

RCA

***REFERENCE
BOOK***

1965

**THE W. M. PATTISON SUPPLY CO.
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PHONE: 621-7320**

1965



REFERENCE BOOK

RECEIVING TUBES
INDUSTRIAL-TYPE TUBES
PICTURE TUBES
CATHODE-RAY AND POWER TUBES
PHOTOTUBES
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BATTERIES
SEMICONDUCTOR DEVICES
MINIATURE LAMPS

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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 quarterly. Available free of charge from your RCA Electron Tube Distributor.



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

RCA MAGAZINES



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

RCA TECHNICAL PUBLICATIONS

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

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

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

ELECTRON TUBES



• **RCA ELECTRON TUBE HANDBOOK—HB-3** ($7\frac{3}{8}'' \times 5\frac{5}{8}''$). Five deluxe $2\frac{1}{4}$ -inch-capacity black binders imprinted in gold. The "bible" of the industry—contains over 6000 pages of loose-leaf data curves and application and selection guides on RCA receiving tubes, transmitting tubes, cathode-ray tubes, picture tubes, photocells, phototubes, camera tubes, ignitrons, vacuum and gas rectifiers, magnetrons, traveling-wave tubes, premium tubes, pencil tubes, and other miscellaneous types for special applications. Available on subscription basis. Price \$20.00 including service for first year. Also available with RCA SEMI-CONDUCTOR PRODUCTS HANDBOOK HB-10 at special combination price of \$25.00. Write to Commercial Engineering, RCA, Harrison, N. J., for Descriptive Flyer and Order Form.

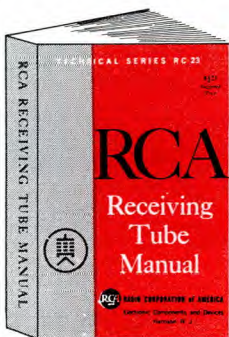
RCA RECEIVING TUBES

Technical Publications

Copies of the publications listed below may be obtained from your RCA Distributor or from Commercial Engineering, Radio Corporation of America, Harrison, N. J.

• **RADIOTRON® DESIGNER'S HANDBOOK**—4th Edition (8 $\frac{3}{4}$ " x 5 $\frac{1}{2}$ ")—1500 pages. Comprehensive reference thoroughly covering the design of radio and audio circuits and equipment. Written for the design engineer, student, and experimenter. Contains 1000 illustrations, 2500 references, and cross-referenced index of 7000 entries. Edited by F. Langford-Smith of Amalgamated Wireless Valve Company Pty. Ltd. in Australia. Price \$7.00.

• **RCA RECEIVING TUBE MANUAL**—RC-23 (8" x 5 $\frac{3}{8}$ ")—608 pages. Biggest manual yet, with over 1200 receiving tubes described. Completely restyled and uses new type face for improved readability. Features a 50-page tabular section which contains definitive data for more than 500 discontinued and renewal types. Also includes data on picture tubes for black and white and color TV, as well as tube theory, application data, selection charts, and typical circuits. Price \$1.25.



RCA RECEIVING TUBES AND PICTURE TUBES — 1275L (10 7/8" X 8 3/8") Completely revised, up to date booklet contains application guide, RCA receiving tube types and similar types list, data, and terminal diagrams on approximately 1200 entertainment receiving tubes and picture tubes. Price 50 cents.

Technical Publications (cont'd)

• **RCA NOVAR TUBES**—1CE-311 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—12 pages. Describes unique features of novar tube types and includes tabular data, dimensional outlines, curves and terminal diagrams. Single copy free on request.

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

• **RCA COLOR TV TROUBLESHOOTING PICT-O-GUIDE**—1A1389 (9 $\frac{9}{16}$ " x 6 $\frac{2}{16}$ ")—153-page hard-bound book. Presents latest available information to simplify and speed up the installation, adjustment, and servicing of color-TV receivers. Step-by-step instructions, supplemented by hundreds of charts, tables, circuit diagrams, and general illustrations—many of which are shown in true-to-life color. Prepared by RCA Institutes, Inc., under Mr. John R. Meagher's guidance. Price \$5.75.



• **TV SERVICING**—TVS-1030 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—48 pages. Contains articles on TV troubleshooting, TV tuner alignment, and TV circuit analysis by RCA's expert in the field of TV servicing and test equipment: John R. Meagher. Price 35 cents.

• **TV SERVICING, SUPPLEMENT**—TVS-1031 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—12-page booklet by John R. Meagher on solving troubleshooting problems in those hard-to-service TV receivers known to service technicians as "tough" sets or "dogs." Price 15 cents.

• **TECHNICAL BULLETINS**—Authorized information on RCA transmitting tubes and other tubes for communications and industry. Be sure to mention tube-type bulletin desired. Single copy on any type free on request.

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

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RCA RECEIVING-TUBES

**Miniature, Novar, Nuvistor, GT
and other Receiving Tubes**



Section 1 (pages 10 to 24)

The Numerical Index lists in numerical-alphabetical sequence Receiving tube types which are in the current RCA line.



Section 2 (pages 25 to 29)

Lists in numerical-alphabetical sequence RCA types which have been discontinued and are listed only for reference.

Tube types which are listed in the RCA "Similar Types" column may or may not be direct replacements because of mechanical and/or electrical differences. For more information as to the degree of similarity, refer to tube data.


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

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
0Z4		E2	4R	1X2A		B13	9Y
0Z4G		F2	4R ¹	1X2B		B13	9Y
1A3		A2	5AP	2A3		K11	4D
1A5GT		F7	6X	2AF4B	2DZ4	A1	7DK
1A7GT		F8	7Z	2AH2	2AS2	L5	12DG
1AD2	1B3GT, 1G3GT/ 1B3GT, 1J3, 1K3, 1K3/1J3	L5	12DQ	2AS2	2AH2	L6	12EW
1AX2		B8	9Y	2BN4A		A2	7EG
1B3GT	1AD2, 1G3GT/ 1B3GT, 1J3, 1K3, 1K3/1J3	F21	3C	2CW4	2DS4	D1	12AQ
1DN5		A2	6BW	2CY5		A2	7EW
1G3GT/ 1B3GT	1AD2, 1B3GT, 1J3, 1K3, 1K3/1J3	F13	3C	2DS4	2CW4	D1	12AQ
1H5GT		F8	5Z	2DV4		D1	12EA
1J3	1AD2, 1B3GT, 1G3GT/1B3GT, 1K3, 1K3/1J3	F21	3C ²	2DZ4	2AF4B	A1	7DK
1K3	1AD2, 1B3GT, 1G3GT/1B3GT, 1J3, 1K3/1J3	F13	3C ²	2EN5		A2	7FL
1K3/1J3	1AD2, 1B3GT, 1GBGT/1B3GT, 1J3, 1K3	F13	3C ²	2ER5		A2	7FP
1L6		A2	7DC	2FH5		A2	7FP
1LA6		J2	7AK	2FS5		A2	7GA
1LB4		J2	5AD	2GK5		A2	7FP
1LH4		J2	5AG	2GU5		A2	7GA
1LN5		J2	7AO	3A2		B5	9DT
1N5GT		F8	5Y	3A3	3A3/3B2, 3AT2, 3AW3, 3B2	F21	8EZ
1R5		A2	7AT	3A3/3B2	3A3, 3AT2, 3AW3, 3B2	F21	8EZ
1S4	3S4	A2	7AV	3AF4A	3DZ4	A1	7DK
1S5		A2	6AU	3AL5		A1	6BT
1T4		A2	6AR	3AT2	3A3, 3A3/3B2, 3AW3, 3B2	L6	12FV
1U4		A2	6AR	3AU6		A2	7BK
1U5		A2	6BW	3AV6		A2	7BT
1V		K4	4G	3AW3	3A3, 3A3/3B2, 3AT2, 3B2	F13	8EZ
1V2		B2	9U	3B2	3A3, 3A3/3B2, 3AT2, 3AW3	F39	8GH
				3BA6		A2	7BK
				3BC5		A2	7BD
				3BE6		A2	7CH
				3BN4A		A2	7EG
				3BN6		A3	7DF



See page 24 for explanation of footnotes.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
3BU8	3GS8,3GS8/3BU8	B4	9FG	4BS8		B2	9AJ
3BY6		A2	7CH	4BU8	4GS8,4GS8/4BU8	B4	9FG
3BZ6		A2	7CM	4BZ6		A2	7CM
3CB6	3CF6	A2	7CM	4BZ7	4BC8,4BQ7A	B2	9AJ
3CE5		A2	7BD	4CB6	4DE6,4DK6	A2	7CM
3CF6	3CB6	A2	7CM	4CS6		A2	7CH
3CS6		A2	7CH	4CY5		A2	7EW
3CY5		A2	7EW	4DE6	4CB6,4DK6	A2	7CM
3DG4		F26	5DE	4DK6	4CB6,4DE6	A2	7CM
3DK6		A2	7CM	4DT6A		A2	7EN
3DT6A		A2	7EN	4EH7		B7	9AQ
3DZ4	3AF4A	A1	7DK	4EJ7		B7	9AQ
3EA5		A2	7EW	4ES8		B2	9AJ
3EH7		B7	9AQ	4EW6		A2	7CM
3EJ7		B7	9AQ	4GK5		A2	7FP
3ER5		A2	7FP	4GM6		A2	7CM
3FH5		A2	7FP	4GS8/4BU8	4BU8,4GS8	B4	9LW
3GK5	3HA5,3HM5/ 3HA5	A2	7FP	4GS8	4BU8,4GS8/4BU8	B4	9LW
3GS8/3BU8	3BU8,3GS8	B4	9LW	4GZ5		A2	7CV
3GS8	3BU8,3GS8/3BU8	B4	9LW	4HM6		B2	9PM
3HA5	3GK5,3HM5/3HA5	A1	7GM	4HS8		B4	9FG
3HM5/3HA5	3GK5,3HA5	A2	7GM	4HT6		B2	9PM
3JC6	3JD6	B2	9PM	4JC6	4JD6	B2	9PM
3JD6	3JC6	B2	9PM	4JD6	4JC6	B2	9PM
3LF4		J2	6BA	5AM8		B2	9CY
3Q4	3V4	A2	7BA	5AN8	5AV8,5B8	B2	9DA
3Q5GT		F7	7AP	5AQ5		A3	7BZ
3S4	1S4	A2	7BA	5AS4A	5BC3,5BC3A,5T4, 5U4G,5U4GB, 5X4G,5Z3	F23	5T
3V4	3Q4	A2	6BX	5AS8		B2	9DS
4AU6		A2	7BK	5AT8	5CG8,5X8	B2	9DW
4AV6		A2	7BT	5AU4		F31	5T
4BC5		A2	7BD	5AV8	5AN8,5B8	B2	9DZ
4BC8	4BQ7A,4BZ7	B2	9AJ	5AZ4	5Y3GT,5Y4GA, 5Y4GT,5Z4,80	J3	5T
4BL8		B2	9DC	5B8	5AN8,5AV8	B2	9EC
4BN6		A3	7DF				
4BQ7A	4BC8,4BZ7	B2	9AJ				



Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
5BC3	5AS4A,5T4,5U4G, 5U4GB,5X4G,5Z3	C15	9QJ	5X4G	5AS4A,5BC3, 5BC3A,5T4, 5U4G,5U4GB,5Z3	F40	5Q
5BC3A		C13	9QJ				
5RE8	5BR8,5U8	B2	9EG	5X8	5AT8,5CG8	B2	9AK
5BK7A		B2	9AJ	5Y3GT	5AZ4,5Y4GA, 5Y4GT,5Z4,80	F9	5T ⁴
5BQ7A		B2	9AJ	5Y4GA	5AZ4,5Y3GT, 5Z4,80	F26	5Q
5BR8	5BE8,5U8	B2	9FA	5Y4GT		F9	5Q ²
5BT8		B2	9FE	5Z3	5AS4A,5BC3, 5BC3A,5T4,5U4G, 5U4GB,5X4G	K11	4C
5BW8		B2	9HK	5Z4	5AZ4,5Y3GT, 5Y4GA,5Y4GT,80	E4	5L ³
5CG8	5AT8,5X8	B2	9GF	6A7	6A8	K5	7C
5CL8A	5CQ8	B2	9FX	6A8	6A7,7B8	E3	8A
5CM8		B2	9FZ	6AB4		A2	5CE
5CQ8	5CL8A	B2	9GE	6AB5/6N5		K3	6R
5CZ5		B10	9HN	6AB7		E2	8N ⁶
5DH8		B2	9EG	6AC5GT		F7	6Q
5DJ4		F26	8KS	6AC7		E2	8N ⁶
5EA8	5EU8	B2	9AE	6AF3		B11	9CB
5EU8	5EA8	B2	9JF	6AF4	6DZ4	A2	7DK
5EW6		A2	7CM	6AF4A		A1	7DK
5FG7		B2	9GF	6AF6G		F1	7AG
5FV8		B2	9FA	6AF11	6AS11	L2	12DP
5GH8		B2	9AE	6AG5	6BC5	A2	7BD
5GM6		A2	7CM	6AG7	6CL6	E4	8Y
5GX6		A2	7EN	6AG11		L1	12DA
5J6		A2	7BF	6AH4GT		F7	8EL
5KE8		B2	9DC	6AH6		A2	7BK ⁷
5T4	5AS4A,5BC3, 5BC3A,5U4G, 5U4GB,5X4G,5Z3	F24	5T ³	6AK5		A1	7BD
5T8		B2	9E	6AL3		B12	9CB
5U4G	5AS4A,5BC3, 5BC3A,5T4, 5X4G,5Z3	F40	5T	6AL5		A1	6BT
5U4GB		F26	5T	6AL7GT		F7	8CH
5U8	5BE8,5BR8	B2	9AE	6AL11		L2	12BU
5V3A		F26	5T	6AM4		B1	9BX
5V4G		F29	5L	6AM8A		B2	9CY
5V4GA		F18	5L	6AN4		A1	7DK
5V6GT		F7	7AC				

See page 24 for explanation of footnotes.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
6AN8A	6CH8	B2	9DA	6BC8	6BQ7A,6BS8,6BZ7	B2	9AJ
6AQ5A		A3	7BZ	6BD6	6SK7,6SK7GT,7A7	A2	7BK
6AQ6	6AT6,6Q7	A2	7BT	6BD11	6AF11,6AS11	L2	12DP
6AQ7GT	7K7	F7	8CK	6BE3	6AY3,6AY3B, 6BS3,6BS3A	L4	12GA
6AQ8		B2	9AJ	6BE6	6SA7,6SA7GT	A2	7CH
6AR5		A3	6CC	6BF5		A3	7BZ
6AR11		L1	12DM	6BF6	6R7,6SR7	A2	7BT
6AS5		A3	7CV	6BF11		L2	12EZ
6AS8		B2	9DS	6BG6G		F41	5BT
6AS11	6AF11	L2	12DP	6BG6GA		F34	5BT
6AT6	6AQ6,6Q7	A2	7BT	6BH3		C9	9HP
6AT8A	6CG8A,6JC8,6X8	B2	9DW	6BH3A		C4	9HP
6AU4GTA		F16	4CG	6BH6		A2	7CM
6AU5GT		F7	6CK	6BH8		B4	9DX
6AU6A	7543	A2	7BK	6BJ3		L3	12BL
6AU8A		B4	9DX	6BJ6		A2	7CM
6AV5GA	6BQ6GTB/6CU6	F20	6CK	6BJ7		B2	9AX
6AV6	6SQ7,6SQ7GT,75	A2	7BT	6BJ8		B4	9ER
6AW8A		B4	9DX	6BK4		F35	8GC
6AX3	6BA3	L3	12BL	6BK4A		F35	8GC
6AX4GTB		F7	4CG ⁸	6BK5		B4	9BQ
6AX5GT		F7	6S	6BK7B		B2	9AJ
6AX8		B2	9AE	6BL7GTA		F7	8BD
6AY3	6BE3,6BS3	C9	9HP	6BL8		B2	9DC
6AY3B	6BS3A	C4	9HP	6BN4A		A2	7EG
6AY11		L1	12DA	6BN6		A3	7DF
6AZ8		B2	9ED	6BN8	6CN7	B4	9ER
6B8		E3	8E	6BQ5	6GK6,7189	B10	9CV
6B10		L1	12BF	6BQ6GTB/ 6CU6	6AV5GA	F17	6AM
6BA3	6AX3	C5	9HP	6BQ7A	6BC8,6BS8,6BZ7	B2	9AJ
6BA6		A2	7BK	6BR8A	6KD8,6U8A	B2	9FA
6BA7	6SB7Y	B4	8CT	6BS3	6AY3,6AY3B, 6BE3	C9	9HP
6BA8A		B4	9DX	6BS3A		C4	9HP
6BA11		L2	12ER	6BS8	6BC8,6BQ7A, 6BZ7	B2	9AJ
6BC4		B1	9DR	6BU8	6GS8	B4	9FG
6BC5	6AG5	A2	7BD				
6BC7		B2	9AX				

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.


RCA RECEIVING TUBES


RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
6BV8		B2	9FJ
6BW4		B4	9DJ
6BW8		B2	9HK
6BX7GT		F7	8BD
6BY5GA		F18	6CN
6BY6		A2	7CH
6BY8		B4	9FN
6BZ6	6JH6	A2	7CM
6BZ7	6BC8,6BQ7A, 6BS8	B2	9AJ
6BZ8		B2	9AJ
6C4		A2	6BG
6C5		E2	6Q ^h
6C6		K9	6F
6C8G		F25	8G
6C9		G1	10F
6CA4		B10	9M
6CA5		A3	7CV
6CB5A		F35	8GD
6CB6	6CF6,6DE6,6DK6	A2	7CM
6CB6A		A2	7CM
6CD6GA	6DN6	F34	5BT
6CE5		A2	7BD
6CF6	6CB6,6CB6A, 6DE6,6DK6	A2	7CM
6CG7	6FQ7	B4	9AJ
6CG8A	6AT8A,6JC8,6X8	B2	9GF
6CH8	6AN8A	B2	9FT
6CK4		F10	8JB
6CL6	6AG7	B4	9BV
6CL8A	6CQ8	B2	9FX
6CM6		B4	9CK
6CM7		B4	9ES
6CM8		B2	9FZ
6CN7	6BN8	B2	9EN
6CQ4		F16	4CG ^h
6CQ8	6CL8A	B2	9GE

RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
6CR6		A2	7EA
6CS6		A2	7CH
6CS7		B4	9EF
6CU5		A3	7CV
6CU6	Refer to type 6BQ6GTB/6CU6		
6CU8		B2	9GM
6CW4	6DS4	D1	12AQ
6CW5		B10	9CV
6CX8		B4	9DX
6CY5	6FV6	A2	7EW
6CY7		B4	9LG
6CZ5		B10	9HN
6D6		K9	6F
6DA4		F7	4CG
6DB5		B6	9GR
6DC6		A2	7CM
6DC8		B4	9HE
6DE4		F16	4CG ^h
6DE6	6CB6,6CF6,6DK6	A2	7CM
6DE7		B4	9HF
6DG6GT	6GC5	F7	7S
6DK6	6CB6,6CF6,6DE6	A2	7CM
6DM4	6DQ4	F16	4CG ^h
6DM4A		F16	4CG ^h
6DN6	6CD6GA	F34	5BT
6DN7	6FJ7	F5	8BD
6DQ4	6DM4,6DM4A	F10	4CG ^h
6DQ5	6JE6,6JE6A	F34	8JC
6DQ6A	6FW5,6GE5,6GJ5, 6GJ5A,6GT5, 6GT5A,6GV5, 6GW6,6JB6,6JB6A	F23	6AM
6DQ6B		F23	6AM
6DR7	6FY7	B4	9HF
6DS4	6CW4	D1	12AQ
6DS5		A3	7BZ
6DT5		B4	9HN
6DT6A	6GX6,6GY6,6HZ6	A2	7EN

See page 24 for explanation of footnotes.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
6DT8	12AT7	B2	9AJ
6DV4		D1	12EA
6DW4		C9	9HP
6DW4B		C4	9HP
6DW5		B10	9CK
6DX8		B4	9HX
6DZ4	6AF4,6AF4A	A1	7DK
6DZ7		F18	8JP
6E5		K3	6R
6EA5		A2	7EW
6EA7	6FM7,6GL7	F5	8BD
6EA8		B2	9AE
6EB8		B4	9DX
6EH5		A3	7CV
6EH7		B7	9AQ
6EH8		B2	9JG
6EJ7		B7	9AQ
6EM5		B10	9HN
6EM7	6FD7,6GF7,6GF7A	F3	8BD
6EQ7		B4	9LQ
6ER5		A2	7FP
6ES5		A2	7FP
6ES8		B2	9AJ
6EU7	12AX7A,7025	B2	9LS
6EU8		B2	9JF
6EV5		A2	7EW
6EV7		B4	9LP
6EW6		A2	7CM
6EW7		H1	9HF
6EX6		F34	5BT ⁹
6EY6		F10	7AC ¹¹
6EZ5	6HE5	F10	7AC ⁵
6EZ8		B2	9KA
6F5	6SF5,6SF5GT,7B4	E3	5M ⁵
6F6	42	E4	7S ⁵
6F6G		F29	7S
6F6GT		F10	7S

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
6F7		K5	7E
6F8G	6CG7,6FQ7, 6SN7GTB	F25	8G
6FA7		B4	9MR
6FD7	6EM7,6GF7,6GF7A	H1	9HF
6FE5		F16	8KB
6FG6	Refer to type EM84/6FG6		
6FG7		B2	9GF
6FH5		A2	7FP
6FH8		B2	9KP
6FJ7	6DN7	L2	12BM
6FM7	6EA7,6GL7	L2	12EJ
6FM8		B2	9KR
6FQ5A		A2	7FP
6FQ7	6CG7,6F8G, 6SN7GTB	B4	9LP
6FS5		A2	7GA
6FV6	6CY5	A2	7FQ
6FV8A		B2	9FA
6FW5	6DQ6A,6DQ6B, 6GE5,6GJ5, 6GJ5A,6GT5, 6GT5A,6GV5 6GW6,6JB6,6JB6A	F18	6CK
6FW8		B2	9AJ
6FY7	6DR7	L4	12EO
6G6G		F22	7S
6G11		L2	12BU
6GB5		K2	9NH
6GC5	6DG6GT	H4	9EU
6GE5	6DQ6A,6DQ6B, 6FW5,6GJ5, 6GJ5A,6GT5, 6GT5A,6GV5, 6JB6,6JB6A, 6GW6	L7	12BJ
6GF5		L4	12BJ
6GF7	6EM7,6FD7	C3	9QD
6GF7A		C1	9QD
6GH8A	6JN8	B2	9AE

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
6GJ5	6DQ6A,6DQ6B, 6FW5,6GE5,6GT5, 6GT5A,6GV5, 6GW6,6JB6,6JB6A	C12	9QK	6HF5		L10	12FB
6GJ5A		C11	9QK	6HF8		B4	9DX
6GJ7		B14	9QA	6HG5		A3	7BZ
6GK5	6HA5,6HM5/6HA5	A2	7FP	6HG8		B2	9MP
6GK6	6BQ5,7189	B10	9GK	6HJ5		L9	12FL
6GL7	6EA7,6FM7	F5	8BD	6HJ8		B2	9CY
6GM5		H4	9MQ	6HL8		B2	9AE
6GM6		A2	7CM	6HM5/6HA5	6GK5,6HA5	A2	7GM
6GN8		B4	9DX	6HQ5		A2	7GM
6GT5	6DQ6A,6DQ6B, 6FW5,6GE5,6GJ5, 6GJ5A,6GV5, 6GW6,6JB6,6JB6A	C10	9NZ	6HR6		A2	7BK
6GT5A		C2	9NZ	6HS6		A2	7BK
6GU5		A2	7GA	6HS8		B4	9FG
6GU7		B4	9LP	6HZ6	6DT6A,6GX6,6GY6	A2	7EN
6GV5	6DQ6A,6DQ6B, 6FW5,6GE5,6GJ5, 6GJ5A,6GT5, 6GT5A,6GW6, 6JB6,6JB6A	L9	12DR	6HZ8		H3	9DX
6GV8		B10	9LY	6J5	7A4	E2	6Q ⁵
6GW6	6DQ6A,6DQ6B, 6FW5,6GE5,6GJ5, 6GJ5A,6GT5, 6GT5A,6JB6, 6JB6A,6GV5	F23	6AM ⁵	6J5GT		F8	6Q ¹⁰
6GX6	6DT6A,6GY6,6HZ6	A2	7EN	6J6A		A2	7BF
6GX7		B2	9QA	6J7		E3	7R ⁵
6GY5		L9	12DR	6J10		L2	12BT
6GY6	6DT6A,6GX6,6HZ6	A2	7EN	6JB6	6DQ6A,6DQ6B, 6FW5,6GE5,6GJ5, 6GJ5A,6GT5, 6GT5A,6GV5,6GW6	C12	9QL
6GY8		B2	9MB	6JB6A		C11	9QL
6GZ5		A2	7CV	6JC6	6JD6	B2	9PM
6H6		E1	7Q ⁵	6JC8	6AT8A,6CG8,6X8	B2	9PA
6HA5	6GK5,6HM5/6HA5	A1	7GM	6JD6	6JC6	B2	9PM
6HB5		L8	12BJ	6JE6	6DQ5	C16	9QL
6HB6		B10	9NW	6JE6A		C14	9QL
6HB7		B2	9QA	6JE8		B4	9DX
6HE5	6EZ5	L4	12EY	6JG6		C10	9QU
				6JG6A		C7	9QU
				6JH6	6BZ6	A2	7CM
				6JH8		B4	9DP
				6JK8		B2	9AJ
				6JN8	6GH8A	B2	9FA
				6JT6		C8	9QU
				6JT6A		C2	9QU
				6JT8		H2	9DX

See page 24 for explanation of footnotes.



RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
6JU8		B4	9PQ
6JU8A		B2	9PQ
6JV8		B4	9DX
6JZ8		L2	12DZ
6K6GT		F7	7S
6K7		E3	7R ⁵
6K7GT		F8	7R
6K8		E3	8K
6K11/6Q11		L1	12BY
6KA8	6LC8	B4	9PV
6KD8	6BR8A,6U8A	B2	9AE
6KE8		B2	9DC
6KL8		B4	9LQ
6KM8		B4	9QG
6KT8		B2	9QP
6KU8		H2	9LT
6KV8		B4	9DX
6KY8		C6	9QT
6KY8A		C1	9QT
6KZ8		B2	9FZ
6L6	5881	E5	7AC ⁵
6L6GB	7027A	F23	7AC
6L6GC		F23	7AC
6L7		E3	7T
6LC8	6KA8	B4	9QY
6LF8		B4	9DX
6LM8		B2	9AE
6N7		E4	8B ⁵
6N7GT		F7	8B
6Q7	6AQ6,6AT6	E3	7V ⁵
6R7	6BF6,6SR7	E3	7V ⁵
6S4A		B4	9AC
6S8GT		F7	8CB
6SA7	6BE6	E2	8R
6SA7GT		F7	8AD
6SB7Y	6BA7	E2	8R
6SC7		E2	8S
6SF5	6F5	E2	6AB
6SF5GT	7B4	F7	6AB ¹

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
6SF7		E2	7AZ
6SG7		E2	8BK
6SH7		E2	8BK
6SJ7		E2	8N
6SJ7GT		F8	8N ¹⁰
6SK7	6BD6	E2	8N
6SK7GT	7A7	F8	8N ¹⁰
6SL7GT	7F7	F7	8BD
6SN7GTB	6CG7,6F8G,6FQ7	F7	8BD
6SQ7	6AV6,75	E2	8Q
6SQ7GT		F8	8Q ¹⁰
6SR7	6BF6,6R6	E2	8Q
6SS7		E2	8N
6T4		A1	7DK
6T8A		B2	9E
6T10		L2	12EZ
6U5		K3	6R
6U8A	6BR8A,6KD8	B2	9AE
6V3A		B10	9BD
6V6	7C5	E4	7AC ⁵
6V6GTA	7408	F7	7AC
6W4GT		F7	4CG
6W6GT		F7	7AC
6X4	6X5GT	A3	5BS
6X5GT	6X4	F7	6S
6X8	6AT8A,6CG8A, 6JC8	B2	9AK
6Y6G		F29	7AC
6Y6GA		F18	7AC
6Z4	Refer to type 84/6Z4		
7A4	6J5,6J5GT	J2	5AC
7A5		J3	6AA
7A6		J2	7AJ
7A7	6SK7,6SK7GT	J2	8V
7A8		J2	8U
7AF7		J2	8AC
7AG7		J2	8V
7AU7		B2	9A

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
7B4	6F5,6SF5,6SF5GT	J2	5AC	8JY8		B4	9DX
7B7		J2	8V	8KA8	8LC8	B4	9PV
7B6	6A7,6A8	J2	8X	8LC8	8KA8	B4	9QY
7C5	6V6,6V6GT,7408	J3	6AA	9AU7		B2	9A
7C6		J2	8W	9BR7		B2	9CF
7C7		J2	8V	9CL8		B2	9FX
7EY6		F10	7AC ⁹	9EA8	9U8A	B2	9AE
7F7	6SL7GT	J2	8AC	9U8A	9EA8	B2	9AE
7F8		J2	8BW	10AL11		L2	12BU
7H7		J2	8V	10C8		B2	9DA
7J7		J2	8BL	10CW5		B10	9CV
7K7	6AQ7GT	J2	8BF	10DE7		B4	9HF
7N7		J3	8AC	10DR7		B4	9HF
7V7	7W7	J2	8V	10DX8		B4	9HX
7W7	7V7	J2	8BJ	10EG7		F5	8BD
7X7		J3	8BZ	10EM7	10GF7,10GF7A	F3	8BD
7Y4		J2	5AB	10GF7	10EM7	C3	9QD
7Z4		J3	5AB	10GF7A		C1	9QD
8AU8		B4	9DX	10GN8		B4	9DX
8AW8A		B4	9DX	10HF8		B4	9DX
8B10		L1	12BF	10JA8		B4	9DX
8BA8A		B4	9DX	10JY8		B4	9DX
8BH8		B4	9DX	11AR11		L1	12DM
8BN8	8CN7	B4	9ER	11CY7		B4	9LG
8BQ5		B10	9CV	11JE8		B4	9DX
8CG7	8FQ7	B4	9AJ	11KV8		B4	9DX
8CM7		B4	9ES	12AB5		B4	9EU
8CN7	8BN8	B2	9EN	12AC6		B2	7BK
8CS7		B4	9EF	12AD6		A2	7CH
8CW5A		B10	9CV	12AE6A		A2	7BT
8CX8		B4	9DX	12AE7		B2	9A ¹¹
8EB8		B4	9DX	12AF3	12D4	B11	9CB
8EM5		B10	9HN	12AF6		A2	7BK
8ET7		B4	9LT	12AH7GT		E7	8BE
8FQ7	8CG7	B4	9LP	12AJ6		A2	7BT
8GN8		B4	9DX	12AL5		A1	6BT

See page 24 for explanation of footnotes.

RCA RECEIVING TUBES

RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
12AL8		B4	9GS
12AL11		L2	12BU
12AQ5		A3	7BZ
12AT6		A2	7BT
12AT7	12DT8	B2	9A ¹¹
12AU6		A2	7BK
12AU7A		B2	9A ¹¹
12AV5GA	12BQ6GTB/ 12CU6	F20	6CK
12AV6		A2	7BT
12AV7		B2	9A ¹¹
12AW6		A2	7CM
12AX3		L3	12BL
12AX4GTB		F7	4CG ⁸
12AX7	7025	B2	9A ¹¹
12AX7A		B2	9A ¹¹
12AY3	12BE3,12BS3	C9	9HP
12AY3A	12BS3A	C4	9HP
12AY7		B2	9A ¹¹
12AZ7A		B2	9A ¹¹
12B4A		B4	9AG
12BA6		A2	7BK
12BA7		B4	8CT
12BD6	12SK7,12SK7GT	A2	7BK
12BE3	12AY3,12AY3A, 12BS3,12BS3A	L4	12GA
12BE6	12SA7,12SA7GT	A2	7CH
12BF6	12SR7	A2	7BT
12BH7A		B4	9A ¹¹
12BK5		B4	9BQ
12BL6		A2	7BK
12BQ6GTB/ 12CU6	12AV5GA	F17	6AM
12BR7		B2	9CF
12BS3	12AY3,12AY3A,	C9	9HP
12BS3A	12BE3	C4	9HP
12BT3		L3	12BL
12BV7		B4	9BF

RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
12BW4		B4	9DJ
12BY7A		B4	9BF
12BZ6		A2	7CM
12BZ7		B4	9A ¹¹
12C5	Refer to type 12CU5/12C5		
12CA5		A3	7CV
12CN5		A3	7CV
12CR6		A2	7EA
12CT8		B4	9DA
12CU5/ 12C5		A3	7CV
12CU6	Refer to 12BQ6GTB/12CU6		
12CX6		A2	7BK ⁷
12D4	12AF3	F7	4CG
12DB5	12DT5	B4	9GR
12DE8		B2	9HG
12DK6		A2	7CM
12DK7		B2	9HZ
12DL8		B4	9HR
12DM4		F16	4CG ⁸
12DM4A		F16	4CG ⁸
12DQ6A	12GE5,12GJ5, 12GJ5A,12GT5, 12GT5A,12GW6, 12JB6,12JB6A	F23	6AM
12DQ6B		F23	6AM
12DQ7		B4	9BF
12DS7		B4	9JU
12DT5	12DB5	B4	9HN
12DT8	12AT7	B2	9AJ
12DU7		B2	9JX
12DV8		B4	9HR
12DW7		B2	9A ¹¹
12DY8		B2	9JD
12DZ6		A2	7BK
12EA6		A2	7BK
12EC8		B2	9FA
12ED5		A3	7CV
12EG6		A2	7CH

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

RCA RECEIVING TUBES

RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
12EH5		A3	7CV
12EK6		A2	7BK
12EL6		A2	7FB
12EN6		F7	7AC
12EQ7		B4	9LQ
12F8		B2	9FH
12FK6		A2	7BT
12FM6		A2	7BT
12FQ8		B2	9KT
12FV7		B4	9A ¹¹
12FX5		A3	7CV
12FX8A		B3	9KV
12GA6		A2	7CH
12GC6		F23	8JX
12GE5	12DQ6A, 12DQ6B, 12GJ5, 12GJ5A, 12GT5, 12GT5A, 12GW6, 12JB6, 12JB6A	L7	12BJ
12GJ5 12GJ5A	12DQ6A, 12DQ6B, 12GE5, 12GT5, 12GT5A, 12GW6, 12JB6, 12JB6A	C12 C11	9QK 9QK
12GN7		B4	9BF
12GT5 12GT5A	12DQ6A, 12DQ6B, 12GE5, 12GJ5, 12GJ5A, 12GW6, 12JB6, 12JB6A	C10 C2	9NZ 9NZ
12GW6	12DQ6A, 12DQ6B, 12GE5, 12GJ5, 12GJ5A, 12GT5, 12GT5A, 12JB6, 12JB6A	F23	6AM
12H6		E1	7Q ⁵
12J5GT		F8	6Q
12J7GT		F8	7R
12J8		B2	9GC
12JB6 12JB6A	12DQ6A, 12DQ6B, 12GE5, 12GJ5, 12GJ5A, 12GT5, 12GT5A, 12GW6	C12 C11	9QL 9QL

RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.
12JT6 12JT6A		C8 C2	9QU 9QU
12K5		A3	7EK
12K7GT		F8	7R
12KL8		B4	9LQ
12L6GT		F7	7AC
12R5		A3	7CV
12SA7 12SA7GT	12BE6	E2 F7	8R 8AD
12SC7		E2	8S
12SF5		E2	6AB
12SF7		E2	7AZ
12SG7		E2	8BK
12SH7		E2	8BK
12SJ7		E2	8N
12SK7 12SK7GT	12BD6	E2 F8	8N 8N ¹⁰
12SL7GT		F7	8BD
12SN7GTA		F7	8BD
12SQ7 12SQ7GT		E2 F8	8Q 8Q ¹⁰
12SR7	12BF6	E2	8Q
12U7		B2	9A
12V6GT		F7	7AC
12W6GT		F7	7AC
12X4		A3	5BS
13CW4		D1	12AQ
13DE7		B4	9HF
13DR7		B4	9HF
13EM7	13FD7, 13GF7, 13GF7A	F3	8BD
13FD7	13EM7, 13GF7, 13GF7A	H1	9HF
13FM7		L2	12EJ
13GB5		K2	9NH
13GF7 13GF7A	13EM7, 13FD7	C3 C1	9QD 9QD
13J10		L2	12BT

See page 24 for explanation of footnotes.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
14A7		J2	8V				
14AF7		J2	8AC				
14B6		J2	8W				
14C7		J2	8V				
14F7		J2	8AC				
14F8		J2	8BW				
14GT8		B2	9KR				
14Q7		J2	8AL				
14R7		J2	8AE				
15AF11	15BD11	L2	12DP	17DQ6B	17GE5,17GJ5, 17GJ5A,17GT5, 17GT5A,17GV5, 17GW6,17JB6, 17JB6A	F23	6AM
15BD11	15AF11	L2	12DP	17GE5	17DQ6B,17GJ5, 17GJ5A,17GT5, 17GT5A,17GV5, 17GW6,17JB6, 17JB6A	L7	12BJ
15CW5		B10	9CV	17GJ5	17DQ6B,17GE5, 17GT5,17GT5A, 17GV5,17GW6, 17JB6,17JB6A	C12	9QK
15FM7		L2	12EJ	17GJ5A	17DQ6B,17GE5, 17GJ5,17GJ5A, 17GV5,17GW6, 17JB6,17JB6A	C11	9QK
15FY7		L4	12EO	17GT5	17DQ6B,17GE5, 17GJ5,17GJ5A, 17GV5,17GW6, 17JB6,17JB6A	C12	9NZ
15HB6		B10	9NW	17GT5A	17DQ6B,17GE5, 17GJ5,17GJ5A, 17GV5,17GW6, 17JB6,17JB6A	C11	9NZ
15KY8		C6	9QT	17GV5	17DQ6B,17GE5, 17GJ5,17GJ5A, 17GT5,17GT5A, 17GV5,17JB6, 17JB6A	L9	12DR
15KY8A		C1	9QT	17GW6	17DQB,17GE5, 17GJ5,17GJ5A, 17GT5,17GT5A, 17GV5,17JB6, 17JB6A	F23	6AM
16AQ3		B12	9CB	17H3		B4	9FK
16GK6		B10	9GK	17JB6	17DQB,17GE5, 17GJ5,17GJ5A, 17GT5,17GT5A, 17GV5,17GW6	C12	9QL
17AX3		L3	12BL	17JB6A	17DQB,17GE5, 17GJ5,17GJ5A, 17GT5,17GT5A, 17GV5,17JB6, 17JB6A	C11	9QL
17AX4GTA		F7	4CG ^s	17JG6		C10	9QU
17AY3	17BE3,17BS3,	C9	9HP	17JG6A		C7	9QU
17AY3A	17BS3A	C4	9HP	17JT6		C8	9QU
17BE3	17AY3,17AY3A, 17BS3,17BS3A	L4	12GA	17JT6A		C2	9QU
17BF11		L2	12EZ	17JZ8		L2	12DZ
17BH3		C9	9HP	17LD8		C3	9QT
17BH3A		C4	9HP	18A5		F10	6CK
17BQ6GTB		F17	6AM	18FW6A		A2	7CC
17BS3	17AY3,17AY3A,	C9	9HP	18FX6A		A2	7CH
17BS3A	17BE3	C4	9HP	18FY6A		A2	7BT
17C9		G1	10F				
17CU5		A3	7CV				
17D4		F7	4CG				
17DE4		F16	4CG ^s				
17DM4		F16	4CG ^s				
17DM4A		F16	4CG ^s				



Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

RCA RECEIVING TUBES

RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		RCA TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
18GD6A		A2	7BK	25W4GT		F7	4CG
19AU4		F16	4CG ¹²	25Z5	25Z6GT	K4	6E
19AU4GTA		F16	4CG	25Z6GT	25Z5	F7	7Q
19BG6GA		F34	5BT	32ET5A		A3	7CV
19CL8A		F1	9FX	33GY7		L7	12FN
19EA8		B2	9AE	34GD5		A3	7CV
19HR6		A2	7BK	34GD5A		A3	7CV
19HS6		A2	7BK	35A5	35L6GT	J3	6AA
19HV8		B2	9FA	35B5	35C5	A3	7BZ
19J6		A2	7BF	35C5	35B5	A3	7CV
19JN8		B2	9FA	35DZ8		B10	9JE
19T8		B2	9E	35EH5		A3	7CV
19X8		B2	9AK	35GL6		A3	7FZ
20EZ7		B2	9PG	35L6GT	35A5	F7	7AC
21GY5		L9	12DR	35W4		A3	5BQ
21HJ5		L9	12FL	35Y4		J3	5AL
22BH3		C9	9HP	35Z3		J3	4Z
22BH3A		C4	9HP	35Z4GT	35Z5GT	F7	5AA
22DE4		F16	4CG ⁸	35Z5GT	35Z4GT	F7	6AD
22JG6		C10	9QU	36AM3A		A3	5BQ
22JG6A		C7	9QU	36AM3B		A3	5BQ
22JU6		C12	9QL	42	6F6,6F6G,6F6GT	K8	6B
25AV5GA	25BQ6GTB/ 25CU6	F20	6CK	43		K8	6B
25AX4GT		F7	4CG	50A5	50L6GT	J3	6AA
25BK5		B4	9BQ	50B5	50C5	A3	7BZ
25BQ6GTB/ 25CU6	25AV5GA	F17	6AM	50C5	50B5	A3	7CV
25C5		A3	7CV	50DC4		A3	5BQ
25CA5		A3	7CV	50EH5		A3	7CV
25CD6GB		F34	5BT	50FE5		A3	8KB
25CU6	Refer to 25BQ6GTB 25CU6			50FK5		A3	7CV
25DN6		F34	5BT	50HK6		A3	7FZ
25EC6		F30	5BT	50L6GT	50A5	F7	7AC
25EH5		A3	7CV	50X6	50Y6GT	J3	7DX
25F5A		A3	7CV	50Y6GT	50X6	F7	7Q
25L6		E4	7AC ⁵	50Y7GT		F7	8AN
25L6GT		F7	7AC	60FX5		A3	7CV
				75	6AV6,6SQ7, 6SQ7GT	K5	6G

See page 24 for explanation of footnotes.

RCA RECEIVING TUBES

 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM		 TYPE	RCA ▲ SIMILAR TYPES	DIMENSIONS AND TERMINAL DIAGRAM	
		Dim.	T.D.			Dim.	T.D.
80	5A24,5Y4GA, 5Y4GT,5Z4,5Y3GT	K8	4C	7027A	6L6,6L6GB, 6L6GC,5881	F27	8HY
84/6Z4		K4	5D	7189	6BQ5,6GK6	B10	9BL
117L7/M7GT		F10	8A0	7199		B2	9JT
117N7GT		F10	8AV	7247		B2	9A ¹¹
117P7GT	117L7/M7GT	F10	8AV	7355		F10	8KN
117Z3		A3	4CB	7408	6V6,6V6GTA,7C5	F7	7AC
117Z6GT		F7	7Q	7543	6AU6A	A2	7BK
5879		B2	9AD	7591		F7	8KQ
5881	6L6,6L6GB, 6L6GC,7027A	F11	7AC	7695		H4	9PX
6973		B10	9EU	7868		C6	9NZ
7025	6EU7,12AX7A	B2	9A ¹¹	EM84/6FG6		B8	9GA


Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

RCA RECEIVING TUBES

EXPLANATION OF FOOTNOTES

- 1 Pin No.1 has no connection.
- 2 Pins No.4 and 6 are omitted.
- 3 Pin No.1 is connected to metal shell and Pins No.3, 5, and 7 are omitted.
- 4 Pins No.3, 5, and 7 are omitted.
- 5 Pin No.1 is connected to metal shell.
- 6 Pin No.1 is *also* connected to an internal shield.
- 7 Pin No.2 is not connected to an internal shield.
- 8 Pin No.1 is omitted.
- 9 Pins No.1, 4, and 6 are omitted.
- 10 Pin No.1 is connected to base sleeve.
- 11 Heater for section 2 between Pins 4 and 9; for section 1 between Pins 5 and 9.
- 12 Pins No.1 and 2 have no connection.
- ▲ Tube types which are listed in the RCA "Similar Types" column may or may not be direct replacements because of mechanical and/or electrical differences. For more information as to the degree of similarity, refer to tube data.

DISCONTINUED RCA RECEIVING TUBE TYPES

 TYPE	FILAMENT (F) OR HEATER VOLTS AMP.		DIMENSIONS AND TERMINAL DIAGRAM Dim. T D		RCA SIMILAR TYPE
	VOLTS	AMP.	Dim.	T D	
00A	5F	0.25	K8	4D	
01A	5F	0.25	K8	4D	
0Y4			F2	4BU	
1A4P	2F	0.06	K5	4M	
1A6	2F	0.06	K5	6L	
1AC5	1.25F	0.04	K1	8CP	
1B4P	2F	0.06	K5	4M	
1B5/25S	2F	0.06	K4	6M	
1B7GT	1.4F	0.10	F8	7Z	
1C5GT	1.4F	0.1	F7	6X	
1C6	2F	0.12	K5	6L	
1C7G	2F	0.12	F25	7Z ¹	
1D5GP	2F	0.06	F25	5R	
1D7G	2F	0.06	F25	7Z ¹	
1D8GT	1.4F	0.10	F7	8AJ	
1E7GT	2F	0.24	F7	8C	
1E8	1.25F	0.04	K1	8CN	
1F4	2F	0.12	K8	5K	
1F5G	2F	0.12	F29	6X	
1F6	2F	0.06	K5	6W	
1F7G	2F	0.06	F25	7AF	
1G4GT	1.4F	0.05	F7	5S	
1G5G	2F	0.12	F29	6X	
1G6GT	1.4F	0.10	F7	7AB	
1H4G	2F	0.06	F22	5S	
1H6G	2F	0.06	F22	7AA	
1J5G	2F	0.12	F29	6X	
1J6G	2F	0.24	F22	7AB	
1J6GT	2F	0.24	F13	7AB	
1LA4	1.4F	0.05	J2	5AD	1A5GT
1LC5	1.4F	0.05	J2	7AO	
1LC6	1.4F	0.05	J2	7AK	
1LD5	1.4F	0.05	J2	6AX	
1LE3	1.4F	0.05	J2	4AA	
1LG5	1.4F	0.05	J2	7AO	
1N2	1.25F	0.2	F18	3C ²	1A02, 1B3GT, 1G3GT/ 1B3GT, 1J3,1K3, 1K3/1J3
1N2A	1.25F	0.2	F12	3C ²	
1N6G	1.4F	0.05	F19	7AM	
1Q5GT	1.4F	0.1	F7	6AF	
1T5GT	1.4F	0.05	F7	6X	
1T6	1.25F	0.04	K1	8DA	
2A4G	2.5F	2.5	F22	5S	
2A5	2.5	1.75	K8	6B	
2A6	2.5	0.8	K5	6G	
2A7	2.5	0.8	K5	7C	
2AF4A	2.35 ³	0.6	A2	7DK	2AF4B
2B7	2.5	0.8	K5	7D	
2BN4	2.3 ³	0.6	A2	7EG	2BN4A
2E5	2.5	0.8	K4	6R	
3A8GT	1.4F 2.8F	0.1 0.05	F15	8AS	
3BN4	3 ³	0.45	A2	7EG	3BN4A
3DT6	3.15 ³	0.6	A2	7EN	3DT6A
4DT6	4.2 ³	0.45	A2	7EN	4DT6A
5AS4	5F	3	F37	5T	5AS4A
5AW4	5F	3.7	F38	5T ⁴	
5CL8	4.7 ³	0.6	B2	9FX	5CL8A
5V3	5F	3.8	F26	5T	5V3A
5W4	5F	1.5	E4	5T ⁵	
5W4GT	5F	1.5	F9	5T ⁴	
5Y3G	5F	2	F29	5T ⁴	5Y3GT
5Y4G	5F	2	F29	5Q	5Y4GA, 5Y4GT
6A3	6.3F	1	K11	4D	
6A4/LA	6.3F	0.3	K8	5B	
6A6	6.3	0.8	K8	7B	6N7
6A7S	6.3	0.3	K5	7C	6A7
6A8G	6.3	0.3	F25	8A ¹	
6A8GT	6.3	0.3	F8	8A ⁶	

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50. For footnotes, see page 29.

DISCONTINUED RCA RECEIVING TUBE TYPES

RCA TYPE	FILAMENT (F) OR HEATER		DIMENSIONS AND TERMINAL DIAGRAM		RCA SIMILAR TYPE	RCA TYPE	FILAMENT (F) OR HEATER		DIMENSIONS AND TERMINAL DIAGRAM		RCA SIMILAR TYPE
	VOLTS	AMP.	Dim.	T D			VOLTS	AMP.	Dim.	T D	
6AD6G	6.3	0.15	F4	7AG		6D8G	6.3	0.15	F25	8A ¹	
6AD7G	6.3	0.85	F29	8AY		6DT6	6.3	0.3	A2	7EN	6DT6A
6AE5GT	6.3	0.3	F7	6Q		6E6	6.3	0.6	K8	7B	
6AE6G	6.3	0.15	F22	7AH		6E7	6.3	0.3	K9	7H	
6AE7GT	6.3	0.5	F7	7AX		6F5GT	6.3	0.3	F7	5M ¹	6F5
6AM8	6.3	0.45	B2	9CY	6AM8A	6FV8	6.3 ³	0.45	B2	9FA	6FV8A
6AN8	6.3	0.45	B2	9DA	6AN8A	6GH8	6.3 ³	0.45	B2	9AE	6GH8A
6AQ5	6.3	0.45	A3	7BZ	6AQ5A	6GJ8	3.15 ³ 6.3	0.6 0.3	B2	9AE	
6AT8	6.3	0.45	B2	9DW	6AT8A	6H6GT	6.3	0.3	F7	7Q ⁷	6H6
6AU4GT	6.3	1.8	F16	4CG	6AU4GTA	6J6	6.3	0.45	A2	7BF	6J6A
6AU6	6.3	0.3	A2	7BK	6AU6A	6J7G	6.3	0.3	F25	7R ⁷	6J7
6AU7	3.15 6.3	0.6 0.3	B2	9A		6J7GT	6.3	0.3	F8	7R	
6AU8	6.3 ³	0.6	A2	7BK	6AU8A	6J8G	6.3	0.3	F25	8H	
6AV5GT	6.3	1.2	F7	6CK	6AV5GA	6K5GT	6.3	0.3	F8	5U	
6AW8	6.3 ³	0.6	B4	9DX	6AW8A	6K7G	6.3	0.3	F25	7R ¹	6K7, 6K7GT
6AX4GT	6.3	1.2	F7	4CG	6AX4GTB	6K8G	6.3	0.3	F25	8K ¹	6K8
6B4G	6.3F	1	F40	6S		6K8GT	6.3	0.3	F13	8K ¹	
6B5	6.3	0.8	K8	6AS		6K11	6.3 ³	0.6	L1	12BY	6K11/ 6Q11
6B6G	6.3	0.3	F25	7V	6SQ7	6L5G	6.3	0.15	F22	6Q	
6B7	6.3	0.3	K5	7D		6L6G	6.3	0.9	F40	7AC	6L6, 6L6GB, 6L6GC
6B7S	6.3	0.3	K5	7D		6L7G	6.3	0.3	F25	7T ¹	6L7
6B8G	6.3	0.3	F25	8E ¹	6B8	6N6G	6.3	0.8	F29	7AU	
6BD4	6.3	0.6	F39	8FU		6P5GT	6.3	0.3	F7	6Q	
6BD4A	6.3	0.6	F39	8FU		6P7G	6.3	0.3	F25	7U	6P7
6BK7A	6.3	0.45	B2	9AJ	6BK7B	6Q7G	6.3	0.3	F25	7V	6Q7
6BL4	6.3	3	F27	8GB		6Q7GT	6.3	0.3	E7	7V ⁶	
6BL7GT	6.3	1.5	F7	8BD	6BL7GTA	6Q11	6.3 ³	0.6	L1	12BY	6K11/ 6Q11
6BN4	6.3	0.2	A2	7EG	6BN4A	6R7G	6.3	0.3	F25	7V	
6BQ7	6.3	0.4	B2	9AJ	6BQ7A	6R7GT	6.3	0.3	F7	7V	6R7
6BR8	6.3	0.45	B2	9FA	6BR8A	6S4	6.3	0.6	B4	9AC	6S4A
6C5GT	6.3	0.3	F8	6Q ⁶	6C5	6S7	6.3	0.15	E3	7R ⁸	
6C7	6.3	0.3	K5	7G		6S7G	6.3	0.15	F25	7R ⁹	
6CB5	6.3	2.5	F37	8GD	6CB5A	6SN7GT	6.3	0.6	F7	8BD	6SN7- GTB
6CD6G	6.3	2.5	F41	5BT	6CD6GA	6SN7GTA	6.3	0.6	F7	8BD	
6CG8	6.3	0.45	B2	9GF	6CG8A						
6CL8	6.3 ³	0.45	B2	9FX	6CL8A						
6D7	6.3	0.3	K9	7H	6J7						

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50.

For footnotes, see page 29.

DISCONTINUED RCA RECEIVING TUBE TYPES

RCA TYPE	FILAMENT (F) OR HEATER		DIMENSIONS AND TERMINAL DIAGRAM		RCA SIMILAR TYPE	RCA TYPE	FILAMENT (F) OR HEATER		DIMENSIONS AND TERMINAL DIAGRAM		RCA SIMILAR TYPE
	VOLTS	AMP.	Dim.	T D			VOLTS	AMP.	Dim.	T D	
6ST7	6.3	0.15	E2	8Q		12A8GT	12.6	0.15	F8	8A ⁶	
6SZ7	6.3	0.15	E2	8Q		12AE6	10 to 15.9	0.15 at 12.6	A2	7BT	12AE6A
6T7G	6.3	0.15	F25	7V		12AU7	6.3 12.6	0.3 0.15	B2	9A ¹⁰	12AU7A
6T8	6.3	0.45	B2	9E	6T8A	12AX4GT 12AX4GTA	12.6 12.6	0.6 0.6	F7 F7	4CG 4CG	12AX4- GTB
6U7G	6.3	0.3	F33	7R ⁹		12AZ7	6.3 12.6	0.45 0.225	B2	9A ¹⁰	12AZ7A
6U8	6.3	0.45	B2	9AE	6U8A	12B8GT	12.6	0.3	F14	8T	
6V6GT	6.3	0.45	F7	7AC	6V6, 6V6GTA	12BH7	6.3 12.6	0.6 0.3	B4	9A	12BH7A
6V7G	6.3	0.3	F25	7V		12BY7	6.3 12.6	0.6 0.3	B4	9BF	12BY7A
6W7G	6.3	0.15	F25	7R ⁹		12C8	12.6	0.15	E3	8E	
6X5	6.3	0.6	E4	6S ⁸	6X5GT	12DS7A	10 to 15.9	0.4 at 12.6	B4	9JU	12DS7
6Y5	6.3	0.8	K4	6J		12EM6	10 to 15.9	0.5 at 12.6	B4	9HV	
6Y7G	6.3	0.6	F22	8B		12F5GT	12.6	0.15	F7	5M ¹	
6Z5	6.3 12.6	0.8 0.4	K4	6K		12FR8	10 to 15.9	0.32 at 12.6	B3	9KU	
6Z7G	6.3	0.3	F22	8B		12FX8	10 to 15.9	0.27 at 12.6	B3	9KV	12FX8A
6ZY5 ⁶	6.3	0.3	F22	6S		12K8	12.6	0.15	E3	8K	
7AD7	6.3	0.6	J3	8V		12Q7GT	12.6	0.15	F8	7V ⁶	
7AH7	6.3	0.15	J2	8V		12S8GT	12.6	0.15	F7	8CB	
7B5	6.3	0.4	J3	6AE	6K6GT	12SF5GT	12.6	0.15	F7	6AB ¹	12SF5
7B6	6.3	0.3	J2	8W	6AV6, 6SQ7, 6SQ7GT, 75,	12SJ7GT	12.6	0.15	F8	8N ⁶	12SJ7
7E6	6.3	0.3	J2	8W	6BF6	12SN7GT	12.6	0.3	F7	8BD	12SN7- GTA
7E7	6.3	0.3	J2	8AE		12SR7GT	12.6	0.15	F7	8Q ⁶	12SR7
7G7	6.3	0.45	J2	8V		12Z3	12.6	0.3	K4	4G	
7L7	6.3	0.3	J2	8V		14A4	12.6	0.15	J2	5AC	
7Q7	6.3	0.3	J2	8AL	6BE6, 6SA7, 6SA7GT	14A5	12.6	0.15	J2	6AA	
7R7	6.3	0.3	J2	8AE		14B8	12.6	0.15	J2	8X	
7S7	6.3	0.3	J2	8BL		14C5	12.6	0.225	J3	6AA	
10	7.5	1.25	K11	4D		14E6	12.6	0.15	J2	8W	
11	1.1F	0.25	K2	4F		14E7	12.6	0.15	J2	8AE	
12	1.1F	0.25	K7	4D		14H7	12.6	0.15	J2	8V	
12A5	6.3 12.6	0.6 0.3	K4	7F							
12A7	12.6	0.3	K5	7K							

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50. For footnotes, see page 29.

DISCONTINUED RCA RECEIVING TUBE TYPES

RCA TYPE	FILAMENT (F) OR HEATER VOLTS AMP.		DIMENSIONS AND TERMINAL DIAGRAM		RCA SIMILAR TYPE
	Dim.	T D	Dim.	T D	
14J7	12.6	0.15	J2	8BL	
14N7	12.6	0.3	J3	8AC	
14N7	12.6	0.3	J3	8AC	
15	2	0.22	K5	5F	
17AX4GT	16.8 ²	0.45	F7	4CG	17AX4-GTA
17DQ6A	16.8 ²	0.45	F23	6AM	17DQ6B
18FW6	18	0.1	A2	7CC	18FW6A
18FX6	18	0.1	A2	7CH	18FX6A
18FY6	18	0.1	A2	7BT	18FY6A
19	2F	0.26	K4	6C	
20EQ7	20	0.1	B4	9LQ	
19BG6G	18.9	0.3	F41	5BT	19BG6GA
20	3.3F	0.132	F19	4D	
21EX6	21.5 ³	0.6	F34	5BT ¹¹	
22	3.3F	0.132	K10	4K	
24A	2.5	1.75	K10	5E	
25A6	25	0.3	E4	7S ⁿ	
25A6GT	25	0.3	F7	7S	
25A7GT	25	0.3	F7	8F	
25AC5GT	25	0.3	F7	6Q	
25B5	25	0.3	K6	6D	
25B6G	25	0.3	F29	7S	
25B8GT	25	0.15	F7	8T	
25C6G	25	0.3	F29	7AC	
25CD6GA	25	0.6	F41	5BT	25CD6GB
25N6G	25	0.3	K5	7W	
25Y5	25	0.3	K4	6E	
25Z6	25	0.3	E4	7Q ⁸	25Z6GT
26	1.5F	1.05	K8	4D	
27	2.5	1.75	K4	5A	
30	2F	0.06	K4	4D	
31	2F	0.13	K4	4D	
32	2F	0.06	K10	4K	
32ET5	32	0.1	A3	7CV	32ET5A
32L7GT	32.5	0.3	F8	8Z	
33	2F	0.26	K8	5K	
34	2F	0.06	K10	4M	
35	2.5	1.75	K10	5E	
36	6.3	0.3	K5	5E	
36AM3	36	0.1	A3	5BQ	36AM3A, 36AM3B
37	6.3	0.3	K4	5A	
38	6.3	0.3	K5	5F	
39/44	6.3	0.3	K5	5F	
40	5F	0.25	K8	4D	
41	6.3	0.4	K4	6B	6K6GT
45	2.5F	1.5	K8	4D	
45Z3	45	0.075	A2	5AM	
45Z5GT	45	0.15	F7	6AD	
46	2.5	1.75	K11	5C	
47	2.5	1.75	K11	5B	
48	30	0.4	K11	6A	
49	2F	0.12	K8	5C	
50	7.5	1.25	K12	4D	
50C6G	50	0.15	F29	7AC	
50Z7G	50	0.15	F22	8AN	
53	2.5	2	K8	7B	
55	2.5	1	K5	6G	
56	2.5	1	K4	5A	
57	2.5	1	K9	6F	
58	2.5	1	K9	6F	
59	2.5	2	K11	7A	
70L7GT	70	0.15	F10	8AA	
71A	5F	0.25	K8	4D	
76	6.3	0.3	K4	5A	
77	6.3	0.3	K5	6F	
78	6.3	0.3	K5	6F	6K7, 6K7GT
79	6.3	0.6	K5	6H	
81	7.5F	1.25	K12	4B	
82	2.5F	3	K8	4C ¹²	
83V	5	2	K8	4AD	
85	6.3	0.3	K5	6G	
89	6.3	0.4	K4	6F	
117L7GT/ 117M7GT	117	0.09	F10	8A0	117L7/ M7GT
117Z4GT	117	0.04	F42	5AA	
70Z7	6.3	0.9	F27	8HY	70Z7A

Note: For Key to Tube Dimensions, see pages 30 to 33, and Basing Diagrams, see pages 34 to 50. For footnotes, see page 29.

DISCONTINUED RCA RECEIVING TUBE TYPES

EXPLANATION OF FOOTNOTES

- 1 Pin No.1 has no connection.
 - 2 Pin No.4 is omitted.
 - 3 Heater with controlled warm-up time.
 - 4 Pins No.3, 5, and 7 are omitted.
 - 5 Pin No.1 is connected to metal shell and Pins No.3, 5, and 7 are omitted.
 - 6 Pin No.1 is connected to base sleeve.
 - 7 Pin No.1 is connected to internal shield.
 - 8 Pin No.1 is connected to metal shell.
 - 9 Pin No.1 has no connection and Pin No.8 is also connected to an internal shield.
 - 10 Heater for section 2 between Pins 4 and 9; For section 1 between Pins 5 and 9.
 - 11 Pins No.1, 4, and 6 are omitted.
 - 12 Mercury-vapor type.
- Types listed in the RCA "Similar Types" column may or may not be direct replacements because of mechanical and/or electrical differences. For more information as to the degree of similarity, refer to tube data.

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length x Diameter		Description
A1	1-3/4"	x 3/4"	7-Pin Miniature Types
A2	2-1/8"	x 3/4"	
A3	2-5/8"	x 3/4"	
B1	1-3/4"	x 7/8"	9-Pin Miniature Types
B2	2-3/16"	x 7/8"	
B3	2-7/16"	x 7/8"	
B4	2-5/8"	x 7/8"	
B5	2-11/16"	x 7/8"	
B6	2-3/4"	x 7/8"	
B7	2-13/32"	x 7/8"	
B8	2-27/32"	x 7/8"	
B9	2-7/8"	x 7/8"	
B10	3-1/16"	x 7/8"	
B11	3-9/32"	x 7/8"	
B12	3-1/2"	x 7/8"	
B13	2-13/16"	x 7/8"	
B14	2"	x 7/8"	
C1	2.380"	x 1.188"	Novar Types
C2	2.880"	x 1.562"	
C3	3.00"	x 1.188"	
C4	3.005"	x 1.188"	
C5	3.080"	x 1.188"	
C6	3.110"	x 1.188"	
C7	3.130"	x 1.562"	
C8	3.180"	x 1.562"	
C9	3.410"	x 1.188"	
C10	3.410"	x 1.562"	
C11	3.505"	x 1.562"	
C12	3.55"	x 1.562"	

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length x Diameter		Description
C13	3.880"	x 1.562"	Novar Types
C14	4.130"	x 1.562"	
C15	4.160"	x 1.562"	
C16	4.60"	x 1.562"	
D1	0.800"	x 0.440"	Nuvistor Type
E1	1-3/4"	x 1-5/16"	Octal-Metal Types
E2	2-5/8"	x 1-5/16"	
E3	3-1/8"	x 1-5/16"	
E4	3-1/4"	x 1-5/16"	
E5	4-5/16"	x 1-5/8"	
F1	2-5/16"	x 1-5/16"	Octal-Glass Types
F2	2-5/8"	x 1-1/16"	
F3	2-7/8"	x 1-9/32"	
F4	2-7/8"	x 1-5/16"	
F5	3"	x 1-9/32"	
F6	3-1/16"	x 1-9/32"	
F7	3-5/16"	x 1-9/32"	
F8	3-5/16"	x 1-5/16"	
F9	3-3/8"	x 1-9/32"	
F10	3-7/16"	x 1-9/32"	
F11	3-15/32"	x 1-7/16"	
F12	3.562"	x 1.562"	
F13	3-9/16"	x 1-9/32"	
F14	3-9/16"	x 1-5/16"	
F15	3-5/8"	x 1-9/32"	
F16	3-13/16"	x 1-9/32"	
F17	3-7/8"	x 1-9/32"	
F18	3-7/8"	x 1-9/16"	
F19	4"	x 1-3/16"	

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall		Description
	Length	x Diameter	
F20	4"	x 1-9/16"	
F21	4-1/16"	x 1-9/32"	
F22	4-1/8"	x 1-9/16"	
F23	4-1/4"	x 1-9/16"	
F24	4-5/16"	x 1-5/8"	
F25	4-15/32"	x 1-9/16"	
F26	4-5/8"	x 1-9/16"	
F27	4-5/8"	x 1-5/8"	
F28	4-5/8"	x 1-23/32"	
F29	4-5/8"	x 1-13/16"	
F30	4-3/4"	x 1-9/16"	Octal-Glass Types
F31	4-3/4"	x 1-11/16"	
F32	4-3/4"	x 1-23/32"	
F33	4-7/8"	x 1-9/16"	
F34	5"	x 1-9/16"	
F35	5"	x 1-23/32"	
F36	5-1/8"	x 1-23/32"	
F37	5-1/8"	x 2-1/16"	
F38	5-3/16"	x 1-9/16"	
F39	5-7/32"	x 1-23/32"	
F40	5-5/16"	x 2-1/16"	
F41	5-11/16"	x 2-1/16"	
G1	2.190"	x 0.875"	10-Pin Miniature Type
H1	2.90"	x 1.188"	9-Pin, T-9 Bulb Types
H2	2.630"	x 1.188"	
H3	2.990"	x 1.188"	
H4	3.23"	x 1.188"	
J1	2-9/32"	x 1-3/16"	Lock-In Types
J2	2-25/32"	x 1-3/16"	

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length x Diameter		Description
J3	3-5/32"	x 1-3/16"	Lock-In Type
K1	1-3/4"	x 0.400"	Other Types
K2	4-1/8"	x 1-3/16"	
K3	4-3/16"	x 1-3/16"	
K4	4-3/16"	x 1-9/16"	
K5	4-17/32"	x 1-9/16"	
K6	4-19/32"	x 1-9/16"	
K7	4-11/16"	x 1-7/16"	
K8	4-11/16"	x 1-13/16"	
K9	4-15/16"	x 1-9/16"	
K10	5-1/32"	x 1-13/16"	
K11	5-3/8"	x 2-1/16"	
K12	6-1/4"	x 2-7/16"	
L1	1.875"	x 1.188"	12-Pin Types
L2	2.375"	x 1.188"	
L3	2.625"	x 1.188"	
L4	2.875"	x 1.188"	
L5	3.375"	x 1.188"	
L6	3.625"	x 1.188"	
L7	2.875"	x 1.563"	
L8	3.375"	x 1.563"	
L9	3.625"	x 1.563"	
L10	4.125"	x 1.563"	

LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

BOTTOM VIEWS

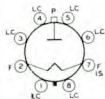
Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

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

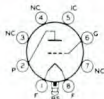
G = Grid
H = Heater
H_L = Heater Tap for Panel Lamp
H_M = Heater Mid-Tap
HS = Heater Shield

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

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



3C



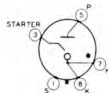
4AA



4AD



4B



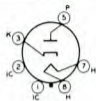
4BU



4C



4CB



4CG



4D



4F



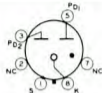
4G



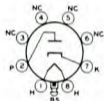
4K



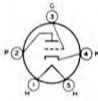
4M



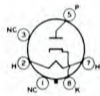
4R



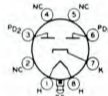
4Z



5A



5AA



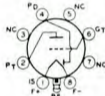
5AB



5AC



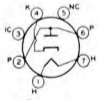
5AD



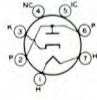
5AG



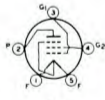
5AL



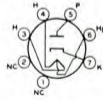
5AM



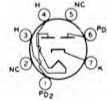
5AP



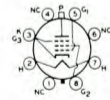
5B



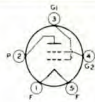
5BQ



5BS



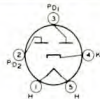
5BT



5C



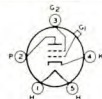
5CE



5D



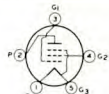
5DE



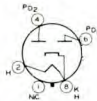
5E



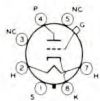
5F



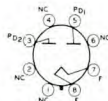
5K



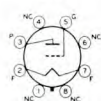
5L



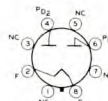
5M



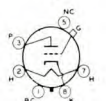
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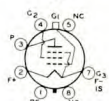
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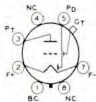
5T



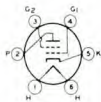
5U



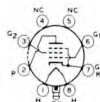
5Y



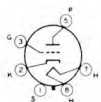
5Z



6A



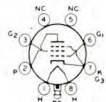
6AA



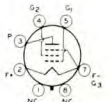
6AB



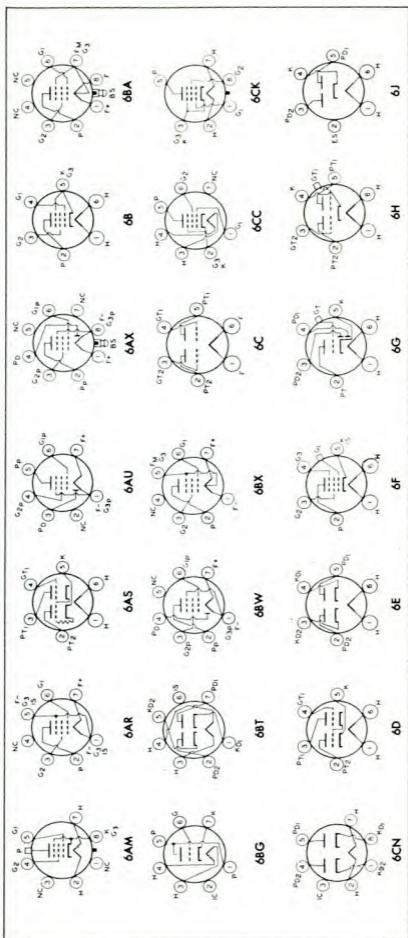
6AD

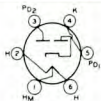


6AE

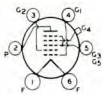


6AF

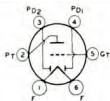




6K



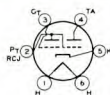
6L



6M



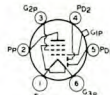
6Q



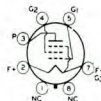
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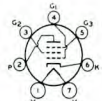
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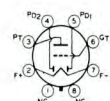
6W



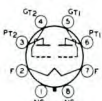
6X



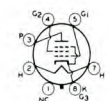
7A



7AA



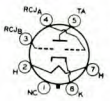
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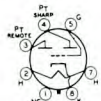
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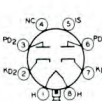
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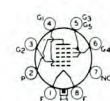
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7AH



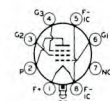
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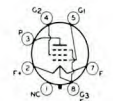
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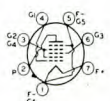
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7AO



7AP



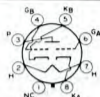
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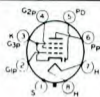
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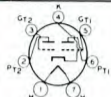
7AV



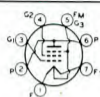
7AX



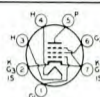
7AZ



7B



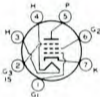
7BA



7BD



7BF



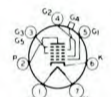
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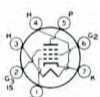
7BT



7BZ



7C



7CC



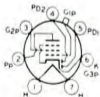
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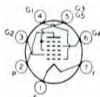
7CM



7CV



7D



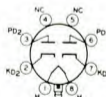
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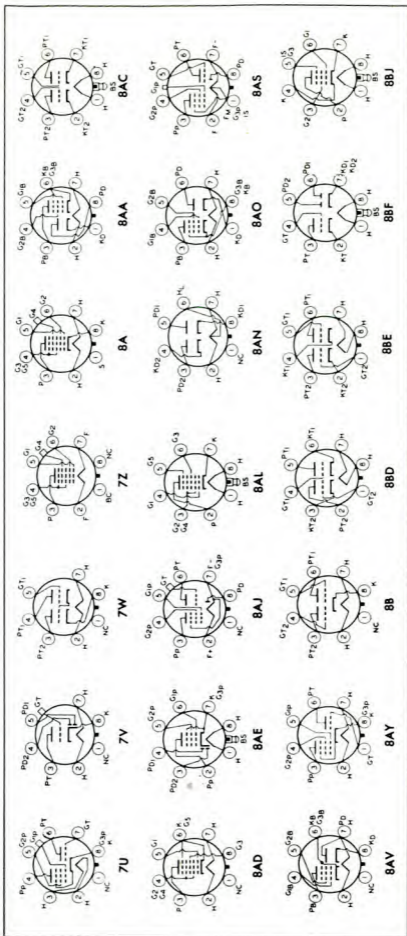
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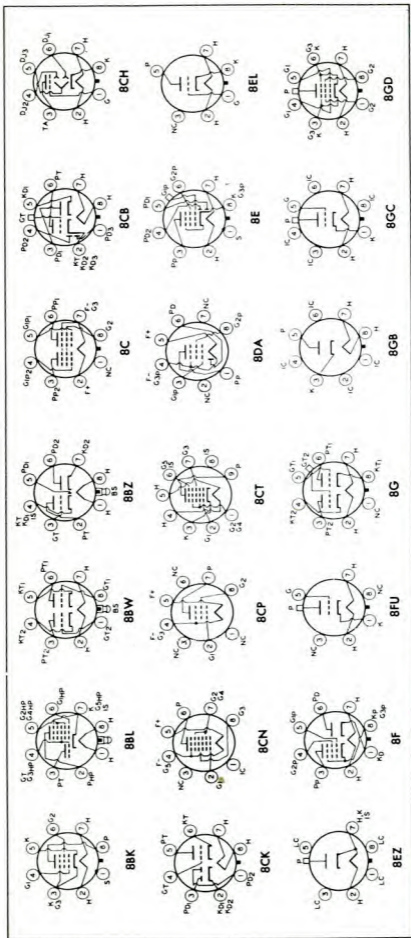


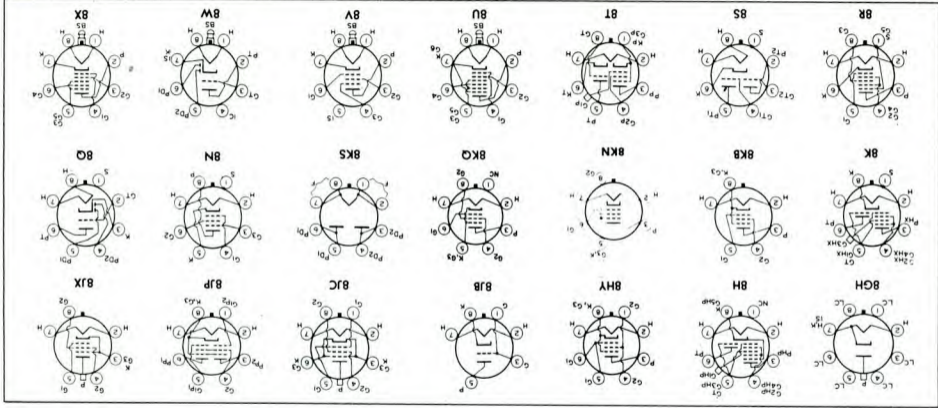
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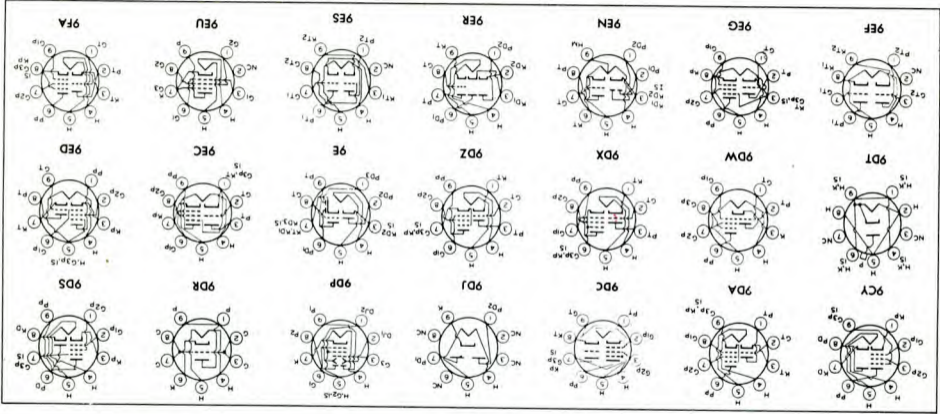


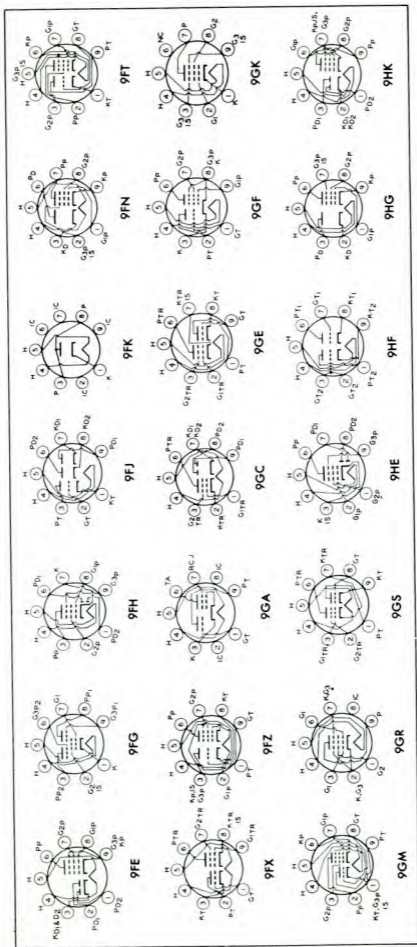
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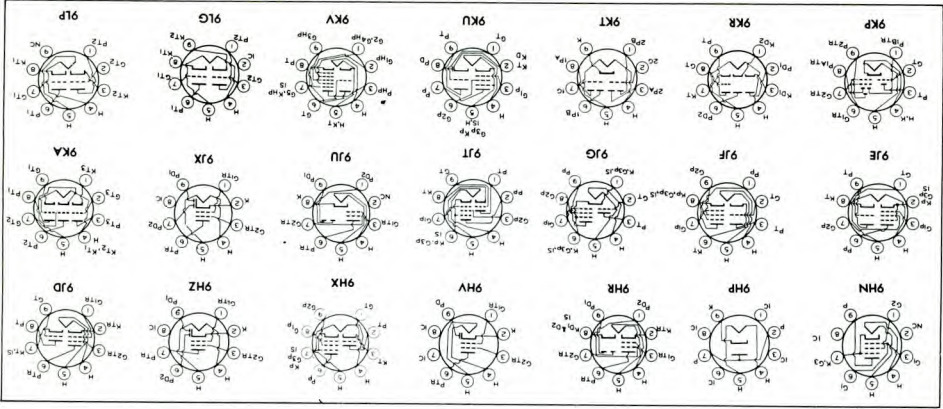


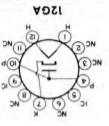
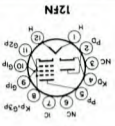
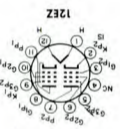
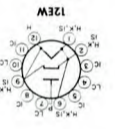
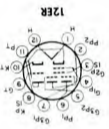
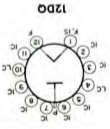
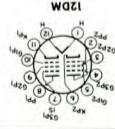












APPLICATION GUIDE FOR RCA RECEIVING TUBES

In the Application Guide on the following pages, RCA receiving tubes are classified in two ways: (a) by function, and (b) by structure (diode, triode, etc.). The functional classification covers 42 principal types of application, as listed below.

APPLICATIONS

- | | |
|--|---|
| 1. Audio-Frequency Amplifiers | 21. Intermediate-Frequency Amplifiers |
| 2. Automatic Gain Control (AGC and AVC) Circuits | 22. Keyed AGC Amplifiers |
| 3. Bandpass Amplifiers (Color TV) | 23. Limiters |
| 4. Burst Amplifiers | 24. Mixers—RF |
| 5. Cathode-Drive RF Amplifiers (Grounded-Grid) | 25. Mixer-Oscillators—RF |
| 6. Color Killers | 26. Multivibrators |
| 7. Color Matrixing Circuits | 27. Noise Inverters (Noise Immune Circuits) |
| 8. Complex-Wave Generators | 28. Oscillators |
| 9. Converters | 29. Phase Inverters |
| 10. Dampers | 30. Phase Splitters |
| 11. Demodulators (Color TV) | 31. Radio-Frequency Amplifiers |
| 12. Detectors | 32. Reactance Circuits |
| 13. DC Restorers | 33. Rectifiers |
| 14. Discriminators | 34. Regulators |
| 15. Frequency Dividers | 35. Relay Control Circuits |
| 16. FM Detectors | 36. Remote-Tuning Circuits |
| 17. Gated Noise, AGC, and Sync Amplifiers | 37. Sync Amplifiers |
| 18. Grounded-Grid RF Amplifiers | 38. Sync Clippers |
| 19. Harmonic Generators | 39. Sync Separators |
| 20. Horizontal-Deflection Circuits | 40. Tuning Indicators |
| | 41. Vertical-Deflection Circuits (Oscillator and Amplifier) |
| | 42. Video Amplifiers |

1. AUDIO-FREQUENCY AMPLIFIERS

VOLTAGE AMPLIFIERS

Medium-Mu Triode with Twin Diode

- 6BF6

Medium-Mu Triode—Sharp-Cutoff Pentode

- 7199†

Medium-Mu Twin Triode

- 5J6

- 6J6A

- ⊙ 6SN7GTB

- 7AU7

- 9AU7

- 17CU5

- ⊙ 12SN7GTA

- 19J6

Note: For footnote, see page 67.

APPLICATION GUIDE

High-Mu Triode with Twin Diode

- | | | |
|--------|---------|----------|
| ● 3AV6 | ● 6BN8 | ● 12AV6 |
| ● 4AV6 | ● 6CN7 | ○ 12SQ7 |
| ● 6AT6 | ○ 6SQ7 | ● 14GT8 |
| ● 6AV6 | ● 12AT6 | ● 18FY6A |

High-Mu Triode with Triple Diode

- | | | |
|-------|--------|--------|
| ● 5T8 | ● 6T8A | ● 19T8 |
|-------|--------|--------|

High-Mu Twin Triode

- | | | |
|-----------|-----------|---------|
| ● 6EU7† | ● 12AZ7A | ● 20EZ7 |
| ○ 6SL7GT | ● 12BZ7 | ● 7025† |
| ● 12AX7A† | ○ 12SL7GT | |

Sharp-Cutoff Pentode

- | | | |
|----------|----------|---------|
| ● 3DT6A* | ● 6DT6A* | ● 5879† |
| ● 4DT6A* | ● 6GX6* | ● 7543† |
| ● 5GX6* | ● 6HZ6* | |

Remote-Cutoff Pentode with Diode

- 12CR6

POWER AMPLIFIERS

Beam Power Tube

- | | | |
|----------|--------------|----------|
| ● 5AQ5 | ○ 6L6 | ● 25C5 |
| ● 5CZ5 | ○ 6L6GC† | ● 25F5A |
| ○ 5V6GT | ○ 6V6 | ● 34GD5A |
| ● 6AQ5A | ○ 6V6GTA | ● 35B5 |
| ● 6AS5 | ○ 6W6GT | ● 35C5 |
| ● 6CM6 | ○ 6Y6G | ○ 35L6GT |
| ● 6CU5 | ● 12AB5 | ● 50B5 |
| ● 6CZ5 | ● 12AQ5 | ● 50C5 |
| ○ 6DG6GT | ● 12CA5 | ○ 50FE5 |
| ● 6DS5 | ● 12CU5/12C5 | ○ 50L6GT |
| ● 6FE5 | ○ 12V6GT | ● 6973† |
| ▲ 6GC5 | ○ 12W6GT | ○ 7408† |
| ○ 6HG5 | ● 17CU5 | |

Beam Power Tube—Sharp-Cutoff Pentode

- | | | |
|--------|---------|---------|
| ‡6AL11 | ‡10AL11 | ‡12AL11 |
|--------|---------|---------|

Power Pentode

- | | | |
|---------|---------|---------|
| ● 6BQ5 | ● 8BQ5 | ● 50EH5 |
| ● 6EH5 | ● 12EH5 | ● 50FK5 |
| ○ 6F6 | ● 12FX5 | ● 60FX5 |
| ● 6GK6 | ● 25EH5 | ● 7189† |
| ○ 6K6GT | ● 35EH5 | ▲ 7868† |

Pentode—Beam Power Tube

- | | |
|-------|--------|
| ‡6J10 | ‡13J10 |
|-------|--------|

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

2. AUTOMATIC GAIN CONTROL CIRCUITS (AGC & AVC)

Diode—Sharp-Cutoff Pentode

- 6KL8
- 12KL8

Diode—Remote-Cutoff Pentode

- 6EQ7
- 12EQ7

Twin Diode—Medium Mu Triode

- 6SR7
- 12SR7

Twin Diode—High-Mu Triode

- 3AV6
- 4AV6
- 6AT6
- 6AV6
- 6SQ7
- 12AT6
- 12AV6
- 12SQ7
- 18FY6A

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8
- 5GH8
- 6AN8A
- 6AZ8
- 6BA8A
- 6BH8
- 6CH8
- 6CU8
- 6GH8A
- 8BA8A
- 8BH8

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 6HF8
- 6JV8
- 8AW8A
- 8JV8
- 10HF8

Sharp-Cutoff Twin Pentode

- 3BU8
- 3GS8
- 3HS8
- 4BU8
- 4HS8
- 6BU8
- 6HS8

3. BANDPASS AMPLIFIER (COLOR TV)

- 6AW8A
- 6HL8
- 6LF8
- 6KT8
- 8AW8A

4. BURST AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5EA8
- 5GH8
- 6EA8
- 6GH8A

Medium-Mu Triode—Semiremote-Cutoff Pentode

- 6LM8

High-Mu Triode with Twin Diodes

- 6BN8
- 8BN8

Note: For footnote, see page 67.

**5. CATHODE-DRIVE RF AMPLIFIERS
(GROUNDED-GRID)**

Medium-Mu Triode

- 6BC4

Medium-Mu Twin Triode

- | | | |
|---------|---------|---------|
| ● 4BC8 | ● 5BK7A | ● 6BQ7A |
| ● 4BQ7A | ● 5BQ7A | ● 6BS8 |
| ● 4BS8 | ● 6BC8 | ● 6BZ7 |
| ● 4BZ7 | ● 6BK7A | |

High-Mu Triode

- | | | |
|--------|--------|---------|
| △ 2CW4 | ● 6AB4 | △ 6DS4 |
| △ 2DS4 | △ 6CW4 | △ 13CW4 |

High-Mu Twin Triode

- | | | |
|---------|----------|---------|
| ● 6DT8 | ● 12AZ7A | ● 12DT8 |
| ● 12AT7 | | |

6. COLOR KILLERS

Quadruple Diode

- | | |
|--------|---------|
| ● 6JU8 | ● 6JU8A |
|--------|---------|

7. COLOR MATRIXING CIRCUITS

Medium-Mu Twin Triode

- | | | |
|--------|--------|----------|
| ● 6CG7 | ● 6GU7 | ● 8FQ7 |
| ● 6FQ7 | ● 8CG7 | ● 12BH7A |

8. COMPLEX-WAVE GENERATORS

High-Mu Twin Double-Plate Triode

- 12FQ8

Sharp-Cutoff Twin-Plate Tetrode—Diode

- 6FA7

Sharp-Cutoff Three-Plate Tetrode—Diode

- 6KM8

Three-Plate Tetrode—Medium-Mu Triode

- 6FH8

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

9. CONVERTERS

Medium-Mu Triode—Sharp-Cutoff Pentode

- | | | |
|--------|---------|--------|
| ● 5EA8 | ● 5X8 | ● 6KZ8 |
| ● 5GH8 | ● 6EA8 | ● 6U8A |
| ● 5KE8 | ● 6GH8A | ● 6X8 |
| ● 5U8 | ● 6KE8 | ● 19X8 |

High-Mu Twin Triode

- | | | |
|---------|----------|---------|
| ● 6DT8 | ● 12AZ7A | ● 12DT8 |
| ● 12AT7 | | |

Sharp-Cutoff Pentode

- | | | |
|--------|---------|----------|
| ● 3AU6 | ● 6AU6A | ● 18GD6A |
| ● 4AU6 | ● 12AU6 | |

Pentagrid

- | | | |
|--------|---------|----------|
| ● 3BE6 | ○ 6SA7 | ○ 12SA7 |
| ● 6BA7 | ● 12BE6 | ● 18FX6A |
| ● 6BE6 | | |

10. DAMPERS

Half-Wave (Diode)

- | | | |
|-----------|------------|------------|
| ○ 6AU4GTA | ○ 6DM4 | ▲ 17BS3 |
| ○ 6AX4GTB | ▲ 6DW4 | ○ 17D4 |
| ▲ 6AY3 | ○ 6W4GT | ○ 17DE4 |
| ▲ 6BA3 | ○ 12AX4GTA | ○ 19AU4 |
| ▲ 6BH3 | ○ 12AX4GTB | ▲ 22BH3 |
| ▲ 6BS3 | ▲ 12AY3 | ○ 22DE4 |
| ○ 6CQ4 | ▲ 12BS3 | ○ 25AX4GTA |
| ○ 6DA4 | ○ 12D4 | ▲ 17AY3 |
| ○ 6DE4 | ○ 17AX4GTA | ▲ 17BH3 |

11. DEMODULATORS (COLOR TV)

Medium-Mu Twin Triode

- 12BH7A

High-Mu Twin Triode

- 12AZ7A

Sharp-Cutoff Pentode

- | | |
|--------|--------|
| ● 3BY6 | ● 6GY6 |
|--------|--------|

Pentagrid Amplifier

- | | |
|--------|--------|
| ● 6BY6 | ● 6JH8 |
|--------|--------|

Note: For footnote, see page 67.

12. DETECTORS

Diode—Sharp-Cutoff Pentode

- | | | |
|--------|---------|---------|
| ● 5AM8 | ● 6AM8A | ● 6KL8 |
| ● 5AS8 | ● 6AS8 | ● 12KL8 |

Diode—Remote-Cutoff Pentode

- | | | |
|--------|---------|---------|
| ● 6CR6 | ● 12CR6 | ● 12EQ7 |
| ● 6EQ7 | | |

Twin Diode

- | | | |
|--------|---------|--------|
| ● 3AL5 | ⊙ 6H6 | ⊙ 12H6 |
| ● 6AL5 | ● 12AL5 | |

Twin Diode—High-Mu Triode

- | | | |
|--------|---------|----------|
| ● 3AV6 | ● 6CN7 | ● 12AV6 |
| ● 4AV6 | ⊙ 6SQ7 | ⊙ 12SQ7 |
| ● 6AT6 | ● 8BN8 | ● 14GT8 |
| ● 6AV6 | ● 12AT6 | ● 18FY6A |
| ● 6BN8 | | |

Triple Diode

- 6BJ7

Triple Diode—High-Mu Triode

- | | |
|-------|--------|
| ● 5T8 | ● 6T8A |
|-------|--------|

Quadruple Diode

- | | |
|--------|---------|
| ● 6JU8 | ● 6JU8A |
|--------|---------|

Sharp-Cutoff Pentode

- | | | |
|----------|----------|---------|
| ● 3DT6A* | ● 5GX6* | ● 6GX6* |
| ● 4DT6A* | ● 6DT6A* | ● 6HZ6* |

13. DC RESTORERS

Diode—Sharp-Cutoff Pentode

- | | | |
|--------|---------|--------|
| ● 5AM8 | ● 6AM8A | ● 6AS8 |
| ● 5AS8 | | |

Triple Diode

- 6BJ7

14. DISCRIMINATORS

FM

Twin Diode

- | | | |
|--------|--------|---------|
| ● 3AL5 | ● 6AL5 | ● 12AL5 |
|--------|--------|---------|

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

Twin Diode—High-Mu Triode

- 6BN8
- 14GT8

Triple Diode—High-Mu Triode

- 5T8
- 6T8A
- 19T8

Beam Tube

- 3BN6
- 4BN6
- 6BN6

Beam Power Tube—Sharp-Cutoff Pentode

- ‡6AL11
- ‡6BF11
- ‡12AL11
- ‡17BF11

Pentode—Beam Power Tube

- ‡6J10
- ‡13J10

FM QUADRATURE-GRID

Sharp-Cutoff Pentode

- 3DT6A*
- 4DT6A*
- 5GX6*
- 5GY6*
- 6DT6A*
- 6GX6*
- 6HZ6*

Beam Tube

- 3BN6
- 4BN6
- 6BN6

HORIZONTAL AFC

Twin Diode—High-Mu Triode

- 6BN8
- 6CN7
- 8BN8
- 8CN7

15. FREQUENCY DIVIDERS

High-Mu Twin Double-Plate Triode

- 12FQ8

16. FM DETECTORS

(See 14. Discriminators)

17. GATED NOISE, AGC, AND SYNC AMPLIFIERS

High-Mu Triode—Sharp-Cutoff Pentode

- 6KA8
- 6LC8
- 8KA8
- 8LC8

Sharp-Cutoff Pentode

- 6GY6*

Note: For footnote, see page 67.

APPLICATION GUIDE

Sharp-Cutoff Twin Pentode

- | | | |
|--------|--------|--------|
| ● 3BU8 | ● 4BU8 | ● 6BU8 |
| ● 3GS8 | ● 4HS8 | ● 6HS8 |
| ● 3HS8 | | |

Pentagrid Amplifier

- | | | |
|--------|--------|--------|
| ● 3BY6 | ● 4CS6 | ● 6CS6 |
| ● 3CS6 | ● 6BY6 | |

18. GROUNDED-GRID RF AMPLIFIERS

(See 5. Cathode-Drive RF Amplifiers)

19. HARMONIC GENERATORS

(See 8. Complex-Wave Generators)

20. HORIZONTAL-DEFLECTION CIRCUITS

OSCILLATORS

Medium-Mu Triode—Sharp-Cutoff Pentode

- | | |
|--------|---------|
| ● 5GH8 | ● 6GH8A |
|--------|---------|

Medium-Mu Twin Triode

- | | | |
|-----------|--------|------------|
| ● 6CG7 | ● 8CG7 | ● 12AU7A |
| ● 6FQ7 | ● 8FQ7 | ● 12BH7A |
| ○ 6SN7GTB | ● 9AU7 | ○ 12SN7GTA |
| ● 7AU7 | | |

AMPLIFIERS

Beam Power Tube

- | | | |
|--------------------|----------------------|----------------------|
| ○ 6AU5GT | ▲ 6JG6 | ▲ 17GJ5 |
| ○ 6AV5GA | ▲ 6JG6A | ▲ 17GJ5A |
| ○ 6BG6GA | ▲ 6JT6 | ▲ 17GT5 |
| ○ 6BQ6GTB/
6CU6 | ○ 12AV5GA | ○ 17GW6 |
| ○ 6CB5A | ○ 12BQ6GTB/
12CU6 | ▲ 17JB6 |
| ○ 6CD6GA | ○ 12DQ6B | ▲ 17JG6 |
| ○ 6DQ5 | ▲ 12GT5 | ▲ 17JT6 |
| ○ 6DQ6B | ○ 12GW6 | ▲ 22JG6 |
| ▲ 6GJ5 | ▲ 12JB6 | ○ 25AV5GA |
| ▲ 6GT5 | ▲ 12JT6 | ○ 25BQ6GTB/
25CU6 |
| ○ 6GW6 | ○ 17BQ6GTB | ○ 25CD6GB |
| ▲ 6JB6 | ○ 17DQ6B | ○ 25DN6 |
| ▲ 6JE6 | | |

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

21. INTERMEDIATE-FREQUENCY AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CQ8
- 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8
- 6AN8A
- 6AZ8
- 6BH8
- 6CH8
- 6CU8

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 6GN8
- 6HF8
- 6JV8
- 6KT8
- 6KV8
- 8AW8A
- 8GN8
- 8JV8
- 10GN8
- 10HF8
- 10JA8
- 11KV8

Sharp-Cutoff Pentode

- 3AU6
- 3BC5
- 3CB6
- 3CF6
- 3DK6
- 3JC6
- 3JD6
- 4AU6
- 4CB6
- 4DE6
- 4DK6
- 4EW6
- 4JC6
- 4JD6
- 5EW6
- 6AG5
- 6AK5
- 6AU6A
- 6BC5
- 6CB6
- 6CB6A
- 6CF6
- 6DC6
- 6DE6
- 6DK6
- 6EJ7
- 6EW6
- 6HS6
- 6JC6
- 6JD6
- 12AU6
- 12AW6
- 12DK6
- 18GD6A
- 19HS6

Sharp-Cutoff Pentode with Diode

- 5AM8
- 5AS8
- 6AM8A
- 6AS8
- 6KL8
- 12KL8

Semiremote-Cutoff Pentode

- 3BZ6
- 3EH7
- 4BZ6
- 4EH7
- 4GM6
- 5GM6
- 6BZ6
- 6EH7
- 6GM6
- 6HR6
- 6JH6
- 12BZ6
- 19HR6

Remote-Cutoff Pentode

- 3BA6
- 6BA6
- 12BA6
- 18FW6
- 18FW6A

Remote-Cutoff Pentode with Diode

- 6EQ7
- 12EQ7

22. KEYED AGC AMPLIFIERS

(See 17. Gated Noise, AGC, and Sync Amplifiers)

Note: For footnote, see page 67.

23. LIMITERS

Beam Tube

- 3BN6
- 4BN6
- 6BN6

Sharp-Cutoff Pentode

- 3AU6
- 6AU6A
- 6HZ6
- 4AU6
- 6GX6
- 12AU6
- 5GX6
- 6HS6
- 19HS6

Sharp-Cutoff Pentode with Diode

- 6KL8
- 12KL8

Power Pentode—Beam Power Tube

- ‡6J10
- ‡13J10

24. MIXERS—RF

Medium-Mu Twin Triode

- 5J6
- 6J6A

High-Mu Triode

- △2CW4
- △6CW4
- △13CW4
- 6AB4

25. MIXER-OSCILLATORS—RF

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CL8A
- 6CL8A
- 19CL8A
- 5CQ8
- 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AT8
- 5X8
- 6KZ8
- 5B8
- 6AT8A
- 6U8A
- 5BR8
- 6BR8A
- 6X8
- 5CG8
- 6CG8A
- 9EA8
- 5EA8
- 6EA8
- 9U8
- 5FG7
- 6FG7
- 19EA8
- 5KE8
- 6HB7
- 19X8
- 5U8
- 6KE8

High-Mu Twin Triode

- 6DT8
- 12AT7
- 12DT8

Triode-Hexode

- 6K8
- 12K8

26. MULTIVIBRATORS

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5GH8
- 6GH8A

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

Medium-Mu Twin Triode

- 6CG7
- 6GU7
- 6SN7GTB
- 7AU7
- 8CG7
- 9AU7
- 12AU7A
- 12SN7GTA

High-Mu Twin Triode

- 12AX7A

27. NOISE INVERTERS (NOISE IMMUNE CIRCUITS)

High-Mu Triode—Sharp-Cutoff Pentode

- 6KA8
- 6LC8
- 8KA8
- 8LC8

Sharp-Cutoff Pentode

- 6GY6*

28. OSCILLATORS

RADIO FREQUENCY—UHF

Medium-Mu Triode

- 2AF4B
- △ 2DV4
- 2DZ4
- 3AF4A
- 3DZ4
- 6AF4
- 6AF4A
- △ 6DV4
- 6DZ4

RADIO FREQUENCY—VHF

Medium-Mu Twin Triode

- 5J6
- 6J6A

High-Mu Triode

- 6AB4

Power Triode

- 6C4 (Class C)

LOW FREQUENCY, SWEEP TYPE

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8
- 6AN8A
- 6AU8A
- 6AZ8
- 6BA8A
- 6BH8
- 6CH8
- 8AU8
- 8BA8B
- 8BH8

High-Mu Triode with Twin Diode

- 6BN8
- 6CN7
- 8BN8
- 8CN7

High-Mu Twin Triode

- 12AX7A

Note: For footnote, see page 67.

29. PHASE INVERTERS**Medium-Mu Triode—High-Mu Triode**

- 12DW7

Medium-Mu Twin Triode

- 6CG7
- 6GU7
- 6SN7GTB
- 7AU7
- 8CG7
- 9AU7
- 12AU7A
- 12SN7GTA

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 6EB8
- 6GN8
- 6HF8
- 8AW8A
- 8EB8
- 8GN8
- 10GN8
- 10HF8
- 10JA8

High-Mu Twin Triode

- 6SL7GT
- 12AX7A
- 12SL7GT
- 7025

30. PHASE SPLITTERS**Medium-Mu Triode—Sharp-Cutoff Tetrode**

- 5CQ8
- 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8
- 6AN8
- 6AZ8
- 6BA8A
- 6CH8
- 6CU8
- 8BA8A
- 7199

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 8AW8A

31. RADIO-FREQUENCY AMPLIFIERS**Medium-Mu Triode**

- 2BN4A
- 3BN4A
- 6BC4
- 6BN4A

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CQ8
- 6CQ8

Medium-Mu Twin Triode

- 4BC8
- 4BQ7A
- 4BS8
- 4BZ7
- 5BK7A
- 5BQ7A
- 5J6
- 6BC8
- 6BK7B
- 6BQ7A
- 6BS8
- 6BZ7
- 6J6A
- 12AV7

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

High-Mu Triode

- | | | |
|-------|------------|------------|
| △2CW4 | ●3GK5 | ●6ER5 |
| △2DS4 | ●3HM5/3HA5 | ●6FH5 |
| ●2ER5 | ●4GK5 | ●6FQ5A |
| ●2FH5 | ●6AB4 | ●6GK5 |
| ●2GK5 | △6CW4 | ●6HM5/6HA5 |
| ●3ER5 | △6DS4 | △13CW4 |
| ●3FH5 | | |

High-Mu Twin Triode

- | | | |
|-------|---------|--------|
| ●6DT8 | ●12AZ7A | ●12DT8 |
|-------|---------|--------|

Power Triode

- 6C4 (Class C)

Sharp-Cutoff Tetrode

- | | | |
|-------|-------|-------|
| ●2CY5 | ●4CY5 | ●6FV6 |
| ●3CY5 | ●6CY5 | |

Sharp-Cutoff Pentode

- | | | |
|-------|--------|---------|
| ●3AU6 | ●6AK5 | ●6DE6 |
| ●3BC5 | ●6AU6A | ○6SH7 |
| ●3CB6 | ●6BC5 | ○6SJ7 |
| ●3CF6 | ●6BH6 | ●12AU6 |
| ●4AU6 | ●6CB6 | ●12AW6 |
| ●4CB6 | ●6CB6A | ○12SH7 |
| ○4DE6 | ●6CF6 | ○12SJ7 |
| ●6AG5 | ●6DC6 | ●18GD6A |

Sharp-Cutoff Pentode with Diode

- | | |
|-------|--------|
| ●6KL8 | ●12KL8 |
|-------|--------|

Remote-Cutoff Pentode

- | | | |
|-------|---------|---------|
| ●3BA6 | ●6BJ6 | ●12BA6 |
| ●6BA6 | ○6SK7GT | ●18FW6A |

Remote-Cutoff Pentode with Diode

- | | |
|-------|--------|
| ●6EQ7 | ●12EQ7 |
|-------|--------|

32. REACTANCE CIRCUITS

Medium-Mu Triode—Sharp-Cutoff Pentode

- | | | |
|--------|--------|--------|
| ●5AN8 | ●6BA8A | ●6CU8 |
| ●6AN8A | ●6CH8 | ●8BA8A |
| ●6AZ8 | | |

High-Mu Triode with Twin Diodes

- | | |
|-------|-------|
| ●6CN7 | ●8CN7 |
|-------|-------|

High-Mu Triode—Sharp-Cutoff Pentode

- | | |
|--------|--------|
| ●6AW8A | ●8AW8A |
|--------|--------|

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

Medium-Mu Twin Triode

- 6CG7
- 7AU7
- 8CG7
- 12AU7A

High-Mu Triode with Twin Diode

- 6CN7
- 8CN7

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 6HF8
- 6JV8
- 8AW8A
- 8JV8
- 10HF8

High-Mu Twin Triode

- 12BZ7

38. SYNC CLIPPERS

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CQ8
- 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8
- 6AN8A
- 6AU8A
- 6AZ8
- 6CH8
- 6CU8
- 6CX8
- 8CX8
- 8AU8

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 6EB8
- 6GN8
- 6GW8/
ECL86
- 6HF8
- 6JV8
- 8AW8A
- 8EB8
- 8GN8
- 8JV8
- 10GN8
- 10HF8
- 10JA8

High-Mu Twin Triode

- 12BZ7

Sharp-Cutoff Twin Pentode

- 3BU8
- 3GS8
- 3HS8
- 4BU8
- 4HS8
- 6BU8
- 6HS8

Pentagrid Amplifier

- 3BY6
- 3CS6
- 4CS6
- 6BY6
- 6CS6

39. SYNC SEPARATORS

Medium-Mu Triode—Sharp-Cutoff Tetrode

- 5CQ8
- 6CQ8

Medium-Mu Triode—Sharp-Cutoff Pentode

- 5AN8
- 5GH8
- 6AN8A
- 6AU8A
- 6AZ8
- 6CU8
- 6CX8
- 6GH8
- 6HL8
- 6GH8A
- 8AU8
- 8CX8

Note: For footnote, see page 67.

Medium-Mu Twin Triode

- 6CG7
- 7AU7
- 8CG7
- 12AU7A

High-Mu Triode with Twin Diode

- 6CN7
- 8CN7

High-Mu Triode—Sharp-Cutoff Pentode

- 6AW8A
- 6EB8
- 6GN8
- 6HF8
- 6JV8
- 6KA8
- 6KV8
- 6LC8
- 8AW8A
- 8EB8
- 8GN8
- 8JV8
- 8KA8
- 8LC8
- 10GN8
- 10HF8
- 10JA8
- 11KV8

High-Mu Twin Triode

- 12BZ7

Sharp-Cutoff Twin Pentode

- 3BU8
- 3GS8
- 3HS8
- 4BU8
- 4GS8/4BU8
- 4HS8
- 6BU8
- 6HS8

Pentagrid Amplifier

- 3BY6
- 3CS6
- 4CS6
- 6BY6
- 6CS6

40. TUNING INDICATORS

Indicator with Triode Unit

6E5

Twin Indicator Units

⊙ 6AF6G

41. VERTICAL-DEFLECTION CIRCUITS

OSCILLATORS AND AMPLIFIERS (Combined)

Medium-Mu Triode—Low-Mu Triode

- 6DE7
- 6EW7
- 10DE7
- 13DE7

Medium-Mu Dual Triode

- 6CM7
- 6CS7
- 8CM7
- 8CS7

High-Mu Triode—Low-Mu Triode

- 6CY7
- 6DR7
- 6EA7
- ⊙ 6EM7
- ▲ 6FD7
- ▲ 6GF7
- ▲ 6GF7A
- ⊙ 6GL7
- 10DR7
- ⊙ 10EM7
- ▲ 10GF7
- ⊙ 11CY7
- 13DR7
- ⊙ 13EM7
- ▲ 13FD7
- ▲ 13GF7

Note: For footnote, see page 67.

FOR RCA RECEIVING TUBES

High-Mu Triode—Beam Power Tube

▲6KY8
▲6KY8A

▲15KY8

▲15KY8A

AMPLIFIERS

Low-Mu Triode

●12B4A

Medium-Mu Triode

●6S4A

Beam Power Tube

●5AQ5

●6AQ5A

●6EM5

●5CZ5

●6CM6

●8EM5

○5V6GT

●6CZ5

●12AQ5

Power Pentode

○6K6GT

42. VIDEO AMPLIFIERS

Medium-Mu Triode—Sharp-Cutoff Pentode

●5AN8

●6BH8

●8AU8

●6AN8A

●6CH8

●8BA8A

●6AU8A

●6CU8

●8BH8

●6AZ8

●6CX8

●8CX8

●6BA8A

●6HL8

High-Mu Triode—Sharp-Cutoff Pentode

●6AW8A

●6KV8

●10GN8

●6EB8

●6LF8

●10HF8

●6GN8

●8AW8A

●10JA8

●6HF8

●8EB8

●11KV8

●6JV8

●8GN8

●12KV8

●6KT8

●8JV8

Sharp-Cutoff Pentode

●12BY7A

Sharp-Cutoff Pentode with Diode

●5AM8

●6AM8A

●6AS8

●5AS8

Beam Power Tube

●6BK5

●25BK5

Power Pentode

○6AG7

●6GK6

●16GK6

●6CL6

Footnotes for Application Guide

○ Miniature ○ Octal ▲ Nuistor ▲ Novar

■ Approaches semiremote-cutoff characteristics; used in first-if amplifier applications

* Dual-control grids † For high-fidelity equipment

‡ Duodecar

RCA

INTERCHANGEABILITY DIRECTORY

OF FOREIGN vs U.S.A.

RECEIVING-TYPE

ELECTRON TUBES

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

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

The information contained in this directory is based on the latest available information, has been carefully checked for accuracy, and is believed to be reliable. However, no responsibility is assumed for inaccuracies. The reporting of any inaccuracy to Commercial Engineering, RCA Electronic Components and Devices, Harrison, New Jersey will be appreciated.

1965 Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
1C1	1R5		6F19	6BY7	
1C2	1AC6		6F21	6CQ6	6BJ6
1C3	1AB6		6F22	6267	5879
1D13	1A3		6F23	6EL7	
1F1	1AJ4	1T4	6F24		6EJ7
1F2	1L4		6F25		6EH7
1F3	1T4		6F26	6BY7	
1FD1	1AH5	1S5	6F29	6EH7	
1FD9	1S5		6F30	6EJ7	
1H35	1AB6		6F31	6BA6	
1M1		1M3	6F36	6AH6	
1P1	3C4		6FD12	6DC8	
1P10	3S4		6H31	6BE6	
1P11	3V4		6J6L		6J6A
1R5SF	1AQ5	1R5	6J6R		6J6A
1S5SF	1AR5	1S5	6J8EG		6J8G
1T4SF	1AM4	1T4	6J8GA		6J8G
1U5SF	1AS5	1U5	6L10	6AG7	
3S4SF	3W4	3S4	6L12	6AQ8	
4R-HH2	4BQ7A		6L13	12AX7A, 7025	
4R-HH8	4KN8				
5M-HH3	5J6		6L16	6CW7	
5P29	6CN6		6L34	6AQ4	
5Y3GB		5Y3GT	6L43	6CL6	
6AT7N	6DT8		6LD3	6CV7	
6BC32			6LD12	6AK8	6T8A
6BS4	6AV6				
6C10		6AF4, 6AF4A, 6CU7	6LD13	6BD7	
6C12	6AJ8		6M1		6U5
6C16	6BL8		6M2	6CD7	
			6M-HH3	6J6A	
			6P9	6BM5	
6D2	6AL5		6P15	6BQ5	
6F10	6AC7		6P17	6AM5	
6F12	6AM6	6BH6	6Q8		6A8, 6A8G, 6A8GT
6F16	6CJ5				6922
6F18	6EC7		6R-HH1	6DJ8	
			6R-HH2	6BQ7A	

Note: Types shown in bold face are RCA Types.

1965 Interchangeability Directory of Foreign

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Repaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
6R-HH8 7D9 7D10 7F16 8D3	6KN8 6AM5 6CH6 6CJ5 6AM6	6BQ5 6BA6	41M 42E 52KU 53KU 62DDT	6CV7	6K6GT 42 5V4GA 5V4GA
8D5 8D7 8D8 9D6 9P9	6BR7 6BS7 6CQ6 9BM5	5879 5879 6267 6BJ6	62TH 62VP 63ME 63TP 64ME	6CU7 6CJ5 6AB8 6CD7	7J7 6U5
10C14 10LD3 10P18 10PL12 11L6	19D8 14L7 45B5 50BM8	6L6, 6L6GC	64SPT 65ME 66KU 67PT 77E	6BX6 6BR5 6BT4 6CK5	6C6
12AU7R 12AX7R		12AU7A 12AX7, 12AX7A, 7025	77M 80S 85A1 85A2 86M	OE3 OG3	6J7, 6J7GT 5Z4
12BC32 12F31 12H31	12AV6 12BA6 12BE6				5651A 6P5, 6P5GT
13D2 17N8 19AJ8 19SU 19U3	6SN7GTB	17C8	88M 89RS		6SK7 6P8, 6B8G
24/76 24/78	19D8 19Y3	19X3	108C1 121VP 141DDT	OB2 12AC5 14L7	
30C1 30F5 30L1	9A8 7ED7 7AN7	6P5G, 6P5GT 6K7, 6K7GT	141TH 150B2 150C1 150C2 150C3	14K7 6354 OA2 OA2 OD3, OD3A	
30P4 30P16 30P18 30PL13 41E	25GF6 16A5 15CW5 16GK8	25BQ6GTB 41	150C4 171DDP 311SU 451PT A676	17C8 31A3 45A5	OA2 76

For footnotes * †, see page 80.

vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
A678 A863		78 6J7, 6J7GT	DAC32 DAF91 DAF92 DAF96 DAF191	1H5GT 1S5 1U5 1AH5	1S5 1S5
A1834 AA91E AG5209 AG5210 AG5211	6AS7G, 6080 5726, 6AL5W OG3	5651A OB2, OB2WA OA2, OA2WA	DC70 DC80 DCC90 DCF60 DD6	6375 3A5	1E3 1E3 1V6 6AL5
B36 B63 B65	12SN7GTA 6A6 6SN7GTB		DD7 DDR7 DF33 DF60 DF62	6AM5 6AM5 1N5GT 5678 1AD4	
B152 B309 B319 B329 B339	12AT7 12AT7 12AU7A 12AX7, 12AX7A, 7025	7AN7	DF91 DF92 DF96 DF97 DF904	1T4 1L4 1AJ4 1AN5 1U4	1T4
B719 B739 B749 B759	6AQ8	12AT7 12AU7A 12AX7, 12AX7A, 7025	DH63 DH63M DH74 DH76 DH77	6Q7 12Q7GT 12Q7GT 6AT6	6Q7, 6Q7GT
BF61	6CK5	6CL6	DH81 DH118 DH142 DH147	7B6	
BPM04 CC81E CCa D2M9 D61	6AQ5A 12AT7WA, 6201 6922 6AL5	6CT7	DH149	7C6	14L7 14L7 6Q7, 6Q7GT
D63 D77 D152 D717 DA90	6AL5 6AL5 1A3	6H6 6AL5	DH150 DH718 DH719 DH817 DK32	6CV7 6CV7 6T8A 6CV7 1A7GT	

Note: Types shown in bold face are RCA Types.

1965 Interchangeability Directory of Foreign

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
DK91	1R5		E80F	6084	
DK92	1AC6		E80L	6227	
DK96	1AB6		E80T	6218	
DK97	1AB6		E81CC	12AT7WA, 12AT7	
DL29		3D6		6201	
			E81L	6686	
DL31		1A5GT			
DL33	3Q5GT		E82CC	6189/	12AU7A
DL35	1C5GT			12AU7WA	
DL36	1Q5GT		E83CC	6681/	12AX7A
DL63		6R7		12AX7A	
			E83F	6689	
DL67	6007		E88CC	6922	
DL70	6373		E90CC	5920	
DL74M		12Q7GT			
DL82		7B6	E90F		6661/
DL91	1S4				6BH6,
					6BH6
					6AL5
DL92	3S4		E91AA	5726,	
DL93	3A4			5726/	
DL94	3V4			6AL5W	
DL95	3Q4		E91H	6687	5915
DL96	3C4	3V4	E91N	5727	
			E95F	5654	6AK5
DL98	3B4	3B4WA	E99F		6BJ6
DL193		3A4	E130L	7534	
DL620	5672		E180CC	7062	
DM70	1M3		E180F	6688	
DM71	1N3		E182CC	7119	7044
DM160	6977				
DP61	6AK5		E182F	5847/	
DS77		6AL5		404A	
DY30		1B3GT,	E188CC		6922
		1G3GT/	EA76	6489	
		1B3GT	AAA91	6AL5	
DY70	5642		AAA171		6AL5
DY80		1X2A,	AAA901S	5726,	6AL5
		1X2B		5726/	
DY86	1S2			6AL5W	
DY87	1S2A		EABC80	6T8A	
E80CC	6085		EAF42	6CT7	
E80CF	7643		EB34		6H6
			EB91	6AL5	

For footnotes * †, see page 80.

vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
EBC33		6Q7, 6Q7GT	ECC85 ECC86 ECC88 ECC89 ECC91	6AQ8 6GM8 6DJ8 6FC7 6J6A	6922 6ES8
EBC41 EBC80 EBC81 EBC90	6CV7 6BD7 6AT6	6BD7			
EBC91 EBF32 EBF80 EBF81 EBF83	6AV6 6N8 6AD8 6DR8	6B8	ECC180 ECC186 ECC189 ECC230 ECC801	6BQ7A 7316 6ES8 6080 12AT7WA, 6201	
EBF89 EBF171 EBF175 EC70 EC71	6DC8 5718 5718	6N8 6DC8	ECC801S ECC802 ECC802S	12AT7WA, 6201 6189/ 12AU7WA 6189/ 12AU7WA	
EC80 EC81 EC84 EC86 EC90	6Q4 6R4 6AJ4 6CM4 6C4	6BC4	ECC803 ECC803S	12AX7A, 7025 12AX7A, 7025	
EC91 EC92 EC93	6AQ4 6AB4	6AF4, 6AF4A	ECC960 ECF80 ECF82 ECF86 ECF801	5920 6BL8 6U8A 6HG8 6GJ7	
EC94 EC95	6AF4, 6AF4A 6ER5		ECH3G ECH35		6K8 6E8G, 6K8 7J7
EC97 EC900	6FY5 6HM5/ 6HA5	6FQ5A	ECH42 ECH80 ECH81	6CU7 6AN7 6AJ8	
ECC32 ECC33 ECC35		6SN7GTB 6SN7GTB 6SL7GT	ECH83 ECH113 ECH171	6DS8 6CU7	7J7 6AJ8
ECC40 ECC70 ECC81 ECC82 ECC83	6021 12AT7 12AU7A 12AX7A, 7025	6N7GT	ECL80 ECL82	6AB8 6BM8	

Note: Types shown in bold face are RCA Types.

1965 Interchangeability Directory of Foreign

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
ECL83		6BM8	EF183	6EH7	
ECL84	6DX8		EF184	6EJ7	
ECL85	6GV8		EF190	6CB6A	
ECL86	6GW8		EF730	5636	
ED2		6AL5	EF731	5899	
EF5	6DA6		EF732	5840	
EF9		6K7, 6K7GT	EF734	6205	6EH7
EF13	6DA6		EF811		
EF22	7G7	7B7	EF812	6EL7	6EJ7
EF36		6J7, 6J7GT	EF814		
EF37A		6J7GT	EF861	6688	
		1620	EF905	5654	6AK5
EF39		6K7, 6K7GT	EH90	6CS6	5915
		5879	EH900		
EF40			EK90	6BE6	
EF41	6CJ5	6EW6			6V6GTA
EF42			EL32		6V6, 6V6GTA
EF70	6487		EL33		7027A
EF73	6488		EL34	6CA7	6Y6G
EF74	6391		EL35		
EF80	6BX6		EL36	6CM5	
EF81	6BH5				6L6GC, 7027A
EF82	6CH6	6BQ5	EL37		
EF85	6BY7		EL38	6CN6	
EF86	6267	5879	EL41	6CK5	6CL6
EF89	6DA6		EL71	5902	
EF89F	6DG7		EL80	6M5	6BQ5
EF91	6AM6		EL81	6CJ6	
EF92	6CQ6		EL82	6DY5	
EF93	6BA6		EL83	6CK6	6CL6
EF94	6AU6A, 7543		EL84	6BQ5	
EF95	6AK5		EL85	6BN5	
EF96	6AG5	6BC5	EL86	6CW5	
EF97	6ES6		EL90	6AQ5A	
EF98	6ET6		EL91	6AM5	
EF174		6BX6	EL95	6DL5	
EF175		6BY7	EL180	12BY7A	

For footnotes * †, see page 80.

vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
EL360		6CM5	EZ90	6X4	
EL500	6GB5		GZ30	5Z4	
EL803		6CK6	GZ31		5U4G,
EL821	6CH6	6BQ5			5U4GB
EL822		6BQ5	GZ32		5V4GA
			GZ33		5AR4
EL861	6686				
ELL80	6HU8		GZ34	5AR4	
EM34	6CD7		H63		6F5
EM80	6BR5		HAA91	12AL5	
EM81	6DA5		HABC80	19T8	
			HBC90	12AT6	
EM84	EM84/				
	6FG6		HBC91	12AV6	
EM85	6DG7		HCC85	17EW8	
EM87	6HU6		HCH81	12AJ7	
EM840	EM84/		HD14	1H5G,	
	6GF6			1H5GT	
EN32	2050A		HD30		3B4,
					3B4WA
EN91	2D21				
EN92	5696		HD51	OA2	
EN93	6D4		HD52	OB2	
EQ80	6BE7		HD94	6BQ6GTB/	
EY51	6X2			6CU6	
			HD96	25BQ6GTB/	
EY80	6U3			25CU6	
EY81	6R3	6AF3	HF61	6CJ5	
EY82	6N3				
EY83		6S2	HF93	12BA6	
EY84		6374	HF94	12AU6	
			HF121	12AC5	
EY86	6S2		HK90	12BE6	
EY87	6S2A		HL90		19AQ5
EY88	6AL3				
EZ3	6V4	6CA4	HL92	50C5	
EZ4	6CA4		HL94	30A5	35C5
			HM04	6BE6	
EZ11	6V4	6CA4	HP6	6AM6	
EZ35	6X5GT		HY90	35W4	
EZ40	6BT4				
EZ80	6V4	6CA4			
EZ81	6CA4				

Note: Types shown in bold face are RCA Types.

1965 Interchangeability Directory of Foreign

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement			
	Direct*	Similar†		Direct*	Similar†		
HZ90 KD21	12X4 OA3, OA3A OC3, OC3A OD3, OD3A 6AG6G 6J7GT 6J5 6J5GT 6C4 50BM8 6AB8 9A8 5726	1F5G 25L6, 25L6GT 6V6, 6V6GTA 6F6, 6F6G, 6F6GT 7027A 50L6GT 7027A 7C5 6S7 6K7, 6K7GT 12K7GT 9A8, 9U8A 9U8A 6AL5 6C4	M8081	6101, 6101/ 6J6WA 5763 5654, 5654/ 6AK5W 6189/ 12AU7WA 12AX7A, 7025 6065 12AT7WA, 6201	6J6A 6AM5 6AM6 OG3, 5651A 6AK5 12AU7 12AX7A, 7025 12AT7		
KD24			M8082			12AT7	
KD25			M8083				
KL35			M8096				6AS6
KT32			M8098				2D21
KT61			M8100				6AL5
KT63			M8136				12AX7A, 7025
KT66			M8137				OA2, OA2A
KT71			M8161				OB2
KT77			M8162				6J4
KT81	M8196	6AQ5A					
KTW61	M8204	6AM5					
KTW63	M8212						
KTW74M	M8214						
KTZ63	M8223						
L63	M8224						
L63B	M8232						
L77	M8245						
LN119	N14						
LN152	N15						
LZ319	N16						
LZ329	N17						
M8079	N18						
M8080	N19						
	N25						
	N77						
	N78						
	N119						
	N142						
	N144						
	6BJ5						
	45B5						
	45A5						
	6AM5						

For footnotes * †, see page 80.

vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
N147	6AG6G	6V6, 6V6GTA	PC97	3FY5	
N148		7C5	PCC84	7AN7	
N150	6CK5	6CL6	PCC85	9AQ8	
N152	21A6		PCC88	7DJ8	
N153	15A6		PCC89	7FC7	
N154	16A5		PCC189	7ES8	
N155	6BN5		PCF80	9A8	9U8A
N308		25E5	PCF82		9U8A
N309		15A6	PCF86		7HG8, 8HG8
N329	16A5		PCL82	16A8	
N359	21A6		PCL83		
N369	16A8		PCL84	15DQ8	
N379	15CW5		PF9		6K7
N707		6BQ5	PH4	6A8	
N709	6BQ5		PL21	2D21	
N727	6AQ5A		PL36	25E5	
OBC3	12SQ7, 12SQ7GT		PL81	21A6	
OF1		6S7	PL82	16A5	
OH4	12A8GT	6Q7, 6Q7GT	PL83	15A6	
OM4			PL84	15GW5	
OM6		6K7, 6K7GT	PL500	27GB5	21A6
OM10		6K8	PL820	OA4G	
OSW2190		6AC7	PL1267	12HU8	
OSW2192		6AG7	PLL80	6BA6	
OSW2600		6AC7	PM04		
OSW3104		6SA7	PM05	6AK5	
OSW3105		6SQ7	PM07	6AM6	
OSW3106		6V6	PY80	19X3	
OSW3109		6H6	PY81	17Z3	
OSW3110	6E5		PY82	19Y3	
OSW3111		6SK7	PY83		17Z3
OSW3112		6J5	PY88	6065	30AE3
PABC80	9AK8		QA2400		6CQ6
PC86	4CM4		QA2401		6C4
PC95	4ER5		QA2402		6AM5

Note: Types shown in bold face are RCA Types.

1965 Interchangeability Directory of Foreign

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
QA2403 QA2404 QA2406 QA2407 QA2408	5692	6AM6 6AL5 12AT7 6X4 6SN7GTB	RL1267 S856 S860 SP6 SU61	OA4G OA2 OB2 6AM6 6X2	
QB65 QB309 QE03/10 QQE02/5 QQV02-6	5763 6939 6939	6SN7GTB 12AT7	T2M05 TM12 TXM100 U17 U26	6J6A 6S2	6J4 2D21, 5727 1T4
QS150/40 QS1205 QS1206 QS1207 QS1208	OD3, OD3A OA3, OA3A OC3, OC3A OA2 OB2		U41 U43 U49 U50 U52	6X2 6S2 5Y3GT 5U4G, 5U4GB	1B3GT
QS1209 QS1210 QS1211 QS1212	OA2WA OB2WA	5651A, OG3 OA2 OB2 OG3, 5651A, 5651WA 6AL5	U70 U74 U78 U82 U119 U142 U145 U147 U149 U150	6X4 38A3 31A3	6X5GT 35Z4GT 7Y4
QS2404 QS2406 QV03-12 R12 R12A R17	5726 12AT7WA, 6201 5763 6X2 6X2	12AT7	U151 U152 U153 U154 U192	31A3 6BT4 6X2 19X3 17Z3 19Y3 19Y3	31A3 6X5GT 7Y4
R19 R52 R144 REL39 RL21	5Z4 6AM6 2D21	6N3 1X2B 6AC7	U309 U319 U381 U404 U709	38A3 38A3 6CA4	19X3 19Y3 31A3

For footnotes * †, see page 80.

vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
UABC80	28AK8		V884	6CQ6	6BJ6
UAF42	12S7		V886	6AM5	
UBC41	14L7		VP6	6CQ6	6BJ6
UBC80	14G6		VP12D	12C8	
UBF80	17C8		W17	1T4	
UCH42	14K7		W25	1AJ4	1T4
UCH80	14Y7		W61		6K7,
UCH81	19D8				6K7GT
UCL82	50BM8		W63		6K7,
UF6A7		6A7	W76		6K7GT
UF41	12AC5		W77	6CQ6	12K7GT
UF89	12DA6				6BJ6
UL41	45A5		W81		7H7
UL84	45B5		W81M		7H7
UM80	19BR5		W142	12AC5	
			W143		7B7
UU9	6BT4		W147		6K7,
UU12	6CA4				6K7GT
UY24B		24A			
UY27		27	W148		7H7
UY27A		27	W149	7B7	
			W150	6CJ5	
UY35B		35	W719	6BY7	
UY36		36	W727	6BA6	
UY36A		36			
UY37		37			
UY37A		37	W729		6BY7
			W739		6DA6
UY41	31A3		WD142	12S7	
UY47		47	WD150	6CT7	
UY76		76	WD709	6N8	
UY82	55N3				
UY85	38A3		X14	1A7GT	
			X17		1R5
UY224		24A	X18	1AC6	
V2M70	6X4		X20	1AC6	
V61	6BT4		X25	1AB6	
V311		31A3			
V741	6C4		X63		6A8
			X63 (M)		6A8
			X64		6L7
			X77	6BE6	
			X79	6AE8	

Note: Types shown in bold face are RCA Types.

1965 Interchangeability Directory of Foreign vs. U.S.A. Receiving-Type Electron Tubes

Foreign Type to be Replaced	U.S.A. Type for use as Replacement		Foreign Type to be Replaced	U.S.A. Type for use as Replacement	
	Direct*	Similar†		Direct*	Similar†
X81		7S7	Y25	1N3	
X119	19D8		Y61		6U5
X142	14K7		Y63		6U5
X144		1A7GT	Y119	19BR5	
X147		6K8	YC95	3ER5	
X148		7S7	YC97	3FY5	
X150		6CU7	YCC189	5ES8	
X719	6AJ8		YF183	4EH7	
X727	6BE6		YF184	4EJ7	
XC95	2ER5		Z14	1N5GT	
XC97	2FY5		Z63	6J7	
XCC82	7AU7		Z77	6AM6	
XCC189	4ES8		Z152	6BX6	
XCF80	4BL8		Z300T	OA4G	
XCH31	3AJ8		Z329		6BX6
XCL82	8B8		Z719	6BX6	
XF80	3BX6		Z729	6267	5879
XF85	3BY7		Z900T	5823	
XF183	3EH7		ZD9		
XF184	3EJ7		ZD17	1S5	
XFR1		1AD4	ZD25	1AH5	1S5
XL36	13CM5		ZD152	6N8	
XL84	8BQ5				
XL86	8CW5				
XY88	16AQ3				

*Types shown in this column are **direct** replacements for the corresponding types to be replaced.

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

RCA PICTURE TUBES

- * Silverama Types
- * Colorama Types



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

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

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

RCA PICTURE TUBE CHARACTERISTICS CHART

RCA Type	Aluminized Screen	Heater Volts/Ma	Envelope ^a	Greatest Deflection Angle ^b (Approx.) Degrees	Focusing Method	Approx. Tube Weight Pounds	Maximum Overall Length Inches	Basing	Design Maximum Anode ^c Voltage Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV										
5TP4 ^d	Yes	6.3/600	● G	50	E	1.2	12.125	12C	29,500	No
7JP4	No	6.3/600	● G	(e)	E	3	14.875	14R	6,500	No
8DP4	No	6.3/600	■ G	90	E	3	10.750	12AB	9,000	Yes
9QP4A	No	4.7/300	■ G	70	E	3.5	13.062	12AD	7,500	Yes
10BP4A	No	6.3/600	● G	50	M	10	18.000	12N	13,000	Yes
10FP4A	Yes	6.3/600	● G	50	M	10	18.000	12N	13,000	No
12KP4A	Yes	6.3/600	● G	54	M	12	18.000	12N	13,000	No
14ATP4	Yes	8.4/450	■ G	90	E	8.5	13.500	12L	15,500	No
14EP4	No	6.3/600	■ G	70	M	10.5	16.844	12N	15,500	Yes
14QP4B	Yes	6.3/600	■ G	70	E	10.5	16.531	12L	12,000	No
14WP4	Yes	6.3/600	■ G	90	E	8.5	13.500	12L	15,500	No
16AP4A	No	6.3/600	● M	53	M	11	22.312	12D	15,500	Yes

16AYP4	Yes	6.3/450	■ G	114	E	8.5	10.563	8HR	20,000	No
16DP4A	No	6.3/600	● G	60	M	15	21.000	12D	16,500	Yes
16GP4B	No	6.3/600	● M	70	M	11	17.688	12D	15,500	Yes
16LP4A	No	6.3/600	● G	52	M	14.5	22.625	12N	15,500	Yes
16RP4B	Yes	6.3/600	■ G	70	M	16	19.125	12N	15,500	No
16TP4	No	6.3/600	■ G	70	M	16	18.500	12N	15,500	Yes
16WP4A	No	6.3/600	● G	70	M	16.5	18.125	12N	17,500	Yes
17BJP4	Yes	6.3/600	■ G	90	E	15	15.000	12L	17,500	No
17BP4D	Yes	6.3/600	■ G	70	M	18	19.562	12N	17,500	No
17CDP4	Yes	8.4/450	■ G	110	E	10	12.812	8HR	17,500	No
17CFP4	Yes	6.3/600	■ G	90	E	10	15.375	12L	17,500	No
17CP4	No	6.3/600	■ M	70	M	10	19.000	12D	17,500	Yes
17CSP4	Yes	6.3/600	■ G	110	E	10	12.625	7FA	17,500	No
17CYP4	Yes	6.3/600	■ G	90	E	10	14.375	12L	17,500	No
17DAP4	Yes	2.68/450	■ G	110	E	10	10.875	8JK	17,500	No
17DKP4	Yes	6.3/600	■ G	110	E	10	10.938	8JR	23,000	No
17DQP4/	Yes	6.3/450	■ G	110	E	10	12.375	7FA	17,500	No

For footnotes, see page 90

RCA PICTURE TUBE CHARACTERISTICS CHART

RCA Type	Aluminized Screen	Heater Volts/Ma	Envelope ^a	Greatest Deflection Angle ^b (Approx.) Degrees	Focusing Method	Approx. Tube Weight Pounds	Maximum Overall Length Inches	Basing	Design Maximum Anode ^c Voltage Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV										
17DRP4 ^d	Yes	2.68/450	■ G	110	E	10	11.000	8JK	17,500	No
17DSP4	Yes	6.3/600	■ G	110	E	10	11.438	8HR	20,000	No
17DXP4	Yes	6.3/450	■ G	110	E	10	10.938	8JR	17,500	No
17GP4	No	6.3/600	■ M	70	E	10	19.312	12M	17,500	Yes
17HP4C	Yes	6.3/600	■ G	70	E	18	19.562	12L	17,500	No
17LP4B	Yes	6.3/600	■ G ^h	70	E	19	19.562	12L	17,500	No
17QP4B	Yes	6.3/600	■ G ^h	70	M	19	19.562	12N	20,000	No
17TP4	No	6.3/600	■ M	70	E	10	19.312	12M	17,500	Yes
19ABP4	Yes	2.68/450	■ G	114	E	14	11.125	8JK	20,000	No
19AHP4	Yes	6.3/450	■ G	114	E	13.5	11.625	8HR	17,500	No
19AJP4/	Yes	6.3/450	■ G	114	E	14	11.625	7FA	20,000	No
19AP4B	No	6.3/600	● M	66	M	14	22.000	12D	17,500	Yes

19AUP4	Yes	6.3/600	■ G ^{jk}	114	E	18.5	11.938	8HR	20,000	No
19AVP4	Yes	6.3/600	■ G	114	E	14	11.625	8HR	23,000	No
19AYP4	Yes	6.3/450	■ G	114	E	14	11.625	8HR	23,000	No
19BDP4 ^f	Yes	6.3/600	■ G	92	E	15	15.625	12L	20,000	No
19BTP4	Yes	6.3/600	■ G	114	E	14	11.062	8JR	23,000	No
19CHP4 ^f	Yes	6.3/600	■ G	114	E	14	11.875	8HR	20,000	No
19CMP4 ^f	Yes	6.3/450	■ G	114	E	14	11.875	8HR	20,000	No
19DQP4	Yes	6.3/450	■ G ^m	114	E	15	11.625	8HR	23,000	No
20DP4D	Yes	6.3/600	■ G	70	M	30	22.125	12N	20,000	No
20HP4E	Yes	6.3/600	■ G	70	E	30	22.125	12L	17,500	No
21AMP4B	Yes	6.3/600	■ G	90	M	24	20.375	12N	20,000	No
21AP4	No	6.3/600	■ M	70	M	18	22.625	12D	20,000	Yes
21AVP4C	Yes	6.3/600	■ G	72	E	24	23.406	12L	22,000	No
21AWP4A	Yes	6.3/600	■ G	72	M	24	23.406	12N	20,000	No
21CBP4A	Yes	6.3/600	■ G	90	E	23	18.375	12L	22,000	No
21CQP4	Yes	6.3/600	■ G	110	E	20	14.812	7FA	20,000	No
21DEP4A	Yes	6.3/600	■ G	110	E	20	15.062	8HR	22,000	No

For footnotes, see page 90

RCA PICTURE TUBE CHARACTERISTICS CHART

RCA Type	Aluminized Screen	Heater Volts/Ma	Envelope ^a	Greatest Deflection Angle ^b (Approx.) Degrees	Focusing Method	Approx. Tube Weight Pounds	Maximum Overall Length Inches	Basing	Design Maximum Anode ^c Voltage Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV										
21DFP4	Yes	6.3/600	■ G	110	E	23	14.750	8HR	20,000	No
21DHP4	Yes	6.3/450	■ G	110	E	20	15.000	8HR	20,000	No
21DLP4	Yes	6.3/600	■ G	90	E	23	17.375	12L	22,000	No
21DSP4 ^r	Yes	6.3/600	■ G	90	E	23	18.375	12L	22,000	No
21EP4C	Yes	6.3/600	■ G ^h	70	M	29	23.406	12N	20,000	No
21EQP4	Yes	6.3/600	■ G	110	E	23	12.875	8JR	20,000	No
21EVP4 ^v	Yes	2.68/450	■ G	110	E	20	13.188	8JK	20,000	No
21FAP4	Yes	6.3/600	■ G	110	E	20	13.125	8JR	22,000	No
21FDP4	Yes	6.3/600	■ G	110	E	20	13.375	8KW	20,000	No
21FP4D	Yes	6.3/600	■ G ^h	70	E	29	23.406	12L	20,000	No
21MP4	No	6.3/600	■ M	70	E	18	22.625	12M	17,500	Yes
21WP4B	Yes	6.3/600	■ G	70	M	24	22.812	12N	20,000	No

21XP4B	Yes	6.3/600	■ G	70	E	24	22.812	12L	20,000	No
21YP4B	Yes	6.3/600	■ G	70	E	24	23.406	12L	20,000	No
21ZP4C	Yes	6.3/600	■ G	70	M	24	23.406	12N	20,000	No
23AHP4	Yes	6.3/600	■ G	92	E	25	18.375	12L	22,000	No
23ASP4	Yes	6.3/600	■ G	92	E	25	17.375	12L	22,000	No
23BGP4 ^f	Yes	6.3/600	■ G ^j	110	E	33	15.562	8HR	22,000	No
23BJP4 ^f	Yes	6.3/600	■ G	92	E	25	18.500	12L	25,000	No
23BLP4 ^f	Yes	6.3/600	■ G ^{jk}	92	E	35	18.875	12L	25,000	No
23CBP4	Yes	6.3/450	■ G ^{jk}	110	E	33	15.562	8HR	23,000	No
23CP4	Yes	6.3/600	■ G ^j	110	E	33	15.562	8HR	22,000	No
23CQP4	Yes	6.3/450	■ G	114	E	24	14.062	8HR	23,500	No
23DAP4 ^f	Yes	6.3/600	■ G	94	E	27	17.391	8HR	23,000	No
23DBP4 ^f	Yes	6.3/600	■ G	110	E	25	15.156	8HR	22,000	No
23ENP4	Yes	6.3/600	■ G ^m	92	E	29	18.500	12L	25,000	No
23EP4 ^f	Yes	6.3/600	■ G ^j	110	E	33	15.562	8KP	22,000	No
23FBP4	Yes	6.3/600	■ G ^{km}	92	E	29	18.500	12L	25,000	No
23FP4A	Yes	6.3/600	■ G	114	E	24	14.062	8HR	23,500	No

For footnotes, see page 90

RCA PICTURE TUBE CHARACTERISTICS CHART

RCA Type	Aluminized Screen	Heater Volts/Ma	Envelope ^a	Greatest Deflection Angle ^b (Approx.) Degrees	Focusing Method	Approx. Tube Weight Pounds	Maximum Overall Length Inches	Basing	Design Maximum Anode ^c Voltage Volts	PM Ion-Trap Magnet Required
SILVERAMA TYPES FOR BLACK-AND-WHITE TV										
23JP4/	Yes	6.3/450	■ G _j	110	E	33	15.875	7FA	22,000	No
23NP4/	Yes	6.3/600	■ G	114	E	24	14.812	8HR	22,000	No
23YP4	Yes	6.3/600	■ G _j	92	E	35	18.750	12L	22,000	No
24AEP4	Yes	6.3/600	■ G	90	E	32.5	19.500	12L	22,000	No
24AHP4	Yes	6.3/600	■ G	110	E	26.5	16.188	8HR	22,000	No
24ATP4/	Yes	6.3/600	■ G	90	E	32.5	19.500	12L	22,000	No
24AUP4	Yes	6.3/600	■ G	90	E	32.5	18.500	12L	22,000	No
24BAP4/	Yes	6.3/600	■ G	110	E	26.5	16.188	8HR	22,000	No
24BEP4	Yes	6.3/600	■ G	110	E	26.5	15.125	8KW	20,000	No
24CP4B	Yes	6.3/600	■ G	90	M	35	21.500	12N	22,000	No
27MP4	Yes	6.3/600	■ M	90	M	30	22.188	12D	20,000	Yes
27RP4A	Yes	6.3/600	■ G	90	M	44	23.438	12N	22,000	No

COLOR PICTURE TUBES										
15GP22 ⁿ	Yes	6.3/1800 ^p	● G	45	E	25	26.125	20A	22,000	No
21AXP22A	Yes	6.3/1800 ^p	● M	70	E	28	25.312	14AH	27,500	No
21CYP22A	Yes	6.3/1800 ^p	● G	70	E	36.5	25.406	14AL	27,500	No
21FBP22	Yes	6.3/1800 ^p	● G	70	E	36.5	25.406	14AU	27,500	No
21FJP22	Yes	6.3/1800 ^p	● G ^{kq}	70	E	41	25.594	14AU	27,500	No
TEST PICTURE TUBES										
5AXP4	No	6.3/600	● G	53	E _r	1.5	11.000	12S	20,000	No
8XP4	Yes	6.3/600	■ G	90	E _r	3	11.750	12S	22,000	No
8YP4	Yes	6.3/600	■ G	110	E _r	2	9.000	7FG	22,000	No

For footnotes, see page 90

RCA PICTURE TUBE CHARACTERISTICS CHART

EXPLANATION OF FOOTNOTES

- G Glass round.
- M Metal round.
- G Glass rectangular.
- M Metal rectangular.

E Electrostatic.

M Magnetic.

^a Faceplate is spherical, unless otherwise specified.

^b All types utilize magnetic deflection except for type 7JP4 which employs electrostatic deflection.

^c The anode 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.

^d Projection type.

^e Typical deflection factors (volts dc/in.) for anode voltage of 6000 volts:

DJ1 & DJ2 (nearer screen) 186 to 246

DJ3 & DJ4 (nearer base) 150 to 204

^f Has low grid-No. 2 voltage rating: for Cathode-Drive Service.

^g This type has an internal magnetic shield.

^h Cylindrical faceplate.

ⁱ Bipanel type.

^k Treated to reduce specular reflection.

^m PAN—O—PLY—integral implosion protection.

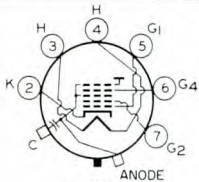
ⁿ This type has a flat, aluminized, filterglass phosphor-dot screen plate.

^p Three heaters paralleled internally.

^q This type has an integral protective window.

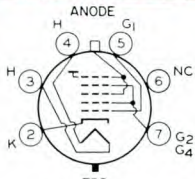
^r Automatic.

BASING DIAGRAMS FOR RCA PICTURE TUBES



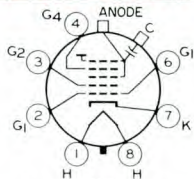
7FA

ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



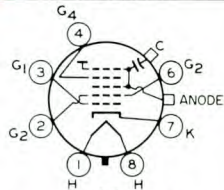
7FG

ANODE = $G_3 + G_5 + CL$
 AUTOMATIC FOCUSING



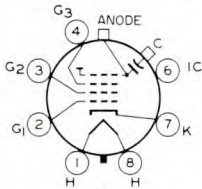
8HR

ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



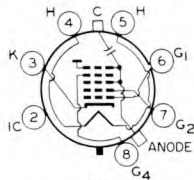
8JK

ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



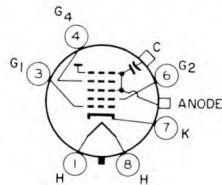
8JR

ANODE = $G_4 + CL$
 FOCUSING ELECTRODE = G_3



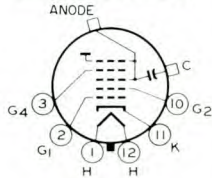
8KP

ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



8KW

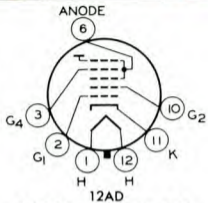
ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



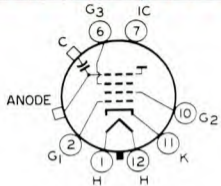
12AB

ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4

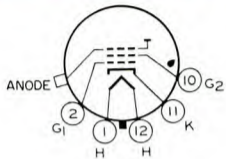
BASING DIAGRAMS FOR RCA PICTURE TUBES (cont.)



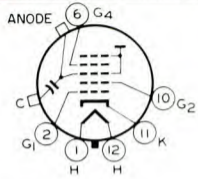
12AD
 ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



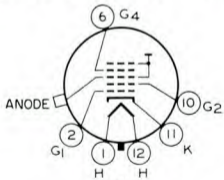
12C
 ANODE = $G_4 + CL$
 FOCUSING ELECTRODE = G_3



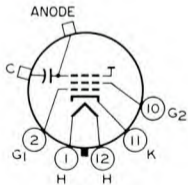
12D
 ANODE = $G_3 + CL$



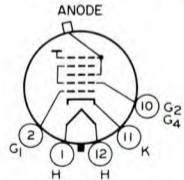
12L
 ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4



12M
 ANODE = $G_3 + G_5 + CL$
 FOCUSING ELECTRODE = G_4

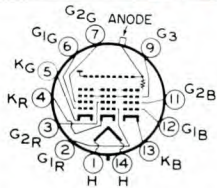


12N
 ANODE = $G_3 + CL$

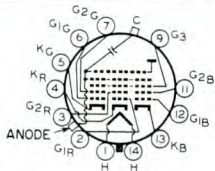


12S
 ANODE = $G_3 + G_5 + CL$
 AUTOMATIC FOCUSING

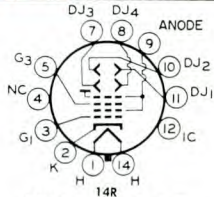
BASING DIAGRAMS FOR RCA PICTURE TUBES (cont.)



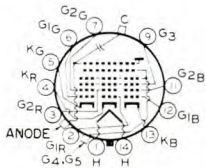
14AH
ANODE = G₄ + G₅ + CL + R
FOCUSING ELECTRODE = G₃



14AU
ANODE = G₄ + G₅ + CL
FOCUSING ELECTRODE = G₃



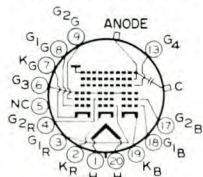
14R
ANODE = G₂ + G₄ + CL
FOCUSING ELECTRODE = G₃



14AL

(14AL)
CAP OVER PIN No. 1
= G₄ + G₅
CAP OVER PIN No. 2 = ANODE
= G₆ + CL & HIGH-VOLTAGE
TERMINAL. Connect High-Voltage
Supply to this Cap and also
connect 50,000-ohm resistor
between this Cap and the Cap
over Pin No. 1.

FOCUSING ELECTRODE = G₃



20A
ANODE = G₅ + G₆ + CL
FOCUSING ELECTRODE = G₃

INDUSTRY REPLACEMENT AND INTERCHANGEABILITY

SILVERAMA® PICTURE TUBES

With only 99 types of RCA Universal Replacement Picture Tubes, the serviceman can replace 400 different industry picture tube types. These charts list the RCA direct replacement type, or the RCA similar type when one or the other is available.

IMPORTANT INSTRUCTIONS — READ CAREFULLY

1. Replacement information supplied in this chart is based primarily on electrical and mechanical similarity of the picture-tube types covered. The serviceman should make certain that replacement is in accord with all safety precautions required by the TV receiver for picture-tube insulation or mechanical mounting.

2. In the case of an RCA similar type, its basing arrangement is the same as that of the type to be replaced, but its listed differences must be considered in using it as a replacement.

3. When a glass picture tube has an external conductive coating, this coating, in combination with the internal conductive coating, provides a capacitor for use in filtering the high voltage power supply. When replacing a picture tube without a conductive coating by one having such a coating, provision should be made to ground the coating. Connection to the coating may be made by using a soft brush-type contact, preferably attached to the deflecting-yoke support. A contact area of at least $\frac{1}{4}$ square inch is required.

4. Additional information on RCA Silverama Picture Tubes is contained in the booklet 1275-K — RCA Receiving Tubes and Picture Tubes — and in the RCA Receiving Tube Manual. These publications may be purchased from your RCA Distributor or from RCA Commercial Engineering, Harrison, New Jersey.

INDUSTRY REPLACEMENT AND INTERCHANGEABILITY

Type to be Replaced	Replace by RCA Type	Replacement Information*	Type to be Replaced	Replace by RCA Type	Replacement Information*
17ATP4 17ATP4/ 17AVP4 17ATP4A 17ATP4A/ 17AVP4A 17AVP4 17AVP4 17ATP4 17AVP4A 17AVP4A/ 17ATP4A	17BJP4	A	17DQP4	17DQP4	Direct
			17DRP4	17DRP4	Direct
			17DSP4	17DSP4	Direct
			17DTP4	17DKP4	Direct
			17DXP4 17DZP4	17DXP4	Direct
			17GP4	17GP4	Direct
17BJP4	17BJP4	Direct	17HP4 17HP4/ 17RP4 17HP4A 17HP4B 17HP4B/ 17RP4C	17HP4C	A
17BP4	17BP4D	AD			
17BP4A 17BP4B 17BP4C	17BP4D	A	17HP4C	17HP4C	Direct
17BP4D	17BP4D	Direct	17JP4	17BP4D	AE
17BRP4	17DSP4	A	17LP4 17LP4 17VP4 17LP4A 17LP4A/ 17VP4B	17LP4B	A
17BUP4	17BJP4	AE			
17BVP4	17CSP4	A	17LP4B	17LP4B	Direct
17BWP4	17CSP4	Direct	17QP4 17QP4A	17QP4B	A
17BZP4 17BZP4/ 17CAP4/ 17CKP4 17BZP4/ 17CAP4/ 17CKP4/ 17BRP4 17CAP4	17DSP4	Direct	17QP4B	17QP4B	Direct
17CBP4	17BJP4	AE	17RP4 17RP4C	17HP4C	A
17CDP4	17CDP4	Direct	17TP4	17TP4	Direct
17CFP4	17CFP4	Direct	17UP4	17QP4B	A
17CKP4	17DSP4	Direct	17VP4 17VP4 17LP4 17VP4B	17LP4B	A
17CLP4	17BJP4	AD	17YP4	17QP4B	A
17CP4 17CP4A	17CP4	Direct	19ABP4	19ABP4	Direct
17CSP4	17CSP4	Direct	19ACP4	19CHP4	Direct
17CWP4	17DSP4	Direct	19AFP4	19AUP4	Direct
17CYP4	17CYP4	Direct	19AHP4	19AHP4	Direct
17DAP4	17DAP4	Direct	19AJP4	19AJP4	Direct
17DKP4	17DKP4	Direct			
17DLP4	17DSP4	Direct			

Replacement Classification Key explained on pg. 100.

INDUSTRY REPLACEMENT AND INTERCHANGEABILITY

Type to be Replaced	Replace by RCA Type	Replacement Information*	Type to be Replaced	Replace by RCA Type	Replacement Information*
19AP4 19AP4A 19AP4B 19AP4C 19AP4D	19AP4B	Direct	20HP4A 20HP4A/ 20LP4 20HP4A/ 20MP4	20HP4E	A
19AUP4	19AUP4	Direct	20HP4B 20HP4C	20HP4E	AD
19AVP4	19AVP4	Direct	20HP4D	20HP4E	A
19AXP4 19AYP4	19AYP4	Direct	20HP4E	20HP4E	Direct
19BDP4	19BDP4	Direct	20LP4 20MP4	20HP4E	A
19BHP4	19AVP4	Direct	21ACP4 21ACP4/ 21AMP4 21ACP4A 21ACP4A/ 21AMP4A 21ACP4A/ 21BSP4 21ACP4A/ 21BSP4/ 21AMP4A	21AMP4B	A
19BLP4	19AVP4	C			
19BTP4	19BTP4	Direct			
19BVP4	19AVP4	E			
19BWP4	19AYP4	E			
19CFP4	19CHP4	C			
19CHP4	19CHP4	Direct			
19CKP4	19CHP4	E			
19CMP4	19CMP4	Direct			
19DLP4	19CHP4	Direct			
19DQP4 19DWP4	19DQP4	Direct	21AFP4	21YP4B	AD
19XP4	19AVP4	Direct	21ALP4 21ALP4A 21ALP4B 21ALP4B/ 21ALP4A	21CBP4A	AD
19YP4	19BTP4	Direct	21AMP4 21AMP4A	21AMP4B	A
19ZP4	19AVP4	Direct	21AMP4B	21AMP4B	Direct
20CP4	20DP4D	ACD	21ANP4 21ANP4A	21CBP4A	AD
20CP4A	20DP4D	AC	21AP4	21AP4	Direct
20CP4B 20CP4C	20DP4D	ACD	21AQP4 21AQP4A	21AMP4B	AD
20CP4D	20DP4D	AC	21ASP4	21XP4B	AD
20DP4	20DP4D	AD	21ATP4 21ATP4A 21ATP4A/ 21ATP4 21ATP4B	21CBP4A	AD
20DP4A 20DP4A/ 20CP4A	20DP4D	A	21AUP4 21AUP4A 21AUP4B 21AUP4B/ 21AUP4A	21AVP4C	A
20DP4B	20DP4D	AD			
20DP4C 20DP4C/ 20CP4D	20DP4D	A			
20DP4D	20DP4D	Direct	21AUP4C	21AVP4C	Direct
20HP4	20HP4E	AD			

Bold Face Type indicates Aluminized Tube

INDUSTRY REPLACEMENT AND INTERCHANGEABILITY

Type to be Replaced	Replace by RCA Type	Replacement Information*	Type to be Replaced	Replace by RCA Type	Replacement Information*
21AVP4 21AVP4/ 21AUP4 21AVP4A 21AVP4B 21AVP4B/ 21AVP4A 21AVP4B/ 21AUP4B/ 21AVP4A/ 21AUP4A	21AVP4C	A	21DHP4	21DHP4	Direct
			21DLP4	21DLP4	Direct
			21DMP4	21FAP4	Direct
			21DNP4	21CBP4A	AD
			21DQP4	21DLP4	Direct
			21DSP4	21DSP4	Direct
			21EAP4	21FDP4	F
21AVP4C	21AVP4C	Direct	21EMP4	21EQP4	Direct
21AWP4	21AWP4A	A	21EP4	21EP4C	AD
21AWP4A	21AWP4A	Direct	21EP4A 21EP4B	21EP4C	A
21AYP4	21XP4B	A	21EP4C	21EP4C	Direct
21BAP4	21CBP4A	Direct	21EQP4	21EQP4	Direct
21BCP4	21YP4B	ACE	21ESP4	21FAP4	Direct
21BDP4	21AVP4C	Direct	21EVP4	21EVP4	Direct
21BNP4	21CBP4A	Direct	21FAP4	21FAP4	Direct
21BSP4	21AMP4B	A	21FDP4	21FDP4	Direct
21BTP4	21CBP4A	A	21FLP4	21CBP4A	Direct
21CBP4 21CBP4A 21CBP4A/ 21CBP4/ 21CMP4 21CBP4B	21CBP4A	Direct	21FP4	21FP4D	AD
			21FP4A 21FP4C	21FP4D	A
			21FP4D	21FP4D	Direct
21CEP4	21DFP4	Direct	21MP4	21MP4	Direct
21CEP4A	21DFP4	E	21WP4 21WP4A	21WP4B	A
21CMP4	21CBP4A	A	21WP4B	21WP4B	Direct
21CQP4	21CQP4	Direct	21XP4 21XP4A	21XP4B	A
21CUP4	21AMP4B	A	21XP4B	21XP4B	Direct
21CVP4	21CBP4A	Direct	21YP4 21YP4A	21YP4B	A
21CWP4	21OBP4A	A	21YP4B	21YP4B	Direct
21CXP4	21DSP4	Direct	21ZP4	21ZP4C	AD
21CZP4	21DEP4A	A	21ZP4A 21ZP4B	21ZP4C	A
21DAP4 21DEP4 21DEP4A 21DEP4A/ 21DEP4/ 21CZP4	21DEP4A	Direct	21ZP4C	21ZP4C	Direct
21DFP4	21DFP4	Direct	23AFP4	23YP4	E

Replacement Classification Key explained on pg. 100.

INDUSTRY REPLACEMENT AND INTERCHANGEABILITY

Type to be Replaced	Replace by RCA Type	Replacement Information*	Type to be Replaced	Replace by RCA Type	Replacement Information*
27NP4 27RP4	27RP4A	A	SG21EP4B	21EP4C	Direct
27RP4A	27RP4A	Direct	SG21FLP4	21CBP4A	Direct
SG10FP4A	10FP4A	Direct	SG21FP4C	21FP4D	Direct
SG12KP4A	12KP4A	Direct	SG21WP4A	21WP4B	Direct
SG14QP4A	14QP4B	Direct	SG21XP4A	21XP4B	Direct
SG14WP4	14WP4	Direct	SG21YP4A	21YP4B	Direct
SG16KP4A	16RP4B	Direct	SG21ZP4B	21ZP4C	Direct
SG17BJP4	17BJP4	Direct	SG24AEP4	24AEP4	Direct
SG17BP4B	17BP4D	Direct	SG24CP4A	24CP4B	Direct
SG17BWP4	17CSP4	Direct	SG27RP4	27RP4A	Direct
SG17CKP4	17DSP4	Direct	COLOR PICTURE TUBES		
SG17HP4B	17HP4C	Direct	15GP22	15GP22	Direct
SG17LP4A	17LP4B	Direct	21AXP22 21AXP22A 21AXP22A/ 21AXP22	21AXP22A	Direct
SG17QP4A	17QP4B	Direct	21CYP22 21CYP22A	21CYP22A	Direct
SG20CP4D	20DP4D	C	21FBP22	21FBP22	Direct
SG20HP4D	20HP4E	Direct	21FJP22 21FKP22	21FJP22	Direct
SG21ACP4A	21AMP4B	Direct			
SG21AUP4B	21AVP4C	Direct			
SG21AWP4	21AWP4A	Direct			
SG21DEP4A	21DEP4A	Direct			

REPLACEMENT CLASSIFICATION KEYS

*Replacement information is based primarily on electrical and mechanical similarity of the picture-tube types covered. The technician should make certain that replacement is in accord with all safety precaution required by the TV receiver for picture-tube insulation or mechanical mounting.

- A. RCA type does not require an external ion-trap magnet.
- B. The ball-type anode contact must be replaced with cavity-type contact.
- C. Neck length and/or overall length of RCA type is slightly greater.
- D. External conductive coating must be grounded.
- E. Maximum anode voltage of RCA type is slightly less.
- F. The RCA replacement type has a 6.3 volt/600-milliamper heater. The type to be replaced has a 2.35-volt/600-milliamper heater.

RCA PICTURE TUBES & THE TYPES THEY REPLACE

- Silverama Types
- Colorama Types

RCA SILVERAMA®

The Universal Replacement Picture Tube.
RCA Colorama Picture Tubes

In most instances, a single RCA Universal Replacement Picture Tube replaces many other types. RCA picture tubes and the types they replace are listed in this section.

RCA Type	Replaces	RCA Type	Replaces	RCA Type	Replaces
5TP4	5TP4	14ATP4	14ATP4	16AP4A	16AP4 16AP4A
7JP4	7JP4	14EP4	14BP4 14BP4A 14CP4 14CP4A 14DP4 14EP4 14EP4/ 14CP4 14EP4/ 14CP4/ 14BP4	16AYP4	16AYP4
8DP4	8DP4			16DP4A	16DP4 16DP4A
9QP4A	9QP4A			16GP4B	16GP4 16GP4A 16GP4B 16GP4C
10BP4A	10BP4 10BP4A 10EP4			16LP4A	16CP4 16LP4 16LP4A 16ZP4
10FP4A	10BP4C 10BP4D 10CP4 10FP4 10FP4A SG10FP4A			14QP4B	14HP4 14QP4 14QP4A 14QP4B SG14QP4A
12KP4A	12JP4 12KP4 12KP4/ 12ZP4 12KP4A 12LP4 12LP4A 12LP4C 12QP4 12QP4A 12TP4 12ZP4 12ZP4A SG12KP4A	14WP4	14NP4 14NP4A 14RP4 14RP4A 14SP4 14WP4 14WP4/ 14ZP4 14ZP4 14ZP4/ 14WP4 SG14WP4	16TP4	16TP4

Bold Face Type indicates an Aluminized Tube

RCA PICTURE TUBES

RCA Type	Replaces	RCA Type	Replaces	RCA Type	Replaces		
16WP4A	16SP4 16SP4A 16VP4 16WP4 16WP4/ 16YP4 16WP4A 16WP4B 16YP4	17DKP4	17DKP4 17DTP4	17QP4B	17QP4 17QP4A 17QP4B 17UP4 17YP4 SG17QP4A		
		17DQP4	17DQP4				
		17DRP4	17DRP4				
		17BJ4	17ATP4 17ATP4/ 17AVP4 17ATP4A 17ATP4A/ 17VP4A 17AVP4 17AVP4/ 17ATP4 17AVP4A 17AVP4A/ 17ATP4A 17BJP4 17BUP4 17CBP4 17CLP4 SG17BJP4	17DSP4	17BRP4 17BZP4 17BZP4/ 17CKP4 17BZP4/ 17CAP4/ 17CKP4/ 17BRP4 17CAP4 17CKP4 17CWP4 17DLP4 17DSP4 SG17CKP4	17TP4	17TP4
17DXP4	17DXP4 17DZP4			19ABP4	19ABP4		
				19AHP4	19AHP4		
				19AJP4	19AJP4		
				19AP4B	19AP4 19AP4A 19AP4B 19AP4C 19AP4D		
17GP4	17GP4			19AUP4	19AFP4 19AUP4		
				19AVP4	19AVP4 19BHP4 19BLP4 19BVP4 19XP4 19ZP4		
17BP4D	17AP4 17BP4 17BP4A 17BP4B 17BP4C 17BP4D 17JP4 SG17BP4B			17HP4C	17HP4 17HP4/ 17RP4 17HP4A 17HP4B 17HP4B/ 17RP4C 17HP4C 17RP4 17RP4C SG17HP4B	19AYP4	19AXP4 19AYP4 19BWP4
17CDP4	17CDP4					19BDP4	19BDP4
17CFP4	17CFP4					19BTP4	19BTP4 19YP4
17CP4	17CP4 17CP4A	17LP4B	17LP4 17LP41/ 17VP4 17LP4A 17LP4A/ 17VP4B 17LP4B 17VP4 17VP4/ 17LP4 17VP4B SG17LP4A			19CHP4	19ACP4 19CFP4 19CHP4 19CKP4 19DLP4
						17CSP4	17BVP4 17BWP4 17CSP4 SG17BWP4
17CYP4	17CYP4					19DQP4	19DQP4 19DWP4
17DAP4	17DAP4						

Bold Face Type indicates an Aluminized Tube

& THE TYPES THEY REPLACE

RCA Type	Replaces	RCA Type	Replaces	RCA Type	Replaces																						
20DP4D	20CP4 20CP4A 20CP4B 20CP4C 20CP4D 20DP4 20DP4A 20DP4A/ 20CP4A 20DP4B 20DP4C 20DP4C/ 20CP4D 20DP4D SG20CP4D	21AVP4C	21AUP4 21AUP4A 21AUP4B 21AUP4B/ 21AUP4A 21AUP4C 21AVP4 21AVP4/ 21AUP4 21AVP4A 21AVP4B 21AVP4B/ 21AVP4A 21AVP4B/ 21AUP4B/ 21AUP4B 21AVP4A/ 21AUP4A 21AVP4C 21BDP4 SG21AUP4B	21CQP4	21CQP4																						
						21DEP4A	21CZP4 21DAP4 21DEP4 21DEP4A 21DEP4A/ 21DEP4/ 21CZP4 SG21DEP4A																				
				21DFP4	21CEP4 21CEP4A 21DFP4																						
								21DHP4	21DHP4																		
				21DLP4	21DLP4 21DQP4																						
								21DSP4	21CXP4 21DSP4																		
				21EP4C	21EP4 21EP4A 21EP4B 21EP4C SG21EP4B																						
								21EQP4	21EMP4 21EQP4																		
				21EVP4	21EVP4																						
						21FAP4	21DMP4 21ESP4 21FAP4																				
21FDP4	21EAP4 21FDP4																										
		21FP4D	21FP4 21FP4A 21FP4C 21FP4D SG21FP4C																								
21MP4	21MP4																										
		20HP4E	20HP4 20HP4A 20HP4A/ 20LP4 20HP4A/ 20MP4 20HP4B 20HP4C 20HP4D 20HP4E 20LP4 20MP4 SG20HP4D	21AWP4A	21AWP4 21AWP4A SG21AWP4	21DSP4	21CXP4 21DSP4																				
21CBP4A	21ALP4 21ALP4A 21ALP4B 21ALP4B/ 21ALP4A 21ANP4 21ANP4A 21ATP4 21ATP4A 21ATP4A/ 21ATP4 21ATP4B 21BAP4 21BNP4 21BTP4 21CBP4 21CBP4A 21CBP4A/ 21CBP4/ 21CMP4 21CBP4B 21CMP4 21CVP4 21CWP4 21DNP4 21FLP4 SG21FLP4							21EP4C	21EP4 21EP4A 21EP4B 21EP4C SG21EP4B																		
										21EQP4	21EMP4 21EQP4																
												21EVP4	21EVP4														
														21FAP4	21DMP4 21ESP4 21FAP4												
																21FDP4	21EAP4 21FDP4										
																		21FP4D	21FP4 21FP4A 21FP4C 21FP4D SG21FP4C								
																				21MP4	21MP4						
																						21AMP4B	21ACP4 21ACP4/ 21AMP4 21ACP4A 21ACP4A/ 21AMP4A 21ACP4A/ 21BSP4 21ACP4A/ 21BSP4/ 21AMP4A 21AMP4 21AMP4A 21AMP4B 21AQP4 21AQP4A 21BSP4 21CUP4 SG21ACP4A	21AWP4A	21AWP4 21AWP4A SG21AWP4	21DSP4	21CXP4 21DSP4
		21EQP4	21EMP4 21EQP4																								
21EVP4	21EVP4																										
				21FAP4	21DMP4 21ESP4 21FAP4																						
						21FDP4	21EAP4 21FDP4																				
								21FP4D	21FP4 21FP4A 21FP4C 21FP4D SG21FP4C																		
										21MP4	21MP4																
												21AP4	21AP4	21AWP4A	21AWP4 21AWP4A SG21AWP4	21DSP4	21CXP4 21DSP4										
																		21CBP4A	21ALP4 21ALP4A 21ALP4B 21ALP4B/ 21ALP4A 21ANP4 21ANP4A 21ATP4 21ATP4A 21ATP4A/ 21ATP4 21ATP4B 21BAP4 21BNP4 21BTP4 21CBP4 21CBP4A 21CBP4A/ 21CBP4/ 21CMP4 21CBP4B 21CMP4 21CVP4 21CWP4 21DNP4 21FLP4 SG21FLP4	21EP4C	21EP4 21EP4A 21EP4B 21EP4C SG21EP4B						
																						21EQP4	21EMP4 21EQP4				
																								21EVP4	21EVP4		
		21FAP4	21DMP4 21ESP4 21FAP4																								
21FDP4	21EAP4 21FDP4																										
				21FP4D	21FP4 21FP4A 21FP4C 21FP4D SG21FP4C																						
						21MP4	21MP4																				
								21AP4	21AP4																	21AWP4A	21AWP4 21AWP4A SG21AWP4

Bold Face Type indicates an Aluminized Tube

RCA PICTURE TUBES & THE TYPES THEY REPLACE

RCA Type	Replaces	RCA Type	Replaces	RCA Type	Replaces
21WP4B	21WP4 21WP4A 21WP4B SG21WP4A	23CQP4	23ALP4 23CQP4	24AUP4	24AUP4
		23DAP4	23DAP4	24BAP4	24BAP4
21XP4B	21ASP4 21AYP4 21XP4 21XP4A 21XP4B SG21XP4A	23DBP4	23DBP4	24BEP4	24AVP4 24BEP4
		23ENP4	23DLP4 23DLP4A 23ENP4	24CP4B	24ADP4 24ADP4/ 24AVP4A/ 24CP4A/ 24TP4 24CP4 24CP4A 24CP4B 24QP4 24TP4 24VP4 24VP4A 24XP4 SG24CP4A
23EP4	23EP4				
21YP4B	21AFP4 21BCP4 21YP4 21YP4A 21YP4B SG21YP4A	23FBP4	23FBP4	27MP4	27MP4
		23FP4A	23FP4 23FP4A 23KP4 23KP4A 23MP4 23MP4/ 23MP4A/ 23WP4 23MP4A 23WP4		
21ZP4C	21ZP4 21ZP4A 21ZP4B 21ZP4C SG21ZP4B	23JP4	23JP4	27RP4A	27EP4 27GP4 27NP4 27RP4 27RP4A SG27RP4
		23NP4	23NP4		
23AHP4	23AHP4 23AUP4 23CZP4	23YP4	23AFP4 23BDP4 23BTP4 23BVP4 23XP4 23YP4	COLORAMA TYPES	
23ASP4	23ASP4			15GP22	15GP22
23BGP4	23BGP4 23BHP4	24AEP4	24AEP4 24ANP4 24DP4 24DP4A 24DP4A/ 24YP4 24YP4 24ZP4 SG24AEP4	21AXP22A	21AXP22 21AXP22A 21AXP22A/ 21AXP22
23BJP4	23AWP4 23BJP4			21CYP22A	21CYP22 21CYP22A
23BLP4	23ANP4 23ATP4 23BKP4 23BLP4 23DNP4	24AHP4	24AHP4 24ALP4	21FBP22	21FBP22
23CBP4	23BQP4 23CBP4 23UP4			21FJP22	21FJP22 21FKP22
23CP4	23AVP4 23BNP4 23CP4 23CP4A 23GP4 23HP4	24ATP4	24ATP4		

Bold Face Type indicates an Aluminized Tube



RCA TUBES FOR

- **Communications**
- **Industry**
- **Military Uses**

RCA Quick Selection Guide

RCA VACUUM POWER TUBES

For CW Applications

RCA Type	Description (Cooling) ^a	Filament(F) or Heater Volts	Maximum Ratings ^b		Typical Operation	
			Plate Volts	Plate Dissipation Watts	Frequency Mc	Power Output Watts
2C39A	Tri.(FA)	6.3	1000	100		d
2C39WA	Tri.(FA)	For data, refer to MIL-E-1/778E (Navy) Specification				
2C40	Tri.(N) ^c	6.3	500	6.5		d
2C40A	Tri.(N) ^c	6.3	500	6.5		d
2C43	Tri.(N) ^c	6.3	500	12		d
2E24	Quick-Heating BPT(N)	6.3F	500	10	125	20
2E26	BPT(N)	6.3	500	10	125	20
		2.8F				
3A4	Pen.(N)	1.4F	150	2	10	1.2
3B4WA	BPT(N)	For data, refer to MIL-E-1/1358 (Sig C)				
4-125A/ 4D21	BPT(FA)	5F	3000	125		d
4-250A/ 5D22	BPT(FA)	5F	4000	250		d
4E27A/ 5-125B	BPT(N)	5F	4000	125		d
4X500A	BPT(FA)	5F	4000	500		d
8D21	Twin Tet.(W)	3.2F	6000	6000	300	6500
9C21	Tri.(W)	19.5F	17000	40000	15	100000
9C22	Tri.(FA)	19.5F	17000	20000	5	65000
9C25	Tri.(FA)	6F	11500	17500	30	29500
207	Tri.(W)	22F	15000	10000	1.6	15000
801A	Tri.(N)	7.5F	600	20	60	25
802	Pen.(N)	6.3	500	10	30	16
803	Pen.(N)	10	2000	125	20	210
805	Tri.(N)	10F	1500	125	30	215
807	BPT(N)	6.3	600	25	60	40
809	Tri.(N)	6.3F	750	25	60	55
810	Tri.(N)	10F	2000	125	30	375
811A	Tri.(N)	6.3F	1250	45	30	135
812A	Tri.(N)	6.3F	1250	45	30	130
813	BPT(N)	10F	2000	100	30	275
814	BPT(N)	10F	1250	50	30	130
	Twin	6.3				
815	BPT(N)	12.6	400	20	125	44
827R	BPT(FA)	7.5F	3500	800	110	1050
828	BPT(N)	10F	1250	70	30	150
		6.3				
829B	Twin (FA)	12.6	750	40	200	90
	BPT (N)	6.3	750	30	200	70
		12.6				
830B	Tri.(N)	10F	1000	60	15	90
	Twin	6.3				
832A	BPT(N)	12.6	750	15	200	26
833A	Tri.(N)	10F	3000	300	30	1000
	(FA)	10F	4000	400	20	1440
834	Tri.(N)	7.5F	1250	50	100	75
837	Pen(N)	12.6	500	12	20	22
845	Tri.(N)	10F	1250 ^f	150	—	115
860	Tet.(N)	10F	3000	100	30	165
880	Tri.(W)	12.6F	15000	20000	1.5	50000
889A	Tri.(W)	11F	8500	5000	50	10000
889RA	Tri.(FA)	11F	8500	5000	40	10000
891	Tri.(W)	22F	12000	6000	1.6	10000
891R	Tri.(FA)	22F	10000	4000	1.6	10000

See page 109 for explanation of footnotes.

RCA Quick Selection Guide

RCA VACUUM POWER TUBES

For CW Applications (cont.)

RCA Type	Description (Cooling) ^a	Filament(F) or Heater Volts	Maximum Ratings ^b		Typical Operation	
			Plate Volts	Plate Dissipation Watts	Frequency Mc	Power Output Watts
892	Tri.(W)	22F	15000	10000	1.6	14000
892R	Tri.(FA)	22F	12500	4000	1.6	10000
1613	Pen.(N)	6.3	350	10	45	9
1614	BPT(N)	6.3	375	21	80	21
1619	BPT(N)	2.5F	400	15	45	19.5
1624	BPT(N)	2.5F	600	25	60	35
1625	BPT(N)	12.6	600	25	60	40
1626	Tri.(N)	12.6	250	5	30	4
2029	BPT(L) Quick-Heating	2-Section 1.35F ^e	9000	30000	400	25000
4604	BPT(N) Ruggedized	6.3F	750 ^g	25	175	30
4615	Cer.(FA)	6.3	1000	115	1215	40
4618	BPT(FA)	5.5	2500	1500	600	1350
4624	BPT(FA)	6.3	2200 ⁱ	400	890	300
5556	Tri.(N)	4.5F	350	10	d	
5618	Pen.(N)	6.3F	300 ^g	5	80	5.2
5671	Tri.(FA)	11F	15000	25000	1.6	70000
5713	Tri.(FA)	3.3	1500	250	220	290
5762/ 7C24	Tri.(FA)	12.6F	6200	4000	30	7000
5763	BPT(N)	6	300	12	50	7
5770	Tri.(W)	11F	17000	50000	20	105000
5771	Tri.(W)	7.5F	15000	22500	1.6	53000
5786	Tri.(FA)	11F	3000	600	160	1000
6146	BPT(N)	6.3	600	20	60	52
6146A	BPT(N)	6.3	600	25	—	52
6146B/ 8298A	BPT(N)	6.3	600	27	60	63
6146W/ 7212	BPT(N) Ruggedized	6.3	600	20	60	52
6155	BPT(FA)	5F	3000	125	d	
6156	BPT(FA)	5F	4000	250	d	
6159	BPT(N)	26.5	600	20	60	52
6159B	BPT(N)	26.5	600	27	60	63
6159W/ 7357	BPT(N) Ruggedized	26.5	600	20	60	52
6161	Tri.(FA)	6.3	1600	250	900	180
6166	BPT(FA)	5F	6900	10000	216	9000
6166A/ 7007	BPT(FA)	5F	7500	12000	216	10000
6181	BPT(FA)	120	2000	2000	900	600
6417	BPT(N)	12.6	300	12	50	7
8448	BPT(W) Twin	2-Section 1.35F ^e	7000	26000	900	11000
6524	BPT(N)	6.3	500	20	100	46
6806	BPT(W)	2-Section 1.35 ^e	9000	35000	900	13500
6816	Cer.(FA) Twin	6.3	1000	115	1215	40~
6850	BPT(N)	12.6	500	20	100	46
6883	BPT(N)	12.6	600	20	60	52

See page 109 for explanation of footnotes.

RCA Quick Selection Guide

RCA VACUUM POWER TUBES

For CW Applications (cont.)

RCA Type	Description (Cooling) ^a	Filament(F) or Heater Volts	Maximum Ratings ^b		Typical Operation	
			Plate Volts	Plate Dissipation Watts	Frequency Mc	Power Output Watts
6883B/ 8032A/ 8552	BPT(N)	12.6	600	27	60	85
6884	Cer.(FA)	26.5	1000	115	1215	40
6893	BPT(N)	12.6	500	10	125	20
6897	Tri.(FA) ^c	6.3	1000	100	d	
	Twin	12.6				
6939	Pen(N)	6.3 7.3 to 7.8F	250	6	500	5
6949 7034/ 4X150A	Tri.(W) ^h	7.8F	20000	400000	0.425	500000
7035/ 4X150D	BPT(FA)	6	2000	250	150	370
7054	BPT(FA)	26.5	2000	250	150	370
7094	Pen.(N)	15	300	5	40	4
7203/ 4CX250B	BPT(FA)	6.3	1250	100	60	255
7204/ 4CX250F	BPT(FA)	6	2000	250	500	250
7213	BPT(FA)	26.5	2000	250	500	250
7271	Cer.(FA)	5.5	3000	1500	600	1350
	BPT(FA)	13.5	1100	60	60	160
7457	Ruggedized Cer.(FA)	6.3 12 to 15	1000	115	1215	40
7551	BPT(N)	15	375	10	175	8.5
7558	BPT(N)	6.3	375	10	175	8.5
7580	BPT(FA)	6	2000 ^k	250	500	360
7580W/ 4CX250R	Ruggedized BPT(FA)		For data, refer to MIL-E-1/1385 B			
7609	Ruggedized BPT(FA)		For data, refer to MIL-E-1/1331 (Navy)			
7650	Cer.(FA)	6.3	2500	700	400	800
7801	Cer.(C)	12.6	750	Note ^l	400	27
7842	Cer.(C)	6.3	1000	Note ^l	1215	40
7843	Cer.(C)	26.5	1000	Note ^l	1215	40
7844	Cer.(C)	6.3	1000	Note ^l	1215	40
7870	Cer.(C)	6.3	750	Note ^l	400	27
8000	Tri.(N)	10F	2000	125	30	375
8005	Tri.(N)	10F	1250	75	60	170
8032	BPT(N)	13.5 12 to 15	600	20	60	52
8072	BPT(C)	15	2200	Note ^l	470	85
8077/ 7054	Pen.(N)	15	300	5	40	4
8121	BPT(FA)	13.5	2200	150	470	235
8122	BPT(FA)	13.5	2200	400	470	300
8165/ 4-65A	BPT(FA)	6	3000	65		d
8166/ 4-1000A	BPT(FA)	7.5F	6000	1000		d
8168/ 4CX1000A	BPT(FA)	6	3000 ^k	1000		d
8170/ 4CX5000A	BPT(FA)	7.5	7500	5000		d

See page 109 for explanation of footnotes.

RCA Quick Selection Guide

RCA VACUUM POWER TUBES

For Pulsed RF Application

RCA Type	Description (Cooling) ^a	Filament(F) or Heater Volts	Maximum Ratings ^b		Typical Operation		
			Peak Plate Volts	DC Plate Amp.	Freq. Mc	Duty Factor	Peak Power Output Kw
2C40A	Tri.(N)	6.3	1400	2	3000	0.001	0.3
2041	BPT(L)	2-Section 1.35F ^c	40000	0.3	450	0.01	300
2054	Tri.(W)	3.1 to 4.5F	34000	19.5	440	0.06	5000
4603	Tri.(W) ^h	7.3 to 7.8F	40000	9	50	0.09	1500
4605V2	BPT(L)	0.95F	55000	0.320	425	0.004	2000
4612	Tri.(W)	1.5F	—	—	475	0.166	300
4616	BPT(W)	0.95F	55000	0.320	425	0.004	2000
4617	Tri.(W)	1.5F	40000	5	425	0.01	8000
4621	BPT(FA)	6.3	7000	0.05	1215	0.005	17
4622	Ruggedized Cer.(C)	6.3	3000	0.05	1215	0.01	4.5
5946	Tri.(FA)	6.3	7500	0.045	1250	0.01	14
6950/ 2039	Tri.(W) ^h	7.3 to 7.8F	40000	5.7	200	0.05	1500
6952	BPT(L)	0.95F	55000	0.320	425	0.004	2000
7214	Cer.(FA)	5.5	10000	0.20	1215	0.01	65
7649	Ruggedized Cer.(FA)	6.3	3000	0.05	1215	0.01	4.5
7651	Ruggedized Cer.(FA)	6.3	8000	0.120	1215	0.01	39
7835	Tri.(W)	3.1 to 4.2F	65000	3.25	250	0.006	10000
8184	Cer.(FA)	22	25000	0.5	2-Megawatt, Max. Peak Pwr. Input		
8227	Cer.(FA)	6.3	7000	0.03	1215	0.005	17

For Pulse-Modulator Applications

RCA Type	Description (Cooling) ^a	Filament(F) or Heater Volts	Maximum Ratings		Typical Operation	
			Peak Plate Volts	DC Plate Amp.	Pulse Duration μ sec	Peak Power Output Kw
3E29	Twin BPT(N)	6.3 12.6	5750	10 ⁿ	1.2	40
3E29A	Twin BPT(N)	6.3 12.6	7500	10 ⁿ	1.2	40
4610	Twin Tri.(N)	6.3 12.6	—	0.1	—	—
6293	BPT(N)	6.3	2000	1.9	100	3.4

^a Tri. —Triode
BPT—Beam Power Tube
Cer.—Cermolox Tube
N —Natural

FA —Forced-Air
C —Conduction
W —Water
L —Liquid

^b Plate Pulsed Rf Amplifier Service unless otherwise specified under Maximum Plate Volts.

^c Per Section

ⁿ Peak Value.

RCA Quick Selection Guide

RCA VACUUM POWER TUBES

For CW Applications (cont.)

RCA Type	Description (Cooling) ^a	Filament(F) or Heater Volts	Maximum Ratings ^b		Typical Operation	
			Plate Volts	Plate Dissipation Watts	Frequency Mc	Power Output Watts
8226	Cer.(FA)	6.3	2500	300	400	340
8239/ 3X3000F1	Tri.(FA)	7.5	6000 ^f	3000	d	
8437	Cer.(FA)	8.5	7000	10000	400	10000
8438/ 4-400A	BPT(FA)	5	4000	400	d	
	Quick-Heating					
8462	BPT(C)	2.9F	2200	Note ^l	470	85
8501	Cer.(FA)	4.5	7000	10000	900	5500

- ^a Tri. —Triode
Tet. —Tetrode
Pen.—Pentode
BPT—Beam Power Tube
Cer.—Cermolox Tube
Kly. —Klystron
N —Natural
FA —Forced-Air
C —Conduction
W —Water
L —Liquid
- ^b Class C Telegraphy Service (CCS) unless otherwise specified under Max. Plate Volts.
- ^c Lighthouse type
- ^d For existing equipment
- ^e Per section
- ^f Class AB, Af Power Amplifier
- ^g Intermittent Commercial and Amateur Service (ICAS) only
- ^h Shielded Grid, Beam Type
- ^j Rf Power Amplifier, Class B TV Service
- ^k Linear Rf Power Amplifier service, plate current at peak envelope conditions
- ^l Maximum plate dissipation is a function of the maximum plate input, efficiency of the class of service, and the effectiveness of the cooling system
- ^m Parallel filament arrangement

RCA Quick Selection Guide

VACUUM GAUGE TUBES

Type	Description	Filament(F) or Heater Volts	Max. Dimensions Inches		Pressure Range Torr
			Length	Diam.	
1946	Thermocouple Type	1	6¼	1 ¹¹ / ₁₆	1 to 10 ⁻⁴
1947	Pirani Type	10F	7 ⁹ / ₁₆	1 ³ / ₁₆	0.5 to 10 ⁻²
1949	Ionization Type	5F	11½	2 ³ / ₁₆ ^p	10 ⁻³ to 5 x 10 ⁻⁷

^p—Maximum Radius

VACUUM POWER TUBES For Special Applications

Type	Description (Cooling)*	Heater	Max. Dimensions Inches		Maximum Ratings
		Volts	Length	Diam.	
2K26	Kly. (N) C W Oscillator	6.3	3.5	1 ⁵⁵ / ₆₄ ^P	DC Resonator Volts, 330; DC Reflector Voltage: Positive Value, 0 Volts; Negative Value, 350 Volts; DC Resonator Current, 35 ma; Typical Power Output at 6600 Mc, 100 mw.
3C33	Twin Tri.(N) Voltage Regulator	12.6	3 ¹¹ / ₁₆	2 ³ / ₈	Max. Values per Unit: Peak Plate Volts, ±2000; Peak Cathode ma, 500; Average Plate ma, 120; Plate Dissipation, 15 watts.
4600A	Cer. (FA) Voltage Regulator	5.5	3.405	3.76	Max. Values: DC Plate Volts, 3500; DC Plate Amperes, 1; Plate Dissipation, 1750 watts; Grid-Circuit Resistance, 30000 ohms.
4614	Cer.(FA) Voltage Regulator	6.3	2.40	2.09	Max. Values: DC Plate Volts, 2500; DC Plate Amperes, 0.5; Dissipation, 400 watts; Grid-Circuit Resistance, 15000 ohms.

FOOTNOTES:

- Tri —Triode
- Cer—Cermolox Tube
- N —Natural
- FA —Forced-Air
- ^P —Maximum Radius

RCA Quick Selection Guide

RCA TUBES FOR STABILIZATION OF DC VOLTAGE SUPPLIES

(INDIRECTLY-HEATED CATHODE, VACUUM TYPES)

SERIES-VOLTAGE REGULATOR TUBES

Type	Description	Heater		Maximum Ratings		
				DC Plate Volts	DC Plate Ma.	Plate Dissipation Watts
		Volts	Amp.			
6AS7G	Low-Mu Twin Triode Glass-Octal	6.3	2.5	250	125	13
6080	Low-Mu Twin Triode Glass-Octal	6.3	2.5	250	125	13
6080WA	For data refer to applicable military specification					
6082	Low-Mu Twin Triode Glass-Octal	26.5	0.6	250	125	13
6336A	Low-Mu Twin Triode Glass-Octal	6.3	0.5	400	400	30

TUBES FOR UHF APPLICATIONS

Type	Description	Class	Heater or Filament(F)		Max. Plate Dissipation Watts	Trans-conductance μ mhos
			Volts	Amp.		
6F4	Power Triode. Class-C rf power amplifier or oscillator to 1200 Mc	Acorn 7-Pin	6.3	0.225	2	5800
6J4	High-Mu Triode. Cathode-drive amplifier to 500 Mc	7-Pin Min.	6.3	0.400	2.25	12000
6J4WA	High-Mu Triode. Cathode-drive amplifier to 500 Mc	For data refer to applicable military specification.				
6L4	Medium-Mu Triode. RF amplifier to 1200 Mc	Acorn 7-Pin	6.3	0.225	1.7	6400
955	Power Triode. Class-C rf power amplifier or oscillator to 600 Mc	Acorn 5-Pin	6.3	0.150	1.6	2200

RCA Quick Selection Guide

TUBES FOR UHF APPLICATIONS (cont.)

Type	Description	Class	Heater or Filament(F)		Max. Plate Dissipation Watts	Trans-conductance μ mhos
			Volts	Amp.		
956	Remote-Cutoff Pentode. RF or if amplifier, or mixer to 430 Mc	Acorn 5-Pin with 2 leads	6.3	0.150	1.7	1800
957	Medium-Mu Triode. RF amplifier	Acorn 5-Pin	1.25F	0.050	—	650
958A	Power Triode. Class-C rf power amplifier or oscillator to 350 Mc	Acorn 5-Pin	1.25F	0.100	0.6	1200
959	Sharp-Cutoff Pentode. RF amplifier	Acorn 5-Pin with 2 leads	1.25F	0.050	—	600
5636	Sharp-Cutoff Pentode. RF amplifier, gated amplifier, and mixer	Sub-miniature	6.3	0.150	1.1	3200
5718	Power Triode. Class-C rf power amplifier or oscillator to 1000 Mc	Sub-miniature	6.3	0.150	3.3	6500
5840	Sharp-Cutoff Pentode. RF or if amplifier to 400 Mc	Sub-miniature	6.3	0.150	1.1	5000
5899	Semiremote-Cutoff Pentode. RF or if amplifier to 400 Mc	Sub-miniature	6.3	0.150	1.1	4500
6206	Semiremote-Cutoff Pentode. RF or if amplifier to 400 Mc	Sub-miniature	6.3	0.150	1.1	4500
6939	Twin Power Pentode. Class-C push-pull rf power amplifier, oscillator, or frequency multiplier to 500 Mc	9-Pin Min.	12.6 6.3	0.300 0.600	6	10500

RCA Quick Selection Guide

TUBES FOR UHF APPLICATIONS (cont.)

Type	Description	Class	Heater or Filament(F)		Max. Plate Dissipation Watts	Trans-conductance μ mhos
			Volts	Amp.		
8532/ 6J4WA	High-Mu Triode. Cathode-drive amplifier to 500 Mc	7-Pin Min.	6.3	0.400	2.5	11000
9001	Sharp-Cutoff Pentode. RF amplifier or mixer	7-Pin Min.	6.3	0.150	0.5	1400
9002	Power Triode. Class-C rf power amplifier or oscillator to 500 Mc	7-Pin Min.	6.3	0.150	1.6	2200
9003	Remote-Cutoff Pentode. RF or if amplifier or mixer to 430 Mc	7-Pin Min.	6.3	0.150	1.7	1800
9005	Diode. Detector or low-current rectifier	Acorn 5-Pin	3.6	0.165	Max. AC Plate Volts, 117 Max. DC Output Ma., 1	
9006	Diode. Detector or low current rectifier	7-Pin Min.	6.3	0.15	Max. Peak Inverse Plate Volts, 750 Max. DC Output Ma., 5	

QUICK-HEATING FILAMENT TYPES

Type	Description	Heater or Filament(F)		Plate Dissipation Max. Watts	Amplification Factor	Trans-conductance μ mhos
		Volts	Amp.			
3B4WA	Beam Power Tube	—	—	For data refer to applicable military specification.		
1619	Beam Power Tube, Metal-Octal	2.5F	2	15	—	4500
5618	Power Pentode, 7-Pin Min.	6F 3F	0.23 0.4C	5	—	3600
7905	Beam Power Tube, 9-Pin Min.	6.3F	0.65	10	—	6700

RCA Quick Selection Guide

RF POWER AMPLIFIERS, OSCILLATORS, OR FREQUENCY MULTIPLIERS, CLASS C

Type	Description	Heater or Filament(F)		Plate Dissipation Max. Watts	Amplifi- cation Factor	Trans- conductance μ mhos
		Volts	Amp.			
3A4	Power Pentode, 7-Pin Min.	2.8 1.4	0.1 0.2	2	—	1900
3B4WA	Beam Power Tube	—	—	For data refer to applicable military specification.		
1613	Power Pentode, Octal	6.3	0.7	10	—	2500
1614	Beam Power Tube, Octal	6.3	0.9	21	—	6050
1619	Beam Power Tube, Metal-Octal	2.5F	2	15	—	4500
1626	Power Triode, Glass-Octal	12.6	0.25	5	5	2100
5618	Power Pentode, 7-Pin Min.	6F 3F	0.23 0.46	5	—	3600
5763	Beam Power Tube, 9-Pin Min.	6	0.75	12	—	7000
6417	Beam Power Tube, 9-Pin Min.	12.6	0.375	12	—	7000
7558	Beam Power Tube, 9-Pin Min.	12.6	0.375	12	—	7000

AF POWER AMPLIFIERS OR MODULATORS— CLASSES A₁, AB₁, AB₂, OR B

3A4	Power Pentode, 7-Pin Min.	2.8F 1.4F	0.1 0.2	2	—	1900
6AK6	Power Pentode, 7-Pin Min.	6.3	0.15	2.75	—	2300
12A6	Beam Power Tube, Metal-Octal	12.6	0.15	7.5	—	3000
1614	Beam Power Tube, Metal-Octal	6.3	0.9	21	—	6050
1619	Beam Power Tube, Metal-Octal	2.5F	2	15	—	4500
1621	Power Pentode, Metal-Octal	6.3	0.7	8.3	—	2500
1622	Beam Power Tube, Metal-Octal	6.3	0.9	13.8	—	6000

RCA Quick Selection Guide

AF POWER AMPLIFIERS OR MODULATORS— CLASSES A₁, AB₁, AB₂, OR B (cont.)

Type	Description	Heater or Filament(F)		Plate Dissipation Max. Watts	Amplification Factor	Trans-conductance μmhos
		Volts	Amp.			
1631	Beam Power Tube, Metal-Octal	12.6	0.45	16	—	6000
1635	Twin Power Triode, Glass-Octal	6.3	0.6	3	—	—
5618	Power Pentode, 7-Pin Min.	6F 3F	0.23 0.46	5	—	3600
5881	Beam Power Tube, Glass-Octal	6.3	0.9	23	—	5200
6550	Beam Power Tube, Glass-Octal	6.3	1.6	35	—	9000
7558	Beam Power Tube, 9-Pin Min.	6.3	0.8	10	—	5300

VOLTAGE AMPLIFIERS

6AS6	Sharp-Cutoff Pentode, 7-Pin Min.	6.3	0.175	1.7	—	3200
12SW7	Twin Diode—Medium-Mu Triode, Metal-Octal	12.6	0.15	2.5	16	1900
12SX7GT	Medium-Mu Twin Triode, Glass-Octal	12.6	0.3	2.5	20	2600
5687	Medium-Mu Twin Triode, 9-Pin Min.	12.6 6.3	0.45 0.9	4.2	16	5400

OTHER RCA TUBES

12SY7	Pentagrid Converter, Metal-Octal	12.6	0.15	1	—	—
1612	Pentagrid Mixer, Metal-Octal	6.3	0.3	1.5	—	1100
1620	Sharp-Cutoff Pentode, Metal-Octal	6.3	0.3	0.75	—	1225
1629	Electron-Ray Tube, Glass-Octal	12.6	0.15	Plate and target supply volts, 250. At triode grid volts = 0, shadow angle = 90°. At triode grid volts = -7.5, shadow angle = 0°.		
7360	Beam-Deflection Tube, 9-Pin Min.	6.3	0.35	1.5	—	5400

RCA Quick Selection Guide

MICROWAVE TUBES

PENCIL TUBES

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

DIODES—For Pulse Detection Service

6173	6.3	2.227	0.320	Max. Values: Peak Inverse Plate Volts, 1000; Peak Pulse Plate Volts, 150; Peak Pulse Plate Amperes, 1; Average Plate ma, 1.			
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TRIODES—Class C Telegraphy Service

4028	6.3	1.620	0.557	70	Plate-pulsed Osc.	250 peak	3300
4037	6.3	3.125	1.312	30	Osc.	0.45	2000
5675	6.3	2.252	0.817	20	Osc.	0.05	3000
5876	6.3	2.252	0.817	56	Ampl.	5	500
5876A	6.3	2.252	0.817	56	Ampl.	5	500
5893	6.0	2.297	0.817	27	Plate-pulsed Osc.	1200 peak	3300
6263A	6.0	2.63	1.010	27	Ampl.	7	500
6264A	6.0	2.63	1.010	40	Ampl.	7.5	500
7552	6.3	1.620	0.557	80	Class A Ampl.	16.5db Gain	550
7553	6.3	1.620	0.557	80	Class A Ampl.	17db Gain	700
7554	6.3	1.620	0.557	70	Ampl.	1.4	1000

TRIODES—Integral-Cavity Types For Oscillator Service

6562/-							
5794A	6.0	3.256	0.98	—	Osc.	0.6	1680
7533	6.0	3.23	0.98	—	Osc.	0.575	1680

TRAVELING-WAVE TUBES

Type	Maximum Dimensions Inches		Frequency Range Gc	Min. Power Output Watts	Min. Small Signal Gain db	Max. Noise Figure db
	Lgth.	Diam.				
4009	15 $\frac{3}{8}$	1 $\frac{1}{2}$	2-4	0.01	33	—
4010	15 $\frac{3}{8}$	1 $\frac{1}{2}$	2-4	1	33	—
4015	15 $\frac{3}{8}$	1 $\frac{3}{4}$	8-12	1	33	—
4017	16	1 $\frac{1}{2}$	2-4	0.01	30	16
4019	17 $\frac{3}{8}$	1 $\frac{1}{2}$	1-2	0.01	28	17
4020	16	1 $\frac{1}{2}$	4-7	0.01	28	18
4021	16	1 $\frac{9}{16}$ x 1 $\frac{9}{16}$	1-2	1	27	—
4053	20 $\frac{1}{2}$	1 $\frac{5}{8}$	1-2	10	25	—
6861	19 $\frac{3}{8}$	1.390	2.7-3.5	0.00025	20	7
7642	20 $\frac{1}{2}$	1 $\frac{5}{8}$	1.7-2.3	18	28	—
8379	19.50	1.390	2.32-2.68	.001	28	5

RCA Quick Selection Guide

RCA TUBES FOR STABILIZATION OF DC VOLTAGE SUPPLIES

(Cold-Cathode Glow-Discharge Types)

VOLTAGE REGULATOR TUBES

Type	Class	DC Anode Volts	DC Cathode Ma.	DC Anode Starting Volts	Regulation Volts (Max. V _z value)	Max. Rated Average Cathode Ma.
OA2	7-Pin Min.	150	5 to 30	185	6	75
OA2WA	For data refer to applicable military specification.					
OA3	Glass-Octal	75	5 to 40	105	6.5	100
OA3A	Glass-Octal	75	5 to 40	105	6.5	100
OB2	7-Pin Min.	105	5 to 30	133	4	75
OB2WA	For data refer to applicable military specification.					
OC2	7-Pin Min.	75	5 to 30	115	4.5	75
OC3	Glass-Octal	105	5 to 40	133	4	100
OC3A	Glass-Octal	105	5 to 40	127	4	100
OD3	Glass-Octal	150	5 to 40	185	5.5	100
OD3A	Glass-Octal	150	5 to 40	180	5.5	100
991	2-contact	59	0.4 to 2	87	8	—
6073	7-Pin Min.	150	5 to 30	185	6	75
6073/ OA2	7-Pin Min.	150	5 to 30	185	6	75
6074	7-Pin Min.	105	5 to 30	133	4	75
6074/ OB2	7-Pin Min.	105	5 to 30	133	4	75
6626/ OA2WA	7-Pin Min.	150	5 to 30	165	5	75

VOLTAGE REFERENCE TUBES

5651	7-Pin Min.	87	1.5 to 3.5	115	3	—
5651A	7-Pin Min.	85.5	1.5 to 3.5	115	3	—
5651WA	For data refer to applicable military specification.					

RCA TRIGGER TUBES (GAS-FILLED)

Cold-Cathode Types for Relay-Control Applications

Type	Description	Maximum Dimensions Inches		Maximum Ratings		
		Length	Diam.	Peak Anode Volts	Peak Cathode Ma.	Average Cathode Ma.
OA4G	Triode, Glass-Octal	4 $\frac{1}{8}$	1 $\frac{9}{16}$	±225	100	25
1C21	Triode, Glass-Octal	2 $\frac{5}{8}$	1 $\frac{5}{16}$	180	100	25
5823	Triode, 7-Pin Min.	2 $\frac{1}{8}$	$\frac{3}{4}$	±200	100	25

RCA Quick Selection Guide

RECTIFIERS

Type	Heater or Filament Volts	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Amp. Av.
VACUUM TYPES					
0Z4A [□]	—	2 ⁵ / ₈	1 ⁵ / ₁₆	880#	110
2X2A	2.5	4 ¹⁷ / ₃₂	1 ⁹ / ₁₆	12500†	0.0075†
5R4GY [□]	5	5 ⁵ / ₁₆	2 ¹ / ₁₆	2400	0.175†
5R4GYB [□]	5	4 ¹ / ₄	1 ⁹ / ₁₆	2650 [△]	0.250 [△]
5690 [□]	12.6 6.3	4 ¹ / ₄	1 ²³ / ₃₂	1120	74
579B	2.5	7 ⁷ / ₁₆	2 ¹ / ₈	20000	0.025
836	2.5	6 ⁹ / ₁₆	2 ⁷ / ₁₆	5000	0.25
1616	2.5	6 ¹³ / ₁₆	2 ¹ / ₁₆	6000	0.13
5825	1.6	5 ²⁷ / ₃₂	2 ¹ / ₁₆	60000	0.002
8013A	2.5	6 ¹ / ₁₆	2 ¹ / ₁₆	40000	0.020
8020	5	8	2 ⁵ / ₁₆	40000	0.100
MERCURY-VAPOR TYPES					
83 [□]	5	5 ³ / ₈	2 ¹ / ₁₆	1550†	0.225†
575A	5	11 ¹ / ₁₆	3 ¹ / ₈	15000	1.5
604/7014 [□]	2.5	7 ¹ / ₂	2 ¹ / ₁₆	900	2.5
615/7018	2.5	6 ³ / ₈	2 ¹ / ₁₆	2000	2.5
635/7019	2.5	9 ¹ / ₂	2 ¹ / ₁₆	1000	6.4
635L/7020	2.5	9 ¹ / ₂	2 ³ / ₁₆	1000	6.4
673	5	11 ³ / ₈	3 ¹ / ₈	15000	1.5
816	2.5	4 ¹¹ / ₁₆	1 ⁹ / ₁₆	7500	0.125
857B	5	19 ⁷ / ₈ ♦	7 ¹ / ₈	22000	10
866A	2.5	6 ⁹ / ₁₆	2 ⁷ / ₁₆	10000	0.25
869B	5	14 ⁷ / ₁₆	5 ¹ / ₈	20000	2.5
872A	5	8 ¹ / ₂	2 ⁵ / ₁₆	10000	1.25
4620	5	19 ⁷ / ₈ ♦	7 ¹ / ₈	22000	10
5558	5	7	1 ⁹ / ₁₆	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	6.15	2 ¹ / ₁₆	10000	0.25
THYRATRONS					
TRIODES					
C1K/6014	2.5	4 ⁵ / ₁₆	1 ⁹ / ₁₆	1250	1.0
C3J/5632	2.5	6	1 ⁵ / ₈	1250	2.5
C3JA/5684	2.5	6	1 ⁵ / ₈	1250	2.5
C3JL	2.5	6 ³ / ₄	2 ³ / ₁₆	1250	2.5
C6J/5C21	2.5	9 ¹ / ₂	2 ¹ / ₁₆	1250	6.4
C6JA/5685	2.5	9 ¹ / ₂	2 ¹ / ₃₂	1250	6.4
C16J/5665	2.5	10 ¹ / ₂ ♦	2 ⁹ / ₁₆ ⊕	1250	18

♦Excluding flexible leads.

#Per plate.

†Design center values.

□Full-Wave Type.

△Abs. Max. values.

⊕Bulb diameter.

RCA Quick Selection Guide

THYRATRONS (cont'd)

Type	Heater or Filament	Maximum Dimensions Inches		Max. Plate or Anode Ratings	
		Length	Diam.	Peak Inv. Volts	Av. Amp.
TRIODES (cont'd)					
3C23	2.5	6 $\frac{1}{8}$	2 $\frac{1}{16}$	1250	1.5
627	2.5	6 $\frac{5}{8}$	2 $\frac{7}{16}$	2500	0.64
629	2.5	4 $\frac{1}{4}$	1 $\frac{9}{16}$	350	0.04
676	5	11 $\frac{3}{4}$	3 $\frac{13}{16}$	2500	6.4
677	5	11 $\frac{11}{16}$	3 $\frac{13}{16}$	10000	4.0
710/6011	2.5	6 $\frac{1}{4}$	1 $\frac{5}{8}$	1500	2.5
714/7021	2.5	6 $\frac{1}{8}$	2 $\frac{1}{16}$	1250	1.0
716/6855	2.5	4 $\frac{3}{8}$	1 $\frac{9}{16}$	1250	1.0
760/6858	2.5	9 $\frac{1}{2}$	2 $\frac{9}{16}$	1500	6.4
884	6.3	4 $\frac{1}{8}$	1 $\frac{9}{16}$	350 Δ	0.075 \oplus
885	2.5	4 $\frac{3}{16}$	1 $\frac{9}{16}$	350 Δ	0.075 \oplus
5557	2.5	6 $\frac{1}{8}$	2 $\frac{1}{16}$	5000	0.5
5559	5	7 $\frac{1}{4}$	3	1000	2.5
5563A	5	10 $\frac{17}{32}$	2 $\frac{5}{8}$	20000	1.6
6130/3C45	6.3	5 $\frac{3}{16}$	1 $\frac{9}{16}$	3000	0.045

TETRODES

2D21	6.3	2 $\frac{1}{8}$	$\frac{3}{4}$	1300	0.1 \oplus
2D21W	6.3	2 $\frac{1}{8}$	$\frac{3}{4}$	1300	0.1
3D22A	6.3	4 $\frac{5}{8}$	2 $\frac{3}{8}$	1500	0.8
105	5	11 $\frac{1}{4}$ #	2 $\frac{1}{2}$ *	2500	6.4
172	5	10 $\frac{27}{32}$	2 $\frac{5}{8}$ *	2000	6.4
502A	6.3	2 $\frac{5}{8}$	1 $\frac{5}{16}$	1300	0.1 \oplus
632B	5	8 $\frac{5}{16}$	1 $\frac{3}{4}$ *	1500	2.5
672A	5	8 $\frac{3}{8}$	2 $\frac{5}{16}$	2500	3.2
2050	6.3	4 $\frac{1}{8}$	1 $\frac{9}{16}$	1300	0.1 \oplus
2050A	6.3	3 $\frac{1}{16}$	1 $\frac{9}{32}$	1300	0.1 \oplus
5560	5	7 $\frac{15}{16}$	2 $\frac{1}{4}$ *	1000	2.5
5696	6.3	1 $\frac{3}{4}$	$\frac{3}{4}$	500	0.025 \oplus
5727	6.3	2 $\frac{1}{8}$	$\frac{3}{4}$	1300	0.1 \oplus
6012	6.3	3 $\frac{1}{8}$	1 $\frac{23}{32}$	1300	0.5 \oplus

IGNITRONS

Type	Maximum Dimensions Inches			Max. Anode Rating††		Max. Anode Rating¶	
	Size	Rigid Length	Radius	KVA Demand	Corresponding Av. Anode Amp.	Peak Inv. Volts	Av. Amp.
5550	(A)	9 $\frac{13}{16}$	2 $\frac{1}{2}$ §	300	12.1	—	—
5551A	(B)	13	2 $\frac{7}{8}$	600	30.2	1500	18
5552A	(C)	14	3 $\frac{5}{8}$	1200	75.6	—	—
5553B	(D)	19 $\frac{1}{2}$	4 $\frac{11}{16}$	2400	192.0	1500	112

□ Full-Wave Type.

* Maximum Radius.

† Design Center Values.

¶ For frequency-changer resistance-welding service.

§ Diameter

Excluding Flexible Leads.

△ Forward Peak Anode Volts.

⊕ Average Cathode Amp.

†† For Resistance Welding Control.

RCA Quick Selection Guide
MAGNETRONS
FOR PULSED-OSCILLATOR SERVICE

Type	Heat-er Volts	Maximum Dimensions Inches			Fre- quency Range Gc	Min. Peak Out- put Kw	Type of Tun- ing Adj.
		Lgth.	Wdth.	Hght.			
4011A	13.75	$7\frac{11}{16}$	$4\frac{5}{8}$	$6\frac{5}{32}$	8.75 — 9.6	215	Hand
6521	10	$7\frac{1}{8}$	$4\frac{1}{2}$	$7\frac{7}{32}$	$5.4 \pm .02$	75	None
6865A	13.75	$7\frac{11}{16}$	6	$6\frac{5}{32}$	8.75 — 9.6	190	Hand
7008	13.75	$7\frac{11}{16}$	$4\frac{3}{4}$	$8\frac{1}{4}$	8.5 — 9.6	200	Servo
7111	13.75	$7\frac{11}{16}$	6	$6\frac{5}{32}$	8.5 — 9.6	200	Hand

RCA Quick Selection Guide PHOTOTUBES

Type	Spectral Response	Maximum Dimensions Inches		Characteristics	
				Anode-Supply Volts	Luminous Sensitivity Micro-amp per lumen
		Length	Diam.		

VACUUM TYPES

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

* Composite anode-cathode type.

GAS TYPES

1P29	S-3	$4\frac{1}{8}$	$1\frac{1}{8}$	90	40
1P37	S-4	$4\frac{1}{8}$	$1\frac{1}{8}$	90	135
1P40	Same as 930 except has non-hygroscopic base				
1P41	S-1	$2\frac{1}{16}$	$1\frac{3}{16}$	90	90
868	S-1	$4\frac{1}{8}$	$1\frac{1}{8}$	90	90
918	S-1	$4\frac{1}{8}$	$1\frac{1}{8}$	90	150
920*	S-1	4	$1\frac{3}{16}$	90	100
921	S-1	$1\frac{23}{32}$	0.890	90	135
923	S-1	$3\frac{9}{16}$	$1\frac{3}{16}$	90	135
927	S-1	$2\frac{13}{32}$	0.669	90	125
928	S-1	$3\frac{9}{16}$	$1\frac{3}{16}$	90	65
930	S-1	$3\frac{1}{16}$	$1\frac{9}{32}$	90	135
4409	S-4	$3\frac{1}{16}$	$1\frac{9}{32}$	90	135
5581	S-4	$3\frac{1}{16}$	$1\frac{9}{32}$	90	135
5582	S-4	$1\frac{23}{32}$	0.890	90	120
5583	S-4	$2\frac{13}{32}$	0.669	90	135
5584*	S-4	4	$1\frac{3}{16}$	90	120
6405/1640	S-1	$4\frac{7}{16}$	$1\frac{1}{8}$	50	35
6953	S-1	$3\frac{3}{16}$	$1\frac{9}{32}$	90	200

* Twin-unit type.

RCA Quick Selection Guide

MULTIPLIER PHOTOTUBES

Type	Spectral Response	Maximum Dimensions Inches		Characteristics	
				Anode-Supply Volts	Typical Luminous Sensitivity Amp./Lumen
		Length	Diam.		
1P21	S-4	3 ¹¹ / ₁₆	1 ⁵ / ₁₆ ^a	1000	80
1P22	S-8	3 ¹¹ / ₁₆	1 ⁵ / ₁₆ ^a	1000	1
1P28	S-5	3 ¹¹ / ₁₆	1 ⁵ / ₁₆ ^a	1000	50
931A	S-4	3 ¹¹ / ₁₆	1 ⁵ / ₁₆ ^a	1000	24
2020	S-11	5 ¹³ / ₁₆	2 ⁵ / ₁₆	1250	6
2067	S-11	2.80 ^b	1.56	1000	15
4438	S-11	3.91 ^b	1.56	1000	27
4439	S-11	3.91 ^b	1.56	1000	27
4440	S-11	4.12	1.56	1000	27
4441	S-11	3.18 ^b	1.56	1000	27
4441A	S-11	3.18 ^b	1.56	1000	27
4459	S-11	6.31	2.06	2300	1000
4460	S-11	3.38 ^b	0.78	1250	7.5
4461	S-11	3.18 ^b	1.56	1250	10
4463	S-20	5.81	2.31	2000	25
4464	S-20	6.31	3.06	2000	25
4465	S-20	7.69	5.31	2000	25
5819	S-11	5 ¹³ / ₁₆	2 ⁵ / ₁₆	1000	25
6199	S-11	4.57	1.56	1000	27
6217	S-10	5 ¹³ / ₁₆	2 ⁵ / ₁₆	1000	100
6328	S-4	3.12	1.31 ^a	1000	35
6342A	S-11	5.81	2.31	1250	31
6472	S-4	2 ³ / ₄ ^b	1 ³ / ₁₆ ^a	1000	35
6655A	S-11	5.81	2.31	1000	90
6810A	S-11	7.5	2.38	2000	3050
6903	S-13	6 ⁹ / ₁₆	2 ⁵ / ₁₆	1000	90
7029	S-17	3.75	1.56 ^c	1000	40
7046	(^d)	11 ¹ / ₈	5 ¹ / ₄	2800	1750
7102	S-1	4.57	1.56	1250	4.5
7117	S-4	3.12	1.31 ^a	1000	35
7200	S-19	5.69	1.31 ^a	1000	40
7264	S-11	7.5	2.38	2000	875
7265	S-20	7.5	2.38	2400	3000
7326	S-20	6.78	2.38	1800	22.5
7746	S-11	6.12	2.31	2000	1200
7764	S-11	2.75	0.78	1200	0.6
7767	S-11	4.0 ^b	0.78	1250	16
7850	S-11	6.31	2.06	2300	6000
8053	S-11	5.81	2.31	1500	19
8054	S-11	6.31	3.06	1500	19
8055	S-11	7.69	5.31	1500	19

^a Side-on type ^b Excluding flexible leads ^c Dormer-window type
^d Extended S-11, with response 2500 to 6500 angstroms.

RCA Quick Selection Guide PHOTOCONDUCTIVE CELLS

CADMIUM-SULFIDE TYPES

Type ^a	Maximum Ratings		Characteristics at 25° C		
	Voltage between Terminals dc or peak ac volts	Power Dissipation watt	Voltage between Terminals volts	Photocurrent at one footcandle ma	
				Min.	Max.
4402	300	0.05	12 (dc)	1.6 ^b	—
4403 ^c	250	0.3	50 (ac)	8	16
4404	600	0.3	50 (ac)	2.5	5
4413	110	0.05	12 (dc)	1.4 ^b	2.75
4423	250	0.2	50 (ac)	1.5	4
4424	110	0.2	12 (dc)	3.6	14.5
4425	110	0.2	12 (dc)	3.6	14.5
4448 ^c	600	0.3	50 (ac)	1.5	4
4453 ^c	600	0.3	50 (ac)	3	7
7163	600	0.3	50 (ac)	1	3
7412	200	0.05	12 (dc)	0.065	0.275
SQ2500	250	0.2	12 (dc)	0.24	0.8
SQ2502 ^c	600	0.5	50 (ac)	2.5	5
SQ2508	200	0.05	12 (dc)	0.065	0.275
SQ2514 ^d	150	0.03	90 (dc)	0.057 ^e	0.65
SQ2520	110	0.2	12 (dc)	3.6	14.5
SQ2521	250	0.25	50 (ac)	1.5	4.0

^a All cadmium-sulfide photocell types have S-15 spectral response except for type SQ2514 which has S-12 spectral response.

^b At 10 footcandles. ^d Single crystal type.

^c For renewal use ^e At 30 footcandles.

PHOTOJUNCTION CELLS

GERMANIUM P-N ALLOY TYPES

Type	Maximum Ratings		Characteristics at 25° C		
	Voltage between Terminals dc volts	Power Dissipation watt	Voltage between Terminals dc volts	Illumination Sensitivity $\mu\text{a}/\text{fc}$	Max. Dark Current μa
SQ2516	50	0.03	45	0.7	35

SILICON N ON P PHOTOVOLTAIC TYPES

Characteristics at 27° ± 1° C

Type§	Minimum Current ma	Minimum Power Output mw	Minimum Efficiency per cent
SL2205	48	17.9	10.0
SL2206	101.5	37.8	10.0

RCA Quick Selection Guide IMAGE-CONVERTER TUBES

Type	Spectral Response	Phosphor	Average Characteristics at 25° C.			
			Supply Voltage kilovolts	Min. Infrared Con- version Index	Magnifi- cation Factor	Min. Cathode Resolution line-pairs/ mm
4449	S-11	P11	15	—	0.77	17
4449A	S-11	P11	15	—	0.78 ^a	25
6032A ^b	S-1	P20	20	10	0.5	18
6381	S-1	P20	16	10	0.58	25
6914	S-1	P20	16	15	0.76	25
6914A ^b	S-1	P20	16	15	0.76	25
6929	S-1	P20	12	10	0.75	25
7404	S-21	P20	12	—	0.75	25

^a Maximum value.

^b Controlled for threshold visibility.

CAMERA TUBES

IMAGE ORTHICONS

Type	Illumination on Tube Face footcandles	Typical Resolution at Operating Light Level		Typical Signal- to-Noise Ratio- Bandwidth 4.5 Mc- Target Volts Above Cutoff	
		Amp. Re- sponse at 400 TV Lines per cent	Limiting Resolution TV Lines		
				2	2.3
7415, 4416 ^a	1×10^{-2b}	55	675	37:1	—
8513 ^c	3×10^{-2}	55	675	55:1	—
092A	7×10^{-3}	65	600	37:1	—

FOR COLOR PICKUP

7415, 4416 ^a	1×10^{-2b}	55	675	37:1	—
8513 ^c	3×10^{-2}	55	675	55:1	—
092A	7×10^{-3}	65	600	37:1	—

FOR BLACK-AND-WHITE PICKUP

4401V1	1.4×10^{-2}	60	625	45:1	—
4414/7611	2×10^{-2}	40	600	45:1	—
5820A	2×10^{-2}	60	625	45:1	—
7198 ^d	1×10^{-2}	—	625	30:1	—
7293A	2×10^{-2}	60	675	45:1	—
7295B ^e	6×10^{-2}	75	800	—	75:1
7389B ^e	7×10^{-2}	75	800	—	95:1
7629A	4×10^{-3}	50	600	32:1	—
7967	1×10^{-5}	—	650	3:1	—
8093A	4×10^{-2}	60	675	50:1	—

^a Supplied as a set of two 4415's and one 4416 having matched characteristics.

^b Illumination on face of the 4415.

^c A trio of these tubes having matched characteristics is available as the 7513/V1.

^d "Ruggedized" type.

^e 4½" diameter type.

RCA Quick Selection Guide

CAMERA TUBES (cont.)

VIDICONS

Type	Operating Mode	Illumination on Tube Face footcandles	Typical Resolution at Specified Light Level	
			Amp. Response at 400 TV Lines per cent	Limiting Resolution TV Lines

1/2"-DIAMETER TYPES

4427	Max. Sens.	0.4	5	400
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1"-DIAMETER TYPES

2048A ^a	Av. Sens.	1	30	750
6326	Min. Lag.	100	—	750
7038	Av. Sens.	10	30	750
7262A	Av. Sens.	1	30	750
7263A ^a	Av. Sens.	1	30	750
7697	Av. Sens.	1	30	750
7735A	Av. Sens.	1	30	750
8134 ^b	High Sens.	0.1	25 ^c	750 ^c
8507	Av. Sens.	1	45 ^c	1000 ^c
8572	Av. Sens.	10	45 ^c	1000 ^c
8573	Av. Sens.	1	45 ^c	1000 ^c

1 1/2"-DIAMETER TYPE

8051	Av. Sens.	8	60	1500
8480 ^b	Av. Sens.	10	60	1400
8521	Av. Sens.	3	60	1500

^a "Ruggedized" type.

^b Electrostatic-focus, magnetic-deflection type.

^c Values are for high-voltage tube operation.

RCA Quick Selection Guide

CATHODE-RAY TUBES

ELECTROSTATIC FOCUS AND DEFLECTION TYPES

Type ^a	Max. Overall Length in.	Min. Screen Diameter in.	Characteristics	
			Final Electrode Volts	Volts DC/In.†
				DJ ₁ -DJ ₂

OSCILLOGRAPH TYPES—Medium Persistence:

1EP1	4 ¹ / ₁₆	1 ¹ / ₁₆	1000	210-310	240-350
2AP1A	7 ⁵ / ₈	1 ³ / ₄	1000	195-265	167-225
2BP1	7 ¹³ / ₁₆	1 ³ / ₄	2000	230-310	148-200
3AP1A	11 ⁷ / ₈	2 ³ / ₄	1500	91-137	87-131
3AQP1	9 ³ / ₈	2 ³ / ₄	1000	73-99	26-35
3BP1A	10 ¹ / ₄	2 ³ / ₄	1500	127-173	94-128
3JP1‡	10 ¹ / ₄	2 ³ / ₄	4000	170-230	125-170
3KP1	11 ³ / ₄	2 ³ / ₄	1000	50-68	38-52
3RP1	9 ³ / ₈	2 ³ / ₄	2000	146-198	104-140
3RP1A	Same as type 3RP1, except has flat face.				
3WP1	11 ⁵ / ₈	2 ³ / ₄	2000	83-101	57-70
5ABP1‡	17 ¹ / ₈	4 ⁹ / ₁₆	4000	53-72	36-48
5ADP1‡	16 ¹⁵ / ₁₆	4 ¹ / ₂	4000	53.4-66.6	40.6-50
5BP1A	17 ¹ / ₈	4 ¹ / ₂	2000	70-96	64-88
5CP1A‡	17 ¹ / ₈	4 ¹ / ₂	4000	78-106	66-90
5UP1	15 ⁵ / ₈	4 ¹ / ₂	2000	56-77	46-62
7VP1	14 ⁷ / ₈	6	3000	93-123	75-102
902A	7 ⁷ / ₈	1 ³ / ₄	600	110-166	96-141

Medium-Short Persistence:

1EP11	Same as type 1EP1, except for phosphor				
2BP11	Same as type 2BP1, 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				
5CP11A‡	Same as type 5CP1A, except for phosphor				
5UP11	Same as type 5UP1, except for phosphor				
7VP31	Same as type 7VP1, except for phosphor				

Type ^a	Max. Overall Length in.	Min. Screen Diameter in.	Characteristics	
			Final Electrode Volts	Deflection Angle approx. degrees

OSCILLOGRAPH TYPES

Short Persistence:

5FP15A ^b	11 ¹ / ₂	4 ¹ / ₄	5000	53
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Medium-Short Persistence:

1EP2	Same as type 1EP1, except for phosphor			
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RCA Quick Selection Guide

ELECTROSTATIC FOCUS AND DEFLECTION TYPES (cont.)

Type ^a	Max. Overall Length in.	Min. Screen Diameter in.	Characteristics	
			Final Electrode Volts	Deflection Angle approx. degrees

OSCILLOGRAPH TYPE (Cont.)

Long Persistence:

5CP12	Same as type 5CP1A, except for phosphor
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Long Persistence:

3JP7	Same as type 3JP1, except for phosphor			
3KP7	Same as type 3KP1, except for phosphor			
5ABP7	Same as type 5ABP1, except for phosphor			
5FP7A ^b	11½	4¼	7000	53
5UP7	Same as type 5UP1, except for phosphor			
7BP7A ^b	13⅝	6	7000	53
7MP7 ^b	13⅝	6	7000	50

ELECTROSTATIC FOCUS AND MAGNETIC DEFLECTION TYPES

Type ^a	Max. Overall Length in.	Min. Screen Diameter in.	Characteristics		
			Final High Electrode Volts	Focusing Electrode Volts	Deflection Angle approx. degrees

Flying-Spot Types

3KP16 ^c	Same as type 3KP1, except for phosphor				
5AUP24	12⅞	4¼	27000	4600-5800	40
5WP15	11 ¹³ / ₁₆	4¼	27000	4000-5200	50
5ZP16	14¾	4¼	27000	5500-7100	40

Transcriber Kinescope

5WP11	11 ¹³ / ₁₆	4¼	27000	4200-5400	50
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For footnotes, see page 130.

RCA Quick Selection Guide

ELECTROSTATIC FOCUS AND MAGNETIC DEFLECTION TYPES (cont.)

Type ^a	Max. Overall Length in.	Min. Screen Diameter in.	Characteristics		
			Final High Electrode Volts	Focusing Electrode Volts	Deflection Angle approx. degrees

View-Finder Kinescopes

5FP4A ^b	11½	4¼	6000	—	53
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Projection Kinescopes (for theater television)

5AZP4	12 ⁹ / ₁₆	4½	36000	6650-8100	50
7NP4 ^d	20 ¹ / ₈	5x3¾	75000	15000-17000	35
7WP4 ^e	20 ¹ / ₁₆	5x3¾	75000	15000-17000	35

Monitor Kinescopes

7CP4	13 ¹³ / ₁₆	6½	6000	912-1368	57
7TP4	13½	6	10000	1170-1590	50
8HP4	10¼	7 ¹³ / ₁₆ ^f	11000	0-300	90
8NP4	9 ¹⁵ / ₁₆	7¾ ^f	16000	200	90
8QP4	10 ¹ / ₈	7¾ ^f	16000	200	90
10SP4	17	9 ¹ / ₈	14000	1640-2225	50
14BAP4	17 ⁵ / ₃₂	12¾ ^f	18000	0-400	70
17DWP4	19 ⁹ / ₁₆	15 ⁹ / ₁₆ ^f	18000	0-400	70
21EYP4	23 ¹³ / ₃₂	20¼ ^f	18000	0-400	72

^a All have 6.3-v heaters, except for the 3AP1A which has a 2.5-v heater.

^b Magnetic focus and deflection type.

^c Electrostatic focus and deflection type.

^d Projection-throw distance = 60 feet.

^e Projection-throw distance = 80 feet.

^f Diagonal

RCA Quick Selection Guide STORAGE TUBES

DISPLAY-STORAGE TUBES

RCA Type	Nominal Diameter Inches	Maximum Overall Length Inches	Deflection Method	No. of Writing Guns
4412	10	20.75	E	1
2028	5	15½	E	1
2053	5	13.64	E	1
4454	5	11.62	M	1
6866	5	15½	E	1
7183	5	11⅝	M	1
7268	5	16	E	2
7315	5	13.64	E	1

MONOSCOPES

Type	Maximum Dimensions		Typical Operation			
			Pattern Electrode Volts	Grid No. 3 Volts for Focus (Approx.)	Grid No. 2 Volts	Grid No. 1 Volts for Visual Cutoff of Monitor Raster (Approx.)
	Length Inches	Diam. Inches				
2F21	12 ¹¹ / ₁₆	5 ¹ / ₁₆	1000	240 to 360	1000	-10 to -70
1699	Custom-built type. Like 2F21, except pattern is individually styled to customer's requirements.					

GRAPHECHON

Type	Maximum Dimensions		Min. Number of Discernible Output Signal Levels	Resolution at 50% Response range rings/display radius
	Length Inches	Diameter Inches		
7539	26	3.40	4	150

RADECHON

1858	Variant of type 6499 but designed especially for binary memory systems in computers.
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COMPUTER STORAGE TUBE

6571	Useful in binary-digital computer systems.
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RCA Quick Selection Guide

TUBES FOR "ON-OFF" APPLICATIONS

Type	Description	Class	Heater		Maximum Ratings	
			Volts	Amp	Plate Dissipation	
					Each Unit	Both Units
6AS6	Sharp-Cutoff Pentode	7-pin min	6.3	0.175	1.7	
5915	Pentagrid Amplifier	7-pin min	6.3	0.3	1	
5963	Medium-Mu Twin Triode	9-pin min	$\frac{12.6}{6.3}$	$\frac{0.15}{0.3}$	2.5	5
5964	Medium-Mu Twin Triode	7-pin min	6.3	0.45	1.5	3
5965	Medium-Mu Twin Triode	9-pin min	$\frac{12.6}{6.3}$	$\frac{0.225}{0.45}$	2.4	4.4
6197	Power Pentode	9-pin min	6.3	0.65	7.5	
6211	Medium-Mu Twin Triode	9-pin min	$\frac{12.6}{6.3}$	$\frac{0.15}{0.3}$	1	2
6350	Medium-Mu Twin Triode	9-pin min	$\frac{12.6}{6.3}$	$\frac{0.3}{0.6}$	4	7
6814	Medium-Mu Triode	Sub min	6.3	0.15	2.2	
6887	Twin Diode	7-pin min	6.3	0.2	—	
6922	Medium-Mu Twin Triode	9-pin min	6.3	0.3	1.3	3
7044	Medium-Mu Twin Triode	9-pin min	$\frac{6.3}{12.6}$	$\frac{0.9}{0.45}$	4.5	8

MECHANO-ELECTRONIC TRANSDUCER

5734 Compact, lightweight, medium-mutriode which translates mechanical motion, such as vibration, at frequencies to 12 Kc into corresponding plate-current variations which can be observed or measured by conventional methods.

RCA Quick Selection Guide

"SPECIAL RED" TUBES

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

GLASS TYPE

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

METAL TYPE

5693	Sharp-Cutoff Pentode	6.3	0.3	—	2.0	1650
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RCA Quick Selection Guide

PREMIUM TUBES

**For Military Specifications
and Critical Industrial Applications**

Type	Proto- type [▲]	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.
3B4WA	3B4	Beam Power Tube	7-Pin Min.
6AC7-W	6AC7	Sharp-Cutoff Pentode	Metal-Octal
6AU6-WA*	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6AU6-WB*	6AU6	Sharp-Cutoff Pentode	7-Pin Min.
6J4-WA*	6J4	High-Mu Triode	7-Pin Min.
6J6-WA*	6J6	Medium-Mu Twin Triode	7-Pin Min.
6X4-W*	6X4	Full-Wave Rectifier	7-Pin Min.
12AT7-WA*●	12AT7	High-Mu Twin Triode	9-Pin Min.
12AT7WB*	12AT7	High-Mu Twin Triode	9-Pin Min.
407A	2C51	Medium-Mu Twin Triode	9-Pin Min.
408A	6AK5	Sharp-Cutoff Pentode	7-Pin Min.
5636	—	Sharp-Cutoff Pentode	Subminiature
5639	—	Sharp-Cutoff Pentode	Subminiature
5651	—	Voltage-Reference	7-Pin Min.
5651A	5651	Voltage-Reference	7-Pin Min.
5651-WA*	5651	Voltage-Reference	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	—	Power 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.

*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.

●"Command" type.

RCA Quick Selection Guide

PREMIUM TUBES

For Military Specifications
and Critical Industrial Applications

Type	Proto- type [▲]	Description	Class
5751-WA	12AX7	High-Mu Twin Triode	9-Pin Min.
5814A*●	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5814-WA	12AU7	Medium-Mu Twin Triode	9-Pin Min.
5840	—	Sharp-Cutoff Pentode	Subminiature
5842/417A	417A	Medium-Mu Triode	9-Pin Min.
5847/404A	404A	Sharp-Cutoff Pentode	9-Pin Min.
5896	—	Twin Diode	Subminiature
5899	—	Semiremote-Cutoff Pentode	Subminiature
5902	—	Beam-Power Tube	Subminiature
6005	6AQ5	Beam-Power Tube	7-Pin Min.
6005/6AQ5-W*	6AQ5	Beam-Power Tube	7-Pin Min.
6005/6AQ5-W/ 6095	6AQ5	Beam-Power Tube	7-Pin Min.
6021	—	Medium-Mu Twin Triode	Subminiature
6072	12AY7	Medium-Mu Twin Triode	9-Pin Min.
6073	0A2	Voltage Regulator	7-Pin Min.
6073/0A2	0A2	Voltage Regulator	7-Pin Min.
6074	0B2	Voltage Regulator	7-Pin Min.
6074/0B2	0B2	Voltage Regulator	7-Pin Min.
6080-WA*	6AS7-G	Series Voltage Regulator Twin 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
6386	2C51	Medium-Mu Twin Triode	9-Pin Min.
6626/0A2WA	0A2	Voltage Regulator	7-Pin Min.
6922	—	Medium-Mu Twin Triode	9-Pin Min.
8532/6J4WA*	6J4	High-Mu Triode	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.

●"Command" type.

RCA Quick Selection Guide

TUBES OPERATING FROM BATTERY SUPPLIES

(Operating from Nominal 6- and 12-Volt
Storage-Battery Systems)

From Nominal 12-Volt Storage-Battery Systems

Type	Description	Class	Service
7054	Power Pentode	9-Pin Min.	Class C rf power amplifier, oscillator, frequency multiplier up to 40 Mc.
7055	Twin Diode	7-Pin Min.	Detector in am and fm receivers, low-current rectifier, speech clipper
7056	Sharp-Cutoff Pentode	7-Pin Min.	Rf and if amplifier up to 45 Mc.
7057	Medium-Mu Twin Triode	9-Pin Min.	Rf amplifier in cascode-type circuits up to 200-Mc.
7058	High-Mu Twin Triode	9-Pin Min.	Phase inverter, resistance-coupled amplifier, low-frequency oscillator
7059	Medium-Mu Triode—Sharp Cutoff Pentode	9-Pin Min.	Oscillator and mixer in receivers utilizing if frequencies up to 40 Mc.
7060	Medium-Mu Triode—Power Pentode	9-Pin Min.	Pentode as Class C if amplifier and frequency multiplier up to 40 Mc.; triode unit, as reactance modulator
7061	Beam Power Tube	9-Pin Min.	Audio-frequency power amplifier
7551	Beam Power Tube	9-Pin Min.	Class C rf amplifier, oscillator, or frequency multiplier at frequencies up to 175 Mc.
7724/ 14GT8	Twin Diode-High-Mu Triode	9-Pin Min.	Combined fm detector and voltage amplifier
7898	High-Mu Twin Triode	9-Pin Min.	Oscillator, mixer, limiter, and dc amplifier
8077/ 7054	Power Pentode	9-Pin Min.	Class-C rf power amplifier, oscillator, or frequency multiplier to 40 Mc; af power amplifier

RCA Quick Selection Guide

TUBES OPERATING FROM BATTERY SUPPLIES

From Nominal 6-Volt Storage-Battery Systems

Type	Description	Class	Service
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
6664/ 6AB4	High-Mu Triode	7-Pin Min.	Cathode-drive rf amplifier, frequency converter, or oscillator to 300 Mc
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
7771/ 6CY5	Sharp-Cutoff Tetrode	7-Pin Min.	Rf amplifier at vhf frequencies.
7905	Beam Power Tube	9-Pin min.	Class-C rf power amplifier, oscillator, or frequency multiplier to 175 Mc

TUBES OPERATING FROM BATTERY SUPPLIES (Cont'd)

(Operating From Nominal 24-Volt Storage-Battery Systems)

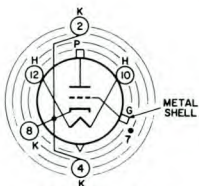
Type	Description	Class	Service
26A6	Remote-Cutoff Pentode	7-Pin Min.	RF amplifier
26A7GT	Twin Beam Power Tube	Glass-Octal	Push-pull af power amplifier
26C6	Twin Diode—Medium-Mu Triode	7-Pin Min.	Combined detector and voltage amplifier
26D6	Pentagrid Converter	7-Pin Min.	Combined oscillator-mixer
26FZ6	Remote-Cutoff Pentode	7-Pin Min.	RF amplifier
6082	Twin Power Triode	Glass-Octal	Series voltage regulator for stabilization of dc voltage supplies having high current requirements

Filamentary-Cathode Types Operating From Dry-Cell Battery Supplies

1L4	Sharp-Cutoff Pentode	7-Pin Min.	RF amplifier
3A4	Power Pentode	7-Pin Min.	Class-C rf power amplifier to 10 Mc af power amplifier
3A5	Twin Power Triode	7-Pin Min.	Class-C power amplifier or oscillator to 40 Mc; af power amplifier
1619	Beam Power Tube	Metal-Octal	Class-C rf power amplifier or oscillator with full input to 45 Mc; with reduced input to 90 Mc; af power amplifier or modulator
5642	Half-Wave Vacuum Rectifier	Sub-miniature	Double-ended high-voltage low-current pulsed rectifier having flexible leads

RCA NUVISTOR TUBES

For Industrial and Military Applications



INDEX = LARGE LUG
 •• SHORT PIN; IC—DO NOT USE

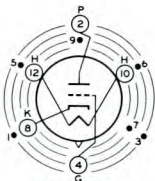
12CT

Type

8058



Double-ended
 nuvistor triode



INDEX = LARGE LUG
 •• SHORT PIN; IC—DO NOT USE

12AQ

Types

7586

7895

8056

8203

8393



Nuvistor triode



INDEX = LARGE LUG
 •• SHORT PIN; IC—DO NOT USE

12AS

Type

7587



Nuvistor tetrode

RCA NUUVISTOR TUBES For Industrial and Military Applications

TYPE	CLASSIFICATION	INTENDED APPLICATIONS AND FEATURES	SPECIAL TESTS AND CONTROLS										R C A DARK HEATER Rated Center Values		MAXIMUM DIMENSIONS Inches		
			Shock	Fatigue	Variable-Frequency Vibration	Low-Pressure Voltage Breakdown	Heater Cycling	Intermittent Shorts	Interelectrode Leakage	LIFE TEST							
										Early-Hour Stability	100-Hour Performance	1000-Hour Performance	1000-Hour Standby	Volts	Amp	Lgth	Diam
7586	Medium-Mu Triode	General-purpose type capable of providing high gain with low noise in amplifier applications up to 400 Mc. This type can also be supplied to military specification. [▲]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440
7587	Sharp-Cutoff Tetrode	Double-ended, general-purpose type for rf-, if-, and video-amplifier, mixer, and "on-off" control applications. This type can also be supplied to military specification. [▲]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.150	1.050	0.440
7895	High-Mu Triode	General-purpose type capable of providing high gain with low noise in amplifier applications up to 400 Mc. This type can also be supplied to military specification. [▲]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440

8056	Medium-Mu Triode	Low-plate-voltage (12 to 50 volts) type for low-noise rf- and if-amplifier, control, multivibrator, and cathode-follower applications. This type can also be supplied to military specification. [▲]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.3	0.135	0.800	0.440	
8058	High-Mu Triode	Double-ended type for cathode-drive-amplifier applications up to 1200 Mc. Has excellent stability as an oscillator tube over a wide range of frequencies. This type can also be supplied to military specification. [▲]	✓	—	✓	✓	✓	✓	—	—	—	✓	6.3	0.135	0.985	0.440	
8203	Power Triode	Class C rf power amplifier and oscillator, dc pulse amplifier, and frequency multiplier applications.	✓	✓	✓	✓	—	✓	✓	—	—	✓	—	6.3	0.160	0.800	0.440
8393	Medium-Mu Triode	General-purpose type capable of providing high gain with low noise in amplifier applications up to 400 Mc.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13.5	0.060	0.800	0.440	

[▲] A copy of the specification may be obtained from:
Specifications Division, Naval Supply Depot, 5801 Tabor Avenue, Philadelphia, Pa. 19120

RCA NUVISTOR TUBES For Industrial and Military Applications

TYPE	CHARACTERISTICS, CLASS A ₁ AMPLIFIER										MAXIMUM RATINGS Absolute-Maximum Values For Operation at Any Altitude							Maximum Grid-Circuit Resistance ^d Megohms					
	Plate Supply Volts	Plate Volts	Grid Supply Volts	Cathode Resistor Ohms	Grid Resistor Ohms	Amplifi- cation Factor	Plate Resistance Ohms	Transcon- ductance μ mhos	Plate ma.	Cutoff Grid Volts at plate $\mu a = 10^a$	Plate Supply Volts	Plate Volts	Grid Neg. Bias	Volts Pos. Peak	Grid ma.	Cathode ma.	Plate Dissipa- tion Watts	Peak Heater- Cathode Volts	Fixed Bias	Cathode Bias			
7586	75 — —	— 40 26.5	0 0 0	100 — —	— 0.5M 0.5M	35 35 31	3000 3000 4400	11500 11500 7000	10.5 7.5 2.8	-7 — —	330	110	55	4	2	15	1	±100	0.5	1			
7587	125 — —	— — —	0 ^c — —	68 — —	— — —	— — —	0.2M — —	10600 — —	10 — —	-4.5 ^c — —	330	250	55 ^c	2 ^c	2 ^c	20	2.2	±100	0.5 ^c	1 ^c			
Grid-No. 2 supply volts = 50 Grid-No. 2 ma. = 2.7 Grid-No. 2 supply volts = 330, grid-No. 2 volts = 110, grid-No. 2 input = 0.2 watt																							
7895	110	—	0	150	—	64	6800	9400	7	-4	330	110	55	2	2	15	1	±100	0.5	1			
8056	24	—	0	100	—	11.5	1530	7500	8.7	-5@50 μa	—	50	55	2	2	15	0.45	±100	10 ^c	10 ^c			
8058	110	—	0	47	—	70	5600	12400	10	-5	330	150	55	0	0	15	1.5	±100	0.5	1			
8203	75 — — 150	— — — —	0 — — 0	100 — — 560	— — — —	35 — — 30	2700 — — 5000	13000 — — 6000	11.5 — — 7	-6.5 — — -15	DC PULSE AMPLIFIER								±100 ^κ	0.5	1		
											500 ^f	250	100	0	5	18	1						
											FREQUENCY MULTIPLIER ^h												
											400	250	200	0	3	20	1.3	±100 ^κ				0.05 ^κ	0.05 ^κ
											RF AMPLIFIER & Oscillator ^j and RF POWER AMPLIFIER ^k												
400	250	100	0	5	25	1.5	±100 ^κ	0.05 ^κ	0.05 ^κ														
8393	75 — —	— 40 26.5	0 0 0	100 — —	— 0.5M 0.5M	35 35 31	3000 3000 4400	11500 11500 7000	10.5 7.5 2.8	-7 — —	330	110	55	4	2	15	1	±100	0.5	1			

^a Unless otherwise specified.

^f Peak Positive-Pulse Plate Voltage.

^κ CCS or ICAS Conditions.

^h CCS Conditions for operation at frequencies up to 250 Mc.

^c Grid No. 1.

^d For operation at metal-shell temperature of 150°C unless otherwise specified.

^e For operation at metal-shell temperatures up to 150°C.

^j Class-C Telegraphy, CCS Conditions, For operation at frequencies up to 250 Mc.

^k Class-C FM Telephony, CCS Conditions, For operation at frequencies up to 250 Mc.

APPLICATION GUIDE FOR RCA RECEIVING-INDUSTRIAL TUBES

APPLICATIONS:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. AF Power Amplifier 2. Automatic Gain Control 3. Balanced Modulator/
Balanced Mixer 4. Cathode-Coupled,
Direct-Drive (RF) 5. Cathode Drive (RF)
(Grounded-Grid) 6. Cathode Follower 7. Clipper 8. Converter 9. DC Amplifier 10. Delay Circuit 11. Demodulator 12. Detector 13. Driver 14. Frequency Converter 15. Frequency Divider 16. Frequency Multiplier 17. Gated Amplifier 18. Grid-Controlled Rectifier 19. Indicator, Tuning 20. IF Amplifier 21. Inverter 22. Limiter | <ol style="list-style-type: none"> 23. Low-Plate-Voltage Nuvistor
Types 24. Mixer 25. Modulator 26. Multivibrator 27. Oscillator, RF 28. "On-Off" Control 29. Phase Inverter 30. Pulse Amplifier 31. Pulse Modulator 32. RF Power Amplifier 33. RF Voltage Amplifier 34. Rectifier 35. Relay 36. Sweep-Circuit Oscillator 37. Switching 38. Transducer 39. Tubes Operating From
Battery Supplies 40. Video Amplifier 41. Voltage Reference 42. Voltage Regulator 43. Voltage Regulator, Series 44. Volume-Expander-
Compressor |
|---|--|

1. AF POWER AMPLIFIER

CLASS A.

Twin Diode-Medium-Mu Triodes

12SW7^{a, f} 26C6^{b, f}

High-Mu Triode

5719^{d, g}

Power Triodes

955^{e, f, h} 958A^{e, i} 5718^{d, g}
9002^{b, f}

Medium-Mu Twin Triodes

12SX7GT^{a, f, i} 5670WA^{b, g} 5692^{a, f, k}
5670^{b, g, f} 5687^b 6072^{b, g, h}

High-Mu Twin Triodes

6112^{d, e} 6681/12AX7A^b

Twin Power Triode

3A5^{b, f}

For footnotes, see page 159.

APPLICATION GUIDE FOR

Sharp-Cutoff Pentode

1620^a

Power Pentodes

6A4 ^{b,f}	5618 ^b	8077/7054 ^b
6AG7 ^{a,f}	6550 ^a	
6AK6 ^{b,f}	6677/6CL6 ^b	
1621 ^a	7054 ^b	

Beam Power Tubes

12A6 ^a	5902 ^{d,g}	6669/6AQ5A ^b
1622 ^a	6005 ^{b,g}	7061 ^b
1631 ^{a,i}	6005/6AQ5W ^{b,f,g}	
5686 ^{b,g}	6005/6AQ5W/	
5881 ^a	6095 ^{b,g}	

Twin Beam Power Tube

26A7GT^{a,b}

Pentagrid Amplifier

1612^a

Beam Deflection Tube

7360^b

Medium-Mu Twin Triodes

5670 ^{b,f,g}	5670WA ^{b,g}
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Beam Power Tubes

1614 ^a	6005/6AQ5W ^{b,f,g}	7551 ^{b,f}
1619 ^a	6005/6AQ5W/	7558 ^{b,f}
1631 ^{a,i}	6095 ^{b,g}	
6005 ^{b,g}	6669/6AQ5A ^b	

Twin Beam Power Tube

26A7DT^{a,f}

CLASS-AB₂

Beam Power Tube

1631^{a,i}

CLASS-B

Twin Power Triode

1635^a

2. AUTOMATIC GAIN CONTROL

Remote-Cutoff Pentodes

5749 ^{b,g}	5749/6BA6W ^{b,f,g}
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For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

3. BALANCED MODULATOR/BALANCED MIXER

Beam Deflection Tube

7360^b

4. CATHODE-COUPLED, DIRECT-DRIVE (RF)

Medium-Mu Twin Triode

6922^{b, g}

5. CATHODE DRIVE (RF) (GROUNDED-GRID)

High-Mu Triodes

6J4^b

8058^{c, f}

8532/6J4WA^{b, f, g}

6J4WA^{b, f, g, i}

6. CATHODE FOLLOWER

Medium-Mu Triodes

6814^d

8056^{c, f}

8456^{c, j}

Medium-Mu Twin Triodes

5670^{b, f, g}

5965^b

6922^{b, g}

5670WA^{b, g}

6350^b

7044^{b, i}

5687^b

7. CLIPPER

Twin Diodes

5726^{b, g}

5726/6AL5W/

7055^b

5726/6AL5W^{b, f, g}

6097^{b, g}

8. CONVERTER

Pentagrid Converters

6SA7Y^{a, f, L}

12SY7^{a, f}

5750^{b, g}

12SA7Y^{a, f, L}

26D6^{b, f}

For footnotes, see page 159.

APPLICATION GUIDE FOR

9. DC AMPLIFIER		
Sharp-Cutoff Pentode 5693 ^{a, f, k}		
Medium-Mu Twin Triode 5692 ^{a, f, k}		
High-Mu Twin Triode 5691 ^{a, f, k}		
10. DELAY CIRCUIT		
Sharp-Cutoff Pentodes		
6AS6 ^b	5336 ^{d, g}	5725 ^{b, g}
11. DEMODULATOR		
Beam-Deflection Tube 7360 ^b		
12. DETECTOR AUDIO		
Twin Diode-Medium-Mu Triodes 12SW7 ^{a, f} 26C6 ^{b, f}		
VHF		
Twin Diodes		
5726 ^{b, g}	5896 ^{d, g}	6887 ^b
5726/6AL5W ^{b, f, g}	6663/	7055 ^b
5726/6AL5W/	6AL5 ^b	
6097 ^{b, g}		
UHF		
Diodes		
9005 ^{e, f, h}	9006 ^{b, f, h}	
13. DRIVER		
Beam Power Tubes		
5763 ^{b, g}	7551 ^{b, g}	7905 ^b
6417 ^b	7558 ^{b, g}	

For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

14. FREQUENCY CONVERTER

High-Mu Triode

6664/6AB4^b

High-Mu Twin Triode

6679/12AT7^b

Beam-Deflection Tube

7360^b

15. FREQUENCY DIVIDER

Medium-Mu Twin Triodes

5670^{b, g, f}

5963^{b, f}

6211^{b, f}

5670WA^{b, g}

5964^{b, f}

6350^b

5687^b

6197^{b, f}

7044^{b, i}

Power Pentode

6197^{b, f}

16. FREQUENCY MULTIPLIER

FREQUENCY DOUBLER

Power Triodes

8203^c

8382^{c, j}

Power Tetrode

8380^{c, j}

Power Pentodes

5618^b

7054^b

8077/7054^b

Beam Power Tubes

5763^{b, f}

7558^{b, f}

7905^b

7551^{b, f}

6417^b

FREQUENCY TRIPLER

Power Pentode

5618^b

Beam Power Tubes

5763^{b, f}

6417^b

7905^b

Twin Power Pentode

6939^b

For footnotes, see page 159.

APPLICATION GUIDE FOR

17. GATED AMPLIFIER

Sharp-Cutoff Pentodes

6AS6 ^b	5636 ^{d,g}	5725 ^{b,g}
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Pentagrid Amplifier

5915 ^{b,f}

18. GRID-CONTROLLED RECTIFIER

Triodes (Thyratron)

884 ^{a,f}	885 ⁱ	
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Tetrodes (Thyratron)

2D21 ^b	2050 ^a	5727 ^{b,g}
2D21W ^{b,g}	2050A ^a	5727/2D21W ^{b,f,g}
502A ^a	5696 ^{b,f}	6012 ^{a,f}

19. INDICATOR, TUNING

Electron-Ray Tube

1629 ^a

20. IF AMPLIFIER

Medium-Mu Triodes

7586 ^{c,f}	8056 ^{c,f}	
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Medium-Mu Twin Triodes

5687 ^b	6386 ^{b,g}	6922 ^{b,g}
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Sharp-Cutoff Pentodes

6AU6WA ^{b,g,i}	5654/6AK5W ^{b,f,g}	6096 ^{b,g}
6AU6WB ^{b,f,g}	5654/6AK5W/	6136 ^{b,g}
5654 ^{b,g}	6096 ^{b,g}	6676/6CB6A ^b
		7056 ^b

Remote-Cutoff Pentodes

5749 ^{b,g}	5749/6BA6W ^{b,f,g}	6660/6BA6 ^b
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Sharp-Cutoff Tetrode

7587 ^{c,f}

For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

High-Mu Triode

7895^{c,f}

UHF

Sharp-Cutoff Pentodes

5840^{d,g}

6186^{b,g}

6186/6AG5WA^{b,f,g}

6205^{d,g}

Semiremote-Cutoff Pentodes

5899^{d,g}

6206^{d,g}

Remote-Cutoff Pentodes

956^{e,i}

9003^{b,g}

21. INVERTER

Medium-Mu Triode

6814^d

Medium-Mu Twin Triodes

6350^b

7044^{b,i}

22. LIMITER

High-Mu Twin Triode

7898^b

23. LOW-PLATE-VOLTAGE NUVISTOR TYPES FOR HYBRID EQUIPMENT

Medium-Mu Triodes

8056^f

8456^j

24. MIXER

VHF

Medium-Mu Twin Triodes

407A^{b,g}

5670^{b,f,g}

5670WA^{b,g}

5814A^{b,f,g}

5814WA^{b,g}

6386^{b,g}

6922^{b,g}

High-Mu Twin Triodes

12AT7WA^{b,f,g}

12AT7WB^{b,f,g}

6201^{b,g}

7898^b

For footnotes, see page 159.

APPLICATION GUIDE FOR

Medium-Mu Triode—Sharp-Cutoff Pentodes

6678/6U8A^b 7059^b

Sharp-Cutoff Tetrode

7587^{c,f}

Sharp-Cutoff Pentodes

6AS6^b 5725^{b,g}

Pentagrid Converters

12SY7^{a,f} 26D6^{b,g} 5750^{b,g}

UHF

Diode

9005^{e,f,h}

Medium-Mu Twin Triodes

6J6WA^{b,f,g} 6101^{b,g} 6101/6J6WA^{b,g}

Sharp-Cutoff Pentodes

5636^{d,g} 9001^{b,g,h}

Remote-Cutoff Pentodes

956^{e,i} 9003^{b,g}

25. MODULATOR

Beam Power Tubes

7551^{b,g} 7558^{b,g}

Power Pentodes

5618^b 7054^b 8077/7054^b

26. MULTIVIBRATOR

Medium-Mu Triode

8456^{c,j}

Medium-Mu Twin Triodes

12SX7GT ^{a,f,i}	5687 ^b	6350 ^b
407A ^{b,g}	5692 ^{a,f,k}	6680/12AU7A ^b
5670 ^{b,f,g}	5814A ^{b,f,g}	6922 ^{b,g}
5670WA ^{b,g}	5814WA ^{b,g}	7044 ^{b,i}
	6189/12AU7WA ^{b,f,g}	

High-Mu Twin Triodes

12AT7WA ^{b,f,g}	5751W1 ^{b,f,g}	6201 ^{b,g}
5751 ^{b,f,g}	5751WA ^{b,g}	

For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

27. OSCILLATOR, RF

VHF

Power Triodes

1626 ^{a,i}	8203 ^c	8382 ^{c,j}
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High-Mu Triode

6664/6AB4 ^b		
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Medium-Mu Twin Triodes

407A ^{b,g}	5814A ^{b,f,g}	6680/
5670 ^{b,f,g}	5814WA ^{b,g}	12AU7A ^b
5670WA ^{b,g}	6111 ^{d,g}	

High-Mu Twin Triodes

12AT7WA ^{b,f,g}	6201 ^{b,g}	7898 ^b
12AT7WB ^{b,f,g}		

Medium-Mu Triode—Sharp-Cutoff Pentodes

6678/6U8A ^b	7059 ^b	
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Power Tetrode

8380 ^{c,j}		
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Beam Power Tubes

3B4WA ^{b,f,g}	5763 ^{b,f}	7558 ^{b,f}
1614 ^a	6417 ^b	7905 ^b
1619 ^a	7551 ^{b,f}	

Power Pentodes

1613 ^{a,f}	7054 ^b	8077/7054 ^b
5618 ^b		

Pentagrid Converters

12SY7 ^{a,f}	26D6 ^{b,f}	5750 ^{b,g}
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Medium-Mu Triode—Power Pentode

7060 ^b		
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UHF

Medium-Mu Triodes

6F4 ^{e,f}	957 ^{e,i}	8056 ^{c,f}
6L4 ^{e,i}	7586 ^{c,f}	8393 ^c

High-Mu Triodes

8058 ^{c,f}	7895 ^{c,f}	
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Power Triodes

955 ^{e,f,h}	5718 ^{d,g}	9002 ^{b,f}
958A ^{e,i}		

For footnotes, see page 159.

APPLICATION GUIDE FOR

Medium-Mu Twin Triodes

6J6WA ^{b, f, g}	6101 ^{b, g}	6101/6J6WA ^{b, g}
6021 ^{d, g}		

Sharp-Cutoff Tetrode

7587^{c, f}

Twin Power Pentode

6939^b

28. "ON-OFF" CONTROL INVOLVING LONG PERIODS OF OPERATION UNDER CUTOFF CONDITIONS

Twin Diode

6887^b

Medium-Mu Triode

6814^d

Medium-Mu Triodes

5963 ^{b, f}	6211 ^{b, f}	6922 ^{b, g}
5964 ^{b, f}	6350 ^b	7044 ^{b, i}
5965 ^b		

Sharp-Cutoff Pentode

6AS6^b

Power Pentode

6197^{b, f}

Pentagrid Amplifier

5915^{b, f}

29. PHASE INVERTER

Medium-Mu Triode

6814^d

Medium-Mu Twin Triodes

5670 ^{b, f, g}	5814A ^{b, f, g}	6680/
5670WA ^{b, g}	5814WA ^{b, g}	12AU7A ^b
5687 ^b	6189/	6922 ^{b, g}
	12AU7WA ^{b, f, g}	7044 ^{b, i}
	6350 ^b	

High-Mu Twin Triodes

5691 ^{a, f, k}	5751W1 ^{b, f, g}	7058 ^b
5751 ^{b, f, g}	5751WA ^{b, g}	

For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

30. PULSE AMPLIFIER		
Medium-Mu Triode		
6814 ^d		
Medium-Mu Twin Triodes		
5670 ^{b, f, g}	5687 ^b	7044 ^{b, i}
5670WA ^{b, g}	6350 ^b	
31. PULSE MODULATOR		
Twin Diodes		
5726 ^{b, g}	5726/6AL5W/6097 ^{b, g}	
5726/6AL5W ^{b, f, g}		
32. RF POWER AMPLIFIER		
VHF		
Power Triodes		
1626 ^{a, i}	8203 ^c	8382 ^{c, j}
Twin Power Triode		
3A5 ^{b, f}		
Beam Power Tubes		
3B4WA ^{b, f, g}	5686 ^{b, g}	7551 ^{b, f}
1614 ^a	5763 ^{b, f}	7558 ^{b, f}
1619 ^a	6417 ^b	7905 ^b
Medium-Mu Triode—Power Pentode		
7060 ^b		
Power Pentodes		
3A4 ^{b, f}	1613 ^{a, f}	7054 ^b
6AG7Y ^{a, f}	5618 ^b	8077/7054 ^b
UHF		
Twin Power Pentode		
6939 ^b		
Power Triodes		
955 ^{c, h}	5718 ^{d, g}	9002 ^{b, f}
958A ^{e, i}		

For footnotes, see page 159.

33. RF VOLTAGE AMPLIFIER

VHF

Medium-Mu Triodes

5842/417A ^{b,g}	7586 ^{c,f}	8056 ^{c,f}
		8393 ^c

High-Mu Triodes

6664/6AB4 ^b	7895 ^{c,f}	
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Medium-Mu Twin Triodes

407A ^{b,g}	6386 ^{b,g}	6922 ^{b,g}
6111 ^{d,g}		7057 ^b

High-Mu Twin Triode

6679/12AT7 ^b		
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Sharp-Cutoff Tetrodes

7587 ^{c,f}	7717/6CY5 ^{b,h}	
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Sharp-Cutoff Pentodes

1L4 ^{b,f}	5654/	6186/
6AU6WA ^{b,g,i}	6AK5W ^{b,f,g}	6AG5WA ^{b,f,g}
6AU6WB ^{b,f,g}	5654/	6205 ^{d,g}
6SJ7Y ^{a,f}	6AK5W/	6661/
408A ^{a,e}	6096 ^{b,g}	6BH6 ^b
5654 ^{a,e}	5693 ^{a,f,k}	6676/
	6136 ^{b,g}	6CB6A ^b
	6186 ^{b,g}	7056 ^b

Remote-Cutoff Pentodes

26A6 ^{a,f}	5749/6BA6W ^{a,e,f}	6660/6BA6 ^b
5749 ^{a,e}		6662/6BJ6 ^b

Medium-Mu Triode—Power Pentode

7060 ^b		
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UHF

Medium-Mu Triode

6L4 ^{e,i}		
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High-Mu Triodes

6J4 ^b	6J4WA ^{b,f,g,i}	8058 ^{c,f}
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Sharp-Cutoff Pentodes

959 ^{e,h}	5840 ^{d,g}	9001 ^{b,f,h}
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Semiremote-Cutoff Pentodes

5899 ^{d,g}	6206 ^{d,g}	
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Remote-Cutoff Pentodes

956 ^{e,i}	9003 ^{b,f}	
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For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

34. RECTIFIER

POWER

Full Wave Gas Types

0Z4A^{a,h} 83^f

Full Wave Vacuum Types

5R4GY^{a,f,i} 6X4W^{b,f,g} 5690^{a,i,k}
5R4GYB^a

LOW CURRENT

Twin Diodes

5726^{b,g} 5896^{d,g} 7055^b
5726/6AL5W^{b,f,g} 6663/6AL5^b
5726/6AL5W/6097^{b,g}

Single Diodes

9005^{e,f,h} 9006^{b,f,h}

PULSE

Half Wave Vacuum Type

5642^d

35. RELAY

Glow Discharge (Cold-Cathode) Tubes

0A4G^{a,f} 1C21^{a,f} 5823^b

Triodes (Thyratron)

884^{a,f} 885ⁱ

Tetrodes (Thyratron)

2D21^b 2050^a 5727^{b,g}
2D21W^{b,g} 2050A^a 5727/2D21W^{b,f,g}
502A^a 5696^{b,f} 6012^{a,f}

36. SWEEP-CIRCUIT OSCILLATOR

Triodes (Thyratron)

884^{a,f} 885ⁱ

For footnotes, see page 159.

APPLICATION GUIDE FOR

37. SWITCHING

Twin Diode

6887^b

Beam Deflection Tube

7360^b

38. TRANSDUCER

Mechano-Electronic Transducer

5734

39. TUBES OPERATING FROM BATTERY SUPPLIES

NOMINAL-12-VOLT STORAGE BATTERY SYSTEMS

Twin Diode

7055^b

Twin Diode-High-Mu Triode

7724/14GT8^{b, h}

Medium-Mu Twin Triode

7057

High-Mu Twin Triodes

7058^b

7898^b

Medium-Mu Triode—Sharp-Cutoff Pentode

7059^b

Medium-Mu Triode—Power Pentode

.060^b

Sharp-Cutoff Pentode

7056^b

Power Pentodes

7054^b

8077/7054^b

Beam Power Tubes

7061^b

7551^{b, f}

NOMINAL-6-VOLT STORAGE BATTERY SYSTEMS

Twin Diode

6663/6AL5^b

High-Mu Triode

6664/6AB4^b

For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

Medium-Mu Twin Triode

6680/12AU7A^b

High-Mu Twin Triodes

6679/12AT7^b 6681/12AX7A^b

Medium-Mu Triode—Sharp-Cutoff Pentode

6678/6U8A^b

Remote-Cutoff Pentodes

6660/6BA6^b 6662/6BJ6^b

Sharp-Cutoff Pentodes

6661/6BH6^b 6676/6CB6A^b

Power Pentode

6677/6CL6^b

Beam Power Tubes

6669/6AQ5A^b 7905^b

NOMINAL-24-VOLT STORAGE BATTERY SYSTEMS

Twin Diode-Medium-Mu Triode

26C6^{b, f}

Twin Power Triode

6082^a

Remote-Cutoff Pentodes

26A6^{b, f} 26FZ6^{b, L}

Pentagrid Converter

26D6^{b, p}

Twin Beam Power Tube

26A7GT^{a, f}

TYPES OPERATING FROM BATTERY SUPPLIES IN SONOBUOY AND OTHER EXPENDABLE EQUIPMENT

Medium-Mu Triode

8456^{c, j}

High-Mu Triode

8441^{c, j}

Power Triode

8382^{c, j}

Power Tetrode

8380^{c, j}

For footnotes, see page 159.

APPLICATION GUIDE FOR

FILAMENTARY-CATHODE TYPES OPERATING FROM DRY-CELL BATTERY SUPPLIES

Half-Wave Vacuum Rectifier

5642^d

Twin Power Triode

3A5^{b,f}

Sharp-Cutoff Pentode

1L4^{b,f}

Power Pentode

3A4^{b,f}

Beam Power Tube

1619^a

40. VIDEO AMPLIFIER

Sharp-Cutoff Tetrode

7587^{c,f}

Sharp-Cutoff Pentode

5639^{d,g}

Power Pentodes

6AG7Y^{a,f}

6677/6CL6^b

41. VOLTAGE REFERENCE

Glow Discharge (Cold-Cathode) Tubes

5651^{b,g,i}

5651A^{b,g}

5651WA^{b,f,g}

42. VOLTAGE REGULATOR

Glow-Discharge (Cold-Cathode) Tubes

OA2^b

OC3^{a,f}

6074^{b,g}

OA2WA^{b,f,g}

OC3A^a

6074/OB2^{b,g}

OA3^{a,f}

OD3^{a,f}

6626/OA2WA^{b,g}

OA3A^a

OD3A^a

OB2^{b,f}

991

OB2WA^{b,f,g}

6073^{b,g}

OC2^b

6073/OA2^{b,g}

For footnotes, see page 159.

RCA RECEIVING-INDUSTRIAL TUBES

43. VOLTAGE REGULATOR, SERIES

Low-Mu Twin Triodes

6AS7G^{a,f}
6080^a

6080WA^{a,f,g}
6082^a

6336A^a

Beam Power Tube

5902^{d,g}

44. VOLUME-EXPANDER-COMPRESSOR

Pentagrid Mixer

1612^a

FOOTNOTES FOR APPLICATION GUIDE

- ^a Octal Type
- ^b Miniature Type
- ^c Nuvistor Type
- ^d Subminiature Type
- ^e Acorn Type
- ^f Available to meet applicable military specification. (A copy of the applicable Military Specification may be obtained from the Specifications Division, Naval Supply Depot, 5801 Tabor Ave., Philadelphia 20, Pa.)
- ^g Premium Type
- ^h For replacement purposes only
- ⁱ Type limited to extent of inventory
- ^j Type has limited application and is not available from RCA Industrial Tube Distributors. For Further information, contact nearest RCA Equipment Sales Office.
- ^k "Special Red" Type
- ^L Type limited to government end use

RCA INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES

This Interchangeability Directory of Industrial electron tubes has been prepared to assist distributors, dealers, servicemen, and other users in selecting the proper RCA tube type as a replacement. This directory covers more than 2100 basic tube types. Classes of tubes included are shown below in the *Key to Symbols*.

The primary means of identifying a tube type is the basic designation. The designation may consist of a number, or a combination of letters and digits. In addition, many manufacturers utilize prefixes composed of one or more letters.

Because the majority of industrial tube types employ industry-assigned type designations, *this directory has been prepared without distinctive manufacturers' identification prefixes*. A tube having an industry-assigned type designation, made by one manufacturer is directly interchangeable with a type having the same designation made by another manufacturer, regardless of the manufacturer's prefix. For example the GL-829B, DR-829B, ML-829B, RK-829B, and WL-829B are different manufacturer's designations for the industry-assigned designation 829B. For this reason the prefixes have been dropped and the type is only listed as the 829B in this directory.

In those cases where manufacturers have assigned their own type numbers, one manufacturer may have assigned the same designation to a tube type as that of another manufacturer for an entirely different tube type. In such cases, the manufacturer's prefix is retained to distinguish between the types. For example, the number 54 is used by one manufacturer to identify a phototube, and by another manufacturer to identify a power tube. Therefore, to permit product identifica-

tion, it is necessary to retain the manufacturer's prefix as an essential part of the basic type number. Hence, the phototube is identified as CE54, and the power tube as HK54.

Basic designations shown in the first column of the tabulation are listed in numerical sequence. Type designations having letter prefixes, whether they indicate the manufacturer or are an integral part of the designation, are listed in the appropriate sequence of the first complete number of the type designation. For example, type designation CL-807 follows 807, and EL3C follows 3BP1A, but 5-125A follows designation QB5/2000. Type designations consisting entirely of letters are listed in alphabetical order at the end of the directory.

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

HOW TO USE

1. Look in Column 1 for the basic designation of the type to be replaced.
2. Look in Column 2 for the corresponding RCA Direct Replacement Type.
3. If no RCA Direct Replacement Type is shown, look in column 3 for an RCA Similar Type. Such a type usually is not directly interchangeable with the type to be replaced because of mechanical and/or electrical differences. Tube data should, therefore, be checked before using an RCA Similar Type as a replacement.

EXPLANATIONS OF COLUMNS 2 & 3

- * RCA types shown in this column are direct replacements for corresponding types to be replaced.
- † RCA types shown in this column are not directly interchangeable with the types to be replaced because of differences in mechanical and/or electrical characteristics. For more information as to degree of interchangeability, refer to respective tube data.

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
OA2	OA2	OA2WA, OD3, OD3A, 6073, 6073/OA2, 6626/OA2WA	TD1-100A QV1-150A	7034/ 4X150A 5559	2C39A
OA2WA	OA2WA	OA2, OD3, OD3A, 6073, 6073/OA2, 6626/OA2WA	XG1-2500 CE1A/B C1B C1B/A CE1C		918 3C23 3C23
OA3 OA3/VR75 OA3A OA4G OB2	OA3 OA3, OA3A OA3A OA4G OB2	OC2 OC2 OA3, OC2 OB2WA, OC3, OC3A, 6074, 6074/OB2	1C21 CE1D 1EP1 1EP2 1EP11 1F2 1G45P	918 1C21 868 1EP1 1EP2 1EP11 1L4 6130/3C45	
OB2WA	OB2WA	OB2, OC3, OC3A, 6074, 6074/OB2	C1J/A C1K C1K/6014	C1K/6014 C1K/6014	3C23
OC2 OC3	OC2 OC3, OC3A	OA3, OA3A OB2, OB2WA, 6074, 6074/OB2	1L4 1P21 1P22 1P23 1P28 1P29 1P29/FJ401	1L4 1P21 1P22 868 1P28 1P29 1P29	
OC3/VR105	OC3, OC3A,	OB2, OB2WA, 6074, 6074/OB2	1P32 1P37 1P39 1P40 1P41 1P42	1P28 1P29 1P29	
OC3A	OC3A	OB2, OB2WA, OC3, 6074, 6074/OB2	CE1VA/B	927 1P37 1P39 1P40 1P41 1P42	
OC3W		OB2, OB2WA, OC3, OC3A, 6074, 6074/OB2		1P40 1P41 1P42	917, 919
OD3	OD3, OD3A	OA2, OA2WA, 6073, 6073/OA2	DQ2 DX2 QQE02/5	3B28 6939	866A
OD3/VR150	OD3, OD3A	OA2, OA2WA, 6073, 6073/OA2	DE2/200 QEL2/200 QB2/250 QEL2/275	7580 813 7203/ 4CX250B 7204/ 4CX250F	866A
OD3A	OD3A	OA2, OA2WA, OD3, 6073, 6073/OA2	QEL2/275H		
OD3W		OA2, OA2WA, OD3, OD3A, 6073, 6073/OA2	QQV02-6 P2-12 QY2-100 2-150D QV2-250B	6939 832A 813	
GXU1 TQ1/2 QEL1/150	3B28 3C23 7034/ 4X150A		XGQ2-6400 2AP1	7203/ 4CX250B	8020
CT1/2500	5559			2AP1A	105

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
2AP1A	2AP1A		3-75A3		8005
2B29	829B		QY3-125	6155	
2B32	832A		RR3-250	3B28	
2B46	6146A, 6146B/ 8298A		RG3-250A		866A 833A
	2BP1		3-450A4		
2BP1	2BP1		3A4	3A4	
2BP11	2BP11		3A5	3A5	
CE2C		6953	3AP1	3AP1A	
2C22		6J5	3AP1A	3AP1A	
2C38	2C39A		3AQP1	3AQP1	
2C39	2C39A		3B4WA	3B4WA	
2C39A	2C39A		3B24W		8020
2C39B		2C39A	3B25	3B25	
2C39WA	2C39WA		3B27		836
2C40	2C40, 2C40A	4037	3B28	3B28	
	2C40A	4037	3BP1	3BP1A	
2C40A	2C40A	4037	3BP1A	3BP1A	
2C43	2C43				
2C51	5670	5670WA	EL3C		604/7014 812A
			3C21		
CE2D		1P40, 930	3C23	3C23	
2D21	2D21	2D21W, 5727, 5727/2D21W	3C33	3C33	
		2D21, 5727, 5727/2D21W	3C45	6130/3C45	2C39A, 6897
2D21W	2D21W		3CX100A5		
			3D22	3D22A	
2E24	2E24		3D22A	3D22A	
2E25		2E24	3E29	3E29	
2E26	2E26		3E29A	3E29A	
2E30		5618	3H150J		2C39A
2F21	2F21		C3J	C3J/5632	
2H28	3B28		C3J/5632	C3J/5632	
2H66	866A		C3J/A	C3JA/5684	
2K26	2K26		C3JA/5684	C3JA/5684	
			C3JL	C3JL	
CL-2P		7412	3JP1	3JP1	
2V/400A	866A		3JP7	3JP7	
2X2/879	2X2A		3KP1	3KP1	
2X2A	2X2A		3KP7	3KP7	
2XM600A	866A		3KP11	3KP11	
2Y2	2X2A		3KP16	3KP16	
QE03/10	5763		3RP1	3RP1	
QB3/200	8165/4-65A				
QB3/300	6155		PD3L		SQ2516
QB3/300GA	4-125A/ 4D21		3RP1A	3RP1A	
	5763		3WP1	3WP1	
QV03-12		809	3WP11	3WP11	
3-25A3		6130/3C45	3X100A5	2C39A	
XH3-045		811A	3X2500A3		5762/7C24
3-50A4			3X3000F1	8239/ 3X3000F1	
3-50G2	834			6156	
QY3-65	8165/4-65A		QB3.5/750	872A	
			DQ4		

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
QQE04/20		832A	4D21/	4-125A/	
QBL4/800	4X500A		4-125A	4D21	
DCX4/1000	3B28		4D21A		4-125A/4D21
DCG4/1000G		866A	4D32		4-125A/4D21
QB4/1100GA	8438/ 4-400A		4E27/8001		4E27A/ 5-125B
QQV04-15	832A		4E27A	4E27A/ 5-125B	
QQV04-20	815		4E27A/ 5-125B	4E27A/ 5-125B	
4-65A	8165/4-65A		4F15R	7034/ 4X150A	
4-125A	4-125A/ 4D21		4F21		6155
4-125A/ 4D21	4-125A/ 4D21		4H72	872A	
4-125A/ 6155	6155		4H135M	7034/ 4X150A	
QY4-250	6156		4X150A	7034/ 4X150A	
4-250A	4-250A/ 5D22		4X150D	7035/ 4X150D	
4-250A/ 5D22	4-250A/ 5D22		4X150G	7203/ 4CX250B	
4-250A/ 6156	6156		4X250B	7204/ 4CX250F	
TY4-350	833A		4X250F	4X500A	
QY4-400		8438/4-400A	4X500A	4Y25	
4-400A	8438/ 4-400A		4Y25	807	
QY4-500A	4X500A		NSL-5		7163
4-750A		8166/4-1000A	NSL-5A		7163
4-1000A	8166/ 4-1000A		QE05/40	6146A, 6146B/ 8298A	
CE4A/B		1P40, 930	QE05/40F	6883, 6883B/ 8032A/ 8552	
4AP10	4AP10		QE05/40H	6159, 6159B	
4B13	813		QB5/2000		8166/4-1000A
4B24		604/7014	DCG5/5000GB	872A	
4B32		872A	DCG5/5000GS	8008	
CE4C		1P40, 930	QQV5-P10	3E29	
4C21		8005	QV05-25	807	
4C22		8005	5-125B	4E27A/ 5-125B	
4C25		812A	XG5-500	5557	
4CX250B	7203/ 4CX250B		CE5A/B		927
4CX250F	7204/ 4CX250F		5ABP1	5ABP1	
4CX1000A	8168/ 4CX1000A		5ABP7	5ABP7	
4CX5000A	8170/ 4CX5000A		5ABP11	5ABP11	
CE4D	1P40, 930		5ADP1	5ADP1	
4D21	4-125A/ 4D21				

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
5ADP7		5ABP7	QV06-20	6146A,	
5ADP11		5ABP11		6146B/	
5AGP1		5ABP1	QV06-20B	8298A	
5AGP7		5ABP7		6883,	
5AGP11		5ABP11		6883B/	
5AUP24	5AUP24		QV06-20C	8032/	6159, 6159B
5AZP4	5AZP4			8552	
5B250A	807		NSL-6A		4404
5BP1	5BP1A		6AC7W	6AC7W	
5BP1A	5BP1A		6AC7Y	6AC7W	
CE5C		927	6AG5WA	6186/	6186
5C21	C6J/5C21	760/6858	6AG7Y	6AG5WA	
5C21/C6J	C6J/5C21	760/6858	6AK5W	6AG7Y	
5C24		8000	6AK5W	5654/	5654, 5654/
5C100A	813			6AK5W	6AK5W/
5CNP16		5ZP16	6AK6	6AK6	6096
5CP1	5CP1A		6AR6		6BG6GA
5CP1A	5CP1A		6AS6	6AS6	5725
5CP11A	5CP11A		6AS7G	6AS7G	6080, 6080WA
5CP12	5CP12		6AS7GTB		6AS7G, 6080,
CE5D		927			6080WA
5D22	4-250A/ 5D22		6AU6WA	6AU6WA	6136
		5UP1	6AU6WB	6AU6WB	
5DEP1		5UP7	6B		5561
5DEP7		5UP11	EL6B	635/7019	
5DEP11			6BA6W	5749/	5749
5F22	4-250A/ 5D22		EL6BL	6BA6W	
5F22A	6156		6C24	635L/7020	5786
5FP4A	5FP4A		6D22		4X500A
5FP7A	5FP7A		6F4	6F4	
5FP7B		5FP7A	C6J	C6J/5C21	
5FP15A	5FP15A		C6J/5C21	C6J/5C21	
5H6		4404	C6J/A	C6JA/5685	
			6J4	6J4, 8532	6J4WA
5H6A		SQ2503	6J4WA	6J4WA,	6J4
5H69A	869B			8532	
5HP1A		5BP1A	6J4WB	8532	6J4, 6J4WA
5R4GY	5R4GY	5R4GYB	6J6WA	6J6WA	5964, 6101,
5R4GYB	5R4GYB	5R4GY			6101/6J6WA
5UP1	5UP1		C6JA/5685	C6JA/5685	
5UP7	5UP7		6L4	6L4	
5UP11	5UP11		6Q5G	884	
5WP11	5WP11		6SJ7WGT		6SJ7Y, 5693
5WP15	5WP15		6SJ7Y	6SJ7Y	5693
5ZP16	5ZP16		6SL7WGT		5691
5ZP24		5AUP24	6SN7GTY	6SN7GTY	5692
DQ6	869B		6X4W	6X4W	
NSL-6		4404			
WT6	6L6				
QE06/50	807				

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
NSL-7		4403	12AT7WB	12AT7WB	
PR-7		SQ2508	12AU7WA	6189/ 12AU7WA	5814A, 5814WA
DB7-36		3WP11			
DG7-36		3WP1	12SW7	12SW7	
QQV07-40		829B	12SX7GT	12SX7GT	
NSL-7A		4403	12SY7	12SY7	
7BP7	7BP7A		DG13-32	5UP1	
7BP7A	7BP7A		DG13-34	5ADP1	
7BP7B		7BP7A	14BAP4	14BAP4	
7C24	5762/7C24		NSL-16		SQ2509
7C25		5762/7C24	TT16	4-125A/ 4D21	
7C27		5762/7C24			6155
7C30		5762/7C24	TT16/D		
7CP4	7CP4		C16J	C16J/5665	
			C16J/5665	C16J/5665	
7JP1	7VP1		NSL-16P		SQ2509
7MP7	7MP7		17	5557	
7NP4	7NP4		DR17	5557	
7TP4	7TP4		TT17	5557	
7VP1	7VP1		FG17/5557/ NL715	5557	
7VP31	7VP31		PT-17-G1		927
7WP4	7WP4		P17A		807
PJ8	5556		17DWP4	17DWP4	
8D21	8D21		HV18		810
8HP4	8HP4	8HP4	NSL-19		SQ2509
8JP4		8HP4	NSL-19P		SQ2509
8MP4			FV20		8000
8NP4	8NP4		K20		SQ2502
8QP4	8QP4		TZ20		809
CdS-9		7163	RK20A		814
CdS-9C		SQ2503	OS20F		8093A
9C21	9C21		KD21	OA3, OA3A	
9C22	9C22	5671	PJ21		5556
9C25	9C25		RL21	2D21	
CdS-9F		4404	RX21		872A
CdS-9M		4448	CE21A/B		920
MS-9S	931A		CE21C		920
MS-9SY	1P28				
TT10	813		CE21D	920	
10SP4	10SP4		21EYP4	21EYP4	
10Y	801A		CE2		1P41
BW11	834		PJ22		917, 919
ORP-11		4425	UEX22		1616
RK11		809	CEB22C		1P41
CE11VA/B		917	CEB22D	1P41	
CE11VC		917	KU23		810
CE11VD	917		PJ23	868	
HV12		8000	RK23		802
RK12		809	CE23A/B		923
12A6	12A6		CE23C		923
12AT7WA	12AT7WA	6201			

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
CE23D	923		35T		812A
BK24	5552A		35TG		812A
KD24	OC3, OC3A		RK36		8000
24G		812A	CE36A/B		927
ATS25		807	CE36C		927
HY25		809	CE36D	927	
KD25	OD3, OD3A		RK37		812A
RK25	802		RK38		810
PT-25-G2		918	RK39	807	
CE25A/B		927	40		812A
CEB25A/B		927	G40	869B	
RK25B	802		OS40		5820A
CE25C		927	TZ40		811A
CEB25C		927	V40	8020	
CE25D	927		OS40F		7293A
CEB25D	927		VT-40L		SQ2520
MKY-25I		7163	HY40Z		811A
25T		809	CE41	921	
CV26		813	RK41		807
26A6	26A6	26FZ6	BK42		5551A
26A7GT	26A7GT		CE42	922	
26C6	26C6		KU42	6130/3C45	
26D6	26D6		42L500		SQ2509
26FZ6	26FZ6		NSL-45		7163
			RK45		837
RPY27		4403	B46		SQ2520
FG27A		5559	NSL-46		4404
RK28	803		RK46		814
RK28A	803		VT46A		866A
CE29Q		5653	NSL-47		4403
CE29R	929		RK47	814	
			RK48A		813
ORP-30		SQ2502	SR50		917
TG30		6130/3C45	UH50	834	
CE30A/B		930	R50A		1P41
CE30C		930	HD51	OA2	
CE30D	930				
CE30VA/B		925	RK51		830B
CE30VC		925	R51A		927
CE30VD	925		HY51B		8005
30Z		809	R51B		5583
RK31		830B	R51BV		929
CE31VA/B		919	51T		8005
CE31VC		919	HY51Z		812A
CE31VD	919		HD52	OB2	
CV32		866A	NSL-52		SQ2520
EN32	2050A		RK52		811A
FG32	5558		NSL-53		SQ2520
WL32	5558		SR53		917
BK34	5553B		CE54		1P41
CE34Q		934	HK54		812A
CE34R	934				

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
NSL-54		SQ2520	83	83	
NSL-55		SQ2521	FP85		8020
T55		8005	FP85A		8020
NSL-56		SQ2521	R85A		928
57		5559	VT88A(Br)		832A
FG57	5559		E88CC	6922	
HY57		812A	DCC90	3A5	
NSL-57		SQ2521	EN91	2D21	
RK57	805		E91AA	5726	
WL57	5559		AA91E	5726	
R59A		918	E91N	5727	
R59B		1P37	CE91Q		1P37
CE59R	5581		CE91R	1P37	
R59TAV		917	DF92	1L4	
HF60		8005	EN92	5696	
HY60		807	DL93	3A4	
			FG95	5560	
ORP-60		7412	E95F	5654	
SK60		868	V97-1		7163
T60		8005	V97-2		4448
R60A		920	V97-3		4404
PM61	7764				
HY61/807	807		CE98	5582	
R61A		930	DL98		3B4WA
R61AV		925	HF100		8005
R61B		5581	UE100		810
R61BV		1P39	VT100		807
RK63		8000	WTT-100	6X4	
RK63A		8000	100A		SQ2521
CE64Q		5583	100B		SQ2521
CE64R	5583		100C		4403
NSL-65		SQ2508	100R	8020	
NSL-66		SQ2508	100TH		810
			100TL		8000
NSL-67		SQ2508	PM101	7767	
HY69		1624	VT101		837
DY70	5642		101A		SQ2521
EC70	5718		101B		SQ2520
ECC70	6021		101T		SQ2508
V70D		8005			
EC71	5718		WTT-102	5Y3GT	
EF71	5899		ESU103	3B28	
EL71	5902		WTT-103	6H6	
R71A		930	104	5561	
R71AV		925	WTT-104	575A	
EF72	5840		105	105	
75PC11		7293A	WTT-106	C3J/5632	
75PC12		8093A	WTT-108	3C23	
75TH		8005	108C1	OB2	
FG81A		3C23	110B		SQ2520
E81CC	6201		WTT-111	5559	
CC81E	12AT7WA		111H		812A

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
WTT-112	632B, 5560		150T		8000
WTT-113	676		GL152		805
WTT-117	5557		152TH		8000
VT118		832A	152TL		8000
WTT-118	105		BW165		5771
WTT-119	172		172	172	
HF120		8005	PL172		8166/4-1000A
AE122		SL2206	PL175A		8438/4-400A
WTT-122	6SJ7		PL177A		8165/4-65A
WTT-123	6V6		C180	832A	
F123A		8000	E182F	5847/404A	
CV124		807	BR191B	5762/7C24	
WTT-124	7K7		200		8000
HF125		8005	HF201		8000
T125		810	PB201		7412
WTT-125	6N7GT		HF201A		8000
E125A	6155		VT202	9002	
WTT-126	50B5		PB203		SQ2508
WTT-127	833A		VT203	9003	
F127A		810	203A		8005
WTT-128	6K8		HD203A		805
BW129	889A		203H		8005
WTT-129	6J5GT		PB204		4425
F129B		889A	PB205		4423
WTT-130	6G6G		205D		801A
WTT-131	6C6		205E		801A
WTT-132	0A4G		A206	579B	
WTT-133		3C23	207	207	
CdS-134		7163	WT210-0001	2D21	2D21W, 5727, 5727/2D21W
WTT-134	C16J/5665				
PTW135		4427	WT210-0003	884	
WTT-135	5U4G		WT210-0004	2050	
VT136		1625	WT210-0006	6H6	
WTT-136	2AP1A		WT210-0007		6L6
VT137	1626		WT210-0008	866A	
WTT-137	3AP1A		WT210-0009	84/6Z4	
VT138	1629		WT210-0011	0C3	
VT139	0D3, 0D3A		WT210-0012	80	
WTT-139		760/6858	WT210-0013	5Z3	
HF140		8005	WT210-0015	5557	
C143	813		WT210-0018	0D3	
143D		2X2A	WT210-0019	83	
C144	829B		WT210-0021	6X5GT	
VT144		813	WT210-0025	11726GT	
GL146		805	WT210-0027	872A	
WTT-149	172		WT210-0028	3Q5GT	
QS150/40	0D3, 0D3A		WT210-0029	6C5	
150C1	0A2		WT210-0031	902A	
150C2	0A2		WT210-0037	117L7/	
150C3	0D3, 0D3A			M7GT	

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
WT210-0038	172		AH213	869B	
WT210-0040	6X4		CE213	615/7018	5558
WT210-0042	5Y3GT		214E		836
WT210-0043	C3J/5632		CV216	OD3, OD3A	
WT210-0044	575A		AH217	872A	
WT210-0045	892		VT217		811A
WT210-0048	5U4G		217A		80
WT210-0052	2AP1A		217C		836
WT210-0053	3AP1A		220C		892
WT210-0056	5559		220CA		892R
WT210-0057	5560		HF220R		5671
WT210-0058	676		AX224	3B28	
WT210-0060	OZ4		CE224		604/7014
WT210-0061		117N7GT	Z225	866A	
WT210-0062	5557		Z225/866A		866A
WT210-0067		3C23	FX227		6130/3C45
WT210-0069	5557				
			ECC230	6080	
WT210-0070	550		232C		892
WT210-0071	5551A		233		880
WT210-0072	5552A		FG235A	5552A	
WT210-0073	5553B		241B		833A
WT210-0074	105		242A		8005
WT210-0078	172		242B		8005
WT210-0079	105		242C		8005
WT210-0081	6SJ7		249A		866A
WT210-0082	6V6		249B		866A
WT210-0083	7K7		249C		866A
WT210-0084	6N7, 6N7GT		HF250		8000
WT210-0085	50B5		RG250/3000	866A	
WT210-0086	833A		E250A	6156	
WT210-0087	6K8		250TH		833A
WT210-0088	6J5, 6J5GT		250TL		833A
WT210-0089	6G6G		HK254		810
WT210-0090	6C6		254B		810
WT210-0106	C3J/5632	710/6011	PTW255		6326
WT210-0116	5560		255A		869B
WT210-0147	5552A		255B		869B
WT210-0149	5551A		HK257		4E27A/ 5-125B
WT210-0152	5553B				4E27A/ 5-125B
WT210-0158	5551A		257B		
WT210-0159	5552A				
WT210-0165	5553B		FG258A	5553B	
WT210-0179	760/6858		258B		866A
WT210-0188	C1K/6014		FG258B	5553B	
WT210-0234	C16J/5665		260A		860
211		8005	WT262	866A	
211B		8005	266B		857B
211D		8005	266C		857B
211E		8005	VT267		8020
211H		8005	267B		872A

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
268A		801A	341AA		891R
WT270	80		342A		892
WT270X	523		342B		8005
FG271	5551A		343A		892
272	5557		348A		1620
WT272	5557		349A		6F6
274A		5R4GY	350A	807	
274B	5R4GY		350B		807
284A		845	351A		6X5GT
284B		845	352A		6R7
284D		845			
VT286		832A	F353/A		872A
287A		5557	353A	872A	
WT294	OD3		354C		8000
295A		8005	HK354D		8000
300		8005	354E		810
Z300T	OA4G		HK354F		810
WT301	83		356		5771
301A		83	356A		807
CE302		3C23	356B		812A
			357A		833A
VT-303		SQ2508	357B		833A
303A		8005	359A		1C21
VT-304		SQ2508	363A		892
304B	834				
304H		833A	F366A		866A
304T		833A	367A		673
CE306		C6JA/5685	369B		869B
307A		807	371B		8020
F307A	207		CV372		6130/3C45
WT308	6X5GT		375A		575A
CE309	5557		WT377	117Z6GT	
310		801A	381	2C39A	
310A		6C6	384D		845
310B		1620	WT389	3Q5GT	
CE311	3C23		WT390	6C5	
UE311		8005	393A		3C23
			394A		627
UE311CH		8000	395A		5823
312A		828			
313C		1C21	FJ401	1P29	7412
315A		673	PD401		SQ2521
UE317C		836	VT-401		7412
319A		872A	CL-402		SQ2521
320B		892	VT-402		SQ2508
321A		673	CL-402S		SQ2508
322A	803		PD403	6AK5	SQ2508
323B		3C23	403A		6AK5W, 5654,
328A		6C6			5654/68K5W,
331A	805				5654/
332A		803			6AK5W/
339A		807			6096

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
403B		6AK5, 6AK5W, 5654, 5654/ 6AK5W, 5654/ 6AK5W/ 6096	604L CL-605 CL-605L CL-607 615 615/7018 618 CV618 618L 618P CV621 627 CV627 CV628 KU628 629 630 630A 631	615/7018 615/7018	604/7014 7412 4402 7412 5558 5561 83 5561 5561 801A 810 811A 5559 2050A 2050A 828 829B 632B 632B 677 635/7019 833A 5561 635/7019 635L/7020 635L/7020 635/7019 836 837 872A 5552A 5552A 5551A 5551A 5553B 5553B 5552A 5551A 5553B 1625 672A 672A 673 676 677 5563A 5550
404A CL-405 FJ405 CL-405S CL-407 407A CL-407S 408A	5847/404A 407A 408A	7412 935 4402 7412 SQ2508			
415 417A 421A	5550 5842/417A				
423A B425 A425A WTT-439 450TH 451 460 463 468 471 473 CV475 CV477 481 481B 502A	172 8020	6AS7G, 6080, 6080WA 5651 SQ2521 SQ2521 833A 8000 8000 810 8005 5762/7C24	CV631 CV632 632A 632B KU634 635 CV635 635/7019 635L 635L/7020 635P CV636 CV637 CV642 651 651/656 652 652/657 655 655/658 656 657 658 CV659 672 672A 673 676 677 678 681		
CL-505 CL-505L CL-507 NSL-531 546 VH550A VX550A NSL-561 ZP572 575A 578 579B CL-602 604 604/7014	866A 3B28 2C39A 575A 579B 604/7014 604/7014	4423 4425 4423 4425 5696 4423 8020 7412			

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
681/686	5550		801A	801A	
RS685	6155		801A/801	801A	
686	5550		ECC801S	6201	
CV686	OC3, OC3A		802	802	
RS686	6156		CL-802		7163
WT699	5550		ECC802	12AU7WA	
CdS-701		SQ2521	ECC802S	6189/ 12AU7WA	
CdS-702		SQ2521	803	803	
CdS-703		SQ2521	804		814
CdS-704		SQ2520	805	805	
CL-705		SQ2508	CL-805		4403
CL-707		SQ2508	806		8000
710	710/6011	676	807	807	
CdS-710		SQ2521	CL-807		4403
710/6011	710/6011	676	CV807	3A4	
710L		710/6011			
CdS-711		SQ2521	P807	7293A	
			808		812A
CdS-712		SQ2521	809	809	
714	714/7021	5557	P809		8093A
714/7021	714/7021	5557	810	810	
715	5557		P810		6326
715/5557	5557		811	811A	
715/5557/ FG17	5557		P811		7295B
716	716/6885		811A	811A	
716/6885	716/6885		812	812A	
EF730	5636		P812		7389B
EF731	5899		812A	812A	
EF732	5840		UE812H		8005
EF734	6205		813	813	
WL734		917	P813		6326
WL735	868		814	814	
WL741	923		814/RK47	814	
CV752	OA4G		815	815	
760	760/6858		816	816	
760/6858	760/6858				
760L		760/6858	P816	5820A	
760P		760/6858	P817		7513
			P822	7389B	
WL762		1947	T822		810
WL767		935	826		812A, 829B
WL773		935	827R	827R	
WL775		935	828	828	
778		760/6858	829	829B	
778L		760/6858	829A	3E29	
778P		760/6858	829P	829B	
CV788		832A	830	830B	
CV797	2D21		830B	830B	
800		812A	832	832A	
801	801A		832A	832A	
ECC801	6201		833	833A	

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
833A	833A		EAA901S	5726	
834	834		902	902A	
836	836		CdS-902		4448
837	837		902A	902A	
838		812A	CdS-903		4453
841		809	CdS-904		7163
845	845		EF905	5654	
854H		833A	UE905	805	
S856	OA2		906P1	3AP1A	
857	857B		CL-907		SQ2508
857B	857B		CL-907N		SQ2508
859		9C21	CdS-910		7163
860		8072	CdS-911		4448
S860	OB2		CdS-912		4453
861		8438/4-400A			
865		807	CdS-913		4403
866	866A		917	917	
866A	866A		918	918	
			919	919	
866A/866	866A		920	920	
866AX		866A	921	921	
866JR		816	922	922	
868	868		923	923	
868/PJ23	868		924		1P41
869A	869B		925	925	
869B	869B		926	926	
872	872A		927	927	
872A	872A		928	928	
872A/872	872A		929	929, 1P39	
F872B		872A	930	930, 1P40	
T875A	575A		UE930	830B	
878		8013A	UE930B	830B	
879	2X2A		931	931A	
880	880		931A	931A	
884	884		931VA	931VA	
885	885		934	934	
889	889A		935	935	
			B935		4410
889A	889A				
889R	889RA		UE945	845	
889RA	889RA		955	955	
891	891	892	957	957	
891R	891R		958A	958A	
892	892		959	959	
892R	892R		UE966	866A	
893		9C21	UE966A	866A	
893A		9C21	967	5557	
893AR		5671	UE972	872A	
UE893RA		9C22	UE972A	872A	
Z900T	5823		UE973		677
CdS-901		7163	UE975A		575A
EAA901	5726		991	991	

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
STE1000/ 2.5/15	5559		1623		809
RG1000/3000	872A		1624	1624	
NL1001		5550	1625	1625	
RS1002	6156		1626	1626	
NL1005		5551A	1629	1629	
RS1007	6155		1631	1631	
SI020GE		SL2205	1635	1635	
B1035		4453	1640	6405/1640	
1051		5551A	1645A	1645A	
1051A		5551A	1699	1699	
1052		5552A	1701	5557	
1052A		5552A	1702		5563A
			CV1758	1L4	
			D-1767		4448
NL1053	5553B		1802P1	5BP1A	
NL1053A	5553B		CV1832	OA2	
Y1100		4424	CV1833	OB2	
CR1101		6181	A1834	6AS7G	
H1102AP20		2053			
C1108	6155		CV1835	3B28	
R1111		1947	1852	6AC7	
C1112	6156		1853	6AB7	
CV1144		5557	1854		7513
Y1144		4453	1855		7539
QS1205	OA3, OA3A		1858	1858	
QS1206	OC3, OC3A		1899		2F21
QS1207	OA2		CV1905		8165/4-65A
QS1208	OB2		K1927		7326
QS1210	OA2WA		1946	1946	
QS1211	OB2WA		1947	1947	
1257	5559		1949	1949	
VC1258		6130/3C45	1950		1949
			E1955	2D21	
1266		5823	CV1992	OA4G	
1267		2A3	N2009		SL2205
RL1267	OA4G		2020	2020	
1280		14C7			
K1305		6217	S2020GE		SL2206
1337		8134	2022	2022	
K1428		2020	2028	2028	
CV1449		872A	2029	2029	
E1485	3A4		2031	2031	
CV1572	807		2039	6950/2039	
1603		1620, 5879	2041	2041	
1612	1612		2048	2048	2048A
1613	1613		2048A	2048A	
1614	1614		2050	2050	2050A
1616	1616		2050A	2050A	2050
1619	1619		2051	2050	2050A
1620	1620		2053	2053	
1621	1621		2054	2054	
1622	1622		2054V1	2054	

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
2067	2067		CV2967		8020
2100A	8020		CV2984	6080	
K2112		2053	3069	866A	
CV2129	5763		3070	872A	
CV2130	6155		CV3508	6201	
CV2131	6156		CV3512	5696	
SL2205	SL2205		CV3523		6146A, 6146B/ 8298A
SL2206	SL2206				
CV2240		3B4WA	3572	866A	
CV2241	5642		CV3599		3E29
CV2383		5762/7C24	CV3789	5842/417A	
CV2390	3A4		CV3798	0A3, 0A3A	
QS2404	5726		3861B	7034/ 4X150A	
QS2406	6201			813	
QA2408	5692		3874A		
CV2432	6205				
CV2466	6939		CV3879		8438/4-400A
CV2492	6922		3885A	3B28	
			CV3928	5636	
SQ2500	SQ2500		CV3929	5840	
SQ2501	SQ2501		CV3930	5718	
SQ2502	SQ2502		CV3946		3WP1
SQ2503	SQ2503		CV3986	6021	
SQ2504	SQ2504		CV3990		2E26
SQ2505	SQ2505		CV3991		7035/4X150D
SQ2506	SQ2506		CV4003	6189/ 12AU7WA	
SQ2508	SQ2508			5726/ 6AL5W	
SQ2509	SQ2509		CV4007		
SQ2513	SQ2513			5719	
SQ2514	SQ2514		CV4008	4009	
CV2516		2C39A	4009	5749	
SQ2516	SQ2516		4010	4010	
SQ2517	SQ2517		CV4010	5654/ 6AK5W	
		7034/4X150A	4011	4011A	
CV2519					
SQ2520	SQ2520		CV4011	5725	
SQ2521	SQ2521		4011A	4011A	
CV2522	6AS6		4012	4012	
2525A5	5BP1A		4013	4013	
CV2573	5651, 5651A		4015	4015	
CV2642	5842/417A		4017	4017	
CV2662	5639		CV4017	5751	
CV2666		829B	CV4018	5727	
CV2680		868		4019	
CV2742	1L4		4020	4020	
CV2753		C3JA/5684	CV4020	0A2WA	
CV2795	1L4		4021	4021	
CV2876	5727		CV4023	6AU6WA	
CV2957		5557	CV4024	12AT7WA	
CV2963		4-125A/4D21		5726	
Z-2963-1		SQ2520			
CV2964		4-250A/5D22			

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
4028	4028		4461	4461	
CV4028	OB2WA		4463	4463	
CV4029	5902		4464	4464	
CV4031	6101		4465	4465	
4036	8379		4600A	4600A	
4037	4037		4603	4603	6949
CV4039	5763		4604	4604	
4046	4046		4605		4605V2
CV4048	5651WA		4605V1		4605V2
A4051	807		4605V2	4605V2	
4053	4053		4606	5762/7C24	
CV4100	OA2WA		4612	4612	
CV4101	OB2WA		4614	4614	
4401	5820A		4615	4615	
4401V1	4401V1		4616	4616	6952
4402	4402				
4403	4403		4617	4617	7835
4404	4404		4620	4620	
		SQ2506, 7163	4621	4621	
4408			4622	4622	
4409	4409		4624	4624	
4412	4412		4648		866A
4413	4413		4800	SL2206	
4414	4414/7611		4801	SL2205	
4414/7611	4414/7611		ASG5017	5557	
4415	4415		ASG5023	3C23	
4415V1	4415V1		PA5021	866A	
4416	4416		TH5021B	866A	
4420		SQ2516	TH5031B	872A	
4421	1P28		CV5035		SADP1
4423	4423		ASG5121	2D21	
4424	4424		CV5122	5823	
4425	4425				
4427	4427		CV5186	5651, 5651A	
4438	4438		CV5189	5726/ 6AL5W	
4439	4439				
4440	4440		AG5210	OB2	
4441	4441		AG5211	OA2	
			CV5212	6201	
4441A	4441A		CV5216	5654/ 6AK5W	
4442	4404				
4443	4443		TH5221V/B	3B28	
4447	4447		CV5362		6861
4448	4448		5514		811A
4449	4449A		5516		2E24
4449A	4449A		5530		5762/7C24
4452	4452		5550	5550	
4453	4453		5550/GL415	5550	
4454	4454		5550/681	5550	
4457		SQ2521	5550/681/	5550	
4459	4459		686		
4460	4460				

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
5683/C1JA		716/6855	5794A	6562/5794A	
5684	C3JA/5684	3C23	5812		5763
5684/C3JA	C3JA/5684	3C23	5814	5814A	5814WA,
5685	C6JA/5685				6189/ 12AU7WA
5685/C6JA	C6JA/5685				5814WA,
5686	5686		5814A	5814A	6189/ 12AU7WA
5687	5687				5814A, 6189/ 12AU7WA
5690	5690		5814WA	5814WA	5814A, 6189/ 12AU7WA
5691	5691				
5692	5692				
5693	5693	6SJ7Y	5819	5819	
5695		816	5820	5820A	
5696	5696		5820A	5820A	
5713	5713				
5718	5718		5820B	4414/7611	
5718A	5718		5823	5823	
			5825	5825	
			5840	5840	
5719	5719		5840A		5840
5719A	5719		5842	5842/417A	
5725	5725	6AS6	5842/417A	5842/417A	
5726	5726	5726/6AL5W	5844		5964
		5726/6AL5W/ 6097	5847/404A	5847/404A	
		5726,	5868/ AX9902		833A
5726/ 6AL5W	5726/ 6AL5W	5726/6AL5W/ 6097	5876	5876, 5876A	
		5726,	5876A	5876A	5876
5726/ 6AL5W/ 6097	5726/ 6AL5W/ 6097	5726/6AL5W	5891		5671
5727	5727	2D21, 2D21W, 5727/2D21W	5892		635/7019
		2D21,	5893	5893	
5727/ 2D21W	5727/ 2D21W	2D21W	5896	5896	
5734	5734		5897	5718	
5736		5762/7C24	5898	5719	
5741		8020	5899	5899	
5743		5556	5899A	5899	
			5902	5902	
			5915	5915	
			5915A		5915
5749	5749	5749/6BA6W			
5749/ 6BA6W	5749/ 6BA6W	5749	5917		5762/7C24
5750	5750	6BE6	5918		5770
5751	5751	5751WA	5919		5671
5751WA	5751WA	5751	5920		5964, 6101, 6J6WA
5762	5762/7C24				2A3
5762/7C24	5762/7C24		5930		5U4GB
5762A	5762/7C24		5931		7027A
5763	5763		5932		807
5770	5770		5933		807
5771	5771		5933WA		807
5786	5786		5934		579B
5794		6562/5794A	5936		9C21
			5946	5946	

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
5963	5963	12AU7WA, 5814A, 5814WA	6085 6087 6094		5692 5690 6005, 6005/ 6AQ5W/ 6095, 6005/6AQ5W
5964	5964	6J6WA, 6101			6005/ 6AQ5W/ 6095, 6005/6AQ5W
5965	5965				6005, 6005/6AQ5W
5965A		5965			6005, 6005/6AQ5W
6005	6005	6005/6AQ5W	6095	6005/ 6AQ5W/ 6095	6005, 6005/6AQ5W
6005/ 6AQ5W	6005/ 6AQ5W	6005, 6005/ 6AQ5W/ 6095	6096	5654/ 6AK5W/ 6096	5654, 5654/6AK5W 6AK5W
6005/ 6AQ5W/ 6095	6005/ 6AQ5W/ 6095	6005, 6005/ 6AQ5W			
6011	710/6011		6097	5726/ 6AL5W/ 6097	5726, 5726/6AL5W
6011/710	710/6011		6099	6099	6J6WA, 5964, 6101, 6101/6J6WA
6012	6012	2D21, 2D21W, 5727, 5727/2D21W			5964, 6101/6J6WA
6014	C1K/6014		6101	6101	5964, 6101/6J6WA
6014/C1K	C1K/6014				5964, 6101
6021	6021		6101/ 6J6WA	6101/ 6J6WA	
6028	408A		6106		5690
6028/408A	408A		6111	6111	
TH6031		5559	6112	6112	
6032	6032A		TH6120		105
6032A	6032A		6130	6130/3C45	
6057		5751	6130/3C45	6130/3C45	
6058		5726	6136	6136	6AU6WA 5651, 5651WA
6060		6201	6140/423A		
6062		5763			
6067		5814A			
6072	6072		6146	6146A, 6146B/ 8298A	
6073	6073	6073/OA2, OA2, OA2WA, OD3, OD3A	6146A	6146A, 6146B/ 8298A	
6073/OA2	6073/OA2	6073, OA2, OA2WA, OD3, OD3A		6146B/ 8298A	
6074	6074	6074/OB2, OB2, OB2WA, OC3, OC3A	6146B/ 8298A	6146B/ 8298A	
6074/OB2	6074/OB2	6074, OB2, OB2WA, OC3, OC3A	6146W/ 7212	6146W/7212 6146W/7212	
6080	6080	6080WA, 6AS7G	6155	6155	
6080WA	6080WA	6080, 6AS7G	6155/ 4-125A	6155	
6082	6082		6156	6156	
6082A		6082	6156/ 4-250A		
6084		5879	6159	6159, 6159B	

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
6159A	6159B		6350	6350	
6159B	6159B		6362		7767
6159W	6159W/7357		6363		8054
6159W/ 7357	6159W/7357		6364		8055
6161	6161		6365		7764
6166	6166		6381	6381	
6166A	6166A/7007		6385		5670
6166A/7007	6166A/7007		6394		6082
6173	6173		6405/1640	6405/1640	
6180		5692	6414		5965
6181	6181		6417	6417	7551
6186	6186	6186/ 6AG5WA	6445		892R
		6186	6446		892
6186/ 6AG5WA	6186/ 6AG5WA		6447		892R
6189/ 12AU7WA	6189/ 12AU7WA	5814A, 5814WA, 5963	6448	6448	6806
			6467		6199
6197	6197		6472	6472	
6198			6474		7513
6198A		7038, 7735A	6474/1854		7513
6199	6199	7038, 7735A	6486		5725
6201	6201		6486A		5725
6205	6205	12AT7WA	6499	6499	
6206	6206		6520		6AS7G
6211	6211		6521	6521	
6211A			6524	6524	
6217	6217	6211	6528		6080
TH6230			6549		8165/4-65A
6263	6263A	3C23	6550	6550	7027A
6263A	6263A		6562	6562/5794A	
6264	6264A		6562/ 5794A	6562/ 5794A	
6264A	6264A		6570	6570	
6267		5879	6576		5771
6291		6199	6626	6626/ OA2WA	OA2WA, OA2, OD3, OD3A
6292		6342A, 8053	6626/ OA2WA	6626/ OA2WA	OA2WA, OB2, OC3, OC3A
6293	6293		6655	6655A	
6326	6326		6655A	6655A	
6326A		7038	6660	6660/6BA6	6660/6BA6
6328	6328		6660/6BA6	6660/6BA6	6660/6BA6
6333		892	6661	6661/6BH6	6661/6BH6
6336		6336A	6661/6BH6	6661/6BH6	6661/6BH6
6336A	6336A		6662	6662/6BJ6	6662/6BJ6
6337		6336A	6662/6BJ6	6662/6BJ6	6662/6BJ6
6342	6342A		6663	6663/6AL5	6663/6AL5
6342A	6342A		6663/6AL5	6663/6AL5	6663/6AL5
TH6345		6130/3C45	6664	6664/6AB4	6664/6AB4
6346		5551A	6664/6AB4	6664/6AB4	6664/6AB4
6347		5552A	6669	6669/6AQ5A	6669/6AQ5A
6348		5553B			

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
6669/ 6AQ5A 6676	6669/ 6AQ5A 6676/ 6CB6A		6883A	6883B/ 8032A/ 8552	
6676/ 6CB6A	6676/ 6CB6A		6883B	6883B/ 8032A/ 8552	
6677	6677/6CL6		6883B/ 8032A/ 8552	6883B/ 8032A/ 8552	
6677/6CL6	6677/6CL6		6884	6884	
6678	6678/6U8A		6887	6887	
6678/6U8A	6678/6U8A		6893	6893	
6679	6679/12AT7		6894	6894	
6679/ 12AT7	6679/ 12AT7		6895	6895	
6680	6680/ 12AU7A		6896/1855 6897	6897	7539
6680/ 12AU7A	6680/ 12AU7A		6901		3C23
6681	6681/ 12AX7A		6903	6903	7102
6681/ 12AX7	6681/ 12AX7A		6911		
6681/ 12AX7A	6681/ 12AX7A		6914	6914	
6687	6687	5915	6914A	6914A	
6694A	6694A	SQ2514	6922	6922	
6696	6696	5770	6929	6929	
6759		5762/7C24	6935		7767
6806	6806	6448	6939	6939	
6810	6810A		6949	6949	4603
6810A	6810A		6950/2039	6950/2039	
6810B		6810A	6952	6952	4616
6814	6814		6953	6953	
6816	6816		6957		SQ2502
6829		5965	6991		7448
6849		7198	7007	6166A/7007	
6850	6850		7008	7008	
6853		5690	7014	604/7014	
6855	716/6855		7018	615/7018	
6855/716	716/6855		7019	635/7019	
6858	760/6858		7020	635L/7020	
6858/760	760/6858		TH7020		5551A
6861	6861		7021	714/7021	
6865	6865A		TH7021		5551A
6865A	6865A		7029	7029	
6866	6866	7448	TH7030	5552A	
6883	6883, 6883B/ 8032A/ 8552		7034/ 4X150A	7034/ 4X150A	
			7035/ 4X150D	7035/ 4X150D	
			7036		5915
			7038	7038	
			7038A		7038
			TH7040	5553B	

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
7043	7043		7245A		6J4WA, 6J4, 8532
7044	7044		7262		7262A
7046	7046		7262A	7262A	
7054	7054, 8077/7054		7263		7263A
7055	7055		7263A	7263A	
7056	7056		7264	7264	
7057	7057		7265	7265	
7058	7058		7268	7268	
7059	7059		7270		8121
7060	7060		7271	7271	
7061	7061		7289/ 3CX100A5		6897
7062		5965	7291A		7038
7064		6655A	7293	7293A	
7065		6655A	7293A	7293A	
7079		6111	7294		8093A
7085		5771	7295	7295B	
7094	7094		7295A	7295B	
7102	7102		7295B	7295B	
7105		6080, 6080WA, 6AS7G	7305	1P22	
7111	7111		7307	710/6011	676
7117	7117		7308	6922	
7136		575A, 6894	7315	7315	
7163	7163		7318		5814A
7183	7183		7325		7735A
7198	7198		7326	7326	
7200	7200		7336		7038
7203/ 4CX250B	7203/ 4CX250B		7351		7735A
7204/ 4CX250F	7204/ 4CX250F		7357	6159W/7357	
7204/ 4X250F	7204/ 4CX250F		7358		6293
7212	6146W/7212		7360	7360	
7213	7213		7370		5687
7214	7214		7386		760/6011
7216	C3JL		7389	7389B	
7225		6499	7389A	7389B	
7226		7262A	7389B	7389B	
7226A		7263A	VH7400	872A	
7244		6101, 6101/6J6WA, 6J6WA	7404	7404	
7244A		6101, 6101/6J6WA, 6J6WA	7412	7412	
7245		6J4WA, 6J4, 8532	7448	7448	
			7457	7457	
			7459		5762/7C24
			7465		9C25*
			7467		SQ2516
			7509		710/6011
			7513	7513	
			7513/V1	7513/V1	
			7533	7533	
			7536		SQ2508

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
7539	7539		7844	7844	
7551	7551		7850	7850	
7552	7552		7860		7767
7553	7553		7870	7870	
7554	7554		7895	7895	
7558	7558		7898	7898	
7566		6499	7900		5762/7C24
7580	7580		7905	7905	
AX7585		5552A	7967	7967	
7586	7586		7984		6883B/ 8032A/8552
7587	7587				
7607		7580	8000	8000	
7609	7609	7035/ 4X150D	8001		4E27A/ 4-125B
7611	4414/7611		8005	8005	
7629A	7629A		8008	8008	
7642	7642		8013A	8013A	
7649	7649				
7650	7650		8014A		5786
7651	7651		8020	8020	
7669		5551A	8020/100R	8020	
7671		5552A	8032	8032,	
7675		1949		6883B/ 8032A/ 8552	
7696		6342A			
7697	7697		8032A	6883B/ 8032A/ 8552	
7701		7551			
7717	7717/6CY5				
7717/6CY5	7717/6CY5		8051	8051	
7724	7724/14GT8		8053	8053	
7724/ 14GT8	7724/ 14GT8		8054	8054	
7728	6201		8055	8055	
7729		12AX7A	8056	8056	
7730	6189/ 12AU7WA		8057		1949
			8058	8058	
7731		6678/6U8A	8062		7102
7732		6CB6	8072	8072	
7733		5814A, 5963	8077	8077/7054	7054
7735	7735A		8077/7054	8077/7054	7054
7735A	7735A		M8079	5726	
7746	7746		M8081	6101	
7764	7764		8092	8092A	
7767	7767		8092A	8092A	
7801	7801		8093	8093A	
7817		6342A	8093A	8093A	
7819		8055	M8096	5763	
7835	7835		8100		4423
7838		5671	M8100	5654/ 6AK5W	
7842	7842				
7843	7843		8121	8121	
			8122	8122	

OF INDUSTRIAL-TYPE ELECTRON TUBES

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
8134 M8136	8134 6189/ 12AU7WA		8298	6146B/ 8298A	
8142		4425	8298A	6146B/ 8298A	
8142-3		4424	8318		7412
8143		4425	8321		7203/ 4CX250B
8149		6146B/ 8298A, 6883B/ 8032A/8552	8322		7204/ 4CX250F
8150		6146B/ 8298A, 6883B/ 8032A/8552	8345		4425
8156		6883B/ 8032A/8552	8346		4423
M8162	12AT7WA		8347	8379	SQ2500
8165/4-65A	8165/4-65A		8392	8392	
8166/ 4-1000A	8166/ 4-1000A		8398	8398	
8168/ 4CX1000A	8168/ 4CX1000A		8415		8122
8170/ 4CX5000A	8170/ 4CX5000A		8434		575A, 6894
8172		7034/4X150A	8435		673, 6895
8177		7213	8437	8437	
8179		8166/4-1000A	8438/ 4-400A	8438/ 4-400A	
8184	8184		8462	8462	
M8196	5725		8476		4402
8203	8203		8477		4402
M8204	5727		8478		4413
M8212	5726		8480	8480	
M8223	0A2WA		8483		7735A
M8224	0B2WA		8484		7735A
8226	8226		8501	8501	
8227	8227		8507	8507	
M8232	6J4WA		8511		7252A
8239/ 3X3000F1	8239/ 3X3000F1		8521	8521	
8245		7203	8532	8532	
M8245	6005		8541		8573
8269		5762/7C24	8552	6883B/ 8032A/ 8552	
8293	8293		8572	8572	
8295		8166/ 4-1000A, 7213	8573	8573	
8295A		8166/ 4-1000A, 7213	9001	9001	
			9002	9002	
			9003	9003	
			9005	9005	
			9006	9006	
			9536B		6342A, 8053
			9578B		8054
			9579B		8055
			9677		8507, 8572
			AX9911		6130/3C45
			10667F		7038

RCA INTERCHANGEABILITY DIRECTORY

Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†	Type To Be Replaced	Replace by RCA Type*	Similar RCA Type†
10667G		7735A	55850S		7038, 7735A
10667M		7038	56000	8020	
10667S		7735A	CCa	6922	
10667SC		7735A	SBS	5551A	
10667T		7735A	SCS	5552A	
GLE13000/ 1.5/6	872A		SDS	5553B	
GLE15000/1/4	872A		TGRA		575A
38166	866A		TGRB		872A
38172	872A		TVTA		892
55850F		7038	TVTB		833A
55850N		7735A	TVTC		889A
			TVTE		889A

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

RCA TYPE	Mil. Spec. E-1/	RCA TYPE	Mil. Spec. E-1/	RCA TYPE	Mil. Spec. E-1/
0A2WA	290B	6AG7Y	45C	829B	853
0A3	17B	6AK6	47A	830B	JAN
0A4G	790A	6AS7G	49C	832A	215
0B2	18	6AU6WB	952D	833A	933
0B2WA	940D	6F4	424	836	912
0C3	193	6J4WA	619D	837	934
0D3	196	6J6WA	243B	868	561
1C21	791A	6SA7Y	60A	880	950A
1EP1	1342A	6SG7Y	365A	884	894B
1L4	232A	6SJ7Y	521	891R	1007
1P21	28E	6V6GT Y	126B	902A	593
1P39	402	6V6Y	126B	918	562
1P40	403	6X4W	64A	920	408
1P42	405A	7BP7A	66A	921	409A
2AP1A	588	7MP7	67E	922	410B
2BP1	272B	12AT7WA	3E	925	412B
2BP11	272B	12AT7WB	1079C	927	414
2E24	336		(NAVY)	931VA	597C
2E26	338D	12SA7Y	60A	955	457
2X2A	749A	12SG7Y	365A	1613	460
		12SK7Y	61B		
3A4	108A	12SW7	125	1616	915
3A5	33B	12SX7GT	63A	1624	461
3AP1A	589	12SY7	60A	1625	99B
3B4WA	1358	26A6	439A	2031	1273
	(Sig C)	26A7GT	71C	2041	(NAVY)
3B28	753D				1383
					(NAVY)
3BP1A	594	26C6	646B		
3C33	799	26D6	671A	5651WA	825A
3D22A	798A	83	581A	5652	419B
3E29	212	575A	1440A	5654/	
3JP1	36C	801A	926	6AK5W	4E
				5670	5E
3JP7	36C	803	927A	5675	78C
3KP1	501A	805	921A		
3RP1	390B	807	99B	5691	133A
5ADP1	689C	809	1442	5692	134B
5CP1A	273F	810	JAN	5693	81A
				5696	917B
5CP12	273F	811A	871B	5726/	
5FP7A	1392A	813	928B	6AL5W	7E
5R4GY	344A	814	1443		
5UP1	498A	815	929		
5UP7	498A	816	1444		

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

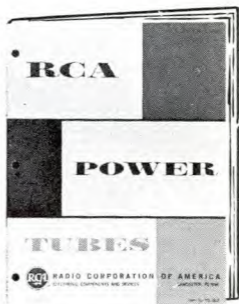
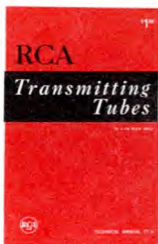
RCA TYPE	Mil. Spec. E-1/	RCA TYPE	Mil. Spec. E-1/	RCA TYPE	Mil. Spec. E-1/
5727/ 2D21W	83C	6189/ 12AU7WA	246F	7315	1274A
5749/ 6BA6W	8D	6197	904B (NAVY)	7533	(NAVY) 1311A
5751W1	1403A	6211	905C (NAVY)	7551	(NAVY) 1376
5751	10E	6263A	1044 (USAF)	7554	(NAVY) 1325A
5762/7C24	824	6264A	1045 (USAF)	7558	(NAVY) 1376
5763	85A				
5814A	12F	6293	381B	7580	1318
5819	943B				(USAF)
5876	94D	6562/ 5794A	180E	7586	1397
5876A	1043 (USAF)	6816	1239B		(Sig C)
		6884	1239B	7587	1397A
5893	96E				1434B
5915	470	6914A	1049C		1434
5963	1035A (NAVY)	6950/2039	1332A (USAF)	7609	(Sig C)
					1331
5964	472B	6952	1106A (NAVY)	7843	(NAVY) 1457A
6005/ 6AQ5W	13G	7008	MDNE- PD-66		(EL)
				7895	1433A
6012	714C	7034/ 4X150A	160H		1433
6032A	606A (NAVY)			8005	(Sig C)
6080WA	510D	7035/ 4X150D	160H	8013A	JAN
6099	241	7111	1243 (NAVY)	8056	1449
6146	380C				(NAVY)
		7203/ 4CX250B	889C	8058	1491
6146W/ 7212	1502	7204/ 4CX250F	889C		(NAVY)
6159	863 (NAVY)	7268	1505 (NAVY)		
6159W/ 7357	1502			9001	652A
6161	1067 (NAVY)			9002	653A
				9003	654A
6186/ 6AG5WA	244A			9005	655A
				9006	476A

RCA INDUSTRIAL TUBES

Technical Publications

Copies of the publications listed below may be obtained from your RCA Distributor or from Commercial Engineering, Radio Corporation of America, Harrison, N. J.

• **RCA TRANSMITTING TUBES**—TT-5 ($8\frac{1}{4}'' \times 5\frac{3}{8}''$)—320 pages. Written for the engineer, technician, radio amateur, and student, this new larger edition has been comprehensively revised and updated. Gives data on over 180 tube types, including cermolox, ceramic-and-metal, pencil, and pulse-rated types. Provides basic tube information on generic types, parts and materials, installation and application, and interpretation of data. Includes maximum ratings, typical operating values, and characteristics curves for power tubes having plate-input ratings up to 4 kw and for associated rectifier tubes. Contains material on power-tube circuit-design considerations and rectifier circuits and filters, as well as new application tables for quick, easy selection of tubes, and circuit diagrams for transmitting and industrial applications. Also gives new design information on linear rf amplifiers for single sideband applications. Features lie-flat binding. Price \$1.00.

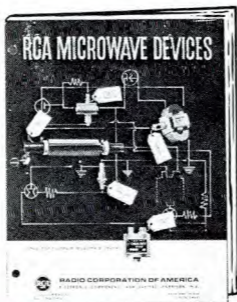


• **RCA POWER TUBES** — PG-101F ($10\frac{7}{8}'' \times 8\frac{3}{8}''$) — 36 pages. Contains technical data and quick-selection charts on over 200 RCA vacuum power tubes, rectifier tubes, thyratrons, ignitrons, and vacuum gauge tubes. Highlights Cermolox tubes and RCA power tubes for single-sideband applications. Price 60 cents.

Technical Publications (cont'd)

• **RCA POWER TUBES SELECTION GUIDE**—PWR-503 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—6 pages. Discusses the methods of selecting a power tube type and gives power-vs-frequency graphs of power tubes for cw applications and power tubes for rf pulse applications. Single copy free on request.

• **RCA POWER TUBES CLASSIFICATION CHARTS**—PWR-504 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—12 pages. Groups all power tube types by their rated class of service and lists them in the order of power capability. Price 15 cents.

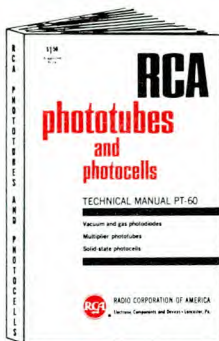


• **RCA MICROWAVE DEVICES**—MWD-100 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—6 pages. Contains "thumb nail" technical data on selected RCA traveling-wave tubes, solid-state devices, pencil tubes, and magnetrons. Single copy free on request.

• **RCA PENCIL TUBES**—ICE-219 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—28 pages. Contains operating theory for pencil tubes, electrical and mechanical circuit-design considerations, environmental considerations, application considerations, and data for commercial types. Price 50 cents.

• **RCA MAGNETRONS AND TRAVELING-WAVE TUBES**—MT-301A (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—48 pages. Operating theory for magnetrons and traveling-wave tubes, application considerations, and techniques for measurement of electrical parameters. Price 60 cents.

Technical Publications (cont'd)



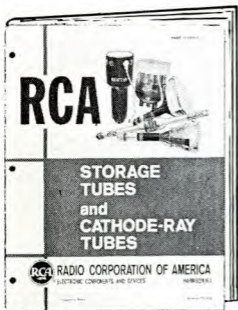
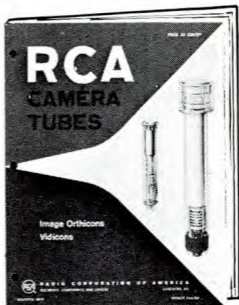
• **RCA PHOTOTUBE AND PHOTOCCELL MANUAL**—PT-60 (8¼" x 5⅜")—192 pages. Well-illustrated informative manual covering fundamentals and operating considerations for vacuum and gas phototubes, multiplier phototubes, and photocells. Also describes basic applications for these devices. Features easy-to-use selection chart for multiplier phototubes. Data and performance curves given for over 90 photo-sensitive devices. Price \$1.50.

• **RCA PHOTO AND IMAGE TUBES** — 1CE-269 (10⅞" x 8⅜") — 32 pages. Contains technical data on RCA multiplier phototubes, vacuum and gas photodiodes, and image-converter tubes; quick selection charts for RCA phototubes; spectral sensitivity and spectral-energy emission curves; and socket and shield information for the different phototube types. Price 60 cents.

• **RCA PHOTOCCELLS** — 1CE-261A (10⅞" x 8⅜") — 32 pages. Contains a selection of representative photocell-circuit diagrams; a complete section describing the characteristics and construction of RCA photoconductive, photojunction, photovoltaic cells; technical data for the different photocell types; replacement information; optical lens formulas, and supplementary information on tungsten and fluorescent light sources. Booklet is designed to introduce the engineer, the hobbyist, and the experimenter to the application possibilities of RCA photocells. Price 50 cents.

Technical Publications (cont'd)

• **RCA CAMERA TUBES**—CAM-600 formerly 1CE-262 ($10\frac{7}{8}$ " x $8\frac{3}{8}$ ")—16 pages. Technical information on RCA image orthicons and vidicons aimed at helping the camera tube user select the most appropriate tube for his application. Includes concise data on all commercially available RCA camera tubes as well as typical curves and information defining the most important characteristics of camera tubes. Also contains cutaway views of a vidicon and image orthicon illustrating construction features. Price 50 cents.

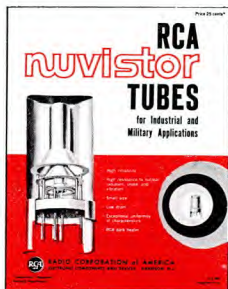
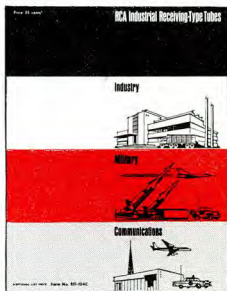


• **RCA STORAGE TUBES AND CATHODE-RAY TUBES**—STC-900 formerly 1CE-270 ($10\frac{7}{8}$ " x $8\frac{3}{8}$ ")—16 pages. Contains technical information on RCA storage tubes, special-purpose kinescopes and oscillograph-type cathode-ray tubes including display-storage tubes, computer-storage tubes, radechons, scan conversion tubes, flying-spot tubes, monitor, projection, transcriber, and view-finder kinescopes; as well as information on fluorescent screens. Price 15 cents.

Technical Publications (cont'd)

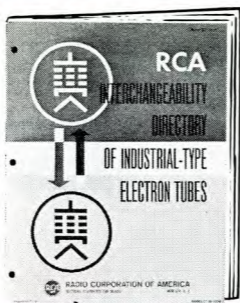
• **RCA PHOSPHORS**—TPM-1508A (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—20 pages. Contains defining data for over 25 different industrial phosphors, spectral-energy emission curves, persistence curves, and quick-reference classification charts. Price 75 cents.

• **RCA RECEIVING-TYPE TUBES FOR INDUSTRY AND COMMUNICATIONS**—RIT-104C (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—44 pages. Technical information on over 190 RCA "special red" tubes, premium tubes, nuvistors, computer tubes, pencil tubes, glow-discharge tubes, small thyratrons, low-microphonic amplifier tubes, vacuum-gauge tubes, mobile communications tubes, and other special types. Includes socket-connection diagrams. Price 35 cents.



• **RCA NUVISTOR TUBES FOR INDUSTRIAL AND MILITARY APPLICATIONS**—1CE-280 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—16 pages. Describes unique features of nuvistors and includes tabular data, dimensional outlines, curves, terminal diagrams, and socket information. Price 25 cents.

Technical Publications (cont'd)



• **RCA INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES** — ID-1020E (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ") — 12 pages. Lists more than 2100 basic type designations for 20 classes of industrial tube types; shows the RCA Direct Replacement Type or the RCA Similar Type, when available. Price 20 cents.

• **TECHNICAL BULLETINS** — Authorized information on RCA industrial tubes. Be sure to mention tube-type bulletin desired. Single copy on specific type free on request.

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

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RCA SEMICONDUCTOR DEVICES



TRANSISTORS

TUNNEL DIODES

MICROCIRCUITS

RECTIFIERS

SILICON CONTROLLED RECTIFIERS

RCA SEMICONDUCTOR DEVICES

Technical Publications

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

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

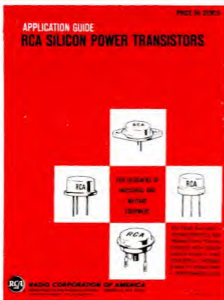
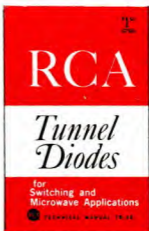
• **RCA SEMICONDUCTOR PRODUCTS HANDBOOK**—HB-10. Two binders, each 7 $\frac{3}{8}$ " L x 5 $\frac{5}{8}$ " W x 2 $\frac{7}{8}$ " D, having gold-imprinted red covers. Contains over 1600 pages of loose-leaf data, curves, and up-to-date application and selection guides on RCA semiconductor devices such as transistors, silicon rectifiers, silicon controlled rectifiers, varactors, tunnel diodes, and tunnel rectifiers. Available on subscription basis. Price \$10.00 including service for first year. Also available with RCA Electron Tube Handbook HB-3 at special combination price of \$25.00. Write to Commercial Engineering for descriptive flyer and order form.



• **RCA TRANSISTOR MANUAL**—SC-11 (8 $\frac{3}{8}$ " x 5 $\frac{3}{8}$ ")—384 pages. Contains up-to-date definitive data on over 600 semiconductor devices including tunnel diodes, silicon controlled rectifiers, varactor diodes, conventional rectifiers, and many classes of transistors. Features easy-to-understand text chapters, as well as tabular data on RCA discontinued transistors. Contains over 40 practical circuits, complete with parts lists, highlighting semiconductor-device applications. Price \$1.50.

Technical Publications (Cont'd)

• **RCA TUNNEL DIODE MANUAL**—TD-30 (8 $\frac{3}{8}$ " x 5 $\frac{3}{8}$ ")—160 pages. Describes the microwave and switching capabilities of tunnel diodes. Contains information on theory and characteristics, and on tunnel-diode applications in switching circuits and in microwave oscillator, converter, and amplifier circuits. Price \$1.50.



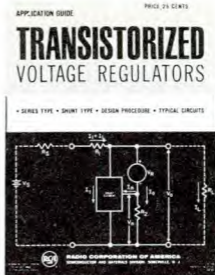
• **RCA SILICON POWER TRANSISTORS—APPLICATION GUIDE**—1 CE-215—28 pages. For designers of industrial and military equipment. Describes details of diffused-junction construction and contains a discussion of ratings, stability conditions, parameters and equivalent circuits. Also includes design procedures and specific design equations for several transistor circuits. Price 50 cents.

• **RCA SILICON VHF TRANSISTOR—APPLICATION GUIDE**—1 CE-228—20 pages. For designers of industrial and military equipment. This guide describes the capabilities of RCA silicon vhf transistors for applications at frequencies up to 300 Mc. It includes circuit and typical circuits for the 2N1491 family of silicon VHF transistors. In addition, maximum ratings and characteristics are included for these transistors. Price 50 cents.



Technical Publications (Cont'd)

• **TRANSISTORIZED VOLTAGE REGULATORS—APPLICATION GUIDE**—1CE-254—12 pages. Contains a discussion of transistorized voltage regulators of the series and shunt type. Design procedures are described and sample design problem for both systems are given. Price 25 cents.



• **RCA SEMICONDUCTOR PRODUCTS GUIDE**—3L1010/1L1147-A—12 pages. The booklet describes the RCA semiconductor-product line. It provides quick-selection data on transistors, varactors, rectifiers, silicon-controlled rectifiers, tunnel diodes, tunnel rectifiers, ferrite memory products, ferrite-core memory planes, photojunction and photoconductive cells. Also included is an index, application guide for transistors, and section on semiconductor packages. Single copy free on request.

• **RCA VARACTORS**—VAR-100—8 pages. The booklet provides information on RCA's complete line of gallium-arsenide and silicon varactors. The contents of this catalog-technical bulletin are grouped to facilitate the comparison of electrical characteristics and ratings. A quick-selection guide of recommended types for use as frequency multipliers and parametric amplifiers is included to assist the designer. Single copy free on request.

• **INTRODUCTION TO JUNCTION TRANSISTORS**—4T86-B—30 pages. Contains a series of articles on basic junction-transistor theory. This material was written to familiarize broadcast engineers with basic transistor theory. By omitting the chemical and physical aspects of transistors, and by talking in terms of circuit functions and tube analogies, the author has clearly explained basic transistor action. Single copy free on request.

• **RCA SILICON RECTIFIERS**—62S25—Contains ratings and characteristics of RCA's line of diffused-junction rectifiers. Also included is a rectifier circuit chart—a designers aid which shows voltage and current relationships together with waveforms for single and polyphase rectifier circuits. Single copy free on request.

Technical Publications (Cont'd)

• **RCA SILICON POWER RECTIFIERS**—62S10—8 pages. This booklet explains how special constructional features provide high reliability in RCA's diffused-junction silicon power rectifiers. Contains a quick-selection guide for stud-type and high-voltage "stack"- and "stick"-type rectifiers. Single copy free on request.

• **RCA INDUSTRIAL DRIFT TRANSISTORS**—1CE-203—12 pages. Contains technical data on the 2N274 family of germanium transistors for rf applications in industrial and military equipment. Also included are curves and dimensional outlines. Single copy free on request.

• **RCA INDUSTRIAL SILICON POWER TRANSISTORS**—1CE-205B—16 pages. Includes technical data on the 2N1479 and 2N1511 families of silicon transistors for power switching and amplifier applications in industrial and military equipment. The transistors described in this booklet are grouped into medium-power, intermediate-power, and high-power types. In addition typical circuits, curves, and dimensional outlines are shown. Single copy free on request.

• **RCA INDUSTRIAL GERMANIUM POWER TRANSISTORS**—1CE-206—12 pages. The transistors described in this booklet are the 2N1183 family of germanium power transistors for intermediate-power switching and low-frequency applications in industrial and military equipment. The booklet includes technical data, a typical power-switching circuit, curves, and dimensional outline. Single copy free on request.

• **RCA INDUSTRIAL GERMANIUM POWER TRANSISTORS**—1CE-214A—8 pages. Contains technical data on the 2N173 family of germanium power transistors for power-switching and amplifier applications in industrial and military equipment. The transistors described in this booklet are designed to pass rigorous environmental tests specified in MIL-S-19500B. Also included are curves and dimensional outline drawing. Single copy free on request.

Technical Publications (Cont'd)

RCA "TOP-OF-THE-LINE" SK-SERIES REPLACEMENT TRANSISTORS—1L1169

Wall chart and application guide for RCA "Top-Of-The-Line" SK-Series replacement transistors used in entertainment-type equipment. Lists more than 1900 types which can be replaced by only 10 RCA SK-Series transistors.

This chart lists in alphabetical-numerical sequence recommended RCA SK-Series replacement transistors for USA industry-standard (EIA) types, foreign types, and types identified by device-manufacturers' parts numbers. Each transistor in the SK-Series is designed to provide outstanding performance in a specific application or type of service as shown in the application chart below.

RCA Type	Description (Germanium Types)	Application
SK-3003	pnp, alloy	af output, driver, and low-level amplifier stages (supply voltages up to 9 volts).
SK-3004	pnp, alloy	af output, driver, and low-level amplifier stages (supply voltages up to 15 volts).
SK-3005	pnp, alloy	rf amplifier, converter, and if amplifier stages of standard broadcast band receivers.
SK-3006	pnp, drift field	rf amplifier, if amplifier, and converter stages of FM and AM/FM receivers (up to 108 Mc).
SK-3007	pnp, drift field	rf amplifier, if amplifier, and converter stages of all wave receivers (up to 30 Mc).
SK-3008	pnp, drift field	rf amplifier, if amplifier, and converter stages in standard broadcast auto receivers, and battery-operated receivers.
SK-3009	pnp, alloy	audio output stages of auto radios, high-fidelity amplifier equipment, and communications equipment.
SK-3010	nnp, alloy	class a voltage amplifier and driver stages.
SK-3011	nnp, alloy	rf amplifier, if amplifier, and converter stages of standard broadcast band radio receivers.
SK-3012	pnp, alloy	audio output stages of auto radios.

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

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

RCA SEMICONDUCTOR DEVICES NUMERICAL LISTING OF TYPES

TYPE	TYPE	TYPE
1N3855 1N3856 1N3857 1N3858 1N3859	2N357 (X) 2N370 2N371 2N372 2N373 (X) See 2N1638	2N578 (X) 2N579 (X) 2N580 (X) 2N581 2N582
1N3860 1N3861 1N3862 1N3863 2N104	2N374 (X) See 2N1639 2N376 2N384⊕ 2N388⊕	2N583 (X) 2N584 (X) 2N585 2N586 2N591
2N109 2N139 2N140 2N173 2N174⊕	2N388A 2N395 2N396 2N396A	2N640 (X) See 2N1637 2N641 (X) See 2N1638 2N642 (X) See 2N1639
2N175 2N176 2N215 2N217 2N218	2N397 2N398⊕ 2N398A 2N398B 2N404⊕	2N643 (X) 2N644 (X) 2N645 (X) 2N646** 2N647
2N219 2N220⊕ 2N269 (X) 2N270 2N274⊕	2N404A 2N405 2N406 2N407 2N408	2N649 2N656 2N681 2N682 2N683
2N277 2N278 2N301 See 2N2869/ 2N301	2N409 2N410 2N411 2N412 2N414	2N684 2N685 2N686 2N687 2N688
2N301A See 2N2870/ 2N301A 2N307 (X) 2N351	2N441 2N442 2N443 2N457 (X) 2N497 (X)	2N689 2N696 (X) 2N597 2N699

(X) Not recommended for new equipment design.

⊕ Military-version available.

(R) Reverse-polarity version available.

** Contact your RCA Field Office.

RCA SEMICONDUCTOR DEVICES NUMERICAL LISTING OF TYPES

For more information on the following RCA semiconductor devices refer to the starting on page 196.

TYPE	TYPE	TYPE
1N248A, (R) 1N248B, (R) 1N248C, (R) 1N249A, (R) 1N249B⊕	1N1189⊕ 1N1189A, (R) 1N1190⊕ 1N1190A, (R) 1N1195A, (R)	1N1763 1N1764 1N2135A⊕ 1N2326 1N2858
1N249B, (R) 1N249C, (R) 1N250A, (R) 1N250B⊕ 1N250B, (R)	1N1196A, (R) 1N1197A, (R) 1N1198A, (R) 1N1199⊕ 1N1199A, (R)	1N2859 1N2860 1N2861 1N2862 1N2863
1N250C, (R) 1N440B 1N441B 1N442B 1N443B	1N1200⊕ 1N1200A, (R) 1N1201⊕ 1N1202⊕ 1N1202A, (R)	1N2864 1N3128 1N3129 1N3130 1N3138 (X)
1N444B 1N445B 1N536 1N537 1N538⊕	1N1203⊕ 1N1203A, (R) 1N1204⊕ 1N1204A, (R) 1N1205⊕	1N3193 1N3194 1N3195 1N3196 1N3253
1N539 1N540⊕ 1N547⊕ 1N1095 1N1183⊕	1N1205A, (R) 1N1206⊕ 1N1206A, (R) 1N1341B, 1N1342B,	1N3254 1N3255 1N3256 1N3563 1N3754
1N1183A, (R) 1N1184⊕ 1N1184A, (R) 1N1185⊕ 1N1186⊕	1N1344B 1N1345B 1N1346B 1N1347B 1N1348B	1N3755 1N3756 1N3847 1N3848 1N3849
1N1186A, (R) 1N1187⊕ 1N1187A, (R) 1N1188⊕ 1N1188A, (R)	1N1612, (R) 1N1613, (R) 1N1614, (R) 1N1615, (R) 1N1616, (R)	1N3850 1N3851 1N3852 1N3853 1N3854

(X) Not recommended for new equipment design.

⊕ Military-version available.

(R) Reverse-polarity version available.

** Contact your RCA Field Office.

RCA SEMICONDUCTOR DEVICES
NUMERICAL LISTING OF TYPES

TYPE	TYPE	TYPE
2N705 2N706 2N706A 2N708 2N709	2N1092 2N1099 2N1100 2N1169 2N1170	2N1384 2N1395 2N1396 2N1397 2N1412⊕
2N710 2N711 2N718A 2N720A 2N794 (X)	2N1177 2N1178 2N1179 2N1180 2N1183⊕	2N1425 See 2N1524 2N1426 See 2N1526
2N795 (X) 2N796 (X) 2N828 2N834 2N914	2N1183A⊕ 2N1183B⊕ 2N1184⊕ 2N1184A⊕ 2N1184B⊕	2N1450 (X) 2N1479⊕ 2N1480⊕ 2N1481⊕ 2N1482⊕
2N934 (X) 2N955 2N955A 2N960 2N961	2N1213 (X) 2N1214 (X) 2N1215 (X) 2N1216 (X) 2N1224⊕	2N1483⊕ 2N1484⊕ 2N1485⊕ 2N1486⊕ 2N1487⊕
2N962 2N963 2N964 2N965 2N966	2N1225⊕ 2N1226 2N1285** 2N1300 2N1301	2N1488⊕ 2N1489⊕ 2N1490⊕ 2N1491 2N1492
2N967 2N1010 2N1023 2N1066 2N1067	2N1302⊕ 2N1303⊕ 2N1304⊕ 2N1305⊕ 2N1306⊕	2N1493 2N1511⊕ 2N1512⊕ 2N1513⊕ 2N1514⊕
2N1068 2N1069 2N1070 2N1090 2N1091	2N1307⊕ 2N1308⊕ 2N1309⊕ 2N1319 2N1358	2N1524 2N1525 2N1526 2N1527 2N1605

(X) Not recommended for new equipment design.

⊕ Military-version available.

(R) Reverse-polarity version available.

** Contact your RCA Field Office.

RCA SEMICONDUCTOR DEVICES
NUMERICAL LISTING OF TYPES

TYPE	TYPE	TYPE
2N1605A 2N1613 2N1631 2N1632 2N1633 See 2N1638	2N1845A 2N1846A 2N1847A 2N1848A 2N1849A	2N2708 2N2857 2N2869/2N301 2N2870/2N301A 2N2873 (X)
2N1634 See 2N1638 2N1635 See 2N1639 2N1636 See 2N1639	2N1850A 2N1853⊕ 2N1854⊕ 2N1893 2N1905	2N2876 2N2895 2N2896 2N2897 2N2898
2N1637 2N1638 2N1639 2N1683 2N1700	2N1906 2N2015 2N2016 2N2102 2N2147	2N2899 2N2900 2N2938 2N2953 2N3053/40053
2N1701 2N1702 2N1703 2N1708 2N1711	2N2148 2N2205 2N2206 2N2208** 2N2210**	2N3054 2N3055 2N3118 2N3119 2N3228
2N1768 2N1769 2N1770 2N1771 2N1772	2N2270 2N2273⊕ 2N2304** 2N2305** 2N2338	2N3229 2N3230 2N3231 2N3241 2N3242
2N1773 2N1774 2N1775 2N1776	2N2339 2N2405 2N2475 2N2476 2N2477	2N3262 2N3263 2N3264 2N3265 2N3266
2N1777 2N1778 2N1842A 2N1843A 2N1844A	2N2482 2N2594** 2N2613 2N2614 2N2631	2N3375 2N3439 2N3440 2N2441 2N3442

(X) Not recommended for new equipment design.

⊕ Military-version available.

(R) Reverse-polarity version available.

** Contact your RCA Field Office.

RCA SEMICONDUCTOR DEVICES NUMERICAL LISTING OF TYPES

TYPE	TYPE	TYPE
2N3478 2N3512 2N3553 2DG001 (X) 3DG001 (X)	40114, (R) 40115, (R) 40116, (R) 40208, (R) 40209, (R)	CR206 CR208 CR210 CR212 CR301
3907/2N404 40022 40050 40051 40053 See 2N3052/ 40053	40210, (R) 40211, (R) 40212, (R) 40213, (R) 40214, (R)	CR302 CR303 CR304 CR305 CR306
40054 40055 40056 40057 40058	40216, (R) 40231 40232 40233 40234	CR307 CR311 CR312 CR313 CR314
40059 40060 40061 40062 40063	40250 40251 40253 40254 40255	CR315 CR316 CR317 CR321 CR322
40064 40065 40076 40077 40078	40256 CR101 CR102 CR103	CR323 CR324 CR325 CR331 CR332
40080 40081 40082 40084 40108, (R)	CR104 CR105 CR106 CR107 CR108	CR333 CR334 CR335 CR341 CR342
40109, (R) 40110, (R) 40111, (R) 40112, (R) 40113, (R)	CR109 CR110 CR201 CR203 CR204	CR343 CR344 CR351 CR352 CR353

(X) Not recommended for new equipment design.

⊕ Military-version available.

(R) Reverse-polarity version available.

** Contact your RCA Field Office.

**RCA SEMICONDUCTOR DEVICES
NUMERICAL LISTING OF TYPES**

TYPE	TYPE	TYPE
CR354 V1000 V1035 V1060 V2000	V3100 V3124 V3142 V5000 V5200	V6200 V6224 V6300 V6324 V7000
V2035 V2060 V3000 V3034 V3052	V5300 V6000 V6024 V6100 V6124	V7012 V7200

- (X) Not recommended for new equipment design.
- ⊕ Military-version available.
- (R) Reverse-polarity version available.
- ** Contact your RCA Field Office.

APPLICATION GUIDE FOR RCA TRANSISTORS

AUDIO-FREQUENCY AMPLIFIER

Small-Signal—Class A

2N104	2N1010	2N2614	<input type="checkbox"/> 2N2900
2N175	<input type="checkbox"/> 2N2102	<input type="checkbox"/> 2N2895	<input type="checkbox"/> 2N3053/ 40053
2N215	<input type="checkbox"/> 2N2270	<input type="checkbox"/> 2N2897	<input type="checkbox"/> 2N3118
2N220	2N2613	<input type="checkbox"/> 2N2898	

Driver

2N405	<input type="checkbox"/> 2N2102	<input type="checkbox"/> 2N2900	<input type="checkbox"/> 2N3053/ 40053
2N406	<input type="checkbox"/> 2N2897	2N2953	
2N591			

Large-Signal—Classes A and B

2N109	2N647	<input type="checkbox"/> 2N2270	<input type="checkbox"/> 2N2898
2N176	2N649	2N2869/ 2N301	<input type="checkbox"/> 2N2900
2N217	<input type="checkbox"/> 2N1613	2N2870/ 2N301A	<input type="checkbox"/> 2N3053/ 40053
2N270	2N1905	<input type="checkbox"/> 2N2895	40022
2N351	2N1906	<input type="checkbox"/> 2N2897	40050
2N376	<input type="checkbox"/> 2N2102		40051
2N407	2N2147		
2N408	2N2148		

Power

Dissipations—Up to 4.9 Watts

<input type="checkbox"/> 2N699	<input type="checkbox"/> 2N1711	<input type="checkbox"/> 2N2895	<input type="checkbox"/> 2N2900
<input type="checkbox"/> 2N1092	<input type="checkbox"/> 2N1893	<input type="checkbox"/> 2N2897	<input type="checkbox"/> 2N3118
<input type="checkbox"/> 2N1613	<input type="checkbox"/> 2N2102	<input type="checkbox"/> 2N2898	<input type="checkbox"/> 40084

Dissipations—5 to 49.9 Watts

2N176	<input type="checkbox"/> 2N1479	<input type="checkbox"/> 2N1769	2N2870/ 2N301A
2N351	<input type="checkbox"/> 2N1480	<input type="checkbox"/> 2N2102	<input type="checkbox"/> 2N3053/ 40053
2N376	<input type="checkbox"/> 2N1481	2N2147	<input type="checkbox"/> 2N3054
<input type="checkbox"/> 2N1067	<input type="checkbox"/> 2N1482	2N2148	40022
<input type="checkbox"/> 2N1068	<input type="checkbox"/> 2N1483	<input type="checkbox"/> 2N2270	40050
2N1183	<input type="checkbox"/> 2N1484	<input type="checkbox"/> 2N2339	40051
2N1183A	<input type="checkbox"/> 2N1485	<input type="checkbox"/> 2N2405	<input type="checkbox"/> 40250 ^a
2N1183B	<input type="checkbox"/> 2N1486	2N2869/ 2N301	
2N1184	<input type="checkbox"/> 2N1700		
2N1184A	<input type="checkbox"/> 2N1701		
2N1184B	<input type="checkbox"/> 2N1768		

Dissipations—50 Watts and Higher

2N173	<input type="checkbox"/> 2N1069	<input type="checkbox"/> 2N1489	2N1905
2N174	<input type="checkbox"/> 2N1070	<input type="checkbox"/> 2N1490	2N1906
2N277	2N1099	<input type="checkbox"/> 2N1511	<input type="checkbox"/> 2N2015
2N278	2N1100	<input type="checkbox"/> 2N1512	<input type="checkbox"/> 2N2016
2N441	2N1358	<input type="checkbox"/> 2N1513	<input type="checkbox"/> 2N2338
2N442	2N1412	<input type="checkbox"/> 2N1514	<input type="checkbox"/> 2N3055
2N443	<input type="checkbox"/> 2N1487	<input type="checkbox"/> 2N1702	<input type="checkbox"/> 40251 ^a
2N444	<input type="checkbox"/> 2N1488	<input type="checkbox"/> 2N1703	

RADIO-FREQUENCY AMPLIFIER

Small-Signal—RF

UHF

2N2708 2N2857

VHF

2N384	2N1066	2N1225	2N1397
<input type="checkbox"/> 2N914	2N1177	2N1396	2N2482
2N1023			

HF

2N274	2N1224	2N1631	2N1637
2N370	2N1226	2N1632	2N2273
<input type="checkbox"/> 2N708	2N1395		

Small-Signal—IF

2N139	2N1023	2N1395	<input type="checkbox"/> 2N1491
2N218	2N1066	2N1396	<input type="checkbox"/> 2N1492
2N274	2N1180	2N1397	<input type="checkbox"/> 2N1493
2N384	2N1224	2N1524	<input type="checkbox"/> 2N2708
2N409	2N1225	2N1525	<input type="checkbox"/> 2N3118
2N410	2N1226	2N1638	

Power

<input type="checkbox"/> 2N1491	<input type="checkbox"/> 2N2631	<input type="checkbox"/> 2N3118	<input type="checkbox"/> 40081
<input type="checkbox"/> 2N1492	<input type="checkbox"/> 2N2876	<input type="checkbox"/> 2N3229	<input type="checkbox"/> 40082
<input type="checkbox"/> 2N1493			

Converters and Mixers

UHF

2N2708 2N2857

VHF and HF

2N140	2N412	2N1226	2N1639
2N219	2N1023	2N1395	<input type="checkbox"/> 2N1491
2N274	2N1066	2N1396	<input type="checkbox"/> 2N1492
2N372	2N1179	2N1397	<input type="checkbox"/> 2N1493
2N384	2N1224	2N1526	<input type="checkbox"/> 2N3118
2N411	2N1225	2N1527	

Oscillators

UHF

2N2708 2N2857

VHF and HF

2N274	2N1178	2N1396	<input type="checkbox"/> 2N2631
2N372	2N1224	2N1397	<input type="checkbox"/> 2N2876
2N384	2N1225	<input type="checkbox"/> 2N1491	<input type="checkbox"/> 2N3118
2N1023	2N1226	<input type="checkbox"/> 2N1492	<input type="checkbox"/> 40080
2N1066	2N1395	<input type="checkbox"/> 2N1493	

FOR RCA TRANSISTORS

SWITCHING

Computer

Stage Delays Greater than 300 Nanoseconds^b

2N398	2N398A	2N398B	2N586
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Stage Delays of 100 to 300 Nanoseconds^b

2N388	2N414	2N1170 ^c	2N1308
2N388A	2N581	2N1302	2N1309
2N395	2N582	2N1303	2N1319 ^c
2N396	2N585	2N1304	2N1605
2N396A	2N1090	2N1305	2N1605A
2N397	2N1091	2N1306	3907 /
2N404	2N1169 ^c	2N1307	2N404
2N404A			

Stage Delays of 30 to 100 Nanoseconds^b

2N1300	2N1384	2N1853	<input type="checkbox"/> 2N2476
2N1301	2N1683	2N1854	<input type="checkbox"/> 2N2477

Stage Delays of 10 to 30 Nanoseconds^b

2N705	2N711	2N961	2N966
<input type="checkbox"/> 2N706	2N828	2N962	2N967
<input type="checkbox"/> 2N706A	<input type="checkbox"/> 2N834	2N963	<input type="checkbox"/> 2N1708
<input type="checkbox"/> 2N708	<input type="checkbox"/> 2N914	2N964	<input type="checkbox"/> 2N2205
2N710	2N960	2N965	<input type="checkbox"/> 2N2206

Stage Delays of 5 to 10 Nanoseconds^b

<input type="checkbox"/> 2N709	2N955A	<input type="checkbox"/> 2N2475	<input type="checkbox"/> 2N2938
2N955			

Power

Dissipations—Up to 4.9 Watts

<input type="checkbox"/> 2N697	<input type="checkbox"/> 2N834	<input type="checkbox"/> 2N2205	<input type="checkbox"/> 2N2898
<input type="checkbox"/> 2N699	<input type="checkbox"/> 2N914	<input type="checkbox"/> 2N2206	<input type="checkbox"/> 2N2899
<input type="checkbox"/> 2N706	<input type="checkbox"/> 2N1092	<input type="checkbox"/> 2N2476	<input type="checkbox"/> 2N2900
<input type="checkbox"/> 2N706A	<input type="checkbox"/> 2N1613	<input type="checkbox"/> 2N2477	<input type="checkbox"/> 2N2938
<input type="checkbox"/> 2N708	<input type="checkbox"/> 2N1708	<input type="checkbox"/> 2N2895	<input type="checkbox"/> 2N3119
<input type="checkbox"/> 2N718A	<input type="checkbox"/> 2N1711	<input type="checkbox"/> 2N2896	<input type="checkbox"/> 2N3262
<input type="checkbox"/> 2N720A	<input type="checkbox"/> 2N1893	<input type="checkbox"/> 2N2897	<input type="checkbox"/> 40084

Dissipations—5 to 49.9 Watts

<input type="checkbox"/> 2N1067	2N1184B	<input type="checkbox"/> 2N1485	<input type="checkbox"/> 2N2270
<input type="checkbox"/> 2N1068	<input type="checkbox"/> 2N1479	<input type="checkbox"/> 2N1486	<input type="checkbox"/> 2N2405
2N1183	<input type="checkbox"/> 2N1480	<input type="checkbox"/> 2N1700	<input type="checkbox"/> 2N2339
2N1183A	<input type="checkbox"/> 2N1481	<input type="checkbox"/> 2N1701	<input type="checkbox"/> 2N3053 /
2N1183B	<input type="checkbox"/> 2N1482	<input type="checkbox"/> 2N1768	40053
2N1184	<input type="checkbox"/> 2N1483	<input type="checkbox"/> 2N1769	<input type="checkbox"/> 2N3054
2N1184A	<input type="checkbox"/> 2N1484	<input type="checkbox"/> 2N2102	

APPLICATION GUIDE FOR RCA TRANSISTORS

Dissipations—50 Watts and Higher

2N173	2N1099	<input type="checkbox"/> 2N1511	<input type="checkbox"/> 2N2015
2N174	2N1100	<input type="checkbox"/> 2N1512	<input type="checkbox"/> 2N2016
2N277	2N1358	<input type="checkbox"/> 2N1513	<input type="checkbox"/> 2N2338
2N278	2N1412	<input type="checkbox"/> 2N1514	<input type="checkbox"/> 2N3055
2N441	<input type="checkbox"/> 2N1487	<input type="checkbox"/> 2N1702	<input type="checkbox"/> 2N3263
2N442	<input type="checkbox"/> 2N1488	<input type="checkbox"/> 2N1703	<input type="checkbox"/> 2N3264
2N443	<input type="checkbox"/> 2N1489	2N1905	<input type="checkbox"/> 2N3265
<input type="checkbox"/> 2N1069	<input type="checkbox"/> 2N1490	2N1906	<input type="checkbox"/> 2N3266
<input type="checkbox"/> 2N1070			

VIDEO AMPLIFIER

Small-Signal

2N274	2N1023	2N1225	2N1396
2N384	2N1066	2N1226	2N1397
<input type="checkbox"/> 2N699	2N1224	2N1395	<input type="checkbox"/> 2N3119

Power

<input type="checkbox"/> 2N1491	<input type="checkbox"/> 2N1493	<input type="checkbox"/> 2N2876	<input type="checkbox"/> 2N3229
<input type="checkbox"/> 2N1492	<input type="checkbox"/> 2N2631	<input type="checkbox"/> 2N3118	

^a For audio and inverter applications operating from a 12-volt supply.

^b Measured in resistor-capacitor-transistor circuit.

^c Bidirectional type. Silicon type.

For types designed to meet Military Specifications, see **RCA Military-Specifications Types**, T. pages 240-241.

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FOOTNOTES FOR TRANSISTORS

- ▲ Military version also available.
- † N-P-N type.
- †† Low-noise type.
- + With heat sink.
- ++ Similar to TO-18 package.
- ↓ Minimum.
- * Gain-bandwidth product.
- DEEP = Double-diffused epitaxial planar.
- TDJ = Triple-diffused junction.
- Typical power gain at 70 Mc for 10 mw output.
- Alpha-cutoff frequency.
- ▲▲ Typical power gain at 70 Mc for 100 mw output.
- ▲ Triple diffused planar.
- BV_{CBO}
- † Maximum
- § Typical value.
- ⊖ V_{CER} .
- ⊙ Collector capacitance.
- + BV_{CEX} , $V_{BE} = -1$ volt.
- Recommended for use in non-saturated circuits.
- ▽ Pulsed.
- Typical collector transition capacitance.
- V_{CES} .
- ★★ Free-air temperature.
- * BV_{CEO} .
- DJP = diffused-junction planar.
- DJ = diffused-junction.
- $I_{CBO}(\text{sat})$.
- ◆ Beta-cutoff frequency (kc).
- ★★★ $I_E = 1$ ma

FOOTNOTES FOR SILICON RECTIFIERS

- * With resistive or inductive load, except as noted.
- ★★ Dynamic characteristics.
- With capacitive load.
- † Static characteristic.
- ★ Free-air-temperature.
- ▲ Military version also available.

FOOTNOTES AND SYMBOLS FOR SILICON CONTROLLED-RECTIFIERS

- † Type 2N3228 is in a small "TO-3" type package.
- $i_{FM}(\text{peak surge})$ - Peak Surge Current
- i_{GKM} - Peak Forward Gate Current
- v_{GKM} - Peak Gate Voltage
- + $T_C = 100$ °C.
- * Pulsed.
- v_{FBCM} - Instantaneous Forward Blocking Voltage
- $V_{RM}(\text{non-rep})$ - Transient Peak Reverse Voltage
- $V_{RM}(\text{rep})$ - Peak Reverse Voltage

FOOTNOTES AND SYMBOLS FOR TUNNEL DIODES AND TUNNEL RECTIFIERS

- C_j - Junction Capacitance
- C_p - Case Capacitance
- $C = C_j + C_p$.
- I_p - Peak-Point Current
- I_p/I_v - Peak-Point-to-Valley-Point Current Ratio


FOOTNOTES AND SYMBOLS FOR VARACTORS


- C_j - Junction Capacitance
- f_c - Cutoff frequency
- P_D - Maximum Varactor Dissipation
- V_{BD} - Minimum Breakdown Voltage

▲	Type	Package
	V1000 Series	Pill
	V2000, V3000 Series	Prong
	V5000, V6000, V7000 Series	Double-Ended Cartridge

RCA Semiconductor-Products Selection Guide


TRANSISTORS — Audio Frequency —

 Type p-n-p	Material and Const.	JEDEC Pkg.	MAXIMUM RATINGS			CHARACTERISTICS				
			P_T at 25° C	V_{CB}	I_C	Typ. h_{FE} @ I_C (ma)		Typ. f_{hfb}	Max. I_{CBO}	
			mw	Volts	ma	h_{FE}	ma	Mc	μa	
TYPES FOR SMALL-SIGNAL AMPLIFIER APPLICATIONS			P_T : 20 to 150 milliwatts							
2N175	Ge Alloy	T0-40	20	-10	-2	65	-0.5	0.85	-12	
2N220 ^A	Ge Alloy	T0-1	20	-10	-2	65	-0.5	0.85	-12	
2N1010 [†]	Ge Alloy	T0-1	20	10	2	35	0.3	2	10	
2N591	Ge Alloy	T0-1	50	-32	-20	70	-2	0.7	-7	
2N2613 ^{††}	Ge Alloy	T0-1	100	-30	-50	200	-0.5	10	-5	
2N2614	Ge Alloy	T0-1	100	-40	-50	160	-1	10	-5	
2N104	Ge Alloy	T0-40	150	-30	-50	44	-1	0.7	-10	
2N215	Ge Alloy	T0-1	150	-30	-50	44	-1	0.7	-10	
2N405	Ge Alloy	T0-40	150	-20	-35	35	-1	0.65	-14	
2N406	Ge Alloy	T0-1	150	-20	-35	35	-1	0.65	-14	


 Type p-n-p	Material and Const.	JEDEC Pkg.	MAXIMUM RATINGS			CHARACTERISTICS				
			P_T @25°C	V_{CB}	I_C	Typ. h_{FE} @ I_C (ma)		Typ. f_{hfb}	Typ. f_T	
			Watts	Volts	Amp	h_{FE}	ma	Mc	Mc	
TYPES FOR LARGE-SIGNAL AMPLIFIER APPLICATIONS - Classes A & B			P_T : 0.1 to 50 watts							
2N647 [†]	Ge Alloy	T0-1	0.1	25	0.05	70	50	-	-	
2N649 [†]	Ge Alloy	T0-1	0.1	20	0.05	65	50	-	-	
2N407	Ge Alloy	T0-40	0.15	-20	-0.07	65	-50	-	-	
2N408	Ge Alloy	T0-1	0.15	-20	-0.07	65	-50	-	-	
2N109	Ge Alloy	T0-40	0.165	35	0.15	75	-50	1	-	
2N217	Ge Alloy	T0-1	0.165	35	0.15	75	-50	1	-	
2N270	Ge Alloy	~T0-7	0.25	-25	-0.075	70	-150	1	-	
2N2953	Ge Alloy	T0-1	0.3 [†]	-30	-0.15	350	-10	10	-	
2N176	Ge Alloy	T0-3	10	-40	-3	63	-500	-	-	
2N351	Ge Alloy	T0-3	10	-40	-3	65	-700	-	-	
2N376	Ge Alloy	T0-3	10	-40	-3	78	-700	-	-	
2N301			See 2N2869/2N301							
2N301A			See 2N2870/2N301A							

RCA Semiconductor-Products Selection Guide

Audio Frequency - Large-Signal Ampl cont'd


 Type p-n-p	Material and Const.	JEDEC Pkg.	MAXIMUM RATINGS			CHARACTERISTICS			
			P_T @25°C	V_{CB}	I_C	Typ. h_{FE} @ I_C (ma)		Typ. f_{hfb}	Typ. f_T
			Watts	Volts	Amp	h_{FE}	ma	Mc	Mc
2N2147	Ge Drift-Field	T0-3	12.5 ⁺	-75	-5	150	-1000	-	4
2N2148	Ge Drift-Field	T0-3	12.5 ⁺	-60	-5	80	-1000	-	3
40051	Ge Alloy	T0-3	12.5 ⁺	-50	-5	90	-1000	-	0.5
40050	Ge Alloy	T0-3	12.5 ⁺	-40	-5	90	-1000	-	0.5
40022	Ge Alloy	T0-3	12.5 ⁺	-32	-5	50	-1000	-	0.3
2N2869/ 2N301	Ge Alloy	T0-3	30 ⁺	-60	-10	90	-1000	-	0.45
2N2870/ 2N301A	Ge Alloy	T0-3	30 ⁺	-80	-10	90	-1000	-	0.45
2N1905	Ge Drift-Field	T0-3	50 ⁺	-60	-10	90	-1000	-	7.5
2N1906	Ge Drift-Field	T0-3	50 ⁺	-100	-10	125	-5000	-	7.5

— Radio Frequency —

 Type p-n-p	Material and Const.	JEDEC Pkg.	TYPICAL OPERATING FREQUENCY and Max. P_g		Typ. f_{hfb}	Typ. h_{fe} @ I_C		Max. V_{CB}
			Mc	db	Mc	h_{fe}	ma	volts
TYPES FOR IF AND RF AMPLIFIER SERVICE			Frequency of Application: 0.262 to 1200 Mc					
2N2857 [†]	Si DDEP	++	450	12.5	1000 [*]	50	2	30
2N2708 [†]	Si DDEP	T0-18	200	15	700 [*]	30 [↓]	2	35
2N2482 [†]	Ge Mesa	T0-18	100	12	300 [*]	25 [↓]	2	20
2N2273	Ge Mesa	T0-18	100	12	300 [*]	20 [↓]	-1	-25
2N1177	Ge Drift-Field	T0-45	100	14	140	100	-1	-30
2N1023	Ge Drift-Field	T0-44	50	24	120	60	-1	-40
2N1066	Ge Drift-Field	T0-33	50	24	120	60	-1.5	-40
2N1397	Ge Drift-Field	T0-33	50	24	120	90	-1.5	-40
2N384	Ge Drift-Field	T0-44	50	21	100	60	-1	-40


RCA Semiconductor-Products Selection Guide


Radio Frequency - IF & RF Types cont'd

 Type p-n-p	Material and Const.	JEDEC Pkg.	TYPICAL OPERATING FREQUENCY and Max. P _g		Typ. f _{hfb} Mc	Typ. h _{fe} @ I _C		Max. V _{CB} volts
			Mc	db		h _{fe}	ma	
2N1225	Ge Drift Field	T0-33	50	21	100	60	-1.5	-40
2N1396	Ge Drift Field	T0-33	50	21	100	90	-1.5	-40
2N370	Ge Drift Field	T0-7	20	17	30	100	-1	-24
2N274	Ge Drift Field	T0-44	12.5	27	30	60	-1.5	-40
2N1224	Ge Drift Field	T0-33	12.5	27	30	60	-1.5	-40
2N1395	Ge Drift Field	T0-33	12.5	27	30	90	-1.5	-40
2N1180	Ge Drift Field	T0-45	10.7	35	100	80	-1.5	-30
2N1631	Ge Drift Field	T0-40	1.5	47.7	45	80	-1	-34
2N1632	Ge Drift Field	T0-1	1.5	47.7	45	80	-1	-34
2N1637	Ge Drift Field	T0-1	1.5	47.7	45	80	-1	-34
2N139	Ge Alloy	T0-40	0.455	37	4.7	48	-1	-16
2N218	Ge Alloy	T0-1	0.455	37	4.7	48	-1	-16
2N409	Ge Alloy	T0-40	0.455	37.8	6.7	48	-1	-13
2N410	Ge Alloy	T0-1	0.455	37.8	6.7	48	-1	-13
2N1425	Ge Drift Field	T0-7	0.455	51	33	50	-1	-24
2N1524	Ge Drift Field	T0-1	0.455	54.4	33	60	-1	-24
2N1525	Ge Drift Field	T0-40	0.455	54.4	33	60	-1	-24
2N1638	Ge Drift Field	T0-1	0.262	61.5	40	75	-1	-34
TYPES FOR CONVERTER, OSCILLATOR, AND MIXER SERVICE						Frequency of Appli- cation: 1 to 120 Mc		
2N1178	Ge Drift Field	T0-45	120	Local Oscillator Service	140	40	-1	-30
2N1179	Ge Drift Field	T0-45	100	17	140	80	-1	-30
2N371	Ge Drift Field	T0-7	23	Local Oscillator Service	30	80	-1	-24
2N372	Ge Drift Field	T0-7	10	26.2	30	80	-1	-24

RCA Semiconductor-Products Selection Guide


Radio Frequency - Conv, Osc, & Mix cont'd

 Type p-n-p	Material and Const.	JEDEC Pkg.	TYPICAL OPERATING FREQUENCY and Max. P _g		Typ. f _{hfb}	Typ. h _{fe} @I _C		Max. V _{CB}
			Mc	db	Mc	h _{fe}	ma	volts
2N1426	Ge Drift Field	T0-7	1.5	43.5	33	130	-1	-24
2N1526	Ge Drift Field	T0-1	1.5	48.9	33	130	-1	-24
2N1527	Ge Drift Field	T0-40	1.5	48.9	33	130	-1	-24
2N1639	Ge Drift Field	T0-1	1.5	37	45	75	-1	-34
2N140	Ge Alloy	T0-40	1	32	10	75	-0.6	-16
2N219	Ge Alloy	T0-1	1	32	10	75	-0.6	-16
2N411	Ge Alloy	T0-40	1	32	10	75	-0.6	-13
2N412	Ge Alloy	T0-1	1	32	10	75	-0.6	-13

 Type p-n-p	Material and Const.	JEDEC Pkg.	Max. P _T (case)	CHARACTERISTICS				
				Min. V _{CEV}	Min. V _{CE} (sus)	Min. h _{FE}	Max. V _{CE} (sat)	Typ. f _T
				Watts	Volts	Volts	h _{FE} @ I _C Amp	Volts@ I _C Amp
RF POWER TYPES				PT: 3 to 17.5 watts Frequency: to 500 Mc				
2N1491 [†]	Si TDJ	T0-39	3	30	-	50* @ .015a	15db ^{●●}	250 [■]
2N1492 [†]	Si TDJ	T0-39	3	60	-	50* @ .015a	15db ^{▲▲}	275 [■]
2N1493 [†]	Si TDJ	T0-39	3	100	-	50* @ .015a	16db ^{●●}	300 [■]
2N3118 [†]	Si ▲	T0-5	4	85	-	50 @ 0.025a	-	380
2N2631 [†]	Si ▲	T0-39	8.75	80	60	-	1 @ 1.5a	200
2N2876 [†]	Si ▲	Fig. 1	17.5	80	60	-	1 @ 2.5a	200


RCA Semiconductor-Products Selection Guide

— Computer Switching —

 Type p-n-p	Material and Construction	JEDEC Pkg.	CHARACTERISTICS				MAXIMUM RATINGS	
			Min. f _T or f _{hfe}	Min. h _{FE} @ I _C		Max. C _{ob}	P _T	V _{CE}
			Mc	h _{FE}	ma	pf	mw	volts
TYPES FOR HIGH-VOLTAGE SWITCHING APPLICATIONS			V _{CE} : to 105 volts					
2N398 [▲]	Ge Alloy	T0-5	-	20	-5	-	50	-105 [●]
2N398A	Ge Alloy	T0-5	-	20	-5	-	150	-105 [●]
2N398B	Ge Alloy	T0-5	-	20	-5	-	250	-105 [●]
2N586	Ge Alloy	T0-7	-	30	-250	-	250	-45 [●]
TYPES FOR MEDIUM-SPEED SWITCHING APPLICATIONS			f _{hfe} : 3 to 15 Mc					
2N585 [†]	Ge Alloy	T0-5	3 [■]	20	20	25 [⊗]	120	15 [●]
2N1319	Ge Alloy Bidirectional	T0-5	3 [■]	15	-400	19 [⊗]	120	-21 [●]
2N395 [†]	Ge Alloy	T0-5	3 [■]	20	-10	20	150	-15 [⊕]
2N1302 [†]	Ge Alloy	T0-5	3 [■]	20	10	20	150	25 [●]
2N1303 [▲]	Ge Alloy	T0-5	3 [■]	20	-10	20	150	-30 [●]
2N404 [▲]	Ge Alloy	T0-5	4 [■]	24	-24	20 [⊗]	150	-24 [⊕]
2N404A	Ge Alloy	T0-5	4 [■]	24	-24	20 [⊗]	150	-35 [⊕]
2N581	Ge Alloy	T0-5	4 [■]	20	-20	20 [⊗]	150	-15 [⊕]
2N1605 [†]	Ge Alloy	T0-5	4 [■]	24	24	20	150	24 [⊕]
2N1605A [†]	Ge Alloy	T0-5	4 [■]	24	24	20 [⊗]	200	40 [⊕]
2N1169 [†]	Ge Alloy Bidirectional	T0-5	4.5 [■]	20	200	19 [⊗]	120	18
2N1170 [†]	Ge Alloy Bidirectional	T0-5	4.5 [■]	20	200	19 [⊗]	120	20
2N1090 [†]	Ge Alloy	T0-5	5 [■]	30	20	25	120	15
2N388 [†]	Ge Alloy	T0-5	5 [■]	30	200	-	150	20 [⊕]
2N388A	Ge Alloy	T0-5	5 [■]	30	200	-	150	20 [⊕]
2N396	Ge Alloy	T0-5	5 [■]	30	-10	20	150	-20 [⊕]
2N1304 [†]	Ge Alloy	T0-5	5 [■]	40	10	20	150	25 [●]
2N1305 [▲]	Ge Alloy	T0-5	5 [■]	40	-10	20	150	-30 [●]
2N396A	Ge Alloy	T0-5	5 [■]	30	-10	20	200	-20
2N414	Ge Alloy	T0-5	8 [■]	80 [■]	★★★	11 [⊗]	150	-15
2N1091 [†]	Ge Alloy	T0-5	10 [■]	40	20	25	120	12
2N397	Ge Alloy	T0-5	10 [■]	40	-10	20	150	-15 [⊕]
2N1306 [†]	Ge Alloy	T0-5	10 [■]	60	10	20	150	25 [●]
2N1307 [▲]	Ge Alloy	T0-5	10 [■]	60	-10	20	150	-30 [●]


RCA Semiconductor-Products Selection Guide

Computer Switching - Medium-Speed Switching cont'd

 Type p-n-p	Material and Construction	JEDEC Pkg.	CHARACTERISTICS				MAXIMUM RATINGS	
			Min. f_T or f_{hfe}	Min. h_{FE} @ I_C		Max. C_{ob}	P_T	V_{CE}
			Mc	h_{FE}	ma	pf	mw	volts
2N269	Ge Alloy	T0-1	13 ^S	24	-24	20 [◇]	120	-24 ⁴
2N582	Ge Alloy	T0-5	14 [■]	40	-24	20 [◇]	150	-14 ⁴
2N1308 [†] ▲	Ge Alloy	T0-5	15 [■]	80	10	20	150	25 [●]
2N1309	Ge Alloy	T0-5	15 [■]	80	10	20	150	-30 [●]
3907/2N404 Premium version of 2N404								
TYPES FOR HIGH-SPEED SWITCHING APPLICATIONS			f_T : 20 to 1000 Mc					
2N1384	Ge Drift-Field	T0-11	20	20	-200	-	240	-30
2N1300	Ge Mesa	T0-5	25	30	-10	12 [◇]	150	-12
2N934	Ge Mesa	T0-18	35	40	-40	12	150	-13
2N1301	Ge Mesa	T0-5	35	30	-10	12 [◇]	150	-12
2N1853 [†] ▲	Ge Mesa	T0-5	-	30	-6	-	150	-6
2N1854 [†] ▲	Ge Mesa	T0-5	40	40	-20	12	150	-6
2N1683	Ge Mesa	T0-5	50	50	-10	12 [◇]	150	-12
2N1613 [†] ■	Si Triple-Diffused Planar	T0-5	60	20	0.1	25	800	50 ^{††}
2N2102 [†] ■	Si Triple-Diffused Planar	T0-5	60	10	0.1	15	1000	80 ^{††}
2N2270 [†] ■	Si Triple-Diffused Planar	T0-5	60	50	150 [▽]	15	1000	60 [●]
2N1711 [†] ■	Si Triple-Diffused Planar	T0-5	70	100 [▽]	150	25	800	50 ^{††}
2N697 [†] ▲	Si Diffused Junction	T0-5	100 ^S	40	150	35	600	40 ^{††}
2N711	Ge Mesa	T0-18	200 ^S	20	-10	5 [▽]	150	-12
2N706 [†] ▲	Si Mesa	T0-18	200	20	10	6	300	20 ^{††}
2N706A [†] ▲	Si Mesa	T0-18	200	20	10	-	300	20 ^{††}
2N1708 [†]	Si Planar-Epitaxial	T0-46	200	20	10	6	300	25 [●]
2N2205 [†]	Si Planar-Epitaxial	T0-18	200	20	10	6	300	25 [●]
2N2206 [†]	Si Planar-Epitaxial	T0-46	200	40	10	6	300	25 [●]


RCA Semiconductor-Products Selection Guide

Computer Switching - High-Speed Switching cont'd

 Type p-n-p	Material and Construction	JEDEC Pkg.	CHARACTERISTICS				MAXIMUM RATINGS	
			Min. f_T or f_{hfe}	Min. h_{FE} @ I_C		Max. C_{ob}	P_T	V_{CE}
				Mc	h_{FE}			
2N2476†	Si Planar-Epitaxial	T0-5	250	20	150	10	600	20
2N2477†	Si Planar-Epitaxial	T0-5	250	40	150	10	600	20
2N960	↑ Ge Epitaxial Mesa ↓	T0-18	300	20	-10	4	300	-15
2N961		T0-18	300	20	-10	4	300	-12
2N962		T0-18	300	20	-10	4	300	-12
2N963		T0-18	300	20	-10	5	300	-12
2N964		T0-18	300	40	-10	4	300	-15
2N965		T0-18	300	40	-10	4	300	-12
2N966		T0-18	300	40	-10	4	300	-12
2N967		T0-18	300	40	-10	5	300	-12
2N705	Ge Mesa	T0-5	300 [⊗]	25	-10	5 [⊗]	150	-15
2N710	Ge Mesa	T0-18	300 [⊗]	25	-10	5 [⊗]	150	-15
2N828	Ge Mesa	T0-18	300	25	-10	6	150	-15 [⊖]
2N914†	Si Planar-Epitaxial	T0-18	300	30	10	6	360	15
2N834†	Si Planar-Epitaxial	T0-18	350	25	10	4	300	30 [⊖]
2N709†	Si Planar-Epitaxial	T0-18	600	15	30	3	300	6
2N2475†	Si Planar-Epitaxial	T0-18	600	20	50	3	300	6
2N2938†	Si Planar-Epitaxial	T0-18	600	25	10	4	300	13
2N955†	Ge Mesa	T0-18	1000 [⊗]	30	30	6	150	8
2N955A†	Ge Epitaxial	T0-18	1000 [⊗]	30	30	6	150	8
2N708†	Si Planar	T0-18	-	30	10	6	360	20 [⊕]


RCA Semiconductor-Products Selection Guide

— Power Switching and Power Amplifier —

 Type p-n-p	Material and Const.		JEDEC Pkg.	Max. P_T (case)	CHARACTERISTICS				
					Min. V_{CEV}	Min. V_{CE} (sus)	Min. h_{FE}	Max. V_{CE} (sat)	Typ. f_T
					Watts	Volts	Volts	h_{FE} @ I_C Amp	Volts @ I_C Amp
MEDIUM-POWER TYPES P_T: 0.5 to 5 watts									
40080†	Si	▲	T0-39	0.5**	30*	30	-	-	300↓
40084†	Si	Planar	T0-18	1.8	40*	40	50 @ 0.15a	1.4 @ 0.15a	100↓
2N718A†	Si	DJP	T0-18	1.8	50 [⊕]	-	40 @ 0.15a	1.2 @ 0.05a	60↓
2N2897†	Si	DJP	T0-18	1.8	60 [⊕]	45	50 @ 0.15a	1.0 @ 0.15a	100↓
2N2900†	Si	DJP	T0-46	1.8	60 [⊕]	45	50 @ 0.15a	1.0 @ 0.15a	100↓
2N2895†	Si	DJP	T0-18	1.8	80 [⊕]	65	40 @ 0.15a	0.6 @ 0.15a	120↓
2N2898†	Si	DJP	T0-46	1.8	80 [⊕]	65	40 @ 0.15a	0.6 @ 0.15a	120↓
2N720A†	Si	DJP	T0-18	1.8	100 [⊕]	80	40 @ 0.15a	1.5 @ 0.15a	50↓
2N2896†	Si	DJP	T0-18	1.8	140 [⊕]	90	60 @ 0.15a	0.6 @ 0.15a	120↓
2N2899†	Si	DJP	T0-46	1.8	140 [⊕]	90	60 @ 0.15a	0.6 @ 0.15a	120↓
40081†	Si	▲	T0-39	2	-	-	-	-	300
2N1092†	Si	DJ	T0-5	2	60 [○]	-	15 @ 0.2 a	2 @ 0.2 a	1.5 [■]
2N699†	Si	▲	T0-5	2	80 [⊕]	80	40 @ 0.15a	5 @ 0.15 a	50↓
2N1613†	Si	▲	T0-5	3	50	-	35 @ .01 a	1.5 @ 0.15 a	60↓
2N1893†	Si	DJP	T0-5	3	80*	80	40 @ 0.15a	1.2 @ 0.05a	50↓
2N3119†	Si	▲	T0-5	4	100	80	40 @ 0.01a	0.5 @ 0.1a	250↓
40082†	Si	▲	T0-39	5	60	-	-	-	-
2N3053/ 40053	Si	▲	T0-5	5	60	40	50 @ 0.15a	1.4 @ 0.15a	100↓
2N1067†	Si	DJ	T0-8	5	60 [○]	-	15 @ 0.2 a	2 @ 0.2 a	1.5 [■]


RCA Semiconductor-Products Selection Guide

Pwr Sw & Pwr Ampl - Med Pwr cont'd

 Type p-n-p	Material and Const.		JEDEC Pkg.	Max. P _T (case)	CHARACTERISTICS				
					Min. V _{CEV}	Min. V _{CE} (sus)	Min. h _{FE}	Max. V _{CE} (sat)	Typ. f _T
					Watts	Volts	Volts	h _{FE} @ I _C Amp	Volts@ I _C Amp
2N1479† [▲]	Si	DJ	T0-5	5	60	40	20 @ 0.2 a	1.4 @ 0.2 a	1.5 [■]
2N1481† [▲]	Si	DJ	T0-5	5	60	40	35 @ 0.2 a	1.4 @ 0.2 a	1.5 [■]
2N1700†	Si	DJ	T0-5	5	60	40	20 @ 0.1 a	1 @ 0.1 a	-
2N2270†	Si	♣	T0-5	5	60	45	35 @ .001 a	0.9 @ 0.15 a	60↓
2N2405†	Si	DJP	T0-5	5	90 [★]	90	60 @ 0.15 a	0.2 @ 0.05 a	120↓
2N1480† [▲]	Si	DJ	T0-5	5	100	55	20 @ 0.2 a	1.4 @ 0.2 a	1.5 [■]
2N1482† [▲]	Si	DJ	T0-5	5	100	55	35 @ 0.2 a	1.4 @ 0.2 a	1.5 [■]
2N2102†	Si	♣	T0-5	5	80	65	35 @ .01 a	0.5 @ 0.15 a	60↓
INTERMEDIATE POWER TYPES					P _T : 7.5 to 40 watts				
2N1183 [▲]	Ge	Alloy	T0-8	7.5 [‡]	-45	-	20 @ -0.4 a	-0.5 @ -0.4 a	0.5 [■] ↓
2N1184 [▲]	Ge	Alloy	T0-8	7.5 [‡]	-45	-	40 @ -0.4 a	-0.5 @ -0.4 a	0.5 [■] ↓
2N1183A [▲]	Ge	Alloy	T0-8	7.5 [‡]	-60	-	20 @ -0.4 a	-0.5 @ -0.4 a	0.5 [■] ↓
2N1184A [▲]	Ge	Alloy	T0-8	7.5 [‡]	-60	-	40 @ -0.4 a	-0.5 @ -0.4 a	0.5 [■] ↓
2N1183B [▲]	Ge	Alloy	T0-8	7.5 [‡]	-80	-	20 @ -0.4 a	-0.5 @ -0.4 a	0.5 [■] ↓
2N1184B [▲]	Ge	Alloy	T0-8	7.5 [‡]	-80	-	40 @ -0.4 a	-0.5 @ -0.4 a	0.5 [■] ↓
2N2631	Si	♣	T0-39	8.75	80 [★]	60	-	1 @ 0.3 a	200↓
2N1068†	Si	DJ	T0-8	10	60 [□]	-	15 @ 0.2 a	2 @ 0.75 a	1.5 [■]
2N2147	Ge	Drift Field	T0-3	12.5	-50	-	100 @ 1 a	-70 μa max. ●	4
2N2148	Ge	Drift Field	T0-3	12.5	-40	-	40 @ 1 a	-100 μa max. ●	3

RCA Semiconductor-Products Selection Guide

Pwr Sw & Pwr Ampl - Intermed Pwr cont'd

 Type p-n-p	Material and Const.		JEDEC Pkg.	Max. P_T (case)	CHARACTERISTICS				
					Min. V_{CEV}	Min. V_{CE} (sus)	Min. h_{FE}	Max. V_{CE} (sat)	Typ. f_T
					- Watts	Volts	Volts	h_{FE} @ I_C Amp	Volts @ I_C Amp
2N1483†▲	Si	DJ	T0-8	25	60	40	20 @ 0.75a	2 @ 0.75 a	1.25■
2N1485†▲	Si	DJ	T0-8	25	60	40	35 @ 0.75a	0.75 @ 0.75 a	1.25■
2N1701†	Si	DJ	T0-8	25	60	40	20 @ 0.3 a	1.5 @ 0.3 a	-
2N3054†	Si	▲	Fig.2	25	90	55	25 @ 0.5a	1 @ 0.5a	1.2↓
2N1484†▲	Si	DJ	T0-8	25	100	55	20 @ 0.75a	2 @ 0.75 a	1.25■
2N1486†▲	Si	DJ	T0-8	25	100	55	35 @ 0.75a	0.75 @ 0.75 a	1.25■
2N2869/ 2N301	Ge	Alloy	T0-3	30	50	-	50 @ 1.0a	0.75 @ 10a	0.2↓
2N2870/ 2N301A	Ge	Alloy	T0-3	30	50	-	50 @ 1.0a	0.75 @ 10a	0.2↓
2N1768†	Si	DJ	Offset Stud	40	60	40	35 @ 0.75a	0.75 @ 0.75 a	1.25■
2N2339†	Si	DJ	Offset Stud	40	60	40	20 @ 0.3 a	1.5 @ 3 a	-
2N1769†	Si	DJ	Offset Stud	40	100	55	35 @ 0.75a	0.75 @ 0.75 a	1.25■
HIGH POWER TYPES					P_T : 50 to 150 watts				
2N1069†	Si	DJ	T0-3	50	60°	-	10 @ 1.5 a	3 @ 1.5 a	1.2■
2N1070†	Si	DJ	T0-3	50	60°	-	20 @ 1.5 a	1 @ 1.5 a	1.2■
2N1487†	Si	DJ	T0-3	75	60	40	15 @ 1.5 a	3 @ 1.5 a	1■
2N1489†	Si	DJ	T0-3	75	60	40	25 @ 1.5 a	3 @ 1.5 a	1■
2N1511†	Si	DJ	T0-36	75	60	40	15 @ 1.5 a	3 @ 1.5 a	1■
2N1513†▲	Si	DJ	T0-36	75	60	40	25 @ 1.5 a	1 @ 1.5 a	1■
2N1702†	Si	DJ	T0-3	75	60	40	15 @ 0.8 a	3.2 @ 0.8 a	-
2N1703†	Si	DJ	T0-36	75	60	40	15 @ 0.8 a	3.2 @ 0.8 a	-

RCA Semiconductor-Products Selection Guide


Pwr Sw & Pwr Ampl - High Pwr cont'd

 Type p-n-p	Material and Const.		JEDEC Pkg.	Max. P_T (case)	CHARACTERISTICS				
					Min. V_{CEV}	Min. V_{CE} (sus)	Min. h_{FE}	Max. V_{CE} (sat)	Typ. f_T
					Watts	Volts	Volts	h_{FE} @ I_C Amp	Volts @ I_C Amp
2N1488†	Si	DJ	T0-3	75	100	55	15 @ 1.5 a	3 @ 1.5 a	1
2N1490†	Si	DJ	T0-3	75	100	55	25 @ 1.5 a	1 @ 1.5 a	1
2N1512†	Si	DJ	T0-36	75	100	55	15 @ 1.5 a	3 @ 1.5 a	1
2N1514† [▲]	Si	DJ	T0-36	75	100	55	25 @ 1.5 a	1 @ 1.5 a	1
2N3055	Si	DJ	T0-3	115	100	60	20 @ 4a	1.1 @ 4a	0.71
2N277	Ge	Alloy	T0-36	150 ^{††}	-40	-	35 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N441	Ge	Alloy	T0-36	150 ^{††}	-40	-	20 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N278	Ge	Alloy	T0-36	150 ^{††}	-50	-	35 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N442	Ge	Alloy	T0-36	150 ^{††}	-50	-	20 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N173	Ge	Alloy	T0-36	150 ^{††}	-60	-	35 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N174 [▲]	Ge	Alloy	T0-36	150 ^{††}	-60	-	25 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N443	Ge	Alloy	T0-36	150 ^{††}	-60	-	20 @ -5 a	-0.7 @ -12 a	10 kc ♦
2N1099	Ge	Alloy	T0-36	150 ^{††}	-	-	35 @ -5 a	-0.3 @ -12 a	10 kc ♦
2N1100	Ge	Alloy	T0-36	150 ^{††}	-	-	25 @ -5 a	-0.3 @ -12 a	10 kc ♦
2N1358	Ge	Alloy	T0-36	150 ^{††}	-	-	25 @ -0.5a	-0.7 @ -12 a	100kc ♦
2N1412	Ge	Alloy	T0-36	150 ^{††}	-	-	25 @ -0.5a	-0.7 @ -12 a	10 kc ♦
2N2330†	Si	DJ	T0-36	150	60	40	15 @ 3 a	1.5 @ 3 a	-
2N2015†	Si	DJ	T0-36	150	100	50†	15 @ 5 a	1.25 @ 5 a	25 kc ♦
2N2016†	Si	DJ	T0-36	150	130	65†	15 @ 5 a	1.25 @ 5 a	25 kc ♦


RCA Semiconductor-Products Selection Guide

SILICON RECTIFIERS

— Consumer-Product Applications —



 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		PRV	$I_F(av)^*$ @ $T_{FA} = 0^{\circ}C$		I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Volts	Amp	T	Amp	Amp	Volts	ma
TUBULAR SINGLE-ENDED TYPES FOR CONSUMER-PRODUCT APPLICATIONS		PRV: 100 to 400 Volts						
1N3754	~T0-1	100	0.125	65	1.3	30	1	0.3
1N3755	~T0-1	200	0.125	65	1.3	30	1	0.3
1N3756	~T0-1	400	0.125	65	1.3	30	1	0.3
AXIAL-LEAD TYPES FOR TV AND RADIO RECEIVER APPLICATIONS		I_F : 0.5 Ampere						
1N1763	D0-1	400	0.5 \square	75 \ddagger	5	35	3	0.1 \ddagger
1N1764	D0-1	500	0.5 \square	75 \ddagger	5	35	3	0.1 \ddagger

— Industrial and Consumer-Product Applications —

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		PRV	$I_F(av)^*$ @ $T_{FA} = 0^{\circ}C$		I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Volts	Amp	T	Amp	Amp	Volts	ma
AXIAL-LEAD TYPES		PRV: 50 to 1000 Volts						
1N2858	D0-1	50	0.75 0.5 \square	75	-	40	1.2	0.4
1N2859	D0-1	100	0.75 0.5 \square	75	-	40	1.2	0.4
1N3193	~T0-1	200	0.75 0.5 \square	75	6 \sim	35 \square	1.2	0.2
1N3253	Insulated version of 1N3193							
1N2860	D0-1	200	0.75 0.5 \square	75	-	40	1.2	0.4
1N2861	D0-1	300	0.75 0.5 \square	75	-	40	1.2	0.3
1N3194	~T0-1	400	0.75 0.5 \square	75	6 \sim	35 \square	1.2	0.2


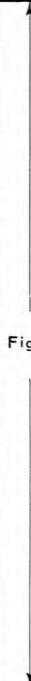
RCA Semiconductor-Products Selection Guide

Indust & Cons Prod - Axial Lead cont'd

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		PRV	$I_F(av)^*$ @ $T_{FA} = 0^{\circ}C$		I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Volts	Amp	T	Amp	Amp	Volts	ma
1N3254	Insulated version of 1N3194							
1N2862	D0-1	400	0.75 0.5 \square	75	-	40	1.2	0.3
1N2863	D0-1	500	0.75 0.5 \square	75	-	40	1.2	0.3
1N2864	D0-1	600	0.75	75	-	40	1.2	0.3
1N3195	~T0-1	600	0.75 0.5 \square	75	6	35	1.2	0.2
1N3255	Insulated version of 1N3195							
1N3196	~T0-1	800	0.5 0.4 \square	75	5	35	1.2	0.2
1N3256	Insulated version of 1N3196							
1N3563	~T0-1	1000	0.4 0.3 \square	75	4	35	1.2	0.2
HIGH-VOLTAGE TYPES		PRV: 1200 to 12000 Volts						
CR101	 Fig. 3	1200	0.85	60	5	15	1.2	0.3
CR201		1500	0.3	60	3	9	1.8	0.1
CR102		2000	0.825	60	5	15	2.4	0.3
CR103		3000	0.725	60	5	15	3	0.3
CR203		3000	0.3	60	3	9	3	0.1
CR104		4000	0.625	60	5	15	4.2	0.3
CR204		4500	0.3	60	3	9	3.6	0.1
CR105		5000	0.625	60	5	15	4.8	0.3
CR106		6000	0.575	60	5	15	6	0.3
CR206		6000	0.3	60	3	9	6	0.1
CR107		7000	0.55	60	5	15	7.2	0.3
CR108		8000	0.55	60	5	15	7.8	0.3
CR208		8000	0.3	60	3	9	6	0.1
CR109		9000	0.55	60	5	15	9	0.3
CR110		10000	0.55	60	5	15	9.6	0.3
CR210		10000	0.3	60	3	9	7.2	0.1
CR212		20000	0.3	60	3	9	9	0.1
CR301		2400	5	50	-	250	-	1.5


RCA Semiconductor-Products Selection Guide

Indust & Cons Prod - High Voltage cont'd

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		PRV	$I_F(av)^*$ @ $T_{FA} = 0C$		I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Volts	Amp	T	Amp	Amp	Volts	ma
CR311	 Fig. 3	2400	9	50	-	250	-	1.5
CR321		2400	12	50	-	400	-	1.5
CR331		2400	17	50	-	400	-	1.5
CR341		2400	23	50	-	850	-	1.5
CR351		2400	35	50	-	850	-	1.5
CR302		3600	5	50	-	250	-	1.5
CR312		3600	9	50	-	250	-	1.5
CR322		3600	12	50	-	400	-	1.5
CR332		3600	17	50	-	400	-	1.5
CR342		3600	23	50	-	850	-	1.5
CR352		3600	35	50	-	850	-	1.5
CR303		4800	5	50	-	250	-	1.5
CR313		4800	9	50	-	250	-	1.5
CR323		4800	12	50	-	400	-	1.5
CR333		4800	17	50	-	400	-	1.5
CR343		4800	23	50	-	850	-	1.5
CR353		4800	35	50	-	850	-	1.5
CR304		6000	5	50	-	250	-	1.5
CR314		6000	9	50	-	250	-	1.5
CR324		6000	12	50	-	400	-	1.5
CR334		6000	17	50	-	400	-	1.5
CR344		6000	23	50	-	850	-	1.5
CR354		6000	35	50	-	850	-	1.5
CR305		7200	5	50	-	250	-	1.5
CR315		7200	9	50	-	250	-	1.5
CR325		7200	12	50	-	400	-	1.5
CR335		7200	17	50	-	400	-	1.5
CR306		8400	5	50	-	250	-	1.5
CR316		8400	9	50	-	250	-	1.5
CR307		9600	5	50	-	250	-	1.5
CR317	9600	9	50	-	250	-	1.5	


RCA Semiconductor-Products Selection Guide

— Military & Industrial Applications —

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		$I_F(av)^*$ @ $T_C = 0^\circ C$		PRV	I_F peak rep.	I_F peak surge	Max. EFWD	Max. I_R^{**}
		Amp	T_C	Volts	Amp	Amp	Volts	ma
AXIAL-LEAD TYPES		I_F : 0.5 Ampere						
1N444B	D0-1	0.65	50 ^{3A}	500	3.5	15	1.5	1.75 μa †
1N445B	D0-1	0.65	50 ^{3A}	600	3.5	15	1.5	2 μa †
1N536	D0-1	0.75	50 ^{3A}	50	-	15	1.1	5 μa †
1N440B	D0-1	0.75	50 ^{3A}	100	3.5	15	1.5	0.3 μa †
1N537	D0-1	0.75	50 ^{3A}	100	-	15	1.1	5 μa †
1N441B	D0-1	0.75	50 ^{3A}	200	3.5	15	1.5	0.75 μa †
1N538 ^A	D0-1	0.75	50 ^{3A}	200	-	15	1.1	5 μa †
1N442B	D0-1	0.75	50 ^{3A}	300	3.5	15	1.5	1 μa †
1N539	D0-1	0.75	50 ^{3A}	300	-	15	1.1	5 μa †
1N443B	D0-1	0.75	50 ^{3A}	400	3.5	15	1.5	1.5 μa †
1N540 ^A	D0-1	0.75	50 ^{3A}	400	-	15	1.1	5 μa †
1N1095	D0-1	0.75	50 ^{3A}	500	-	15	1.2	5 μa †
1N547 ^A	D0-1	0.75	50 ^{3A}	600	-	15	1.2	5 μa †
STUD-MOUNTED TYPES		I_F : 5 to 40 Amperes						
1N1612, 1N1612R	D0-4	5	135	50	15	-	1.5	1
1N1613, 1N1613R	D0-4	5	135	100	15	-	1.5	1
1N1614, 1N1614R	D0-4	5	135	200	15	-	1.5	1
1N1615, 1N1615R	D0-4	5	135	400	15	-	1.5	1
1N1616, 1N1616R	D0-4	5	135	600	15	-	1.5	1
40108	D0-4	10	150	50	40	140	0.6	2
40109	D0-4	10	150	100	40	140	0.6	2
40110	D0-4	10	150	200	40	140	0.6	1.5
40111	D0-4	10	150	300	40	140	0.6	1.5
40112	D0-4	10	150	400	40	140	0.6	1
40114	D0-4	10	150	600	40	140	0.6	0.75
40115	D0-4	10	150	800	40	140	0.6	0.65
40116	D0-4	10	150	1000	40	140	0.6	0.5
1N1199A	D0-4	12	150	50	50	240	0.55	3
1N1199RA	D0-4	12	150	50	50	240	0.55	3
1N1200A	D0-4	12	150	100	50	240	0.55	2.5

RCA Semiconductor-Products Selection Guide


Mil & Indust - Stud Mounted cont'd

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		$I_F(\text{av})^*$ @ $T_C = ^\circ\text{C}$		PRV	I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Amp	T_C	Volts	Amp	Amp	Volts	ma
1N1200RA	D0-4	12	150	100	50	240	0.55	2.5
1N1202A	D0-4	12	150	200	50	240	0.55	2
1N1202RA	D0-4	12	150	200	50	240	0.55	2
1N1203A	D0-4	12	150	300	50	240	0.55	1.75
1N1203RA	D0-4	12	150	300	50	240	0.55	1.75
1N1204A	D0-4	12	150	400	50	240	0.55	1.5
1N1204RA	D0-4	12	150	400	50	240	0.55	1.5
1N1205A	D0-4	12	150	500	50	240	0.55	1.25
1N1205RA	D0-4	12	150	500	50	240	0.55	1.25
1N1206A	D0-4	12	150	600	50	240	0.55	1
1N1206RA	D0-4	12	150	600	50	240	0.55	1
40208	D0-5	18	150	50	72	250	0.65	3
40209	D0-5	18	150	100	72	250	0.65	3
40210	D0-5	18	150	200	72	250	0.65	2.5
40211	D0-5	18	150	300	72	250	0.65	2.5
40212	D0-5	18	150	400	72	250	0.65	2.0
40213	D0-5	18	150	500	72	250	0.65	1.75
40214	D0-5	18	150	600	72	250	0.65	1.5
1N248C	D0-5	20	150	55	90	350	0.6	3.8
1N248RC	D0-5	20	150	55	90	350	0.6	3.8
1N249C	D0-5	20	150	110	90	350	0.6	3.6
1N249RC	D0-5	20	150	110	90	350	0.6	3.6
1N250C	D0-5	20	150	220	90	350	0.6	3.4
1N250RC	D0-5	20	150	220	90	350	0.6	3.4
1N1195A	D0-5	20	150	300	90	350	0.6	3.2
1N1195RA	D0-5	20	150	300	90	350	0.6	3.2
1N1196A	D0-5	20	150	400	90	350	0.6	2.5
1N1196RA	D0-5	20	150	400	90	350	0.6	2.5
1N1197A	D0-5	20	150	500	90	350	0.6	2.2
1N1197RA	D0-5	20	150	500	90	350	0.6	2.2
1N1198A	D0-5	20	150	600	90	350	0.6	1.5
1N1198RA	D0-5	20	150	600	90	350	0.6	1.5
1N1183A	D0-5	40	150	50	195	800	0.65	2.5
1N1183RA	D0-5	40	150	50	195	800	0.65	2.5

Note: Suffix "R" indicates reverse-polarity version.

RCA Semiconductor-Products Selection Guide

Mil & Indust - Stud Mounted cont'd


 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		$I_F(av)^*$ @ $T_C = 0C$		PRV	I_F peak rep.	I_F peak surge	Max. EFWD	Max. I_R^{**}
		Amp	T_C	Volts	Amp	Amp	Volts	ma
1N1184A 1N1184RA	D0-5	40	150	100	195	800	0.65	2.5
1N1186A 1N1186RA	D0-5	40	150	200	195	800	0.65	2.5
1N1187A, 1N1187RA	D0-5	40	150	300	195	800	0.65	2.5
1N1188A, 1N1188RA	D0-5	40	150	400	195	800	0.65	2.2
1N1189A, 1N1189RA	D0-5	40	150	500	195	800	0.65	2
1N1190A, 1N1190RA	D0-5	40	150	600	195	800	0.65	1.8

Note: Suffix "R" indicates reverse-polarity version.

RCA Semiconductor-Products Selection Guide

SILICON CONTROLLED-RECTIFIERS

— Military and Industrial Applications —

 Type	MAXIMUM RATINGS						CHARACTERISTICS	
	I_F (rms) @ stated temperature		V_{RM} (non-rep)	V_{RM} (rep) and V_{FBOM} (rep)	i_{FM} (peak surge)	T_C	Max. V_{GKM} @ i_{GKM} $T_C = 125^\circ C$	
	amp	$^\circ C$	volts	volts	amp	$^\circ C$	volts	ma
STUD-MOUNTED TYPES ‡								
						I_F : 16 and 25 Amperes (rms) V_{RM} (non-rep): 35 to 600 Volts		
2N681	25	65	35	25	150	125	3	25
2N682	25	65	75	50	150	125	3	25
2N683	25	65	150	100	150	125	3	25
2N684	25	65	225	150	150	125	3	25
2N685	25	65	300	200	150	125	3	25
2N686	25	65	350	250	150	125	3	25
2N687	25	65	400	300	150	125	3	25
2N688	25	65	500	400	150	125	3	25
2N689	25	65	600	500	150	125	3	25
2N1842A	16	80	35	25	125	125	3.5	45
2N1843A	16	80	75	50	125	125	3.5	45
2N1844A	16	80	150	100	125	125	3.5	45
2N1845A	16	80	225	150	125	125	3.5	45
2N1846A	16	80	300	200	125	125	3.5	45
2N3228	5	50	330	200	60	100	1.6 [†]	7.5 [†]
2N1847A	16	80	350	250	125	125	3.5	45
2N1848A	16	80	400	300	125	125	3.5	45
2N1849A	16	80	500	400	125	125	3.5	45
2N1850A	16	80	600	500	125	125	3.5	45
40216	900*	65	720	600	-	125	-	-

GERMANIUM DIODE

Temperature - & -Voltage Compensation Applications


1N2326	$V_R(\max) = -1 \text{ v}$	$I_F(\max) = 100 \text{ ma}$	$E_{FWD} @ 25^\circ C = 135 \text{ mv}$
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RCA Semiconductor-Products Selection Guide

TUNNEL DIODES


Recommended for use in:

- Computers — Pulse Generators
- Converters & Oscillators (Microwave Frequency)
- Power Supplies (Overload Detectors & Inverters)
- Switching Circuits — Transistor Devices
- Small-Signal Applications

 Type	Material and Construction		CHARACTERISTICS			
			I _p ± Tolerance		Min. I _p /I _v	Max. C _j
			ma	%		
I _p : 0.001 to 200 Amperes						
40076	GaAs	Alloy	0.2	10	15:1	25
1N3851	Ge	Epitaxial	0.1	10	6:1	40
1N3856	Ge	Epitaxial	0.1	5	8:1	25
40059	GaAs	Alloy	0.05	10	10:1	40
1N3850	Ge	Epitaxial	0.05	10	6:1	40
1N3130	Ge	-	0.05	5	8:1	25
1N3855	Ge	Epitaxial	0.05	5	8:1	25
40058	GaAs	Alloy	0.05	5	12:1	20
1N3860	Ge	Epitaxial	0.05	5	8:1	12
40061	GaAs	Alloy	0.02	10	9:1	30
1N3849	Ge	Epitaxial	0.02	10	6:1	30
1N3854	Ge	Epitaxial	0.02	5	8:1	20
1N3129	Ge	-	0.02	5	8:1	20
40060	GaAs	Alloy	0.02	5	11:1	15
1N3859	Ge	Epitaxial	0.02	5	8:1	10
40063	GaAs	Alloy	0.01	10	9:1	25
1N3848	Ge	Epitaxial	0.01	10	6:1	25
1N3853	Ge	Epitaxial	0.01	5	8:1	15
40062	GaAs	Alloy	0.01	5	10:1	10
1N3858	Ge	Epitaxial	0.01	5	8:1	8

TUNNEL RECTIFIERS

Recommended for use in:
 Computers — Coupling Applications
 Pulse Generators — Transistor Drivers
 Input-Output Isolation in Logic Circuits

 Type	Material	CHARACTERISTICS				
		Max. I_p	Max. V_R mv		Min. V_f @ $I_f = 1$ ma	Max. C_j
		ma	$I_R = 5$ ma	$I_R = 10$ ma	volts	pf
I_p : 0.5 & 1.0 Milliampere						
40055	GaAs	0.5	250	350	950	6
40057	GaAs	0.5	180	275	950	6
1M3863	Ge	0.5	300	150	435	4
40054	GaAs	1.0	200	300	950	6
40056	GaAs	1.0	160	225	950	6
1M3861	Ge	1.0	-	170	400	6
1M3862	Ge	1.0	300	150	420	4
			$I_R = 30$ ma			

RCA Semiconductor-Products Selection Guide

VARACTORS


Recommended for use in:

Frequency Multipliers	Reactance Tuners
RF Limiters	RF Switches
Parametric Amplifiers	RF Modulators

The types listed in the following charts are representative of the RCA varactor line.


The data in these charts give an indication of the range of the Ratings and characteristics such as cutoff frequency, voltage dissipation and capacitance.

For detailed data on these types as well as other types not covered in the chart refer to the Handbook data sheets.

 Type [▲]	RCA Pkg.	f_c G_c	C_j at 1 Mc pf	V_R dc volts	V_{BD} volts	PD watts
GALLIUM-ARSENIDE VARACTORS						
Parametric-Amplifier Types						
V1000	Pill	125	0.15-0.3	-6	6	0.15
V1035	↓	200	0.3-0.4	-6	6	0.15
V1060	↓	300	0.15-0.25	-6	6	0.15
V2000	Prong	125	0.15-0.3	-6	6	0.15
V2035	↓	200	0.3-0.4	-6	6	0.15
V2060	↓	300	0.15-0.25	-6	6	0.15
Power Types						
V3000	Prong	20	0.2-0.8	-6	30	0.3
V3034	↓	80	0.8-1.1	-6	30	0.5
V3052	↓	120	0.2-0.4	-6	30	0.3
V3100	↓	20	0.2-0.8	-6	45	0.3
V3124	↓	60	0.8-1.2	-6	45	0.6
V3142	↓	100	0.2-0.4	-6	45	0.3

RCA Semiconductor-Products Selection Guide

Varactors cont'd

 Type ^A	RCA Pkg.	f_c G_c	C_j at 1 Mc pf	V_R dc volts	V_{BD} volts	P_D watts
SILICON VARACTORS						
Microwave Types						
V7000	Double-Ended	40	0.6-1.2	-6	60	2.5
V7012	Cart-ridge	60	1.8-2.5	-6	60	2.5
V7200	ridge	30	0.6-1.2	-6	90	2.5
UHF Power Types						
V6000	Double-Ended	30	1-3	-125	125	7.5
V6024	Cart-ridge	70	3-5	-125	125	7.5
V6100	ridge	30	1-3	-150	150	7.5
V6124	↓	70	3-4	-150	150	7.5
V6200	↓	30	1-3	-175	175	7.5
V6224	↓	70	3-4	-175	175	7.5
V6300	↓	30	1-3	-200	200	7.5
V6324	↓	70	3-4	-200	200	7.5
VHF Power Types						
V5000	Double-Ended	20	4-10	-125	125	12
V5200	Cart-ridge	20	4-8	-175	175	12
V5300	ridge	20	4-8	-200	200	12

ADDENDUM TO CHARACTERISTICS CHART FOR SEMICONDUCTOR DEVICES

Recently Announced Consumer Types

Type	Maximum Ratings				Notes
	Material & Construction	V _{CBV} Volts	I _c Amp	P _T Watts	
For Critical Application in Commercial and Industrial Equipment					
2N3241	Si Planar	30	0.1	2	Typ: NF = 2 db, f _T = 60 Mc; Max: ICBO = 100 na
2N3242	Si Planar	30	0.2	2	Typ: NF = 2.5 db, f _T = 60 Mc; Max: ICBO = 10 na
Economy Types for Radio, TV, and Consumer-Type Audio Equipment					
40231	Si Planar	18	0.1	1	h _{fe} = 80 typ.
40232	Si Planar	18	0.1	1	h _{fe} = 175 typ.
40234	Si Planar	18	0.1	1	h _{fe} = 80 typ.
For Applications Requiring Exceptionally Low Noise and Low Leakage					
40233	Si Planar	18	0.1	1	Typ: NF = 2 db, ICBO = 0.25 μa
For Audio Power Applications					
40254	Ge Alloy	-32	-5	12.5	36 db power gain

TRANSISTORS

Recently Announced Industrial Types

Type	Material and Construction		Maximum Ratings			Notes
			V _{CB0}	I _C	P _T @ 25°C ^b	
			Volts	Amp	Watts	
For Audio and Inverter Circuits in 12-Volt Equipment						
40250	Si	Diffused Junction	50	4	29	h _{FE} @ 1.5 amp = 25 min. f _T = 1 Mc typ. I _{CB0} = 1 ma. max.
40251	Si	Diffused Junction	50	15	117	h _{FE} @ 8 amp = 15 min. f _T = 0.5 Mc typ. I _{CB0} = 5 ma. max.
Power Switching and Power Amplifier						
2N3230	Si	Epitaxial Planar	80	7	25	Darlington amplifier type h _{FE} @ 2 amp = 2000 min. f _T = 40 Mc min. I _{CEO} = 100 max. μa
2N3231	Si	Epitaxial Planar	100	7	25	Darlington amplifier type h _{FE} @ 2 amp = 2000 min. f _T = 40 Mc min. I _{CEO} = 100 max. μa
2N3262	Si	Triple-Diffused Planar	100	1.5	8.75	V _{CE(sat)} = 0.6 volt max. h _{FE} @ 500 ma. = 40 min. t _r = 20 nsec max. @ 1 amp
2N3263 2N3265	Si	Epitaxial	150	25	67 ^c	V _{CE(sat)} = 0.75 volt h _{FE} @ 15 amp = 25 min. t _r = 0.2 μsec typ. @ 10 amp

^a For resistive or inductive load.

^b Case temperature.

^c At V_{CE} = 18 volts, T_C = 100°C.

^d At $V_{CE} = 14$ volts, $T_C = 100^\circ\text{C}$.
^e At $T_C = 50^\circ\text{C}$.

2N3264 2N3266	Si Epitaxial	120	25	100 ^d	$V_{CE}(\text{sat}) = 1.2$ volts max. $h_{FE} @ 15$ amp = 20 min.
2N3439 40255	Si Triple-Diffused	450	1	5 ^e 10 ^e	$V_{CE}(\text{sat}) = 0.5$ volt max. $h_{FE} @ 20$ ma. = 40 min. $I_{CEO} = 20 \mu\text{a}$ max.
2N3440 40256	Si Triple-Diffused	300	1	5 ^e 10 ^e	$V_{CE}(\text{sat}) = 0.5$ volt max. $h_{FE} @ 20$ ma. = 40 min. $I_{CEO} = 50 \mu\text{a}$ max.
2N3441	Si Diffused Junction	160	3	25	$V_{CE}(\text{sat}) = 1$ volt max. $h_{FE} @ 0.5$ amp = 20 min. $I_{CBO} = 5$ ma. max.
2N3442	Si Diffused Junction	160	10	117	$V_{CE}(\text{sat}) = 1$ volt max. $h_{FE} @ 3$ amp = 20 min. $I_{CBO} = 5$ ma. max.
RF Power Types					
2N3229	Si Triple-Diffused	105	2.5	17.5	Unneutralized Amplifier: $P_{OUT} = 15$ watts min. @ 50 Mc $f_T = 200$ Mc typ.
2N3375	Si Epitaxial Planar	65	1.5	11.6	"Overlay" construction Unneutralized Class-C Amplifier: $P_{OUT} = 7.5$ watts min. @ 100 Mc Oscillator: $P_{OUT} = 2.5$ watts typ. @ 500 Mc $f_T = 500$ Mc typ.

Recently Announced Industrial Types

SILICON RECTIFIERS

Type	JEDEC Pkg.	Maximum Ratings				Notes
		$I_{F(av)}^a$ @ $T_C = 0^\circ C$		PRV	$I_{F(peak)}$ Rep	
		Amp	T_C	Volts	Amp	
Stud-Mounted Types						
1N1341B 1N1341RB	DO-4	6	150	50	25	PRV(Non-rep.) = 100 volts, E _{FWD} = 0.65 volt
1N1342B 1N1342RB	DO-4	6	150	100	25	PRV(Non-rep.) = 200 volts, E _{FWD} = 0.65 volt
1N1344B 1N1344RB	DO-4	6	150	200	25	PRV(Non-rep.) = 350 volts, E _{FWD} = 0.65 volt
1N1345B 1N1345RB	DO-4	6	150	300	25	PRV(Non-rep.) = 450 volts, E _{FWD} = 0.65 volt
1N1346B 1N1346RB	DO-4	6	150	400	25	PRV(Non-rep.) = 600 volts, E _{FWD} = 0.65 volt
1N1347B 1N1347RB	DO-4	6	150	500	25	PRV(Non-rep.) = 700 volts, E _{FWD} = 0.65 volt
1N1348B 1N1348RB	DO-4	6	150	600	25	PRV(Non-rep.) = 800 volts, E _{FWD} = 0.65 volt

^a For resistive or inductive load.

RCA Quick Selection Guide
RCA Military-Specification Types
TRANSISTORS

Type	Specification and Date	
JAN-2N174	MIL-T-19500/13A	8 Jan. 1958
JAN-2N220	MIL-T-19500/1	14 June 1957
USA-2N274	MIL-T-19500/26 (Sig C)	3 Oct. 1957
JAN-2N384	MIL-S-19500/27D	18 Jan. 1962
JAN-2N388	MIL-S-19500/65A	19 Apr. 1963
USN-2N398	MIL-S-19500/174 (Navy)	9 Oct. 1961
JAN-2N404	MIL-S-19500/20A	15 May 1963
USA-2N1183	MIL-S-19500/143 (Sig C)	10 Oct. 1960
USA-2N1183A		
USA-2N1183B		
USA-2N1184		
USA-2N1184A		
USA-2N1184B	MIL-S-19500/189 (Sig C)	13 Mar. 1961
USA-2N1224		
USA-2N1225	MIL-S-19500/126A (Navy)	2 Mar. 1961
USN-2N1302		
USN-2N1303		
USN-2N1304		
USN-2N1305		
USN-2N1306		
USN-2N1307		
USN-2N1308		
USN-2N1309		
USN-2N1412	MIL-S-19500/76 (Navy)	4 Feb. 1960
USA-2N1479	MIL-S-19500/207 (Sig C)	17 Aug. 1961
USA-2N1480		
USA-2N1481		
USA-2N1482		
USA-2N1483	MIL-S-19500/180 (Sig C)	21 July 1961
USA-2N1484		
USA-2N1485		
USA-2N1486		
USA-2N1487		
USA-2N1488	MIL-S-19500/208 (Sig C)	17 Aug. 1961
USA-2N1489		
USA-2N1490		
USA-2N1511		
USA-2N1512		
USA-2N1513		
USA-2N1514		
USN-2N1853	MIL-S-19500/171A (Navy)	13 Oct. 1961
USN-2N1854	MIL-S-19500/172A (Navy)	18 Oct. 1961
USA-2N2273	MIL-S-19500/244A (EL)	5 Nov. 1962

RCA Quick Selection Guide
RCA Military-Specification Types
TRANSISTORS

Type	Specification and Date	
USA-1N249B USA-1N250B	— MIL-S-19500/134 (Sig C)	9 Aug. 1960
JAN-1N538 JAN-1N540 JAN-1N547	— MIL-S-19500/202A	2 Aug. 1962
USAF-1N1183 USAF-1N1184 USAF-1N1185 USAF-1N1186 USAF-1N1187 USAF-1N1188 USAF-1N1189 USAF-1N1190	— MIL-E-1/1135 (USAF)	2 Oct. 1959
USAF-1N1199 USAF-1N1200 USAF-1N1201 USAF-1N1202 USAF-1N1203 USAF-1N1204 USAF-1N1205 USAF-1N1206	— MIL-E-1/1108 (USAF)	25 Mar. 1958
USA-1N2135A	MIL-S-19500/134 (Sig C)	9 Aug. 1960

Copies of transistor and rectifier specification sheets may be obtained by directing requests to Specifications Division, Naval Supply Depot, 5801 Tabor Avenue, Philadelphia 20, Pa., Attn.: CDS.

5734 Compact, lightweight, medium- μ triode which translates mechanical motion, such as vibration, at frequencies to 12 Kc into corresponding plate-current variations which can be observed or measured by conventional methods.

RCA MEMORY PRODUCTS

Definitions of symbols used in following charts for RCA ferrite memory cores and transfluxors:


- dVZ = "Disturbed-0" Response Voltage
- I_b = Block Current
- I_{DW} = "Digit-Write" Current
- I_{IW} = "Impulse-Write" Current
- I_m = Full-Read or Full-Write Current (In transfluxors Full-Read Current only)
- I_P = Prime Current
- I_{PP} = Partial-Prime Current
- I_R = Read Current
- I_s = Set Current
- t_s = Total Switching Time
- uV_1 = "Undisturbed-1" Response Voltage

RCA Ferrite Memory Cores CONVENTIONAL CORES

RCA Type	Typical Characteristics at 25°C for Coincident-Current Applications				Size OD/ID mils
	t_s μ sec	I_m ma	uV_1 mv	dVZ mv	
265M1	0.31	700	60	7	30/18
0150M5	0.42	550	85	6	30/18
229M1	0.55	800	155	15	50/30
0141M5	0.70	580	100	16	50/30
237M1	0.80	520	90	9	50/30
0055M5	0.90	550	70	6	50/30
232M1	0.95	480	80	10	50/30
231M1	0.95	800	140	20	80/50
230M1	1.00	440	85	8	50/30
224M1	1.00	480	70	10	50/30
248M1	1.10	400	90	6	50/30
228M1	1.10	600	140	20	80/50
223M1	1.15	800	130	20	80/50
226M1	1.25	400	80	7	50/30
249M1	1.30	350	60	5	50/30
225M1	2.15	250	35	5	50/30
222M2	2.30	400	75	10	80/50


RCA Semiconductor-Products Selection Guide

— Military & Industrial Applications —

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		$I_F(av)^*$ @ $T_C = 0^\circ C$		PRV	I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Amp.	T_C	Volts	Amp	Amp	Volts	ma
AXIAL-LEAD TYPES		$I_F: 0.5 \text{ Ampere}$						
1N444B	D0-1	0.65	50 ^{ms}	500	3.5	15	1.5	1.75 $\mu a \dagger$
1N445B	D0-1	0.65	50 ^{ms}	600	3.5	15	1.5	2 $\mu a \dagger$
1N536	D0-1	0.75	50 ^{ms}	50	-	15	1.1	5 $\mu a \dagger$
1N440B	D0-1	0.75	50 ^{ms}	100	3.5	15	1.5	0.3 $\mu a \dagger$
1N537	D0-1	0.75	50 ^{ms}	100	-	15	1.1	5 $\mu a \dagger$
1N441B	D0-1	0.75	50 ^{ms}	200	3.5	15	1.5	0.75 $\mu a \dagger$
1N538 ^A	D0-1	0.75	50 ^{ms}	200	-	15	1.1	5 $\mu a \dagger$
1N442B	D0-1	0.75	50 ^{ms}	300	3.5	15	1.5	1 $\mu a \dagger$
1N539	D0-1	0.75	50 ^{ms}	300	-	15	1.1	5 $\mu a \dagger$
1N443B	D0-1	0.75	50 ^{ms}	400	3.5	15	1.5	1.5 $\mu a \dagger$
1N540 ^A	D0-1	0.75	50 ^{ms}	400	-	15	1.1	5 $\mu a \dagger$
1N1095	D0-1	0.75	50 ^{ms}	500	-	15	1.2	5 $\mu a \dagger$
1N547 ^A	D0-1	0.75	50 ^{ms}	600	-	15	1.2	5 $\mu a \dagger$
STUD-MOUNTED TYPES		$I_F: 5 \text{ to } 40 \text{ Amperes}$						
1N1612, 1N1612R	D0-4	5	135	50	15	-	1.5	1
1N1613, 1N1613R	D0-4	5	135	100	15	-	1.5	1
1N1614, 1N1614R	D0-4	5	135	200	15	-	1.5	1
1N1615, 1N1615R	D0-4	5	135	400	15	-	1.5	1
1N1616, 1N1616R	D0-4	5	135	600	15	-	1.5	1
40108	D0-4	10	150	50	40	140	0.6	2
40109	D0-4	10	150	100	40	140	0.6	2
40110	D0-4	10	150	200	40	140	0.6	1.5
40111	D0-4	10	150	300	40	140	0.6	1.5
40112	D0-4	10	150	400	40	140	0.6	1
40114	D0-4	10	150	600	40	140	0.6	0.75
40115	D0-4	10	150	800	40	140	0.6	0.65
40116	D0-4	10	150	1000	40	140	0.6	0.5
1N1199A	D0-4	12	150	50	50	240	0.55	3
1N1199RA	D0-4	12	150	50	50	240	0.55	3
1N1200A	D0-4	12	150	100	50	240	0.55	2.5

RCA Semiconductor-Products Selection Guide


Mil & Indust - Stud Mounted cont'd

 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		$I_F(av)^*$ @ $T_C = 0^\circ C$		PRV	I_F peak rep.	I_F peak surge	Max. E_{FWD}	Max. I_R^{**}
		Amps	T_C	Volts	Amp	Amp	Volts	ma
1N1200RA	D0-4	12	150	100	50	240	0.55	2.5
1N1202A	D0-4	12	150	200	50	240	0.55	2
1N1202RA	D0-4	12	150	200	50	240	0.55	2
1N1203A	D0-4	12	150	300	50	240	0.55	1.75
1N1203RA	D0-4	12	150	300	50	240	0.55	1.75
1N1204A	D0-4	12	150	400	50	240	0.55	1.5
1N1204RA	D0-4	12	150	400	50	240	0.55	1.5
1N1205A	D0-4	12	150	500	50	240	0.55	1.25
1N1205RA	D0-4	12	150	500	50	240	0.55	1.25
1N1206A	D0-4	12	150	600	50	240	0.55	1
1N1206RA	D0-4	12	150	600	50	240	0.55	1
40208	D0-5	18	150	50	72	250	0.65	3
40209	D0-5	18	150	100	72	250	0.65	3
40210	D0-5	18	150	200	72	250	0.65	2.5
40211	D0-5	18	150	300	72	250	0.65	2.5
40212	D0-5	18	150	400	72	250	0.65	2.0
40213	D0-5	18	150	500	72	250	0.65	1.75
40214	D0-5	18	150	600	72	250	0.65	1.5
1N248C	D0-5	20	150	55	90	350	0.6	3.8
1N248RC	D0-5	20	150	55	90	350	0.6	3.8
1N249C	D0-5	20	150	110	90	350	0.6	3.6
1N249RC	D0-5	20	150	110	90	350	0.6	3.6
1N250C	D0-5	20	150	220	90	350	0.6	3.4
1N250RC	D0-5	20	150	220	90	350	0.6	3.4
1N1195A	D0-5	20	150	300	90	350	0.6	3.2
1N1195RA	D0-5	20	150	300	90	350	0.6	3.2
1N1196A	D0-5	20	150	400	90	350	0.6	2.5
1N1196RA	D0-5	20	150	400	90	350	0.6	2.5
1N1197A	D0-5	20	150	500	90	350	0.6	2.2
1N1197RA	D0-5	20	150	500	90	350	0.6	2.2
1N1198A	D0-5	20	150	600	90	350	0.6	1.5
1N1198RA	D0-5	20	150	600	90	350	0.6	1.5
1N1183A	D0-5	40	150	50	195	800	0.65	2.5
1N1183RA	D0-5	40	150	50	195	800	0.65	2.5

Note: Suffix "R" indicates reverse-polarity version.

RCA Semiconductor-Products Selection Guide

Mil & Indust - Stud Mounted cont'd


 Type	JEDEC Pkg.	MAXIMUM RATINGS					CHARACTERISTICS	
		$I_F(av)^*$ @ $T_C = 0^{\circ}C$		PRV	I_F peak rep.	I_F peak surge	Max. EFWD	Max. I_R^{**}
		Amp	T_C	Volts	Amp	Amp	Volts	ma
1N1184A 1N1184RA	D0-5 D0-5	40 40	150 150	100 100	195 195	800 800	0.65 0.65	2.5 2.5
1N1186A 1N1186RA	D0-5 D0-5	40 40	150 150	200 200	195 195	800 800	0.65 0.65	2.5 2.5
1N1187A, 1N1187RA	D0-5	40	150	300	195	800	0.65	2.5
1N1188A, 1N1188RA	D0-5	40	150	400	195	800	0.65	2.2
1N1189A, 1N1189RA	D0-5	40	150	500	195	800	0.65	2
1N1190A, 1N1190RA	D0-5	40	150	600	195	800	0.65	1.8

Note: Suffix "R" indicates reverse-polarity version.

RCA Semiconductor-Products Selection Guide

SILICON CONTROLLED-RECTIFIERS

— Military and Industrial Applications —

 Type	MAXIMUM RATINGS						CHARACTERISTICS	
	I_F (rms) @ stated temperature		V_{RM} (non-rep)	V_{RM} (rep) and V_{FBOM} (rep)	i_{FM} (peak surge)	T_C	Max. V_{GKM} @ i_{GKM} $T_C = 125^\circ C$	
	amp	$^\circ C$	volts	volts	amp	$^\circ C$	volts	ma
STUD-MOUNTED TYPES ‡						I_F : 16 and 25 Amperes (rms) V_{RM} (non-rep): 35 to 600 Volts		
2N681	25	65	35	25	150	125	3	25
2N682	25	65	75	50	150	125	3	25
2N683	25	65	150	100	150	125	3	25
2N684	25	65	225	150	150	125	3	25
2N685	25	65	300	200	150	125	3	25
2N686	25	65	350	250	150	125	3	25
2N687	25	65	400	300	150	125	3	25
2N688	25	65	500	400	150	125	3	25
2N689	25	65	600	500	150	125	3	25
2N1842A	16	80	35	25	125	125	3.5	45
2N1843A	16	80	75	50	125	125	3.5	45
2N1844A	16	80	150	100	125	125	3.5	45
2N1845A	16	80	225	150	125	125	3.5	45
2N1846A	16	80	300	200	125	125	3.5	45
2N3228	5	50	330	200	60	100	1.6 ⁺	7.5 ⁺
2N1847A	16	80	350	250	125	125	3.5	45
2N1848A	16	80	400	300	125	125	3.5	45
2N1849A	16	80	500	400	125	125	3.5	45
2N1850A	16	80	600	500	125	125	3.5	45
40216	900 [*]	65	720	600	-	125	-	-

GERMANIUM DIODE

Temperature - & -Voltage Compensation Applications

1N2326	$V_R(\text{max}) = -1 \text{ v}$	$I_F(\text{max}) = 100 \text{ ma}$	$E_{FWD} @ 25^\circ C = 135 \text{ mv}$
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RCA MEMORY PRODUCTS
HIGH CURIE TEMPERATURE (Wide Temperature Range)
CORES

RCA Type	Typical Characteristics at 25°C for Coincident-Current Applications				Size OD/ID mils
	t_s μ sec	I_m ma	uV_1 mv	dVZ mv	
0146M5	0.43	850	80	8	30/18
266M1	0.80	650	60	4	30/18
263M1	1.00	600	35	4	30/18
233M1	1.00	900	100	4	50/30
264M1	1.05	630	75	7	50/30
0135M5	1.20	400	35	3	30/18
0138M5	1.35	330	30	3	30/18
0140M5	1.35	480	60	8	50/30

SWITCHING CORES

RCA Type	Typical Characteristics at 25°C				Size OD/ID mils
	t_s μ sec	I_m ma	uV_1 mv	dVZ mv	
XF-4004	2.4	190	26	5	50/30
XF-4003	2.6	190	24	3	50/30
XF-4224	4.0	400	125	35	150/100
XF-4005	4.1	125	10	5	50/30
0152M5	5.0	400	300	45	260/160
XF-4007	7.5	70	4.5	5	50/30
XF-4006	9.0	90	4.5	4.5	50/30
XF-4008	13.0	40	2	3.5	50/30

IMPULSE-SWITCHING CORES

RCA Type	Typical Characteristics at 25°C						Size OD/ID mils
	t_s μ sec	I_{DW} ma	I_{IW} ma	I_R ma	uV_1 mv	dVZ mv	
401M1	0.19	125	130	570	120	18	
400M1	0.20	100	180	380	50	8	

RCA MEMORY PRODUCTS

TRANSFLUXORS (Two-Aperture) TYPES

RCA Type	Typical Characteristics at 25°C							
	t_a μ sec	I_b ma	I_a ma	I_m ma	I_p ma	I_{pp} ma	uV_1 mv	dVZ mv
0154M5	0.30	1000	600	600	350	—	170	25
0162M5	0.45	800	360	500	350	235	60	12
0163M5	1.35	1000	500	400	400	225	35	9
500M1	2.10	1500	580	300	—	150	55	22
501M1	2.50	840	360	160	—	80	30	10

RCA FERRITE-CORE MEMORY PLANES

- N7165-1 Utilizes 1024 RCA-230M1's in a 32 x 32 arrangement.
Length, 3.1"; Width, 3.1"; Height, 0.25"
- N7097-1 Utilizes 4096 RCA-230M1's in a 64 x 64 arrangement.
Length, 5.1"; Width, 5.1"; Height, 0.25"
- N7166-1 Wide-temperature-range (-55°C to +85°C) type.
Utilizes 1024 RCA-233M1's in a 32 x 32 arrangement.
Length, 3.1"; Width, 3.1"; Height, 0.25"
- N7190-1 Wide-temperature-range (-55°C to +85°C) type.
Utilizes 4096 RCA-233M1's in a 64 x 64 arrangement.
Length, 5.1"; Width, 5.1"; Height, 0.25"

CUSTOM PLANES AVAILABLE IN A WIDE RANGE OF MATERIALS—OPERATING CYCLE TIMES TO 375 NANOSECONDS

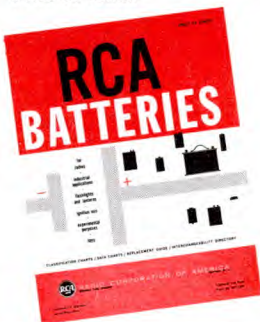
RCA MEMORY SYSTEMS—a complete design, production, and test facility for memory systems with operating cycle times as low as 375 nanoseconds.

RCA BATTERIES

Technical Publications



• **RCA BATTERY MANUAL**—BDG-111 (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—64 pages. Contains information for the designer, application engineer, experimenter, and student on dry cells and batteries [carbon zinc (Leclanché), mercury, and alkaline types]. Included in this manual are battery theory and applications, detailed electrical and mechanical characteristics, a classification chart, dimensional outlines and terminal connections on each battery type. Price 50 cents.



• **RCA BATTERIES**—BAT-134F (10 $\frac{7}{8}$ " x 8 $\frac{3}{8}$ ")—24 pages. Technical data on 115 Leclanché, alkaline, and mercury-type dry batteries, for radios, industrial applications, flashlights, lanterns, electronic toys, and for photoflash service. Price 35 cents.

INDEX OF RCA BATTERIES

SINGLE-VOLTAGE TYPES

Terminal Volts	Suggested Current Range Ma.	Type		
		Mercury	Alkaline	Zinc-Carbon (Leclanché)
1.4	0-5	VS675		
	0-7	VS145		
	0-20	VS147		
	0-50	VS150 VS401		
	0-100	VS143		
	0-200	VS313		
	0-250	VS144		
1.5	0-20			VS073 VS074
	0-25		VS1074	VS034A VS334* VS734†
	0-80			VS035A VS335* VS735†
	0-150		VS1073	VS036 VS336* VS736†
	0-250			VS070
	0-300		VS1334	VS069
	0-500		VS1335	VS101 VS141
	0-1000		VS1336	VS004C VS106
	0-1500			VS006C VS006S
2.8	0-100	VS148		
3	0-25			VS134
	0-250			VS100
	0-500			VS136
	0-1000			VS138

* Special Radio Mix

† For photoflash service

INDEX OF RCA BATTERIES

SINGLE-VOLTAGE TYPES (Continued)

Term- inal Volts	Sug- gested Current Range Ma.	Type		
		Mercury	Alkaline	Zinc-Carbon (Leclanché)
4.2	0-50	VS163		
	0-60	VS400		
	0-100	VS149		
4.5	0-12			VS332
	0-25			VS142
	0-40			VS324
	0-50			VS028 VS133
	0-100		VS1149	
	0-150			VS072
	0-200			VS321
	0-250			VS067
	0-300			VS337
5.6	0-50	VS164		
6	0-25			VS068 VS338
	0-250			VS009 VS040C VS040S
	0-500			VS317
	0-1000			VS103
	0-1500			VS039
7	0-50	VS165		
7.5	0-50			VS129
	0-70			VS065
	0-80			VS315
	0-1000			VS139
8.4	0-30	VS312		
	0-50	VS328		

INDEX OF RCA BATTERIES

SINGLE-VOLTAGE TYPES (Continued)

Terminal Volts	Sug- gested Current Range Ma.	Type		
		Mercury	Alkaline	Zinc-Carbon (Leclanché)
9	0-7			VS327
	0-8			VS323
	0-9			VS300A
	0-15			VS305 VS339
	0-20			VS322
	0-30			VS306
	0-1000			VS140
9.8	0-10	VS309A		
12	0-9			VS329
15	0-1.5			VS704†
	0-2.5			VS083
22.5	0-1.5			VS705†
	0-2.5			VS084
	0-40			VS102
30	0-2.5			VS085
45	0-4			VS086
	0-10			VS055
	0-40			VS013 VS014
	0-70			VS012
67.5	0-3			VS318
	0-6			VS082
	0-8			VS218
	0-10			VS016 VS125
75	0-10			VS217
90	0-8			VS219
	0-10			VS090 VS316
300	0-2.5			VS093

† For photoflash service

INDEX OF RCA BATTERIES

MULTIPLE-VOLTAGE TYPES

Terminal Volts	Suggested Current Range Ma.	Type		
		Mercury	Alkaline	Zinc-Carbon (Leclanché)
-4.5	0-150			VS130 Taps at -1.5 and -3 volts
-7.5	0-50			VS029 Taps at -1.5, -3, -4.5, and -6 volts
9	0-150			VS301 Taps at 3 and 6 volts
13.5	0-10			VS304 Tap at 9 volts
-22.5	0-50			VS131 Taps at -3, -4.5, -6, -9, -10.5, -16.5, and -17 volts
45	0-20			VS114
	0-25			VS015
	0-50			VS112 Tap at 22.5 volts
	0-250			VS127W
	0-300			VS157W



VS 304



VS 130

INDEX OF RCA BATTERIES


A-B BATTERY PACKS

Terminal Volts	Suggested Current Range Ma.	Type		
		Mercury	Alkaline	Zinc-Carbon (Leclanché)
A 6 A 7.5 B 75	0-50 0-50 0-12			VS050
A 7.5 B 75	0-50 0-12			VS060
A 1.5 B 90	0-300 0-12			VS022
A 1.5 B 90	0-300 0-14			VS064
A 7.5 A 9 B 90	0-50 0-50 0-12			VS057W VS119
A 7.5 A 9 B 90	0-50 0-50 0-15			VS019
A 9 B 90	0-50 0-12			VS059
A 9 B 90	0-50 0-15			VS047 VS058



VS 019

RCA BATTERIES—QUICK SELECTION GUIDE


 Type	Volts	Suggested Current Range Ma.	Max. Dimensions Inches			NEDA* Type No.
			L.	W. or Dia.	Overall Ht.	
VS143♦	1.4	0-100	—	0.625	0.650	1100
VS144♦	1.4	0-250	—	0.640	1.968	1101
VS145♦	1.4	0-7	—	0.455	0.135	1106
VS147♦	1.4	0-20	—	0.615	0.238	1104
VS148♦	2.8	0-100	—	0.662	1.315	—
VS149♦	4.2	0-100	—	0.662	1.965	1304
VS150♦	1.4	0-50	—	0.625	0.440	1105
VS163♦	4.2	0-50	—	0.662	1.327	1305
VS164♦	5.6	0-50	—	0.662	1.767	1404
VS165♦	7	0-50	—	0.662	2.217	1500
VS300A■	9	0-9	—	1	1 ¹⁵ / ₁₆	1600
VS301	3, 6, 9	0-150	8	2 ¹³ / ₁₆	1 ⁹ / ₁₆	1601
VS304	9, 13 ¹ / ₂	0-10	1 ¹¹ / ₃₂	1 ¹ / ₃₂	2 ¹¹ / ₁₆	1900
VS305■	9	0-15	1 ¹³ / ₃₂	1 ¹¹ / ₃₂	2 ³ / ₄	1602
VS306	9	0-30	2 ⁹ / ₁₆	2 ¹ / ₃₂	3 ⁵ / ₃₂	1603
VS309A■	9.8	0-10	—	9 ⁹ / ₁₆	1 ²⁹ / ₃₂	1606
VS312■	8.4	0-30	1 ¹ / ₃₂	5 ⁸ / ₈	2	1604
VS313♦	1.4	0-200	—	0.550	1.968	1103
VS322■	9	0-20	1 ¹³ / ₁₆	1 ¹³ / ₁₆	2 ⁷ / ₁₆	1605
VS323■	9	0-8	1 ¹ / ₃₂	2 ¹ / ₃₂	1 ²⁹ / ₃₂	1604
VS324■	4 ¹ / ₂	0-40	1 ¹³ / ₃₂	1 ¹¹ / ₃₂	2 ³ / ₄	1610
VS327♦	9	0-7	—	3 ⁴ / ₄	2	1611
VS328♦	8.4	0-50	—	3 ⁴ / ₄	2	1611
VS329■	12	0-9	—	1	2 ⁷ / ₁₆	1810
VS332	4.5	0-12	—	0.662	1.965	1306
VS334♦	1 ¹ / ₂	0-25	—	9 ¹⁶ / ₁₆	1 ³¹ / ₃₂	15
VS335♦	1 ¹ / ₂	0-80	—	1 ¹ / ₃₂	1 ¹⁵ / ₁₆	14
VS336♦	1 ¹ / ₂	0-150	—	1 ¹¹ / ₃₂	2 ¹³ / ₃₂	13
VS337	4 ¹ / ₂	0-300	2 ¹³ / ₁₆	1 ³ / ₄	8 ¹¹ / ₃₂	1303
VS338■	6	0-25	1 ¹³ / ₃₂	3 ⁴ / ₄	4 ¹ / ₁₆	1403
VS339■	9	0-15	1 ¹³ / ₃₂	3 ⁴ / ₄	4 ¹ / ₁₆	1613
VS400■	4.2	0-60	—	1 ¹ / ₃₂	1 ³¹ / ₃₂	1300
VS401♦	1.4	0-50	—	0.460	1.130	1102
VS675	1.4	0-10	—	0.455	0.210	—
VS1073♦	1 ¹ / ₂	0-150	—	0.470	1.130	910
VS1074♦	1 ¹ / ₂	0-25	—	0.410	1.745	824
VS1149♦	4 ¹ / ₂	0-100	—	0.662	1.965	1306
VS1334♦	1 ¹ / ₂	0-300	—	0.550	1.960	815
VS1335♦	1 ¹ / ₂	0-500	—	1 ¹ / ₃₂	2	814
VS1336♦	1 ¹ / ₂	0-1000	—	1 ⁵ / ₁₆	2 ³ / ₈	813

*National Electronic Distributors Association.

♦Flashlight-type terminals.

■2-snap fastener terminals.

RCA BATTERIES—QUICK SELECTION GUIDE

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

PORTABLE "A" TYPES

VS004	1½	0-1000	2 ⁵ / ₈	2 ⁵ / ₈	3 ²⁷ / ₃₂	4
VS009	6	0-250	2 ⁵ / ₈	2 ⁵ / ₈	3 ²⁷ / ₃₂	6
VS034A♦	1½	0-25	—	9 ¹ / ₁₆	1 ³¹ / ₃₂	815
VS035A♦	1½	0-80	—	1 ¹ / ₃₂	1 ¹⁵ / ₁₆	814
VS036♦	1½	0-150	—	1 ¹¹ / ₃₂	2 ¹³ / ₃₂	813
VS065	7½	0-70	2 ⁵ / ₃₂	1 ⁵ / ₁₆	3 ¹ / ₃₂	9
VS067	4½	0-250	3 ¹⁵ / ₁₆	1 ⁵ / ₁₆	4 ³ / ₃₂	3
VS068♦	6	0-25	1 ⁷ / ₃₂	1 ⁷ / ₃₂	2 ¹¹ / ₃₂	2
VS069	1½	0-300	2 ²⁵ / ₃₂	1 ¹³ / ₃₂	3 ¹ / ₃₂	18
VS070	1½	0-250	—	1 ¹¹ / ₃₂	4 ¹ / ₁₆	23
VS072	4½	0-150	4 ³ / ₃₂	1 ⁷ / ₁₆	2 ¹⁵ / ₁₆	19
VS129	7½	0-50	3 ²⁹ / ₃₂	2 ⁷ / ₃₂	2 ²⁷ / ₃₂	8
VS141	1½	0-500	2 ¹⁹ / ₃₂	1 ³ / ₈	4 ¹ / ₄	11
VS236♦	1½	0-300	—	1 ¹¹ / ₃₂	4 ³ / ₁₆	20
VS315■	7½	0-80	2 ⁹ / ₁₆	2 ¹ / ₃₂	2 ¹³ / ₁₆	26
VS1334♦	1½	—	—	0.550	1.968	815
VS1335♦	1½	—	—	1 ¹ / ₃₂	2	814
VS1336♦	1½	0-1000	—	1 ⁵ / ₁₆	2 ³ / ₈	813

PORTABLE "B" TYPES


VS012	45	0-70	3 ³¹ / ₃₂	2 ¹⁷ / ₃₂	5 ⁵ / ₁₆	207
VS013	45	0-40	3 ¹⁹ / ₃₂	1 ²⁷ / ₃₂	5 ¹ / ₂	202
VS014	45	0-40	3 ⁹ / ₁₆	2 ¹ / ₄	4 ¹ / ₂	206
VS015	22½, 45	0-25	3	2 ⁵ / ₁₆	4 ¹ / ₈	205
VS016■	67½	0-10	2 ¹³ / ₁₆	1 ³ / ₈	3 ²³ / ₃₂	200
VS055■	45	0-10	2 ²¹ / ₃₂	1	3 ¹¹ / ₁₆	201
VS082■	67½	0-6	2 ¹³ / ₁₆	1 ³ / ₈	2 ¹ / ₂	203
VS084♦	22½	0-2.5	1 ¹ / ₃₂	5 ⁵ / ₈	2	215
VS086♦	45	0-4	1 ¹ / ₁₆	5 ⁵ / ₈	3 ¹¹ / ₁₆	213
VS090■	90	0-10	3 ²³ / ₃₂	1 ³ / ₈	3 ²³ / ₃₂	204
VS125■	67½	0-10	2 ¹³ / ₁₆	1 ³ / ₈	3 ⁴ / ₆₄	200
VS217■	75	0-10	1 ¹⁵ / ₁₆	1 ¹⁵ / ₃₂	6 ¹⁵ / ₃₂	212
VS218■	67½	0-8	1 ²⁹ / ₃₂	1	5 ⁷ / ₁₆	211P
VS219■	90	0-8	1 ³¹ / ₃₂	1 ¹ / ₃₂	7 ¹⁵ / ₃₂	214
VS316■	90	0-10	1 ¹⁵ / ₁₆	1 ¹⁵ / ₃₂	7 ⁷ / ₈	216
VS318■	67½	0-3	1 ¹¹ / ₃₂	1	3 ¹ / ₂	217

•National Electronic Distributors Association.

♦Flashlight-type terminals.

■2-snap fastener.

RCA BATTERIES—QUICK SELECTION GUIDE

 Type	Volts			Sug- gested Current Range Ma.	Max. Dimensions Inches			NEDA* Type No.
	A	B	C		L.	W. or Dia.	Overall Ht.	
VS006C	1½	—	—	0-1500	—	2⅝	6 ²¹ / ₃₂	906
VS006S	1½	—	—	0-1500	—	2⅝	6 ²¹ / ₃₂	905
VS028	—	—	-4½	0-50	2 ⁷ / ₁₆	2 ⁷ / ₃₂	3	714
VS029§	—	—	-7½	0-50	3 ²⁹ / ₃₂	2 ⁷ / ₃₂	3	713
VS039	6	—	—	0-1500	10 ⁷ / ₁₆	2 ²³ / ₃₂	7 ⁷ / ₃₂	907
VS040C	6	—	—	0-250	2⅝	2⅝	4 ¹³ / ₃₂	908
VS040S	6	—	—	0-250	2⅝	2⅝	4⅜	915
VS070	1½	—	—	0-250	—	1 ¹¹ / ₃₂	4 ¹ / ₁₆	23
VS083♦	—	15	—	0-2.5	1 ¹ / ₃₂	⅝	1 ¹⁵ / ₃₂	208
VS084♦	—	22½	—	0-2.5	1 ¹ / ₃₂	⅝	2	215
VS085♦	—	30	—	0-2.5	1 ¹ / ₃₂	⅝	2 ⁹ / ₁₆	210
VS093	—	300	—	0-2.5	2 ¹¹ / ₁₆	2 ⁷ / ₃₂	3 ²⁹ / ₃₂	722
VS100	3	—	—	0-250	2 ²¹ / ₃₂	1 ¹¹ / ₃₂	4 ⁹ / ₁₆	701
VS101	1½	—	—	0-500	2 ²¹ / ₃₂	1 ¹¹ / ₃₂	4⅜	700
VS102	—	22½	—	0-40	3½	2 ³ / ₃₂	3 ¹ / ₁₆	710
VS103	6	—	—	0-1000	8 ⁵ / ₁₆	2 ¹³ / ₁₆	6 ¹ / ₁₆	902
VS106	1½	—	—	0-1000	2⅝	2⅝	4⅜	900
VS112	—	22½, 45	—	0-50	4 ³ / ₃₂	2 ⁹ / ₁₆	5 ⁷ / ₁₆	709
VS114	—	22½, 45	—	0-20	3 ¹ / ₃₂	1⅜	4 ³¹ / ₃₂	711
VS127W	—	22½, 45	—	0-250	8 ¹ / ₃₂	4 ¹ / ₁₆	7⅝	724
VS130	—	—	-4½	0-150	4 ¹ / ₁₆	1 ¹³ / ₃₂	3 ¹ / ₃₂	712
VS131	—	—	-22½	0-50	4	2 ⁷ / ₁₆	3⅜	708
VS133	4½	—	—	0-50	2 ⁷ / ₁₆	2 ⁷ / ₃₂	3 ¹ / ₁₆	706
VS134	3	—	—	0-25	1 ⁷ / ₃₂	⅝	2 ²¹ / ₃₂	704
VS136*	3	—	—	0-500	2⅝	2⅝	4 ⁹ / ₁₆	703
VS138	3	—	—	0-1000	3⅝	2 ¹¹ / ₁₆	5 ¹³ / ₁₆	901
VS139	7½	—	—	0-1000	7¼	4 ¹ / ₁₆	6 ⁷ / ₁₆	903
VS140*	9	—	—	0-1000	8 ¹⁹ / ₃₂	4 ¹ / ₁₆	6 ⁷ / ₁₆	904
VS142*	4½	—	—	0-25	1 ²⁵ / ₃₂	⅝	2 ²¹ / ₃₂	705
VS143♦	1.4	—	—	0-100	—	0.625	0.650	1100
VS144♦	1.4	—	—	0-250	—	0.640	1.968	1101
VS145♦	1.4	—	—	0-7	—	0.455	0.135	1106
VS147♦	1.4	—	—	0-20	—	0.615	0.238	1104
VS148♦	2.8	—	—	0-100	—	0.662	1.315	—
VS149♦	4.2	—	—	0-100	—	0.662	1.965	1304
VS150♦	1.4	—	—	0-50	—	0.625	0.440	1105
VS157W*	—	22½, 45	—	0-300	8⅛	4 ⁷ / ₁₆	7 ¹¹ / ₁₆	715
VS163♦	4.2	—	—	0-50	—	0.662	1.327	1305
VS164♦	5.6	—	—	0-50	—	0.662	1.767	1404
VS317	6	—	—	0-500	5 ¹¹ / ₃₂	2 ²⁷ / ₃₂	4 ¹⁵ / ₁₆	918
VS1149♦	4½	—	—	—	—	0.662	1.965	1306


*National Electronic Distributors Association.

♦Flashlight-type terminals.

*Available on special order only.

§5-screw terminals and 1 pigtail.

RCA BATTERIES—QUICK SELECTION GUIDE

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

FLASHLIGHT AND LANTERN TYPES

VS034A♦	1½	0-25	—	9/16	131/32	815
VS035A♦	1½	0-80	—	11/32	115/16	814
VS036♦	1½	0-150	—	111/32	213/32	813
VS040C	6	0-250	25/8	25/8	413/32	908
VS040S	6	0-250	25/8	25/8	43/8	915
VS073	1½	0-20	—	0.445	1.180	910
VS074	1½	0-20	—	13/32	13/4	24
VS138	3	0-1000	37/8	211/16	513/16	901
VS317	6	0-500	511/32	227/32	415/16	918
VS1073♦	1½	0-150	—	0.470	1.130	910
VS1074♦	1½	0-25	—	0.410	1.745	824
VS1334♦	1½	0-300	—	0.550	1.968	815
VS1335♦	1½	0-500	—	11/32	2	814
VS1336♦	1½	0-1000	—	15/16	23/8	813

PHOTOFLASH TYPES

VS704△	15	0-1.5	5/8	19/32	13/8	220
VS705†	22½	0-1.5	5/8	19/32	2	221
VS734♦	1½	0-25	—	9/16	131/32	—
VS735♦	1½	0-80	—	11/32	115/16	—
VS736♦	1½	0-150	—	111/32	213/32	—
VS1073♦	1½	0-150	—	0.470	1.130	910
VS1074♦	1½	0-25	—	0.410	1.745	824
VS1334♦	1½	0-300	—	0.550	1.968	1815
VS1335♦	1½	0-500	—	11/32	2	1814
VS1336♦	1½	0-1000	—	15/16	23/8	1813

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

PORTABLE "A-B" PACKS

VS019	7½, 9	90	0-50	12-15	97/32	223/32	45/16	401
VS047	9	90	0-50	12-15	141/16	211/16	41/16	400
VS050	6, 7½	75	0-50	0-12	89/16	27/16	33/4	403
VS057W	7½, 9	90	0-50	8-12	87/8	21/8	325/32	405
VS058	9	90	0-50	12-15	97/32	223/32	47/32	406
VS059	9	90	0-50	8-12	87/8	21/8	325/32	428
VS060	7½	75	0-50	0-12	83/8	35/8	21/4	431
VS064	1½	90	0-300	10-14	327/32	27/32	713/16	425

FARM "A-B" PACKS

VS022	1½	90	0-300	8-12	1511/16	41/32	615/16	413
VS119	7½, 9	90	0-50	10-12	727/32	47/8	97/8	415

△Flat-projecting terminals, one at each end. •National Electronic
 †Flat-recessed terminals, one at each end. Distributors Association.

♦Flashlight-type terminals.

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Burgess		Burgess (cont'd)	
A30	VS014	L6	VS327
AL-1	VS1335	M6	VS322
AL-2	VS1336	M30	VS013
AL-7	VS1074	N	VS073
AL-9	VS1334	N60	VS090
AL-133	VS1149	N60X	VS316
AL-N	VS1073	P6	VS300A
B5	VS129	P45	VS218
B30	VS012	P60	VS219
C5	VS065	S6D60	VS119
D3	VS072	S461	VS039
D5	VS315	T5Z50	VS050
D6	VS306	T5Z50P	VS060
D6PI	VS301	T6Z60	VS057W
F2BP	VS100	T6Z60P	VS059
F3	VS067	TW1	VS317
F4BP	VS040S	U10	VS083
F4H	VS040C	U15	VS084
F4PI	VS009	U20	VS085
F6A60	VS019	U30	VS086
F6A60P	VS058	U200	VS093
G6B60	VS047	UX45	VS318
H126	VS328	V45	VS125
H132	VS148	XX9	VS304
H133	VS1149	XX30	VS055
H146	VS312	XX45	VS016
H163	VS163	XX50	VS217
H164	VS164	Y10	VS704
H165	VS165	Y15	VS705
H177	VS309A	Z	VS034A
H233	VS400	Z4	VS068
Hg-1	VS143	Z30	VS015
Hg-9	VS313	Z30NX	VS114
Hg-12	VS144	1	VS035A
Hg-400	VS145	2	VS036
Hg-401	VS401	2D	VS069
Hg-630	VS147	2F	VS141
Hg-640	VS150	2F2H	VS136
Hg-675	VS675	2FBP	VS101
K45	VS082	2N6	VS305

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Burgess (cont'd)		Eveready (cont'd)	
2U6	VS323	E91	VS1334
2Z3	VS324	E92	VS1074
4F	VS004	E93	VS1335
4F2H	VS138	E95	VS1336
4F4H	VS103	E126	VS328
4F5H	VS139	E132	VS148
4F6H	VS140	E133	VS149
4FH	VS106	E133N	VS149
4TZ60	VS064	E146	VS312
6 Ign.	VS006S	E163	VS163
6 Tel.	VS006C	E164	VS164
7	VS074	E165	VS165
8R	VS070	E177	VS309A
17GD60	VS022	E233	VS400
21R	VS236	E400	VS145
120	VS735	E401	VS401
130	VS335	E630	VS147
220	VS736	E640	VS150
230	VS336	E675	VS675
422	VS134	W350	VS114
432	VS142	W352	VS100
532	VS133	W353	VS141
920	VS734	W354	VS101
930	VS334	W356	VS136
2370ST	VS130	W357	VS138
4156	VS102	W359	VS014
5156SC	VS131	W363F	VS127W
5308	VS112	W364F	VS157W
5360	VS028	6 "Gray Label"	VS006C
5540	VS029	6 "Ignitor"	VS006S
10308SC	VS127W	206	VS327
21308SC	VS157W	216	VS323
		226	VS300A
		228	VS329
		239	VS304
Eveready		243	VS324
A100	VS336	246	VS305
E1	VS143	266	VS322
E9	VS313	276	VS306
E12	VS144	333	VS332
E90	VS1073		

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Eveready (cont'd)		Eveready (cont'd)	
411	VS083	742	VS004
412	VS084	744	VS009
413	VS085	750	VS134
415	VS086	751	VS142
416	VS318	752	VS047
437	VS217	753	VS019
455	VS055	755	VS050
457	VS082	756	VS057W
467	VS016	757	VS058
468	VS125	759	VS022
477	VS218	761T	VS130
479	VS219	762S	VS112
482	VS013	763	VS102
484	VS012	773	VS029
490	VS090	776	VS119
493	VS093	778	VS131
495	VS316	781	VS028
504	VS704	785	VS060
505	VS705	815	VS734
509	VS040C	835	VS735
510S	VS040S	850	VS736
523	VS1149	904	VS073
635	VS335	912	VS074
703	VS133	915	VS034A
706	VS103	935	VS035A
707	VS315	950	VS036
711	VS101	960P	VS070
713	VS129	964	VS236
715	VS139	1015	VS334
716	VS140	1035	VS335
717	VS065	1461	VS039
720	VS069	2506	VS301
724	VS068	2709	VS339
726	VS072	2713	VS338
727	VS059	2731	VS337
729	VS064		
731	VS317		
735	VS106		
736	VS067		
738	VS015		
		Mallory, P. R.	
		M4	VS004
		M9	VS065

A Cross Reference of Comparative and Interchangeable Numbers

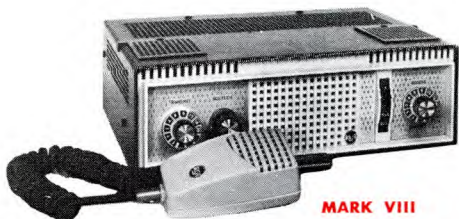
Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Mallory, P. R. (cont'd)		Mallory, P. R. (cont'd)	
M13F	VS036	RM1	VS143
M13P	VS736	RM12	VS144
M13R	VS336	RM400	VS145
M14F	VS035A	RM401	VS401
M14P	VS735	RM630	VS147
		RM640	VS150
M14R	VS335	RM675	VS675
M15F	VS034A	TR126	VS328
M15P	VS734	TR132	VS148
M15R	VS334	TR133	VS149
M20	VS236		
		TR146	VS312
M24F	VS074	TR163	VS163
M200	VS016	TR164	VS164
M208	VS083	TR165	VS165
M210	VS085	TR177	VS309A
M211P	VS218		
		TR233	VS400
M215	VS084	ZM9	VS313
M504	VS704		
M505	VS705		
M900	VS106		
M903	VS139		
		Ray-O-Vac	
M904	VS140	A2	VS068
M905	VS006S	A3	VS067
M906	VS006C	A4	VS004
M907	VS039	A6	VS009
M908	VS040C	A210	VS085
M910F	VS073	A400	VS047
M915	VS040S	A710	VS102
M916	VS040C	A716	VS127W
M918	VS317	T401M	VS401
M1600	VS300A	1LP	VS035A
M1602	VS305		
		2LP	VS036
M1603	VS306	6 Ign. S	VS006S
M1604	VS323	6 Tel. C	VS006C
M1605	VS322	7R	VS034A
M1611	VS327	8	VS129
Mn1300	VS1336		
		9	VS065
Mn1306	VS1149	11	VS141
Mn1400	VS1335	13	VS336
Mn1500	VS1334	14	VS335
Mn2400	VS1074	15	VS334
Mn9100	VS1073		

A Cross Reference of Comparative and Interchangeable Numbers

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
Ray-O-Vac (cont'd)		Ray-O-Vac (cont'd)	
15M	VS313	705	VS142
18	VS069	706	VS133
19	VS072	708	VS131
20	VS236	709	VS112
23	VS070	710LP	VS734
26	VS315	711	VS114
110LP	VS735	712	VS130
200	VS016	713	VS029
201	VS055	714	VS028
202	VS013	715	VS157W
203	VS082	716	VS073
204	VS090	722	VS093
205	VS015	900	VS106
206	VS014	901	VS138
207	VS012	902	VS103
208	VS083	903	VS139
210LP	VS736	904	VS140
211P	VS218	918	VS317
212	VS217	941	VS040C
213	VS086	941SC	VS040S
214	VS219	1200M	VS148
215	VS084	1304M	VS149
217	VS318	1600	VS300A
220	VS704	1601	VS301
221	VS705	1602	VS305
400	VS074	1603	VS306
401	VS019	1604	VS323
403	VS050	1604M	VS312
405	VS057W	1605	VS322
406	VS058	1606	VS309A
413	VS022	1611M	VS328
415	VS119	1810M	VS329
425	VS064	1900	VS304
428	VS059		
431	VS060		
641	VS039		
700	VS101		
701	VS100		
703	VS136		
704	VS134		

RCA SPECIAL COMMUNICATIONS PRODUCTS

Citizens Band Two-Way Radios



MARK VIII

The RCA MARK NINE and MARK VIII 27-megacycle citizens' band 2-Way Radios are designed to provide business and industry with dependable short-range communications. Their low cost and uncomplicated operating features make them ideal for use by private citizens for sports and recreational use. The low, slim silhouette of both units facilitate installation in cramped locations permitting under-the-dash mounting even in today's small cars.

One of the many important features of the RCA MARK NINE is the combination "S" meter and relative RF output meter which provides the operator with a relative indication of the strength of the incoming signal ("S") and of the RF signal he himself is transmitting ("EO"—output voltage).

Another important new feature incorporated in the RCA MARK NINE is the Spotting switch. Use of the "spot" feature permits precise manual tuning of the receiver to any one of the transmit crystal frequencies. This feature has particular value in operations in which a number of vehicles are employed, each operating on a different frequency.

For applications where an additional speaker is required at some remote location, the RCA MARK NINE also incorporates an external speaker jack. Since use of the external speaker does not make the speaker in the unit inoperative, incoming calls can be heard at both locations.

RCA SPECIAL COMMUNICATIONS PRODUCTS

Citizens Band Two-Way Radios

Both the **MARK NINE** and **MARK VIII** incorporate the following features:

- 9 crystal-controlled transmit and receive channels
- Tuneable receiver for reception of all 23 CB channels
- Excellent voice reproduction—high intelligibility
- Built-in AC power supply
- Separate 6- or 12-Volt DC power supply (optional) for mobile installation
- 5 Watt* transmitter
- Highly selective super-heterodyne receiver with one RF and two IF amplifier stages
- Fully adjustable squelch circuit to quiet receiver
- Improved Automatic Noise Limiter to reduce effects of ignition and similar interference
- Automatic Volume Control—affords maximum gain of weak signals and limits strong ones
- Includes built-in TVI trap
- PI network output assures more efficient antenna coupling—insures peak output
- Electronic switching—no relay noise or chatter
- Audio output—2½ Watts
- Impact-resistant push to talk ceramic microphone with coil cord
- Rugged metal cabinet with plastic face plate—attractive midnight blue and gray scratch-resistant vinyl finish
- Illuminated meter and working channel number
- Compact, lightweight—only 3½" high, 11¼" wide, 8" deep—weighs only 9 lbs.
- Meets all FCC requirements



MARK NINE

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

RCA Microphones for Broadcasting, Public Address and Recording Applications.

**Polydirectional
Ribbon**



**Non-Directional
Pressure**



Uniaxial Ribbon



**Direct Pressure
Lavalier**



**Bi-Directional
Ribbon**



262

ORDER NUMBER	MA 2311—Chrome MA 2312—TV Gray	MA 2313	MA 2314	MA 2315	MA 2316
TYPE	77 DX	BK-1A	BK-5B	BK-6B	BK-11A
DIRECTIONAL CHARACTERISTICS	Directional (Cardiod) Bi-Directional Poly-Directional	Non-directional (vertical) Semi-directional (horizontal)	Uni-directional Cardiod	Semi-directional	Bi-directional
ELEMENT TYPE	Ribbon	Dynamic	Ribbon	Dynamic	Ribbon
FREQUENCY RANGE	30-20,000 cps	50-15,000 cps	30-20,000 cps	60-15,000 cps	20-20,000 cps
OUTPUT IMPEDANCE OHMS	30/150/250	30/150/250	30/150/250	30 150 250	30 150 250
EFFECTIVE OUTPUT LEVELS AT 1000 CPS	-56 dbm	-52 dbm	-56 dbm	-67 dbm	-56 dbm
HUM PICKUP 1 m gauss field	-128 dbm	-102 dbm	-128 dbm	-112 dbm	-130 dbm
Gm—db	-150	-148	-150	-158	-147

APPLICATIONS	AM, FM TV broadcast, recording studio, outdoors or indoors to cover varying pickup conditions. Use with stand.	AM, FM TV broadcast, studio remote pickup. Outdoor and indoor use. Stand or hand held P.A. work & audience participation.	AM, FM TV broadcast & recording studio, high fidelity sound systems.	General FM, AM, & TV broadcast use or high quality P.A. use when a lightweight or concealed mike is useful. Excellent for audience participation shows "on-the-spot interviews," etc.	AM, FM, TV broadcast & recording studio where highest quality reproduction is required, general program & announce.
SIZE	11½" L, 3¾" W, 2½" D	7¾" L, 1⅞" D	7" L, 2¼" H, 2⅞" W	2 ⁹ / ₁₆ " L, 1 ¹⁵ / ₁₆ " dia.	8" H, 2⅞" W, 2⅞" D
WEIGHT less cable	3 lbs.	18 oz.	1 lb. 11 oz.	2.3 oz.	2 lbs.
CHARACTERISTICS AND ADVANTAGES	3-position Voice-Music switch to select best operating characteristics, exceptionally well shielded against hum, 3 position shutter switch to select best directional pattern, shock mounted, high quality reproduction over entire audio range. ½" pipe thread mounting.	Rugged, insensitive to wind & vibration, smooth frequency response, ball and socket swivel mount for desk stand or hand held, ½" pipe thread mounting.	3-position voice-music switch to select best operating characteristics, blast filter protection against loud noises, operates in high hum fields, shock mounted, wide frequency range & smooth response. Boom mount (MA 2324) and special outdoor windscreen (MA 2325) available. ½" pipe thread mounting. MA 2305 Stand extra.	Wide frequency range, excellent speech balance, rugged construction, neck lanyard included. Suitable for goose neck stands; use MA 2307 Holder (⅝"-27 thread).	3-position Voice-Music switch to select best operating characteristics, high quality reproduction over entire audio range, operates well in high hum fields. Stainless screens, swivel mounted for 45 degree tilt. ½" pipe thread mounting, MA 2306 Stand extra.
CABLE	30 feet, 3-conductor tinned cadmium bronze wire (for longer life). No plug.	30 feet, 3-conductor tinned cadmium bronze wire (for longer life). No plug.	30 feet, 3-conductor tinned cadmium bronze wire (for longer life). No plug.	30 feet, 2-conductor cadmium bronze cable for hi flexibility & life, special shielding external jacket, no plug.	30 feet, 3-conductor tinned cadmium bronze wire (for longer life). No plug.

RCA Microphones for Broadcasting, Public Address and Recording Applications.

Non-Directional
Pressure



Non-Directional
Pressure



Bi-Directional
Ribbon



Uni-Directional
Hi-Output Ribbon



Vari-Directional
Condenser



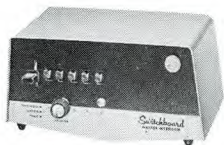
ORDER NUMBER	MA 2317	MA 2318	MA 2319	MA 2320	MA 2321
TYPE	SK-39A	SK-45B	SK-46B	KU-3A	M1-10006A
DIRECTIONAL CHARACTERISTICS	Non-directional	Non-directional (below 3000 cps) Semi-directional (over 3000 cps)	Bi-directional	Uni-directional	Vari-directional Cardiod
ELEMENT TYPE	Dynamic	Dynamic	Ribbon	Ribbon	Condenser
FREQUENCY RANGE	70-9,000 cps	70-12,000 cps	40-15,000 cps	30-15,000 cps	30-20,000 cps
OUTPUT IMPEDANCE OHMS	250	150/200/15,000	200 and 15,000	30/150/250	30/150/250
EFFECTIVE OUTPUT LEVELS AT 1000 CPS	-55 dbm	-56 dbm/-58 dbm below 1 v.	-58 dbm/-60 dbm below 1 v.	-51 dbm	-36 dbm
HUM PICKUP 1 m gauss field	-95 dbm	-106 dbm	-113 dbm	-128 dbm	-128 dbm
Gm—db	-150	-147	-150	-143	-128

APPLICATIONS	Close-talking announce remote pickup and mobile use, indoor or outdoor P.A. work, home recording amateur radio, individual soloist use. May be panel mounted.	Paging, PA indoors or outdoors, voice or music, suitable for "close talk."	AM, FM & TV studio & control room announcing or any indoor application requiring excellent response. Minimum feedback & background noise. Not recommended outdoors.	TV & motion picture live pickup or wherever boom operation used.	TV & motion picture live pickup, long distance pickup, used on boom.
SIZE	3¼" H, 2⅞" W, 2¾" D	5½" H, 1⅝" W, 2" D	5⅞" H, 1⅝" W, 1⅜" D	8" L, 3" W, 3½" D	6" L, 1½" D
WEIGHT less cable	15 oz.	15 oz.	13 oz.	2 lbs. 13 oz.	1 lb. 2 oz.
CHARACTERISTICS AND ADVANTAGES	Rugged, insensitive to shock, wind & vibration. Relatively insensitive to humidity & temperature Low cost. Floor or desk stand may be used. ⅝"-27 thread.	Rugged, lightweight, small size, hi or low impedance, swivel mount 45° tilt ⅝"-27 thread.	Rugged construction, small size, excellent fidelity, swivel mounting to 85 degree tilt. ⅝"-27 thread.	Very uniform frequency output, response over normal pickup angle, rugged, time tested. Comes complete with Voice-Music switch, and resilient mounting.	Uses small lightweight dry cell battery. Ultra directional attachment (MA 2322) & wind-screen (MA 2323) available. With MA 2322, mike is effective at 4 times the distance of conventional mikes. Rugged design.
CABLE	25 feet, 2-conductor, no plug.	25 feet, 2-conductor, no plug.	25 feet, 2-conductor, no plug.	12" cable pigtail, no plug.	Plug receptacles with mating plug & 25' boom cord.

RCA SPECIAL COMMUNICATIONS PRODUCTS

Intercoms

"MASTERCOM"



"SWITCHBOARD"

"MASTERCOM" (Master Intercom)

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

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

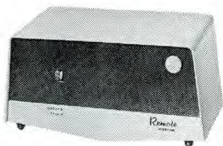
"SWITCHBOARD" (Master Intercom)

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

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

H 4¼", W 8⅞", D 4⅞"

RCA SPECIAL COMMUNICATIONS PRODUCTS



"REMOTE STATION"

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



"WIRELESS" Intercom System

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

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

RCA SPECIAL COMMUNICATIONS PRODUCTS

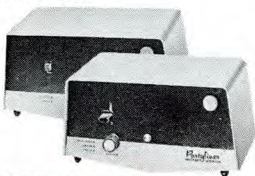


"TRANSISTORIZED" Intercom System

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

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

H 4½", W 8⅞", D 4⅞"



"PARTYLINER" (Intercom System)

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

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

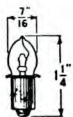
H 4½", W 8⅞", D 4⅞"

RCA 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

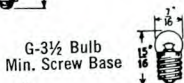
40	6.8	0.15	T-3¼	Min. Scr.	Brown
41	2.5	0.5	T-3¼	Min. Scr.	White
42	3.2	0.5	T-3¼	Min. Scr.	Green
43	2.5	0.5	T-3¼	Min. Bay.	White
44	6-8	0.25	T-3¼	Min. Bay.	Blue
45	3.2	0.5	T-3¼	Min. Bay.	Green
46	6-8	0.25	T-3¼	Min. Scr.	Blue
47	6-8	0.15	T-3¼	Min. Bay.	Brown
48	2.0	0.06	T-3¼	Min. Scr.	Pink
49	2.0	0.06	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-5¾	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.	



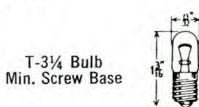
B-3½ Bulb
Min. Flange Base



TL-3 Bulb
Min. Screw Base



G-3½ Bulb
Min. Screw Base

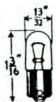


T-3¼ Bulb
Min. Screw Base



G-3½ Bulb
Min. Bayonet Base

G-4½ Bulb
Min. Bayonet Base



T-3¼ Bulb
Min. Bayonet Base

TELEVISION CHANNEL FREQUENCY CHART

Each channel is 6 mc. wide, and the video carrier in each is 1.25 mc. above the low limit. The standard is 4.5 mc. between video and the sound carriers, placing sound .25 mc. below the high frequency limit of the channel.

VHF

Channel Number	Picture Carrier Freq. Mc.	Sound Carrier Freq. Mc.	Receiver R F Osc. Freq. Mc.	Frequency Band (Mc.)
2	55.25	59.75	101	54-60
3	61.25	65.75	107	60-66
4	67.25	71.75	113	66-72
5	77.25	81.75	123	76-82
6	83.25	87.75	129	82-88
7	175.25	179.75	221	174-180
8	181.25	185.75	227	180-186
9	187.25	191.75	233	186-192
10	193.25	197.75	239	192-198
11	199.25	203.75	245	198-204
12	205.25	209.75	251	204-210
13	211.25	215.75	257	210-216

UHF

14	471.25	475.75	517	470-476
15	477.25	481.75	523	476-482
16	483.25	487.75	529	482-488
17	489.25	493.75	535	488-494
18	495.25	499.75	541	494-500
19	501.25	505.75	547	500-506
20	507.25	511.75	553	508-512
21	513.25	517.75	559	512-518
22	519.25	523.75	565	518-524
23	525.25	529.75	571	524-530
24	531.25	535.75	577	530-536
25	537.25	541.75	583	536-542
26	543.25	547.75	589	542-548
27	549.25	553.75	595	548-554
28	555.25	559.75	601	554-560
29	561.25	565.75	607	560-566
30	567.25	571.75	613	566-572
31	573.25	577.75	619	572-578
32	579.25	583.75	625	578-584
33	585.25	589.75	631	584-590
34	591.25	595.75	637	590-596
35	597.25	601.75	643	596-602
36	603.25	607.75	649	602-608
37	609.25	613.75	655	608-614
38	615.25	619.75	661	614-620
39	621.25	625.75	667	620-626
40	627.25	631.75	673	626-632

TELEVISION CHANNEL FREQUENCY CHART

UHF

Channel Number	Picture Carrier Freq. Mc.	Sound Carrier Freq. Mc.	Receiver R-F Osc. Freq. Mc.	Frequency Band (Mc.)
41	633.25	637.75	679	632-638
42	639.25	643.75	685	638-644
43	645.25	649.75	691	644-650
44	651.25	655.75	697	650-656
45	657.25	661.75	703	656-662
46	663.25	667.75	709	662-668
47	669.25	673.75	715	668-674
48	675.25	679.75	721	674-680
49	681.25	685.75	727	680-686
50	687.25	691.75	733	686-692
51	693.25	697.75	739	692-698
52	699.25	703.75	745	698-704
53	705.25	709.75	751	704-710
54	711.25	715.75	757	710-716
55	717.25	721.75	763	716-722
56	723.25	727.75	769	722-728
57	729.25	733.75	776	728-734
58	735.25	739.75	781	734-740
59	741.25	745.75	787	740-746
60	747.25	751.75	793	746-752
61	753.25	757.75	799	752-758
62	759.25	763.75	805	758-764
63	765.25	769.75	811	764-770
64	771.25	775.75	817	770-776
65	777.25	781.75	823	776-782
66	783.25	787.75	829	782-788
67	789.25	793.75	835	788-794
68	795.25	799.75	841	794-800
69	801.25	805.75	847	800-806
70	807.25	811.75	853	806-812
71	813.25	817.75	859	812-818
72	819.25	823.75	865	818-824
73	825.25	829.75	871	824-830
74	831.25	835.75	877	830-836
75	837.25	841.75	883	836-842
76	843.25	847.75	889	842-848
77	849.25	853.75	895	848-854
78	855.25	859.75	901	854-860
79	861.25	865.75	907	860-866
80	867.25	871.75	913	866-872
81	873.25	877.75	919	872-878
82	879.25	883.75	925	878-884
83	885.25	889.75	931	884-890

RCA ELECTRONIC INSTRUMENTS

for servicing • production • research • training

RCA VoltOhmyst®

Kit or Wired

Available as a kit or wired instrument. Measures ac and dc voltage to 1500 volts; resistance from 0.2 ohm to 1000 megohms. • Features 1.5 volts rms and 4 volts peak-to-peak ranges for low ac voltage measurements • $\pm 3\%$ accuracy on dc; $\pm 5\%$ accuracy on ac • Meter electronically protected against burnout • Aluminum panel with permanent etched lettering.

WV-77E

RCA Senior VoltOhmyst®

Kit or Wired

Permits direct reading of peak-to-peak voltages of complex wave forms found in video sync, and deflection circuits of black-and-white and color TV receivers; rms values of sine-waves; dc voltages; and resistance. • 0.5-volt dc range for checking transistor circuits • Provides accuracy of $\pm 3\%$ full scale on BOTH ac and dc measurements with less than 1% tracking error • Separate color-coded peak-to-peak and rms voltage scales • Meter electronically protected against burnout.

WV-98C

RCA Volt-Ohm-Milliammeter

Kit or Wired

The V-O-M with extra value. 0.25-volt and 1.0-volt dc ranges. Response is flat to 800,000 cps on 2.5- and 10-volt ranges. Easy to read 5½" meter. Non-breakable sealed plastic case. Jacks located below switches to keep leads out of way. Spring clips on handle to hold leads.

WV-38A



WV-77E

WV-98C

WV-38A

TEST AND MEASURING EQUIPMENT

RCA Color Bar/Dot/Crosshatch Generator

For checking overall operation of Color-TV receivers. 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."

WR-64A

RCA 3-Inch Oscilloscope

Kit or Wired

Available as kit or wired instrument. Weighs only 14 lbs. Its compact size plus high gain and wide band width offers wide versatility in classroom or laboratory use. Voltage-calibrated, frequency compensated, 3-to-1 step attenuator • Scaled graph screen and calibrating voltage source allow direct reading of peak-to-peak voltages • "Plus-Minus" internal sync • Includes shielded input cable with direct/low cap probe.

WO-33A

RCA 5-Inch Oscilloscope

High-performance, wide-band oscilloscope for color-TV, black-and-white TV, and other electronic applications. Used to measure color burst signals and for trouble-shooting wideband color circuits. Multi-scale graph screen makes peak to peak voltage measurements as simple as with a VTVM.

WO-91A



WR-64A

WO-33A

WO-91A

RCA ELECTRONIC INSTRUMENTS

RCA RF Signal Generator

Designed for maintenance, troubleshooting and instructional purposes, this versatile RF Signal Generator provides an accurate source of CW or amplitude-modulated signals in the fundamental range of 85 KC to 40 MC. It is particularly well suited for aligning and signal tracing AM, FM, Hi-Fi and Citizens' Band receivers.

WR-50A

RCA Stereo FM Signal Simulator

A compact, lightweight instrument designed to generate the signals necessary for complete service and maintenance of stereo multiplex FM receivers and adaptors. The instrument features a special phase-test signal (L+R) for accurate phase adjustment of sub-carrier transformers, eight pre-set sine-wave frequencies, center frequency trim adjustment, zero-center meter for checking receiver stereo balance.

WR-51A

RCA Sine/Square Wave Audio Generator

Designed for use in testing electronic equipment and other applications requiring sine-wave or square-wave signals in the range from 20 cps to 200,000 cps. Weighs only 10½ lbs. • Switch selection of sine-wave or square-wave output • Simple one-scale dial • Separate 60 cps output for intermodulation distortion measurements • Wide frequency range, 20 cps to 200,000 cps • Less than ¼ of 1% distortion over the audio-frequency range.

WA-44C



TEST AND MEASURING EQUIPMENT

RCA AC Vacuum-Tube Voltmeter Kit or Wired

A high-sensitivity AC VTVM for Hi-Fi and other audio applications. Designed for measuring ac voltages from 0.0001 volt to 500 volts over the frequency range of 10 to 1,500,000 cycles. Offers nine overlapping ac voltage ranges from 10 millivolts to 100 volts full scale. Comes with Direct/Low Capacitance Probe and Cable.

WV-76A

RCA DC Microammeter

This ultra-sensitive, battery-operated vacuum-tube microammeter is designed for measuring minute direct currents. When used as a voltmeter it is especially suited to measurements in circuits where loading is a critical factor. Can also be used as an Ohmmeter to measure extremely high resistances such as leakage and insulation resistance. Six dc ranges permit current measurements from 0.0002 to 1000 microamperes. Measures resistance in the order of billions of ohms.

WV-84C

RCA Electron-Tube Micromhometer

Precision laboratory instrument that tests tubes under typical operating conditions as specified in tube manufacturers' technical data or conditions under which the tube is expected to operate.

WT-100A



RCA ELECTRONIC INSTRUMENTS

RCA Color Picture Tube Tester

Designed specifically for the testing of color picture tubes. Offers a quick, reliable means of checking each gun for emission quality (including warm-up performance), inter-electrode leakage, and shorted elements. Tests color picture tube in-set or out-of-set. Built-in cable and socket assembly.

WT-115A



WT-1154

TEST AND MEASURING EQUIPMENT

RCA Television/FM Sweep Generator

For visual alignment and troubleshooting 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 to 108 Mc. Sweep width continuously adjustable to 12 Mc.

WR-69A

RCA RF/IF/VF Marker Adder

For rf, if and video sweep alignment of both color and black-and-white TV receivers. Eliminates or reduces distortion of sweep curve by the marker. Permits trap alignment without marker "suckout". Hi-Q markers—high in amplitude, narrow in width. Four marker choices: positive peak, negative peak, positive and negative peaks (wide band), positive and negative peaks (narrow band). Voltage stabilized for rock-steady trace display.

WR-70A

RCA Crystal-Calibrated Marker Generator

Supplies a fundamental frequency rf carrier of crystal accuracy for aligning and trouble-shooting color-TV, black-and-white TV, FM receivers and other electronic equipment operating in the 19 Mc to 260 Mc range.

WR-99A



WR-70A



WR-69A



WR-99A

EDUCATIONAL DEVICES

RCA V-O-M Dynamic Demonstrator Kit

WE-95A (K)

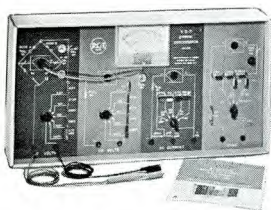
RCA's production type Volt-Ohm-Milliammeter (WV-38A) converted into an easy-to-assemble kit especially designed for classroom instruction. Simplifies and speeds the teaching of electronic V-O-M measurement techniques. Once assembled it becomes an actual test instrument that can be used to test and service TV, AM, FM, and shortwave radios, hi-fi and stereo sound equipment.

Transistor Radio Dynamic Demonstrator Kit

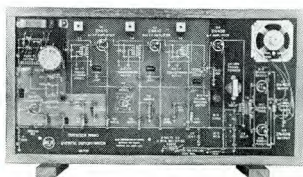
WE-93A (K)

The RCA WE-93A(K) is an AM superheterodyne transistor radio receiver converted into kit form for educational and instructional purposes. Once assembled it becomes an actual operating AM receiver.

- Special silver-plated spring connectors provide mechanical and electrical connection . . . assure easy component installation.
- Each circuit function is color-coded for easy identification.
- Inherent operational simplicity assures ease of service checks and tests . . . exceptionally easy component substitution.
- Solid mahogany frame and stand (unfinished).



WE-95A (K)



WE-93A (K)

RCA ELECTRONIC INSTRUMENTS

Accessories

WG-360A Phase Checker

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

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

WG-304B RF Modulator

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

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

WG-295D Video Multimarker

For sweep alignment and troubleshooting of color TV receivers

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

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

WV-120A Power Line Monitor

For constant indication of power line voltage

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

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

WP-25A TV Isotap

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

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

WG-307B TV Bias Supply

Kit or Wired

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

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

Probes

For Voltmeter-Type Instruments

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

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

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

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

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

For use in WG-289 and WG-297 high-voltage probes
WG-206—1090 megohms multiplies 11 megohm input resistance by 100

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

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

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

Probes for Oscilloscopes

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

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

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

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

WG-354A Capacitance-Type Voltage Divider • slips on to probe WG-300B. Extends voltage range for measuring signal pulses up to 5000 volts.

RCA Field Sales Offices
INDUSTRIAL TUBE PRODUCTS

Newark 2, New Jersey, 32 Green Street
(Humboldt 5-3900)

Chicago 54, Ill., Merchandise Mart Plaza, Room 1154
(527-2900)

Hollywood, Calif., 6363 Sunset Blvd.
(461-9171)

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

ENTERTAINMENT TUBE PRODUCTS

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1965

JANUARY

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

JULY

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

FEBRUARY

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

AUGUST

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

MARCH

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

SEPTEMBER

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

APRIL

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

OCTOBER

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

MAY

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

NOVEMBER

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

JUNE

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

DECEMBER

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

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