2N301
2N331	RCA	GPA	AF Amplifier	2N331	
2N344	PHL	GPS	Switching		2N274
2N344	SPR	GPS	Switching		2N274
2N345	PHL	GPS	IF-RF Ampl		2N274
2N345	SPR	GPS	IF-RF Ampl		2N274
2N346	PHL	GPS	Oscillator		2N384
2N346	SPR	GPS	Oscillator		2N384

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N350	MOT	GPA	AF Power Ampl		2N301
2N351	MOT	GPA	AF Power Ampl	2N351	
2N351	RCA	GPA	AF Power Ampl	2N351	
2N351	SYL	GPA	AF Power Ampl	2N351	
2N352	PHL	GPA	AF Power Ampl	2N301	
2N353	PHL	GPA	AF Power Ampl	2N301	
2N356	CBS	GNA	Switching		
2N356	GTC	GNA	Switching		
2N356	RCA	GNA	Switching		
2N356	SYL	GNA	Switching		
2N357	CBS	GNA	Switching		
2N357	GTC	GNA	Switching		
2N357	RCA	GNA	Switching		
2N357	SYL	GNA	Switching		
2N358	CBS	GNA	Switching		
2N358	GTC	GNA	Switching		
2N358	RCA	GNA	Switching		
2N358	SYL	GNA	Switching		
2N367	TI	GPA	General Use		2N406
2N368	TI	GPA	General Use		2N215
2N369	TI	GPA	General Use		2N215
2N370	RCA	GPD	RF Amplifier	2N370	
2N370	SYL	GPD	RF Amplifier	2N370	
2N371	RCA	GPD	Oscillator	2N371	
2N371	SYL	GPD	Oscillator	2N371	
2N372	RCA	GPD	Mixer	2N372	
2N372	SYL	GPD	Mixer	2N372	
2N373	RCA	GPD	IF Amplifier	2N373	
2N374	RCA	GPD	Converter	2N374	
2N375	MOT	GPA	Power Switch		2N561
2N376	MOT	GPA	AF Power Ampl	2N376	
2N376	RCA	GPA	AF Power Ampl	2N376	
2N377	SYL	GNA	Switching		2N357
2N378	TS	GPA	Power Switch		
2N379	TS	GPA	Power Switch		
2N380	TS	GPA	Power Switch		
2N381	TS	GPA	AF Amplifier		2N270
2N382	TS	GPA	AF Amplifier		2N270
2N383	TS	GPA	AF Amplifier		2N270
2N384	RCA	GPA	VHF Amplifier	2N384	

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N385	CBS	GNA	Switching		
2N385	SYL	GNA	Switching		
2N386	PHL	GPA	AF Power Ampl		2N301A
2N388	SYL	GNA	Switching		
2N394	GE	GPA	Switching		2N404
2N395	GE	GPA	Switching		2N581
2N396	GE	GPA	Switching		2N404
2N397	GE	GPA	Switching		2N582
2N398	RCA	GPA	Switching	2N398	
2N399	BEN	GPA	AF Power Ampl		2N456
2N400	BEN	GPA	AF Power Ampl		2N456
2N401	BEN	GPA	AF Power Ampl		2N456
2N402	WHE	GPA	AF Amplifier		2N406
2N403	WHE	GPA	AF Amplifier		2N215
2N404	RCA	GPA	Switching	2N404	
2N404	RK	GPA	Switching	2N404	
2N404	TS	GPA	Switching	2N404	
2N405	RCA	GPA	AF Driver	2N405	
2N406	RCA	GPA	AF Driver	2N406	
2N407	RCA	GPA	AF Amplifier	2N407	
2N408	RCA	GPA	AF Amplifier	2N408	
2N409	RCA	GPA	IF Amplifier	2N409	
2N410	RCA	GPA	IF Amplifier	2N410	
2N411	RCA	GPA	Converter	2N411	
2N412	RCA	GPA	Converter	2N412	
2N413	RK	GPA	IF Amplifier		2N218
2N413	TS	GPA	IF Amplifier		2N218
2N413A	RK	GPA	IF Amplifier		2N218
2N414	RK	GPA	IF Amplifier		2N218
2N414	TS	GPA	IF Amplifier		2N218
2N414A	RK	GPA	IF Amplifier		2N218
2N415	RK	GPA	Converter		2N374
2N415A	RK	GPA	Converter		2N374
2N416	RK	GPA	RF Amplifier		2N247
2N416	TS	GPA	RF Amplifier		2N247
2N417	RK	GPA	RF Amplifier		2N247
2N417	TS	GPA	RF Amplifier		2N247
2N418	BEN	GPA	AF Power Ampl		2N301
2N419	BEN	GPA	Power Switch		
2N420	BEN	GPA	Power Switch		

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N421	BEN	GPA	Power Switch		
2N422	RK	GPA	AF Amplifier		2N215
2N425	RK	GPA	Switching		2N404
2N426	RK	GPA	Switching		2N578
2N427	RK	GPA	Switching		2N579
2N428	RK	GPA	Switching		2N580
2N438A	CBS	GNA	Switching		
2N439A	CBS	GNA	Switching		
2N440A	CBS	GNA	Switching		
2N441	RCA	GPA	AF Power Ampl	2N441	
2N442	RCA	GPA	AF Power Ampl	2N442	
2N443	RCA	GPA	AF Power Ampl	2N443	
2N444	GT	GNA	Switching		
2N445	GT	GNA	Switching		
2N446	GT	GNA	Switching		
2N447	GT	GNA	Switching		
2N456●	RCA	GPA	Power Switch		
2N456	TI	GPA	Power Switch		
2N457●	RCA	GPA	Power Switch		
2N457	TI	GPA	Power Switch		
2N458	TI	GPA	Power Switch		
2N460	TS	GPA	AF Amplifier		2N331
2N461	TS	GPA	AF Amplifier		2N331
2N464	RK	GPA	AF Amplifier		2N270
2N465	RK	GPA	AF Amplifier		2N270
2N466	RK	GPA	AF Amplifier		2N270
2N481	RK	GPA	RF Amplifier		2N371
2N482	RK	GPA	IF Amplifier		2N373
2N483	RK	GPA	IF Amplifier		2N373
2N484	RK	GPA	IF Amplifier		2N373
2N485	RK	GPA	RF Amplifier		2N374
2N486	RK	GPA	RF Amplifier		2N374
2N499	PHL	GPD	Oscillator		2N371
2N504	PHL	GPD	IF Amplifier		2N373
2N518	GE	GPA	Switching		2N404
2N519	GTC	GPA	Switching		2N578
2N520	GTC	GPA	Switching		2N578
2N521	GTC	GPA	Switching		2N579
2N522	GTC	GPA	Switching		2N580
2N523	GTC	GPA	Switching		2N643

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N524	GE	GPA	AF Amplifier		2N586
2N525	GE	GPA	AF Amplifier		2N586
2N526	GE	GPA	AF Amplifier		2N586
2N527	GE	GPA	AF Amplifier		2N586
2B536	PHL	GPA	Switching		2N578
2N544	RCA	GPD	RF Amplifier	2N544	
2N544	SYL	GPD	RF Amplifier	2N544	
2N554	MOT	GPA	AF Power Ampl	2N301	
2N559	WE	GPD	Switching		2N645
2N561 ●	RCA	GPA	Power Switch		
2N576	MH	GPA	Switching		2N585
2N576A	MH	GPA	Switching		2N585
2N578	RCA	GPA	Switching	2N578	
2N578	TS	GPA	Switching	2N578	
2N579	RCA	GPA	Switching	2N579	
2N579	TS	GPA	Switching	2N579	
2N580	RCA	GPA	Switching	2N580	
2N580	TS	GPA	Switching	2N580	
2N581	RCA	GPA	Switching	2N581	
2N581	TS	GPA	Switching	2N581	
2N582	RCA	GPA	Switching	2N582	
2N582	TS	GPA	Switching	2N582	
2N583	RCA	GPA	Switching	2N583	
2N584	RCA	GPA	Switching	2N584	
2N585	RCA	GNA	Switching	2N585	
2N586	RCA	GPA	Switching	2N586	
2N591	RCA	GPA	AF Driver	2N591	
2N597	PHL	GPA	Switching		2N578
2N598	PHL	GPA	Switching		2N579
2N599	PHL	GPA	Switching		2N580
2N602	GTC	GPD	Switching		2N643
2N603	GTC	GPD	Switching		2N644
2N604	GTC	GPD	Switching		2N645
2N605	GTC	GPD	General Use		2N384
2N606	GTC	GPD	General Use		2N384
2N607	GTC	GPD	General Use		2N384
2N608	GTC	GPD	General Use		2N384
2N609	WHE	GPA	Class B Ampl		2N217
2N610	WHE	GPA	Class B Ampl		2N217
2N611	WHE	GPA	Class B Ampl		2N217

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N612	WHE	GPA	Driver Ampl		2N217
2N613	WHE	GPA	AF Amplifier		2N270
2N614	WHE	GPA	IF Amplifier		2N373
2N615	WHE	GPA	IF Amplifier		2N373
2N617	WHE	GPA	Converter		2N374
2N618	MOT	GPA	AF Power Ampl		
2N623	TI	GND	Switching		2N645
2N628	MOT	GPA	AF Power Ampl		
2N629	MOT	GPA	AF Power Ampl		
2N630	MOT	GPA	AF Power Ampl		
2N631	RK	GPA	AF Amplifier		2N408
2N632	RK	GPA	AF Amplifier		2N217
2N633	RK	GPA	AF Amplifier		2N270
2N635	GE	GNA	Switching		2N1091
2N636	GE	GNA	Switching		2N1091
2N637	BEN	GPA	Power Switch		
2N637A	BEN	GPA	Power Switch		
2N637B	BEN	GPA	Power Switch		
2N638	BEN	GPA	Power Switch		
2N638A	BEN	GPA	Power Switch		
2N638B	BEN	GPA	Power Switch		
2N639	BEN	GPA	Power Switch		
2N639A	BEN	GPA	Power Switch		
2N639B	BEN	GPA	Power Switch		
2N640	RCA	GPD	RF Amplifier	2N640	
2N641	RCA	GPD	IF Amplifier	2N641	
2N642	RCA	GPD	Converter	2N642	
2N643	RCA	GPD	Switching	2N643	
2N644	RCA	GPD	Switching	2N644	
2N645	RCA	GPD	Switching	2N645	
2N647	RCA	GNA	AF Amplifier	2N647	
2N649	RCA	GNA	AF Amplifier	2N649	
2N659	RK	GPA	Switching		2N578
2N660	RK	GPA	Switching		2N643
2N661	RK	GPA	Switching		2N643
2N662	RK	GPA	Switching		2N579
2N706	RCA	SNJ	Switching	2N706	
2N706A	RCA	SNJ	Switching	2N706A	
2N1010	RCA	GNA	AF Amplifier	2N1010	
2N1014 ●	RCA	GPA	AF Power Ampl	2N1014	

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N1017	RK	GPA	Switching		2N582
2N1021	TI	GPA	Power Switch		
2N1022	TI	GPA	Power Switch		
2N1038	TI	GPA	Power Switch		2N586
2N1043	TI	GPA	Power Switch		
2N1044	TI	GPA	Power Switch		
2N1045	TI	GPA	Power Switch		
2N1058	SYL	GPA	Mixer		2N412
2N1059	SYL	GPA	AF Amplifier		2N270
2N1065	GTC	GPD	AF Amplifier		
2N1066	RCA	GPD	RF Amplifier	2N1066	
2N1067	RCA	SNJ	Power Switch	2N1483	
2N1068	RCA	SNJ	Power Switch	2N1483	
2N1069	RCA	SNJ	Power Switch	2N1487	
2N1070	RCA	SNJ	Power Switch	2N1489	
2N1072	WE	SNJ	Switching		
2N1073	BEN	GPA	Switching		
2N1073A	BEN	GPA	Switching		
2N1073B	BEN	GPA	Switching		
2N1074	RK	SNA	AF Amplifier		
2N1075	RK	SNA	AF Amplifier		
2N1076	RK	SNA	AF Amplifier		
2N1077	RK	SNA	AF Amplifier		
2N1078	CBS	GPA	AF Amplifier		
2N1086	GE	GNG	Oscillator		
2N1086A	GE	GNG	Oscillator		
2N1087	GE	GNG	Oscillator		
2N1090	RCA	GNA	Switching	2N1090	
2N1091	RCA	GNA	Switching	2N1091	
2N1092	RCA	SNJ	Power Switch	2N1479	
2N1093	TI	GPA	Switching		
2N1094	WE	GNJ	Switching		
2N1095	BOG	SNG	AF Amplifier		
2N1096	BOG	SNG	AF Amplifier		
2N1097	GE	GPA	AF Amplifier		2N109
2N1098	GE	GPA	AF Amplifier		2N109
2N1099	RCA	GPA	Switching	2N1099	
2N1100	RCA	GPA	Switching	2N1099	
2N1101	SYL	GNA	AF Amplifier		2N647
2N1102	SYL	GNA	AF Amplifier		2N647

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N1107	TI	GPG	AF Amplifier		
2N1108	TI	GPG	AF Amplifier		
2N1109	TI	GPG	AF Amplifier		
2N1110	TI	GPG	AF Amplifier		
2N1111	TI	GPG	AF Amplifier		
2N1111A	TI	GPG	AF Amplifier		
2N1111B	TI	GPG	AF Amplifier		
2N1116	TEC	SNJ	Switching		
2N1117	TEC	SNJ	Switching		
2N1118	PHL	SPA	Oscillator		
2N1119	PHL	SPA	Switching		
2N1120	BEN	GPA	Switching		
2N1121	GE	GNG	IF Amplifier		
2N1122	PHL	GPA	Switching		
2N1122A	PHL	GPA	Switching		
2N1123	PHL	GPA	Switching		
2N1124	PHL	GPA	Switching		
2N1125	PHL	GPA	Switching		
2N1126	PHL	GPA	Switching		
2N1127	PHL	GPA	Switching		
2N1128	PHL	GPA	Switching		
2N1129	PHL	GPA	Switching		
2N1130	PHL	GPA	Switching		
2N1131	FCH	SPJ	Switching		
2N1132	FCH	SPJ	Switching		
2N1136	BEN	GPA	Switching		
2N1136A	BEN	GPA	Switching		
2N1136B	BEN	GPA	Switching		
2N1137	BEN	GPA	Switching		
2N1137A	BEN	GPA	Switching		
2N1137B	BEN	GPA	Switching		
2N1138	BEN	GPA	Switching		
2N1138A	BEN	GPA	Switching		
2N1138B	BEN	GPA	Switching		
2N1139	TEC	SNG	Switching		
2N1140	TEC	SNJ	Switching		
2N1141	TI	GPD	General Use		
2N1142	TI	GPD	General Use		
2N1143	TI	GPD	General Use		
2N1144	GE	GPA	AF Amplifier		2N109

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N1145	GE	GPA	AF Amplifier		2N109
2N1146	CTP	GPA	AF Power Ampl		
2N1146A	CTP	GPA	AF Power Ampl		
2N1146B	CTP	GPA	AF Power Ampl		
2N1147	CTP	GPA	AF Power Ampl		
2N1147A	CTP	GPA	AF Power Ampl		
2N1147B	CTP	GPA	AF Power Ampl		
2N1147C	CTP	GPA	AF Power Ampl		
2N1149	TI	GNG	General Use		
2N1150	TI	GNG	General Use		
2N1151	TI	GNG	General Use		
2N1152	TI	GNG	General Use		
2N1153	TI	GNG	General Use		
2N1157	MH	GPA	Power Switching		
2N1157A	MH	GPA	Power Switching		
2N1159	DEL	GPA	AF Power Ampl		2N1014
2N1160	DEL	GPA	AF Power Ampl		2N1014
2N1162	MOT	GPA	AF Power Ampl		
2N1163	MOT	GPA	AF Power Ampl		
2N1164	MOT	GPA	AF Power Ampl		
2N1165	MOT	GPA	AF Power Ampl		
2N1166	MOT	GPA	AF Power Ampl		
2N1167	MOT	GPA	AF Power Ampl		
2N1168	DEL	GPA	AF Power Ampl		
2N1169	RCA	GPB	Switching	2N1169	
2N1170	RCA	GPB	Switching	2N1170	
2N1172	DEL	GPA	AF Power Ampl		2N301A
2N1176	BEN	GPA	Switching		
2N1176A	BEN	GPA	Switching		
2N1176B	BEN	GPA	Switching		
2N1177	RCA	GPD	RF Amplifier	2N1177	
2N1178	RCA	GPD	Oscillator	2N1178	
2N1179	RCA	GPD	Mixer	2N1179	
2N1180	RCA	GPD	IF Amplifier	2N1180	
2N1183	RCA	GPA	Power Switch	2N1183	
2N1183A	RCA	GPA	Power Switch	2N1183A	
2N1183B	RCA	GPA	Power Switch	2N1183B	
2N1184	RCA	GPA	Power Switch	2N1184	
2N1184A	RCA	GPA	Power Switch	2N1184A	
2N1184B	RCA	GPA	Power Switch	2N1184B	

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Descrip-tion			
2N1192	MOT	GPA	AF Amplifier		
2N1193	MOT	GPA	AF Amplifier		2N270
2N1194	MOT	GPA	AF Amplifier		
2N1195	WE	GPD	Switching		
2N1198	GE	GNA	Switching		
2N1202	MH	GPA	Power Switch		2N561
2N1203	MH	GPA	Power Switch		
2N1205	TEC	SNG	Switching		
2N1206	TEC	SNG	AF Power Ampl		
2N1207	TEC	SNG	AF Power Ampl		
2N1208	TEC	SNJ	Switching		
2N1209	TEC	SNJ	Switching		
2N1212	TEC	SNJ	Switching		
2N1213	RCA	GPB	Switching	2N1213	
2N1214	RCA	GPB	Switching	2N1214	
2N1215	RCA	GPB	Switching	2N1215	
2N1216	RCA	GPB	Switching	2N1216	
2N1219	GTC	SPA	Switching		
2N1220	GTC	SPA	Switching		
2N1222	GTC	SPA	General Use		
2N1223	GTC	SPA	Switching		
2N1224	RCA	GPD	RF Amplifier	2N1224	
2N1225	RCA	GPD	RF Amplifier	2N1225	
2N1226	RCA	GPD	RF Amplifier	2N1226	
2N1228	HA	SPJ	Switching		
2N1229	HA	SPJ	Switching		
2N1230	HA	SPJ	Switching		
2N1231	HA	SPJ	Switching		
2N1232	HA	SPJ	Switching		
2N1233	HA	SPJ	Switching		
2N1234	HA	SPJ	Switching		
2N1238	HA	SPJ	Switching		
2N1239	HA	SPJ	Switching		
2N1240	HA	SPJ	Switching		
2N1241	HA	SPJ	Switching		
2N1242	HA	SPJ	Switching		
2N1243	HA	SPJ	Switching		
2N1244	HA	SPJ	Switchibg		
2N1245	CBS	GPA	Switching		
2N1246	CBS	GPA	Switching		

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N1247	TEC	SNJ	AF Amplifier		
2N1248	TEC	SNJ	AF Amplifier		
2N1249	TEC	SNJ	AF Amplifier		
2N1250	TEC	SNJ	Switching		
2N1251	SYL	GNA	AF Amplifier		
2N1252	FCH	SNJ	Switching		
2N1253	FCH	SNJ	Switching		
2N1254	HA	SPJ	General Use		
2N1255	HA	SPJ	General Use		
2N1256	HA	SPJ	General Use		
2N1257	HA	SPJ	General Use		
2N1258	HA	SPJ	General Use		
2N1259	HA	SPJ	General Use		
2N1261	MH	GPA	Power Switch		
2N1262	MH	GPA	Power Switch		
2N1263	MH	GPA	Power Switch		
2N1264	SYL	GPA	AF Power Ampl		2N370
2N1265	SYL	GPA	Oscillator		2N408
2N1276	GE	SPG	Switching		
2N1277	GE	SPG	Switching		
2N1278	GE	SPG	Switching		
2N1279	GE	SPG	Switching		
2N1291	CBS	GPA	AF Amplifier		2N301
2N1292	CBS	GNA	AF Amplifier		
2N1293	CBS	GPA	AF Amplifier		2N301A
2N1294	CBS	GNA	AF Amplifier		
2N1295	CBS	GPA	AF Amplifier		2N561
2N1296	CBS	GNA	AF Amplifier		
2N1297	CBS	GPA	AF Amplifier		2N1014
2N1298	CBS	GNA	AF Amplifier		
2N1299	SYL	GNA	Switching		
2N1300	RCA	GPJ	Switching	2N1300	
2N1301	RCA	GPJ	Switching	2N1301	
2N1310	CTC	GNA	General Use		
2N1320	CBS	GPA	AF Amplifier		
2N1321	CBS	GNA	AF Amplifier		
2N1322	CBS	GPA	AF Amplifier		
2N1323	CBS	GNA	AF Amplifier		
2N1324	CBS	GPA	AF Amplifier		
2N1325	CBS	GNA	AF Amplifier		

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N1326	CBS	GPA	AF Amplifier		
2N1327	CBS	GNA	AF Amplifier		
2N1328	CBS	GPA	AF Amplifier		
2N1329	CBS	GNA	AF Amplifier		
2N1330	CBS	GPA	AF Amplifier		
2N1331	CBS	GNA	AF Amplifier		
2N1332	CBS	GPA	AF Amplifier		
2N1333	CBS	GNA	AF Amplifier		
2N1334	CBS	GPA	AF Amplifier		
2N1358	DEL	GPA	General Use		
2N1384	RCA	GPD	Switching	2N1384	
2N1395	RCA	GPD	RF Amplifier	2N1395	
2N1396	RCA	GPD	RF Amplifier	2N1396	
2N1397	RCA	GPD	RF Amplifier	2N1397	
2N1412	DEL	GPA	AF Power Ampl	2N1412	
2N1412	RCA	GPA	AF Power Ampl	2N1412	
2N1425	RCA	GPD	IF Amplifier	2N1425	
2N1426	RCA	GPD	Converter	2N1426	
2N1431	SYL	GNA	AF Amplifier		2N270
2N1432	SYL	GPD	RF Amplifier		2N274
2N1479	RCA	SNJ	Power Switch	2N1479	
2N1480	RCA	SNJ	Power Switch	2N1480	
2N1481	RCA	SNJ	Power Switch	2N1481	
2N1482	RCA	SNJ	Power Switch	2N1482	
2N1483	RCA	SNJ	Power Switch	2N1483	
2N1484	RCA	SNJ	Power Switch	2N1484	
2N1485	RCA	SNJ	Power Switch	2N1485	
2N1486	RCA	SNJ	Power Switch	2N1486	
2N1487	RCA	SNJ	Power Switch	2N1487	
2N1488	RCA	SNJ	Power Switch	2N1488	
2N1489	RCA	SNJ	Power Switch	2N1489	
2N1490	RCA	SNJ	Power Switch	2N1490	
2N1491	RCA	SNJ	VHF Amplifier	2N1491	
2N1492	RCA	SNJ	VHF Amplifier	2N1492	
2N1493	RCA	SNJ	VHF Amplifier	2N1493	
2N1511	RCA	SNA	AF Power Ampl	2N1511	
2N1512	RCA	SNA	AF Power Ampl	2N1512	
2N1513	RCA	SNA	AF Power Ampl	2N1513	
2N1514	RCA	SNA	AF Power Ampl	2N1514	
2N1524	RCA	GPD	IF Amplifier	2N1524	

Transistor Interchangeability Directory

For key to symbols and footnotes see page 153-4.

Type To Be Replaced			Class of Service	Replace by RCA Type*	Similar RCA Type‡
Basic Designation	Mfr.	Description			
2N1525	RCA	GPD	IF Amplifier	2N1525	
2N1526	RCA	GPD	Converter	2N1526	
2N1527	RCA	GPD	Converter	2N1527	
2N1631	RCA	GPD	RF Amplifier	2N1631	
2N1632	RCA	GPD	RF Amplifier	2N1632	
2N1633	RCA	GPD	IF Amplifier	2N1633	
2N1634	RCA	GPD	IF Amplifier	2N1634	
2N1635	RCA	GPD	Converter	2N1635	
2N1636	RCA	GPD	Converter	2N1636	
2N1637	RCA	GPD	RF Amplifier	2N1637	
2N1638	RCA	GPD	IF Amplifier	2N1638	
2N1639	RCA	GPD	Converter	2N1639	
2N1683	RCA	GPJ	Switching	2N1683	

MANUFACTURER

KEY TO SYMBOLS IN COLUMN 2

AMP = Amperex
ARA = Advanced Research Associates
BEN = Bendix
BOG = Bogue
CBS = CBS-Hytron
CTP = Clevite
DEL = Delco
FCH = Fairchild
GE = General Electric
GTC = General Transistor
HA = Hughes Aircraft
MOT = Motorola
MAL = Mallory
MH = Minneapolis-Honeywell
N = Nucleonics
NA = National Aircraft
NU = National Union
PHL = Philco
RCA = Radio Corporation of America
RK = Raytheon
RR = Radio Receptor
SYL = Sylvania
SPR = Sprague
SRD = Sperry-Rand
TEC = Transitron
TI = Texas Instruments
TS = Tung-Sol
WE = Western Electric
WHE = Westinghouse

DESCRIPTION

KEY TO SYMBOLS IN COLUMN 3

GC = Germanium, Point-Contact Type
GMA = Germanium, Matched Pair, Alloy-Junction Types
GNA = Germanium, n-p-n, Alloy-Junction Type
GND = Germanium, n-p-n, "Drift" or Diffused-Base Type
GNG = Germanium, n-p-n, Grown-Junction Type
GPA = Germanium, p-n-p, Alloy-Junction Type
GPB = Germanium, p-n-p, Bilateral Type
GPD = Germanium, p-n-p, "Drift" or Diffused-Base Type
GPG = Germanium, p-n-p, Grown-Junction Type
GPS = Germanium, p-n-p, Surface-Barrier Type
GNB = Germanium, n-p-n, Bilateral Type
GSN = Germanium-Silicon, n-p-n
SND = Silicon, n-p-n, Diffused-Base Type
SNJ = Silicon, n-p-n, Diffused-Junction Type
SPD = Silicon, p-n-p, Diffused-Base Type
SNA = Silicon, n-p-n, Alloy-Junction Type
SNG = Silicon, n-p-n, Grown-Junction Type
SPA = Silicon, p-n-p, Alloy-Junction Type
SPG = Silicon, p-n-p, Grown-Junction Type
SD = Semiconductor Diode

* RCA types shown in this column are direct replacements under all circumstances for corresponding types to be replaced. However, when making a power transistor replacement, the service technician is reminded to readjust the bias potentiometer in accordance with the equipment manufacturer's directions for optimum performance.

‡ RCA types shown in this column are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective type data or write to Commercial Engineering, RCA, Somerville, N. J.

• RCA has discontinued this type.

Information contained herein has been carefully checked and is believed to be reliable but no responsibility is assumed for inaccuracies. The reporting of errors to Commercial Engineering, RCA, Somerville, N. J., will be appreciated.

RCA BATTERIES — QUICK SELECTION GUIDE

Type	Volts	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	NEDA • Type No.	Replaces Eveready	Burgess
PORTABLE "A" TYPES							
VS004	1½	2⅝	2⅝	4 1/16	4	742	4F
VS009	6	2 11/16	2 11/16	3¾	6	744	F4P1
VS010	6	3⅞	2 13/16	5½	1	718	2F4
VS034A♦	1½	—	9/16	2	15	915	Z
VS035A♦	1½	—	1	1 15/16	14	935	1
VS036♦	1½	—	1 1/32	2 13/32	13	950	2 or 2R
VS065	7½	2 7/32	1 15/16	3 1/32	9	717	C5
VS067	4½	3 15/16	1 5/16	4 3/32	3	736	F3
VS068♦	6	1 7/32	1 7/32	2 11/32	2	724	Z4
VS069	1½	2 9/16	1 5/16	2 29/32	18	720	2D
VS070	1½	—	1 5/16	3 15/16	23	960P	8R
VS072	4½	3 15/16	1 11/32	2 15/16	19	726	D3
VS129	7½	4⅛	1 5/16	3 1/16	8	713	B5
VS141	1½	2 19/32	1 11/32	4¼	11	W353	2F
VS236♦	1½	—	1 11/32	4 3/16	20	964	21R
VS315■	7½	2 9/16	2 1/32	2 13/16	26	707	D5
PORTABLE "B" TYPES							
VS012	45	3 31/32	2 17/32	5 5/16	207	484	B30
VS013	45	3 19/32	1 27/32	5½	202	482	M30
VS014	45	3½	2¼	4 9/16	206	W359	A30
VS015	22½, 45	3	2 5/16	4⅛	205	738	Z30
VS016■	67½	2 13/16	1⅜	3 23/32	200	467	XX45
VS055■	45	2 21/32	1	3 11/16	201	455	XX30
VS082■	67½	2 13/16	1⅜	2½	203	457	K45
VS084♦	22½	1 1/32	⅝	2	215	412	U15
VS086■	45	1 1/16	⅝	3 11/16	213	415	U30
VS090■	90	3 23/32	1⅜	3 23/32	204	490	N60
VS217■	75	1 15/16	1 15/32	6 15/32	212	437	XX50
VS218■	67½	1 29/32	1	5 7/16	211P	477	P45M, P45
VS219■	90	1 31/32	1 1/32	7 15/32	214	479	P60
VS316■	90	1 15/16	1 15/32	7⅛	216	495	N60X
VS318■	67½	1 11/32	1	3½	217	416	UX45

• National Electronic Distributors Association.
♦Flashlight-Type Terminals.
■2-Snap fasteners.

RCA BATTERIES — QUICK SELECTION GUIDE

Type	Volts	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	NEDA ● Type No.	Replaces Eveready	Burgess
FLASHLIGHT and LANTERN TYPES							
VS034A♦	1½	—	9/16	2	15	915	Z
VS035A♦	1½	—	1	1 15/16	14	935	1
VS036♦	1½	—	1 11/32	2 13/32	13	950	2 & 2R
VS040C	6	2 11/16	2 11/16	4 7/16	908	509	F4H
VS040S	6	2 11/16	2 11/16	4 5/32	915	510S	F4BP
VS073	1½	—	0.445	1.180	910	904	NE
VS074	1½	—	13/32	1¾	24	912	7
VS138	3	3⅞	2 11/16	6 1/16	901	W357	4F2H
VS317	6	5 11/32	2 27/32	4 15/16	918	731	TW1
TYPES FOR TRANSISTOR APPLICATIONS							
VS143♦	1.35	—	0.625	0.650	—	E1	RM1R
VS144♦	1.35	—	0.640	1.968	—	E12	RM12R
VS145♦	1.35	—	0.455	0.135	—	E400	RM400R
VS147♦	1.4	—	0.615	0.238	—	E630	RM630
VS148♦	2.7	—	0.662	1.315	—	E132	TR132R
VS149♦	4.2	—	0.662	1.965	—	E133	TR133
VS150♦	1.4	—	0.625	0.440	—	E640	RM640
VS163♦	4.2	—	0.662	1.327	—	E163	TR163
VS164♦	5.6	—	0.662	1.767	—	E164	TR164
VS165♦	7	—	0.662	2.217	—	—	TR165R
VS300A	9	—	1	1 15/16	1600	226	M1600
VS301	3, 6, 9	8	2 13/16	1 9/16	1601	2506	M1601
VS304	9, 13½	1 11/32	1 11/32	2 11/16	1900	239	M1900
VS305■	9	1 13/32	1 11/32	2¾	1602	246	M1602
VS306■	9	2 9/16	2 1/32	3 5/32	1603	276	M1603
VS309A■	9.8	—	9/16	1 29/32	1606	E177	TR177
VS312■	8.4	1	⅝	2	1604	E146	TR146R
VS313♦	1.4	—	0.550	1.968	15	E9	ZM9
VS321	4½	2 13/16	1¾	8 11/32	1303	2731	—
VS322■	9	1 13/16	1 13/16	2 7/16	1605	266	M1605
VS323■	9	1 1/32	11/16	1 29/32	1604	216	M1604
VS324■	4½	1 13/32	1 11/32	2¾	1610	243	M1610
VS325■	6	1 13/32	¾	4 11/16	1403	2713	—
VS334♦	1½	—	9/16	2	15	1015	M15R
VS335♦	1½	—	1	1 15/16	14	635	M14R
VS336♦	1½	—	1 11/32	2 13/32	—	A100	M13R
VS400■	4.2	—	1 1/32	1 31/32	1300	E233	TR233R

♦Flashlight-type Terminals.
● National Electronic Distributors Association.
■2-Snap Fasteners.

RCA BATTERIES — QUICK SELECTION GUIDE

Type	Volts A	Volts B	Volts C	Max. Dimensions Inches L.	Max. Dimensions Inches W. or Dia.	Max. Dimensions Inches Overall Ht.	NEDA Type No.	Replaces Eveready	Replaces Burgess
INDUSTRIAL and SPECIAL-PURPOSE TYPES									
VS006C	1½	—	—	—	2⅝	6⅝	906	6 Gray L.	—
VS006S	1½	—	—	—	2⅝	6⅝	905	6 Ign.	6 Ign.
VS028	—	—	−4½	2½	⅞	3 1/16	714	781	5360
VS029§	—	—	−7½	3⅞	⅞	3	713	773	5540
VS039	6	—	—	10 13/32	2 25/32	7⅞	907	1461	S461
VS040C	6	—	—	2 11/16	2 11/16	4 7/16	908	509	F4H
VS040S	6	—	—	2 11/16	2 11/16	4⅝	915	510S	F4BP
VS070	1½	—	—	—	1 5/16	3 15/16	23	960P	8R
VS083◆	—	15	—	1 1/32	⅝	1 15/32	208	411	U10
VS084◆	—	22½	—	1 1/32	⅝	2	215	412	U15
VS085◆	—	30	—	1 1/32	⅝	2⅝	210	413	U20
VS093	—	300	—	2 11/16	2 7/32	3 29/32	722	493	U200
VS100	3	—	—	2 11/16	1⅜	4⅝	701	W352	F2BP
VS101	1½	—	—	2 11/16	1⅜	4⅝	700	W354	2FBP
VS102	—	22½	—	3½	2 3/32	2 15/16	710	763	4156
VS103	6	—	—	8 5/16	2 13/16	6 3/16	902	706	4F4H
VS106	1½	—	—	2 11/16	2 11/16	4 3/16	900	735	4FH
VS112	—	22½, 45	—	4⅛	2 9/16	5½	709	W376	5308
VS114	—	22½, 45	—	3	1 29/32	5 3/32	711	W350	Z30NX
VS126*	—	22½, 45	—	8⅛	3¼	7 11/16	723	W365F	2308SC
VS127W	—	22½, 45	—	8 1/16	4⅜	7⅞	724	W363F	10308SC
VS130	—	—	−4½	3 11/32	1 11/32	3 11/16	712	761T	2370ST
VS131	—	—	−22½	4⅛	2 9/16	3 7/16	708	778	5156SC
VS133	4½	—	—	2½	⅞	2 9/16	706	703	532
VS134	3	—	—	1 7/16	¾	2 9/16	704	750	422
VS136*	3	—	—	2 11/16	2 11/16	4¼	703	W356	2F2H
VS138	3	—	—	3⅞	2 11/16	6 1/16	901	W357	4F2H
VS139	7½	—	—	7¼	4 1/16	6 1/16	903	715	4F5H
VS140*	9	—	—	8½	4 1/16	6 1/16	904	716	4F6H
VS142*	4½	—	—	2	¾	2 5/16	705	751	432
VS143◆	1.35	—	—	—	0.625	0.650	—	E1	RM1R▲
VS144◆	1.35	—	—	—	0.640	1.968	—	E12	RM12R▲
VS145◆	1.35	—	—	—	0.455	0.135	—	E400	RM400R▲
VS147◆	1.4	—	—	—	0.615	0.238	—	E630	RM630▲
VS148◆	2.7	—	—	—	0.662	1.315	—	E132	TR132R▲
VS149◆	4.2	—	—	—	0.662	1.965	—	E133	TR133▲
VS150◆	1.4	—	—	—	0.625	0.440	—	E640	RM640▲
VS157W*	—	22½, 45	—	8⅛	4⅝	7 11/16	715	W364F	21308SC
VS163◆	4.2	—	—	—	0.662	1.327	—	E163	TR163▲
VS164◆	5.6	—	—	—	0.662	1.767	—	E164	TR164▲
VS317	6	—	—	5 11/32	2 27/32	4 15/16	918	731	TW1

*Available on special order only. ◆Flashlight-type Terminals.
▲Mallory type.
§5-screw terminals & 1 pigtail.

RCA BATTERIES — QUICK SELECTION GUIDE

Type	Volts A	Volts B	Max. Dimensions Inches L.	W. or Dia.	Overall Ht.	• NEDA Type No.	Replaces Eveready	Replaces Burgess
PORTABLE "A-B" PACKS								
VS019	7½, 9	90	9 7/32	2 23/32	4 5/16	401	753	F6A60
VS047	9	90	14 1/16	2 11/16	4 1/16	400	752	G6B60
VS050	6, 7½	75	8 9/16	3¾	2 7/16	403	755	T5Z50
VS057W	7½, 9	90	8⅞	2⅛	3 25/32	405	756	T6Z60
VS058	9	90	9 7/32	2 23/32	4 7/32	406	757	F6A60P
VS059	9	90	8⅞	2⅛	3 25/32	428	727	T6Z60P
VS060	7½	75	8⅜	3⅝	2¼	431	785	T5Z50P
VS064	1½	90	3 27/32	2 7/32	7 13/16	425	729	4TZ60
FARM "A-B" PACKS								
VS022	1½	90	16	4¼	6¾	413	759	17GD60
VS119	7½, 9	90	8¼	4½	13⅞	415	776	S6D60

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RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Bright Star	
03-17	VS133
03-17S	VS028
6 Ign.	VS006S
6 Tel.	VS006C
10M	VS036 or VS336
11M	VS035A or VS335
12P	VS084
15-03W	VS131
15-50W	VS102
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	VS034A or VS334
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
126	VS138
146	VS039
155	VS139
158	VS317
260	VS100
305	VS072
360	VS067
361	VS067
460	VS040C
460S	VS040S

Type to be Replaced	Replace by RCA Type
Bright Star (cont'd)	
462	VS004
464	VS106
591	VS065
646	VS009
675	VS218
866	VS010
Burgess	
A30	VS014
B5	VS129
B30	VS012
C5	VS065
D3	VS072
D5	VS315
D6	VS306
D6BP	VS132
D6PI	VS301
F2BP	VS100
F3	VS067
F4BP	VS040S
F4H	VS040C
F4PI	VS009
F6A60	VS019
F6A60P	VS058
G3	VS067
G6B60	VS047
H233	VS400
K45	VS082
M6	VS322
M30	VS013
N	VS073
N60	VS090
N60X	VS316
NE	VS073
P6M	VS300A
P45	VS218
P45M	VS218
P60	VS219

RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Burgess (cont'd)	
S6D60	VS119
S461	VS039
T5Z50	VS050
T5Z50P	VS060
T6Z60	VS057W
T6Z60P	VS059
TW1	VS317
U10	VS083
U15	VS084
U20	VS085
U30	VS086
U200	VS093
UX45	VS318
XX9	VS304
XX30	VS055
XX45	VS016
XX50	VS217
Z	VS034A
Z4	VS068
Z30	VS015
Z30NX	VS114
ZMR	VS313 or VS334
1	VS035A
2	VS036
2D	VS069
2F	VS141
2F2H	VS136
2F4	VS010
2FBP	VS101
2N6	VS305
2R	VS336
2U6	VS312 or VS323
2Z3	VS324
4F	VS004
4F2H	VS138
4F4H	VS103
4F5H	VS139
4F6H	VS140
4FH	VS106
4FP1	VS009

Type to be Replaced	Replace by RCA Type
Burgess (cont'd)	
4TZ60	VS064
6 Ign.	VS006S
6 Tel.	VS006C
7	VS074
8R	VS070
17GD60	VS022
21R	VS236
130	VS335
230	VS336
422	VS134
432	VS142
532	VS133
930	VS334
2308SC	VS126
2370ST	VS130
4156	VS102
5156SC	VS131
5308	VS112
5360	VS028
5540	VS029
10308SC	VS127W
21308SC	VS157W
Eveready	
A100	VS336
E1	VS143
E9	VS313 or VS334
E12	VS144
E132	VS148
E133	VS149
E146	VS312 or VS323
E163	VS163
E164	VS164
E165	VS165
E177	VS309A
E233	VS400
E400	VS145
E630	VS147
E640	VS150

RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Eveready (cont'd)	
W350	VS114
W352	VS100
W353	VS141
W354	VS101
W356	VS136
W357	VS138
W359	VS014
W363F	VS127W
W364F	VS157W
W365F	VS126
6 "Gray Label"	VS006C
6 "Ignitor"	VS006S
216	VS312 or VS323
226	VS300A
239	VS304
243	VS324
246	VS305
266	VS322
276	VS306
411	VS083
412	VS084
413	VS085
415	VS086
416	VS318
437	VS217
455	VS055
457	VS082
467	VS016
477	VS218
479	VS219
482	VS013
484	VS012
490	VS090
493	VS093
495	VS316
509	VS040C
510S	VS040S
635	VS335
703	VS133
706	VS103

Type to be Replaced	Replace by RCA Type
Eveready (cont'd)	
707	VS315
713	VS129
715	VS139
716	VS140
717	VS065
718	VS010
720	VS069
724	VS068
726	VS072
727	VS059
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
759	VS022
761T	VS130
762S	VS112
763	VS102
773	VS029
776	VS119
778	VS131
781	VS028
785	VS060
904	VS073
912	VS074
915	VS034A
935	VS035A
950	VS036
960P	VS070

RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Eveready (cont'd)	
964	VS236
1015	VS313 or VS334
1461	VS039
2506	VS301
2713	VS325
2731	VS321
Mallory, P. R.	
M2	VS068
M3	VS067
M4	VS004
M6	VS009
M8	VS129
M9	VS065
M11	VS141
M13F	VS036
M13R	VS336
M14F	VS035A
M14R	VS335
M15F	VS034A
M15R	VS334
M18	VS069
M19	VS072
M20	VS236
M23	VS070
M24F	VS074
M26	VS315
M200	VS016
M201	VS055
M202	VS013
M203	VS082
M204	VS090
M205	VS015
M206	VS014
M207	VS012
M208	VS083
M210	VS085
M211P	VS218

Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)	
M212	VS217
M213	VS086
M214	VS219
M215	VS084
M216	VS316
M217	VS318
M400	VS047
M401	VS019
M403	VS050
M405	VS057W
M406	VS058
M413	VS022
M428	VS059
M431	VS060
M700	VS101
M701	VS100
M704	VS134
M705	VS142
M706	VS133
M708	VS131
M709	VS112
M710	VS102
M711	VS114
M712	VS130
M713	VS029
M714	VS028
M716	VS127W
M723	VS126
M900	VS106
M901	VS138
M902	VS103
M903	VS139
M904	VS140
M905	VS006S
M907	VS039
M908	VS040C
M910F	VS073
M914	VS006C
M915	VS040S
M918	VS317

RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)	
M1600	VS300A
M1601	VS301
M1602	VS305
M1603	VS306
M1604	VS312 or VS323
M1605	VS322
M1610	VS324
M1900	VS304
RM1R	VS143
RM12R	VS144
RM400R	VS145
RM630	VS147
RM640	VS150
TR132R	VS148
TR133	VS149
TR146	VS312 or VS323
TR163	VS163
TR164	VS164
TR165R	VS165
TR177	VS309A
TR233	VS400
ZM9	VS313
Marathon	
6T	VS006C
66	VS006S
111	VS035A
113	VS335
121	VS036
122	VS036
123	VS336
131	VS073
133	VS073
170	VS034A
173	VS313 or VS334
183	VS074
490R	VS040C
491	VS106
496S	VS040S

Type to be Replaced	Replace by RCA Type
Marathon (cont'd)	
640	VS039
640E	VS039
640F	VS039
896	VS317
901	VS138
902	VS103
903	VS139
904	VS140
1600A	VS300A
1601	VS301
1602	VS305
1603	VS306
1604	VS312 or VS323
1605	VS322
1610	VS324
1900	VS304
3001	VS010
3002	VS068
3003	VS067
3004	VS004
3006	VS009
3007	VS067
3008	VS129
3009	VS065
3011	VS141
3018	VS069
3019	VS072
3020	VS236
3023	VS070
3026	VS315
4200	VS016
4201	VS055
4202	VS013
4203	VS082
4204	VS090
4205	VS015
4206	VS014
4207	VS012
4208	VS083
4210	VS085

Type to be Replaced	Replace by RCA Type
Marathon (cont'd)	
4211	VS218
4212	VS217
4213	VS086
4214	VS219
4215	VS084
4216	VS316
4217	VS318
4311	VS218
5400	VS047
5401	VS019
5403	VS050
5405	VS057W
5406	VS058
5413	VS022
5415	VS119
5424	VS022
5425	VS064
5428	VS059
5431	VS060
6700	VS101
6701	VS100
6703	VS136
6704	VS134
6705	VS142
6706	VS133
6708	VS131
6709	VS112
6710	VS102
6711	VS114
6712	VS130
6713	VS029
6714	VS028
6715	VS157W
6716	VS127W
6722	VS093
6723	VS126

Type to be Replaced	Replace by RCA Type
Montgomery Ward	
6	VS035A
21	VS004
23	VS036 or VS336
24	VS002
26	VS067
27	VS236
28	VS141
29	VS065
33	VS019
37	VS047
40	VS218
41	VS014
42	VS013
43	VS016
46	VS090
47	VS217
49	VS012
51	VS022
54	VS119
55	VS219
57	VS022
67	VS313 or VS334
72	VS058
79	VS055
82	VS057W
84	VS131
86	VS084
87	VS085
92	VS305
93	VS306
95	VS304
96	VS300A
100	VS313 or VS334
120	VS086
121	VS400
123	VS312 or VS323
124	VS312 or VS323
3250	VS006S
3252	VS034A
3255	VS039

Type to be Replaced	Replace by RCA Type
Montgomery Ward (cont'd)	
3257	VS040C
3258	VS035A
3259	VS036
3260	VS034A
5226	VS029
Philco	
K	VS074
P4F	VS040C
P4F4R	VS009
P5B	VS029
P9	VS313 or VS334
P15	VS034A
P15R	VS313 or VS334
P26	VS315
P31	VS065
P38	VS067
P45	VS013
P60B6F6	VS047
P60D11L	VS022
P64	VS039
P67	VS016
P77	VS236
P88	VS306
P91	VS300A
P105	VS055
P132	VS090
P144	VS217
P146	VS312 or VS323
P149	VS218
P150	VS086
P176	VS219
P178	VS305
P190	VS316
P217	VS318
P326	VS119
P350	VS050

Type to be Replaced	Replace by RCA Type
Philco (cont'd)	
P364	VS064
P371	VS057W
P612	VS084
P630	VS147
P640	VS150
P696	VS400
P841A	VS019
P903	VS335
P907	VS036
P920	VS336
P1604	VS312 or VS323
P1605	VS322
6	VS006S
Ray-O-Vac	
A1	VS010
A2	VS068
A3	VS067
A4	VS004
A6	VS009
A7	VS067
A210	VS085
A400	VS047
A710	VS102
A716	VS127W
AB82	VS022
1LP	VS035A
2LP	VS036
5LP	VS036
6 Ign.	VS006S
6 Ign. S	VS006S
6 Tel. C	VS006C
7LP	VS034A
7R	VS034A
8	VS129
9	VS065
11	VS141
13	VS336
14	VS335
15	VS334

RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)	
18	VS069
19	VS072
20	VS236
23	VS070
26	VS315
200	VS016
201	VS055
202	VS013
203	VS082
204	VS090
205	VS015
206	VS014
207	VS012
208	VS083
211M	VS218
211P	VS218
212	VS217
213	VS086
214	VS219
215	VS084
217	VS318
400	VS074
401	VS019
403	VS050
405	VS057W
406	VS058
413	VS022
415	VS119
425	VS064
428	VS059
431	VS060
641	VS039
700	VS101
701	VS100
703	VS136
704	VS134
705	VS142
706	VS133
708	VS131
709	VS112

Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)	
711	VS114
712	VS130
713	VS029
714	VS028
715	VS157W
716	VS073
722	VS093
723	VS126
724	VS127W
900	VS106
901	VS138
902	VS103
903	VS139
904	VS140
909	VS132
918	VS317
941	VS040C
941SC	VS040S
1600	VS300A
1601	VS301
1602	VS305
1603	VS306
1604	VS312 or VS323
1605	VS322
1606	VS309A
1900	VS394
Sears (Homart)	
2259	VS106
4650	VS036
4653	VS034A
4656	VS074
4659	VS035A
4700	VS039
4701	VS006S
4702	VS040C
4702ST	VS040S
4707	VS317

RCA Battery Interchangeability Directory

Type to be Replaced	Replace by RCA Type
Sears (Homart) (cont'd)	
6312	VS022
6363	VS029
6401	VS047
6407	VS019
6408	VS050
6409	VS057W
6410	VS058
6417	VS312 or VS323
6418	VS300A
6419	VS306
6420	VS301
6430	VS004
6440	VS067
6442	VS236
6444	VS065
6445	VS336
6446	VS335
6447	VS313 or VS334
6448	VS313 or VS334
6461	VS013
6465	VS090
6470	VS219
6480	VS016
6482	VS218
6485	VS086
8212	VS084
8213	VS085
Usalite	
AB666	VS022
AB677	VS047
6 Ign.	VS006S
6T	VS006C
74	VS035A or VS335
75LP	VS036 or VS336
603	VS135
606	VS029
613	VS131
616	VS103

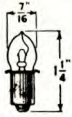
Type to be Replaced	Replace by RCA Type
Usalite (cont'd)	
620	VS015
621	VS014
623	VS112
624	VS012
634	VS004
634S	VS106
638	VS010
639	VS009
640	VS013
641	VS039
650	VS127W
660	VS157W
680	VS019
681	VS057W
682	VS058
683	VS067
684	VS236
685	VS065
688	VS067
720	VS139
745	VS055
767	VS016
768	VS217
769	VS090
777	VS218
908	VS034A or VS334
911	VS073
934	VS040C
934S	VS040S
972	VS028
1005	VS133
1090	VS142
1095	VS134

Type to be Replaced	Replace by RCA Type
Wizard (Western Auto)	
3B6113	VS236
3B6135	VS067
3B6160	VS065
3B6228	VS014
3B6239	VS012
3B6241	VS013
3B6242	VS055
3B6257	VS218
3B6258	VS016
3B6260	VS090
3B6430	VS022
3B6432	VS022
3B6460	VS019
3B6462	VS058
3B6464	VS050
3B6465	VS305
3B6466	VS057W
3B6467	VS300A
3B6469	VS312 or VS323
3B6705	VS074
3B6710	VS034A or VS334
3B6730	VS035A or VS335
3B6732	VS036
3B6750	VS036
3B6755	VS336
3B6760	VS040C
3B6761	VS040S
3B6767	VS317
3B6810	VS313 or VS334
3B6869	VS312 or VS323
3B6916	VS006S
3B6928	VS039

Type to be Replaced	Replace by RCA Type
Zenith	
N	VS073
Z1	VS070
Z2NL	VS036
Z4NL	VS336
Z5	VS236
Z7	VS035A or VS335
Z8	VS034A or VS334
Z9	VS313 or VS334
Z11M	VS083
Z12M	VS084
Z13M	VS085
Z67	VS016
Z83A	VS067
Z90	VS219
Z94	VS004
Z216	VS312 or VS323
Z226	VS300A
Z276	VS306
Z415	VS086
Z437	VS217
Z450	VS072
Z455	VS055
Z457	VS082
Z477	VS218
Z490	VS090
Z495	VS316
Z530	VS014
Z550	VS012
Z707	VS315
Z736	VS067
Z750	VS065
Z775	VS060
Z783	VS013
Z802	VS022
Z909	VS058
Z912	VS074
Z962	VS059
Z979	VS019
Z985	VS047
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.	

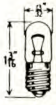


B-3½ Bulb
Min. Flange Base

TL-3 Bulb
Min. Screw Base

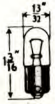
G-3½ Bulb
Min. Screw Base

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

WIDE VARIETY OF GRADES AND TYPES

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

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)
262C1	3	150
284C1	5	600
285C1	7	1200
265C1	— —	2400
266C1	10½	2400
267C1	10½	2400
268C1	10½	2400

MYLAR* (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
290C1	5	600
291C1	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)
289C1	5	900
286C1	7	1800
269C1	— —	3600
270C1	10½	3600
272C1	10½	3600
271C1	10½	3600

MYLAR* (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
263C1	3	225
253C1	5	900
258C1	7	1800
276C1	— —	3600
277C1	10½	3600
279C1	10½	3600
278C1	10½	3600

*DuPont Registered Trade Mark

RCA SOUND TAPE AND AUDIO DEVICES

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 ¾-mil Tensilized Mylar, which has twice the tensile strength of ½-mil Mylar.

MYLAR* (POLYESTER) BASE

RCA Type	Reel Diameter (inches)	Tape Length (feet)
252C1	5	1200
287C1	7	2400

TENSILIZED MYLAR* BASE

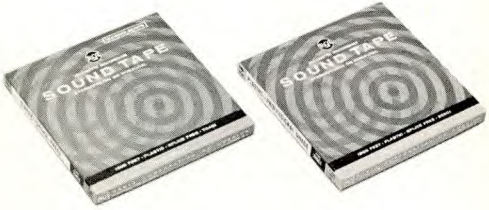
RCA Type	Reel Diameter (inches)	Tape Length (feet)
296C1	3	300
260C1	5	1200
288C1	7	2400
273C1	10½	4800
275C1	10½	4800
274C1	10½	4800

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.

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

*Du Pont Registered Trade Mark



RCA SNAP-LOAD CARTRIDGE

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

TAPE ACCESSORIES

RCA Type	Description
501C1	5-Reel Tape Chest for 5″ Reels
502C1	5-Reel Tape Chest for 7″ Reels
505C1	Leader & Timing Tape
506C1	5″ Standard Reel with Box
507C1	7″ Standard Reel with Box
508C1	5″ Empty Box
509C1	7″ Empty Box
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
STSD-4	Deluxe Tape Splicer

TEST AND MEASURING EQUIPMENT

WV-77E
VoltOhmyst®
and
WV-77E(K)
VoltOhmyst Kit

Here's a favorite member of the world-famed RCA Volt-Ohmyst Family! Available as a kit or as a completely wired, factory-calibrated instrument. Features flat frequency response ±5% from 40 cps to 5 Mc on the 1.5, 5, and 15-volt rms ranges and the 4, 14, and 40-volt peak-to-peak ranges. Measures dc from 0.02 volt to 1500 volts, rms ac from 0.2 volt to 4000 volts, and resistance from 0.2 ohm to 1000 megohms—all in seven overlapping ranges. Full scale accuracy ±3% on dc and ±5% on ac. Meter is electronically protected against burnout. Separate scales are provided for low ac measurements. Input resistance is standard 11 megohms. W 5⅝", H 7¾", D 4¾"; Weight 5 lbs. Also features sleeve on handle for storing probes and cables; fuse in ohms circuit prevents accidental burnout; new circuit minimizes effect of residual gas in bridge tube; color-coded scales for easier, faster readings; ultra-slim probes and extra-flexible-cables.

RCA ELECTRONIC INSTRUMENTS

WV-38A Volt-Ohm-Milliammeter and WV-38A(K) Volt-Ohm-Milliammeter Kit

Exclusive with the new RCA WV-38A VOM are the special ranges for transistor servicing—extra 0.25-volt and 1-volt ranges—and new spring clips on handle to accommodate probes and test leads for extra carrying convenience. The new instrument has these popular features: ohm-divider network fuse-protected; easy-to-read scales; polarity reversal switch; excellent frequency response; full-wave bridge rectifier; standard dbm ranges; plus modern styling! W 5¼" x H 6⅞" x D 3⅛".

WO-33A Oscilloscope and WO-33A(K) Oscilloscope Kit

This all-purpose scope is SUPER PORTABLE. Weighs only 14 pounds. Its small compact size, plus its high gain and wide bandwidth, will let you tackle virtually any electronics servicing job you encounter inside or outside the shop or lab. The WO-33A will give you what you need in gain, bandwidth, transient response, accuracy, versatility, and portability—and it features voltage-calibrated frequency-compensated 3-to-1 step attenuator; scaled graph screen and calibrating voltage source allows direct reading of peak-to-peak voltages; "plus-minus" internal sync—holds sync at 4.5 Mc; shielded input cable with low-capacitance probe; built-in brackets to hold power cord, cables and probe. Because of its compactness and portability, servicemen will find this the ideal second scope. W. 6½" x H 8¾" x D 10¼".

RCA ELECTRONIC INSTRUMENTS

WV-98B Senior VoltOhmyst®

Also available in kit version

WV-98B(K)

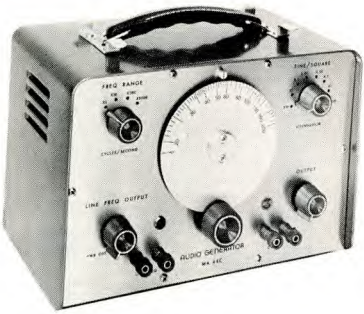
For making accurate ac and dc voltage measurements as well as measuring resistances from 0 to 1000 megohms. Measures peak-to-peak values of complex waveforms. Ruggedized die-cast aluminum case. Large, easy-to-read 6½-inch meter! A fine VTVM for electronics technicians and engineers. Includes special dc/ac-ohms shielded probe and cable. W 7" x H 6½" x D 3¾".

WR-49B RF Signal Generator

For alignment and signal tracing of AM/FM receivers, low-frequency signal tracing and alignment of TV vf/if amplifiers. Six ranges—85 Kc to 30 Mc. Internal 400 cps modulation. Low rf signal leakage! DC blocking capacitors at rf and af output terminals prevent damage to instrument or external circuits. Shielded cable for rf and af output included. W 10½" x H 7" x D 6".

RCA ELECTRONIC INSTRUMENTS

Audio Signal Generator, WA-44C
Sine/Square Wave Output



The compact WA-44c is designed for use in testing electronic equipment, and other applications which require a sine or square wave audio-frequency signal. The instrument is ac operated from a 50-to-0 cycle, 105-125 volt source, and covers in four bands a range from 20 cps to 200,000 cps. This instrument can be used for a wide variety of applications, including the measurement of frequency response characteristics of audio amplifiers, and the testing of loudspeakers and enclosures. In addition, the WA-44C can be used in finding the impedance of LC combinations. Width $10\frac{11}{16}$", Height 7", Depth $6\frac{1}{8}$".

The circuit of the sine-wave function consists of a "Bridged-T" oscillator with a cathode follower output stage. An attenuator circuit, a clipper circuit, and an output cathode follower are combined to produce the square wave output. This instrument features circuit design that produces a stable signal with an amplitude variation of not more than ± 1.5 db. Total harmonic distortion is limited to 0.25% over the range of 30 cps to 15 kc., and the hum level is less than 0.1% of the rated output. Can be used with high- or low-impedance circuits.

RCA ELECTRONIC INSTRUMENTS

WR-64A Color-Bar/Dot/ Crosshatch Generator

For checking over-all operation of Color-TV receivers and a "must" for adjusting and trouble-shooting color phasing and matrixing circuits. Generates signals for producing ten bars of different colors simultaneously. Also provides extremely stable fine-line crosshatch and dot patterns free from "jitter" and "crawl." Fixed number of bars in crosshatch and dot patterns facilitates adjustment of over-scan (height and width). Dot/Crosshatch generating function requires no external sync connection; simply connect to the antenna terminal of the set. Can be used on both black-and-white and color sets. All three patterns — color bar, dot and crosshatch — are RF outputs, factory set to channel 3 (can be set to channel 4). A sound carrier is provided to permit accurate adjustment of the fine-tuning control on the receiver. The WR-64A features a chroma control helpful in checking color sync lock and color AFC alignment. The color subcarrier frequency, the horizontal sync-pulse frequency, and the "bar" frequency are all crystal controlled. A shielded terminated output cable is provided with the instrument. W 13½" x H 10" x D 7½". Weighs only 13 pounds.

RCA ELECTRONIC INSTRUMENTS

WR-69A Television/FM Sweep Generator

For visual alignment and trouble-shooting of TV rf/if/vf circuits and other electronic equipment. IF/video frequency ranges 50 Kc to 50 Mc, TV channels 2 to 13, plus FM range—88-108 Mc. Sweep width 0-12 Mc or more. Attenuation ratio 60 db or more below maximum output. All cables included with instrument. W 13⅝" x H 10" x D 7".

WO-91A 5-inch Color-TV Oscilloscope

The WO-91A is a high-performance, wide-band oscilloscope ideally suited for color-TV, black-and-white TV, and other electronic applications. Dual bandwidth (4.5 Mc, 0.053 volts rms/in.) (1.5 Mc, 0.018 volts rms/in.). Internal calibrating voltage and calibrated graph screen. Includes special direct/low cap shielded probe and cable. W 9" x H 13½" x D 16½".

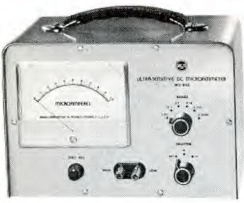
RCA ELECTRONIC INSTRUMENTS

WT-100A Electron-Tube MicroMhoMeter

The WT-100A is a laboratory instrument which measures tube characteristics, under actual operating-voltage and current conditions, with an accuracy comparable to that of tube manufacturers' equipment. Tests receiving-type and small transmitting tubes. Plug-in multiple-socket assemblies and 14-pin selector switches assure utmost flexibility for present and future requirements. The WT-100A measures: true transconductance with an accuracy better than ±3%, both control-grid-to-plate and suppressor-grid-to-plate values; electrode currents —plate, screen grid, suppressor grid, and control grid currents from 3 microamps full scale to 300 ma full scale; ac heater current; and voltage drop of vacuum and gas tubes, dry-disc rectifiers and crystal diodes. Features built-in gm calibrating circuit—no null meters or extra devices required; built-in shorts test; burnout-proof meter, even on 3 microamp full-scale range; regulated power supplies for dc voltages; 250-ma dc supply for filaments of battery-operated tube types; measures gm up to 100,000 micromhos in 6 ranges. W 23½" x H 8" x D 18½".

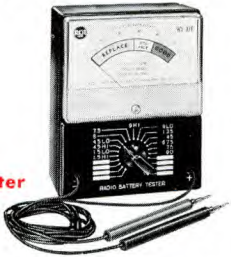
RCA ELECTRONIC INSTRUMENTS

WV-84C Ultra-Sensitive DC Microammeter



A battery-operated, vacuum-tube microammeter designed for measuring minute direct currents in industrial, chemical and general laboratory applications. Self-contained batteries permit use almost anywhere. Low-drain tubes extend battery life and protect the meter against burnout due to accidental overloads. When the instrument is used as a voltmeter, it is especially suited to measurements in circuits where loading is a critical factor. It can also be used as an ohmmeter to measure extremely high resistances, such as leakage and insulation resistance in the order of billions of ohms. Features six direct-current ranges for currents from 0.0002 to 1000 microamperes. Overall microammeter accuracy on X.01 ranges ±5% of full scale; accuracy on all other ranges ±4% of full scale. Voltage drop for full scale deflection only 0.5-volt. W 10½" x H 7½" x D 6¼".

WV-37B Battery Tester



The WV-37B is designed to test over 60 different types of tube-portable and transistor-portable radio batteries. The tester has a large easy-to-read meter which tests batteries in terms of "REPLACE-USABLE-GOOD" and above these colored ranges a scale shows the percentage of rated output voltage of the battery under test. Simple, and easy-to-use, the new WV-37B Battery Tester also has eight blank switch positions which allow for testing future additional battery types.

WR-70A RF/IF/Vf Marker Adder

This instrument eliminates possibility of waveform distortion during visual alignment techniques by adding markers after the rf signal is demodulated. To be used with WR-69A, WR-99A or similar electronic equipment. Provides four marker choices: positive peak, negative peak, positive and negative peaks (wide band), positive and negative peaks (narrow band) for discriminator alignment. Hi-Q markers are high in amplitude, narrow in width. Power Supply voltage is stabilized for rock-steady trace display. W 10½" x H 7½" x D 6¼".

WR-99A Crystal-Calibrated Marker Generator

Supplies fundamental-frequency rf carrier of crystal accuracy for aligning and trouble-shooting color, black-and-white TV, FM receivers and other electronic equipment operating in 19 Mc to 260 Mc range. All important sound- and picture-carrier frequencies, intermediate frequencies, and color-TV points are spotted on dial scale. Easy-to-read, spreadout dial scales and adjustable index pointer permit precise setting of frequency. Built-in speaker for zero-beat calibrating checks. Supplied complete with cables. W 13½" x H 10" x D 7".

RCA ELECTRONIC INSTRUMENTS

WG-289 and WG-297 High Voltage Probes

The WG-289 extends the dc-voltage range of the WV-98A, WV-77A, WV-77B, WV-77C, WV-97A, WV-87A, WV-87B VoltOhmysts to 50,000 volts. The WG-297 extends the range of the WV-77E and the WV-77E(K) to 50,000 volts. The WG-289 is provided with a microphone-type connector, and the WG-297 is provided with banana-plugs for use with the appropriate VoltOhmysts and other voltmeters. WG-206—1090 megohm multiplier resistor for VTVM's having 11-megohm input (multiplying factor 100). WG-210—900-megohm resistor multiplies 5000-volt dc range of 20,000 ohms-per-volt VOM's by a factor of 10. WG-211—495-megohm resistor multiplies 250-volt dc range of 20,000-ohms-per-volt VOM's by factor of 100.

WP-25A TV Isotap

Speed up servicing, prevent damage to test equipment, minimize shock hazards, cut down costly returns. The WP-25A may be used as a high-medium-low isolation transformer for testing TV receivers at various settings of line voltage. Supplies outputs of 130, 115, and 105 volts at maximum load and is tapped to match line voltages from 105 to 130 volts in six steps.

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

WA-44A	(Audio Oscillator)	$0.50
WA-44B	(Audio Oscillator)	.50
WA-44C	(Audio Oscillator)	1.00
WO-33A	(3" Oscilloscope)	1.00
WO-56A	(7" Oscilloscope)	.50
WO-78A	(5" Oscilloscope)	.50
WO-88A	(5" Oscilloscope)	.50
WO-91A	(5" Oscilloscope)	1.00
WR-36A	(Dot-Bar Gen.)	.50
WR-39C	(TV Calibrator)	.50
WR-46A	(Video Dot/Crosshatch Gen.)	.75
WR-49A	(RF Generator)	.50
WR-49B	(RF Generator)	1.00
WR-61B	(Color-Bar Gen.)	1.00
WR-67A	(Test-Oscillator)	.25
WR-69A	(TV/FM Sweep Gen.)	1.00
WR-70A	(RF/IF/VF Marker Adder)	.75
WR-86A	(UHF Sweep Gen.)	.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 UTVM	.75
WV-75A	(VoltOhmyst)	.25
WV-77A	(VoltOhmyst)	.25
WV-77B	(VoltOhmyst)	.25
WV-77C	(VoltOhmyst)	1.00
WV-77E	(VoltOhmyst)	1.00
WV-84B	(Microammeter)	.75
WV-87A	(VoltOhmyst)	.50
WV-87B	(VoltOhmyst)	.75
WV-95A	(VoltOhmyst)	.25
WV-97A	(VoltOhmyst)	.50
WV-98A	(VoltOhmyst)	1.00
195-A	(VoltOhmyst)	.25
WT-100A	(Electron-Tube MicroMhoMeter)	1.75
WT-100A	(Tube Chart)	3.00
WT-110A	Automatic Electron-Tube Tester	1.00
Form 110AIB(2)	Card Punch Data	1.00

JANUARY 1961

SUN. 1

New Year's Day

MON. 2

TUES. 3

WED. 4

THURS. 5

FRI. 6

SAT. 7

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