# Industrial Receiving-Type Tubes

Industrial Military Commercia

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#### Introduction

With the increasing demands on modern communication technology, the need for a line of highly dependable receiving tubes is more pressing than ever. RCA has met this challenge by developing and maintaining a highly-reliable line of tubes designed to provide dependable, high-level performance.

RCA's premium line of industrial-receiving tubes is designed, manufactured, and tested to meet the stringent requirements of communication and other industrial applications. All RCA Premium Types undergo the following testing and sampling procedures.

Every tube manufactured must meet a 0.4% quality control level for the most important electrical parameters such as gm, plate, screen, and heater current along with control of: heater-to-cathode leakage; reverse grid current caused by gas evolution or grid emission; and high-resistance, brief-duration, interelement shorts. In addition, other quality-control tests (typically having 2.5% to 6.5% AQL's) are designed to check mu, interelectrode capacity, cutoff plate current, insulation resistance, and screengrid emission, on each production lot.

Glass-strain, base-strain, shock, and vibration tests are performed on each production lot to insure mechanical integrity of tube structure. After undergoing a shock test of 600 g's or more, the sample tested must meet electrical test limits reduced only slightly from initial limits.

Life testing is the most significant part of the RCA Premium-Tube testing program. Increased reliability of each production lot of a given type results from: (1) 1000 hour, elevated temperature, full dissipation life tests of larger sample sizes (20 to 32 tubes) and (2) electrical testing at 1000 hours for characteristics such as gm, plate current, reverse-grid current, and insulation resistance. Small acceptance

numbers assure a process average acceptable failure rate of 1.1% per 1000 hours.

Early hour stability of electrical parameters is further controlled for each lot by applying strict AQL's to large sample sizes that are related to production quantities. A heater-cycling stress test, which consists of cycling the heater on and off 2000 times at elevated (110%) heater voltage, is also performed.

Premium 7	Types			Nuvistor	Types
OA2WA	12AT7WB	5726	6005	7586	8203
OB2WA	5651WA	5727	6080WA	7587	8393
6AU6WB	5654	5749	6186	7895	8627
6J6WA	5670	5751	6189	8056	8628
12AT7WA	5725	5814A	8532	8058	8808

In addition to the Premium Types, a complete line of mobile-oriented types are available with special tests and controls for 6-volt and 12-volt battery systems. The 6600 and 7000 series are tested and controlled for gm or plate current at low and high heater voltage that simulate the voltage extremes possible in mobile battery-generator systems.

The unique requirements of mobile transmitter service have been met with controls such as the 450 MHz tripler test in a mobile transceiver performed on a sample of each production lot of type 6939's. The high-quality performance of type 7551 as a Class C device is also assured by 100% factory testing in a Class C amplifier circuit.

The care, which is given to the design and manufacture of RCA's Premium Tubes and which extends to its entire line of industrial-receiving tubes and nuvistors,\* makes the RCA line of industrial-receiving tubes the finest line available.

Detailed data for RCA Industrial and Military Nuvistors are given in catalog NIT-140. This publication may be obtained by writing to RCA, Commercial Engineering, Harrison, N.J. 07029.

<sup>▲</sup> Formerly RCA Developmental Type A15526.

#### **Application Guide**

1. AF Amplifier	16. Frequency Multiplier	31. Pulse Modulator
2. Automatic Gain Control	17. Gated Amplifier	32. RF Power Amplifier
3. Balanced Modulator/Balanced Mixer	18. Grid-Controlled Rectifier	33. RF Voltage Amplifier
4. Cathode-Coupled, Direct-Drive (RF)	19. Indicator, Voltage	34. Rectifier
5. Cathode Drive (RF) (Grounded Grid) 6. Cathode Follower	20. IF Amplifier	35. Relay
7. Clipper	22. Limiter	36. Sweep-Circuit Oscillator
8. Converter	23. Low-Plate-Voltage Nuvistor Type	37. Switching
9. DC Amplifier	24. Mixer	38. Transducer
10. Delay Circuit	25. Modulator	39. Tubes Operating from Battery Supplies
11. Demodulator	26. Multivibrator	40. Video Amplifier
12. Detector, Audio	27. Oscillator, RF	41. Voltage Reference
13. Driver	28. "On-Off" Control	42. Voltage Regulator
14. Frequency Converter	29. Phase Inverter	43. Voltage Regulator, Series
15. Frequency Divider	30. Pulse Amplifier	44. Volume-Expander-Compressor

1.	AF	Amplifier	
	CLA	SS - A1	

Twin Diode - Medium-Mu Triodes 12SW7 26C6 High-Mu Triode - 5719 Power Triodes 955 5718 9002 Medium-Mu Twin Triodes 12SX7GT 5687 6072 5670 5692 6189

High-Mu Twin Triodes

6112

6681/12AX7A

Twin Power Triode - 3A5

Sharp-Cutoff Pentode

6AH6WA

1620

Power Pentodes

3A4 1621 7054 6AG7Y 5672 8077/7054 6AK6 6677/6CL6

Beam Power Tubes

12A6 6005 1622 6550 5686 6550/V1 5824 6669/6AQ5A 5881 7061

Twin Beam Power Tube - 26A7GT

Pentagrid Amplifier - 1612

Beam-Deflection Tube - 7360

CLASS - AB1

Medium-Mu Twin Triodes 5670

Beam Power Tubes

1614 6669/6AQ5A 1619 7551 6005 7558

Twin Beam Power Tube - 26A7GT

CLASS - B

Twin Power Triode - 1635

2. Automatic Gain Control

Remote-Cutoff Pentode

5749

3. Balanced Modulator/ Balanced Mixer

Beam-Deflection Tube

7360

4. Cathode-Coupled, Direct-Drive (RF)

Medium-Mu Twin Triodes

6DJ8/ECC88 6922/E88CC

5. Cathode Drive (RF) (Grounded Grid)

High-Mu Triodes

6J4 8532 8058 6. Cathode Follower

Medium-Mu Triodes \$3.4 8056

Medium-Mu Twin Triodes

5670 6350 7044 5687 6922/E88CC 7308 5965

7. Clipper

Twin Diodes
5726 7055

8. Converter

Pentagrid Converters

12SY7 26D6 5750

9. DC Amplifier

Sharp-Cutoff Pentode - 5693

Medium-Mu Twin Triode - 5692

High-Mu Twin Triode - 5691

10. Delay Circuit

Sharp-Cutoff Pentodes

6AS6 5725 5636

11. Demodulator

Beam-Deflection Tube - 7360

#### **Application Guide [Cont'd]**

12. Detector Audio		17. Gated Amplifier	17. Gated Amplifier		23. Low-Plate-Voltage Nuvistor	
Twin Diode — Medium-Mu Triodes		Sharp-Cutoff Pentodes		Type for Hybrid	Equipment	
12SW7	26C6	•	725	Medium-Mu Triode - 805	66	
VHF	1	Pentagrid Amplifier - 5915				
Twin Diodes				24. Mixer		
5726 6663/6AL5 5896 6887	7055	18. Grid-Controlled Red	tifier	VHF		
UHF		Triodes (Thyratron) 6D4	884	Medium-Mu Twin Triodes	6922/E88CC	
Diodes		Tetrodes (Thyratron)	F707	5670 6386		
9005	9006	2D21 2050A 502A 5696 2050	5727 6012	High-Mu Twin Triodes 12AT7WA 12AT7	WB 7898	
12 Duban						
13. Driver Beam Power Tubes		19. Indicator, Voltag	ge	Medium-Mu Triode — Sharp-Cutoff Pentodes		
5763 7551 6417 7558	7905	Electron-Ray Tubes 1629	6977	6678/6U8A	7059	
7555				Sharp-Cutoff Tetrode -	7587	
14. Frequency Converter		20. IF Amplifier		Sharp-Cutoff Pentodes 6AS6	5725	
High-Mu Triode - 6664/6AB4		VHF		Pentagrid Converters		
High-Mu Twin Triode - 6679/12	AT7	Medium-Mu Triodes 7586	8056	12SY7 26D6	5750	
Beam-Deflection Tube - 7360		Medium-Mu Twin Triodes		UHF	\$ .	
			922/E88CC 308	Diode - 9005		
15. Frequency Divider		Sharp-Cutoff Pentodes		Medium-Mu Twin Triode 6J6WA		
Medium-Mu Twin Triodes 5670 5964	6350	6AU6WB 6136 5654 6676/6CB6A	7056	Sharp-Cutoff Pentodes		
5687 6211 5963	7044			5636	9001	
Power Pentode - 6197		Remote-Cutoff Pentodes		Remote-Cutoff Pentode -	9003	
		5749	6660/6BA6			
7. Farman M. Martin		Sharp-Cutoff Tetrode - 7587	7	25. Modulat	or	
16. Frequency Multiplier FREQUENCY DOUBLER		High-Mu Triode - 7895		Twin Tetrode - 6360A		
		UHF		Beam Power Tubes		
High-Mu Triode 8808		Sharp-Cutoff Pentodes	6106	755 1	7558	
Power Triode		5840	6186	Power Pentodes 7054	8077/7054	
8203	8627	Semiremote-Cutoff Pentodes 5899	6206	7054	337777334	
Twin Tetrode - 6360A		Remote-Cutoff Pentode - 90	003			
Power Pentodes	7/7054			26. Multivibro	ator	
	7/7054	21. Inverter		Medium-Mu Twin Triodes		
Beam Power Tubes 5763 7551	7905	Medium-Mu Triode - 6814		12SX7GT 407A	6189 6350	
6417 7558	, 500	Medium-Mu Twin Triodes		5670 5687 5692	6680 /12AU7A 6922/E88CC 7044	
FREQUENCY TRIPLER		6350	7044	5814A	, , , , ,	
Beam Power Tubes						
5763 6417	7905	22. Limiter		High-Mu Twin Triodes		
		High-Mu Twin Triode - 789	0	12AT7WA	5751	

#### Application Guide [Cont'd]

27. Oscillator, RF	29. Phase Inverter	Medium-Mu Twin Triodes
VHF	Medium-Mu Triode - 6814	6DJ8/ECC88 6386 407A 6922/E88CC 6111 7057
Power Triode - 8203	Medium-Mu Twin Triodes	
High-Mu Triode - 6664/6AB4	5670 6189 6922/E88CC 5687 6350 7044	High-Mu Twin Triode - 6679/12AT7
Medium-Mu Twin Triodes	5814A 6680/12AU7A	Sharp-Cutoff Tetrodes 7587 7717/6CY5
407A 5814A 6680/12AU7A 5670 6111	High-Mu Twin Triodes	7587 7717/6CY5 Sharp-Cutoff Pentodes
HILL TILL	5691 7058 5751	1L4 5693
High-Mu Twin Triodes 12AT7WA 7898		6AC7W 5847/404A 6AH6WA 6136
12AT7WB	30. Pulse Amplifier	6AU6WB 6186 6SJ7Y 6661/6BH6
Medium-Mu Triode — Sharp-Cutoff Pentodes	Medium-Mu Triode - 6814	408A 6676/6CB6A 5654 6688A 5678 7056
6678/6U8A 7059	Medium-Mu Twin Triodes	7,000
Twin Tetrode - 6360A	5670 6350 7044 5687	
Beam Power Tubes		Remote-Cutoff Pentodes 26A6 6660/6BA6
3B4WA 5763 7558	31. Pulse Modulator	5749 6662/6BJ6
1614 6417 7905 1619 7551	Twin Diodes	
Power Pentodes	5726	Medium-Mu Triode - Power Pentode
1613 7054 8077/7054		7060
Medium-Mu Triode - Power Pentode - 7060	32. RF Power Amplifier	UHF
Pentagrid Converters	VHF	
12SY7 26D6 5750	Power Triode - 8203	High-Mu Triodes 6J4 8532
UHF	Twin Power Triode - 3A5	8058
Medium-Mu Triodes		Sharp-Cutoff Pentodes
6F4 8056 8393 7586	Beam Power Tubes  3B4WA 5686 7551	959 5840 9001
High-Mu Triodes	1614 5763 7558 1619 6417 7905	Semiremote-Cutoff Pentodes
7895 8058 8808	Medium-Mu Triode – Power Pentode	5899 6206
Power Triodes	7060	Remote-Cutoff Pentode - 9003
955 86 <i>2</i> 7 9002 5718	Power Pentodes	
Medium-Mu Twin Triodes 6J6WA 6021	3A4 1613 8077/7054 6AG7Y 7054 8156 6AN5	
Sharp-Cutoff Tetrode - 7587	UHF	34. Rectifier
·	High-Mu Triode	POWER
Twin Power Pentode - 6939	8808	Full-Wave Gas Type - 83
28. "On-Off" Control	Power Triodes 955 8627 9002	Full-Wave Vacuum Types
(Involving Long Periods of Operation Under Cutoff Conditions)	5718	5R4GYB 2076/5R4GYB 6202 6X4W
Twin Diode - 6887	Twin Power Tetrode - 6360A	LOW CURRENT
	Twin Power Pentode - 6939	LOW CURRENT
Medium-Mu Triode - 6814	33. RF Voltage Amplifier	Twin Diodes 5726 6663/6AL5
Medium-Mu Twin Triodes 5844 5965 6922/E88CC	VHF	5896 7055
5963 6211 7044 5964 6350	Medium-Mu Triodes	Single Diodes
Sharp-Cutoff Pentode - 6AS6	5842/417A 8056 8393 7586	9005 9006
Power Pentode - 6197		PULSE
Pentagrid Amplifier - 5915	High-Mu Triodes 6664/6AB4 7895 8628	Half-Wave Vacuum Type - 5642
<b>→</b> · · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·

#### **Application Guide (Cont'd)**

35. Relay

Glow-Discharge (Cold-Cathode) Tubes

5823 OA4G 1C21

Triodes (Thyratron)

6D4 884

Tetrodes (Thyratron)

2D21 5663 5727 2050 5696 6012

2050A

36. Sweep-Circuit Oscillator

Triode (Thyratron) - 884

37. Switching

Twin Diode - 6887

Beam-Deflection Tube - 7360

38. Transducer

Mechano-Electronic Transducer - 5734

39. Tubes Operating from Battery Supplies

NOMINAL-12-VOLT STORAGE **BATTERY SYSTEMS** 

Twin Diode - 7055

Twin Diode - High-Mu Triode 7724/14GT8

Medium-Mu Twin Triode - 7057

High-Mu Twin Triodes

7058 7898

7258

Medium-Mu Triode -Sharp-Cutoff Pentodes

7059

Medium-Mu Triode - Power Pentode

7060

Sharp-Cutoff Pentode - 7056

Power Pentodes

7054 8077/7054

Beam Power Tubes

7061 7551

NOMINAL-6-VOLT STORAGE **BATTERY SYSTEMS** 

Twin Diode - 6663/6AL5

High-Mu Triode - 6664/6AB4

Medium-Mu Twin Triode 6680/12AU7A

High-Mu Twin Triodes

6679/12AT7

6681/12AX7A

Medium-Mu Triode - Sharp-Cutoff Pentode

6678/6U8A

Twin Tetrode - 6360A

Remote-Cutoff Pentodes

6660/6BA6

6662/6BJ6

Sharp-Cutoff Pentodes

6661/6BH6 6676/6CB6A

Power Pentode - 6677/6CL6

Beam Power Tubes

6669/6AQ5A 7905

NOMINAL-24-VOLT STORAGE BATTERY SYSTEMS

Twin Diode - Medium-Mu Triode - 26C6

Twin Power Triode - 6082

Remote-Cutoff Pentode - 26A6

Pentagrid Converter -2606

Twin Beam Power Tube - 26A7GT

FILAMENTARY-CATHODE TYPES OPERATING FROM DRY-CELL BATTERY SUPPLIES

Half-Wave Vacuum Rectifier - 5642

Twin Power Triode - 3A5

Sharp-Cutoff Pentode - 1L4

Power Pentode - 3A4

Beam Power Tube - 1619

40. Video Amplifier

Sharp-Cutoff Tetrode - 7587

Sharp-Cutoff Pentode - 5639

Power Pentodes

6AG7Y 6AN5

6677/6CL6

41. Voltage Reference

Glow Discharge (Cold-Cathode) Tubes

5651A 5651WA 5783

42. Voltage Regulator

Glow Discharge (Cold-Cathode) Tubes

OA2 OC2 OA2WA 6073/OA2 -OC3 OA3 6074 OC3A 6074/OB2 OA3A OD3 OB2 OD3A 6626/OA2WA OB2WA 991

43. Voltage Regulator, Series

Low-Mu Twin Triodes

6AS7G 6080WA 6336A 6082 6080

Beam Power Tube - 5902

44. Volume Expander-Compressor

Pentagrid Mixer

1612

### **RCA Types for Mobile and Fixed-Station Communications Mobile**

- Types Operating from Batteries and Battery Charger Systems -

RCA Type	E <sub>f</sub> /I <sub>f</sub>	Max Rating P <sub>b</sub>	9 <sub>m</sub>	Base	Terminal Diagram
-	V/mA	W	$\mu$ mho		
	ERATING FI		NAL-12-V		
7054	13.5/275	5	11500	9-Pin Min.	9GK
7055	13.5/155	-	-	7-Pin Min.	6BT
7056	13.5/150	2	6200	7-Pin Min.	7CM Diagram 1
7057	13.5/180	2.2	6800	9-Pin Min.	9AJ
7058	13.5/155	1	1650	9-Pin Min.	9EP
7059	13.5/195	2.5 T 2.8 P	8500T 5200P	9-Pin Min.	9AE
7060	13.5/280	2.5 T 3P	4900T 7000P	9-Pin Min.	9DA
7061	13.5/210	9	4200	9-Pin Min.	9EU
7167	13.5/90	2	8000	7-Pin Min.	7EW
7258	13.5/210	2.8 T 2.3 P	4500T 7800P	9-Pin Min.	9DA
7551	13.5/360	10	5300	9-Pin Min.	9∟K
7724/ 14GT8	13.5/150	1,1	1000	9-Pin Min.	9KR
7898	13.5/150	2.75	5500	9-Pin Min.	9EP
8077/ 7054	13.5/275	0.575	11500	9-Pin Min.	9GK
	ERATING F		NAL-6-V		
6360A	6.3/820 12.6/410	14.0	3300	9-Pin Min.	6360A
6660/ 6BA6	6.3/300	3.3	4400	7-Pin Min.	7BK Diagram 2
6661/ 6BH6	6.3/150	3.3	4600	7-Pin Min.	7CM Diagram 1
6662/ 6BJ6	6.3/150	3.3	3600	7-Pin Min.	7CM Diagram 1
6663/ 6 AL 5	6.3/300		ed data, p.10	7-Pin Min.	6ВТ
6664/ 6 AB4	6.3/150	2.9	10900	7-Pin Min.	5CE
6669/ 6 AQ5 A	6.3/450	12	4100	7-Pin Min.	7BZ

RCA Type	V/mA	Max Rating P <sub>b</sub> W	g <sub>m</sub> μmho	Base	Terminal Diagram
6676/ 6CB6 A	6.3/300	2.3	8000	7-Pin Min.	7CM Diagram 1
6677/ 6CL6	6.3/650	8.5	11000	9-Pin Min.	9BV
6678/ 6U8 A	6.3/450	3 T 3 P	8500T 5200P	9-Pin Min.	9AE
6679/ 12AT7	12.6/150 6.3/300	2.8	5500	9-Pin Min.	9 <b>A</b>
6680/ 12AU7A	12.6/150 6.3/300	3	2200	9-Pin Min.	9 <b>A</b>
6681/ 12AX7A	12.6/150 6.3/300	1.1	1600	9-Pin Min.	9 <b>A</b>
7717/ 6CY5	6.3/200	_	8000	9-Pin Min.	7EW
7905	6.3/650	10	6700	9-Pin Min.	9PB
	PERATING F		NAL-24-V		
26 A6	26.5/70	3.3	4000	7-Pin Min.	7BK Diagram 2
26 A7 GT	26.5/600	2,2	5700	Octal	8BU
26 C6	26.5/70	2.75	1900	7-Pin Min.	7BT
26 D6	26.5/70	1.1	-	7-Pin Min.	7CH
6082	26.5/600	13	7000	Octal	8BD
FILAMEN OPERATI	TARY-CATH	ODE TYPE	S BATTERY	SUPPLIES	Control and the second
1L4	1.4/50	-	1025	7-Pin Min.	6AR
3 <b>A</b> 4	2.8/100 1.4/200	2	1900	7-Pin Min.	7BB
3 <b>A</b> 5	2.8/110 1.4/220	1	1800	7-Pin Min.	7BC
3B4WA	For data	a, refer to I	Military Sp	ecification	7CY
1619	2,5/2000	15	4500	Octal	7AW
5642	1.25/200		ed data, p.10	Submin.	5642
5672	1.25/50	0.065	650	Submin.	5672
5678	1.25/50	-	1150	Submin.	5678

- Other Types Suitable for Mobile-Station Applications -

QUICK-HEATING-FILAMENT TYPES (For Equipment Requiring Essentially Instant "Off-to-On" Action)					
3B4WA	For data, refer to Military Specification				7CY
16 19	2.5/2000	15	4500	Octal	7AW

7905	6.3/650	10	6700	9-Pin Min.	9РВ
BEAM-DEFLECTION TYPE HAVING 2 PLATES					
7360	6.3/350	1.5	5400	9-Pin Min.	9KS

#### RCA Types for Mobile and Fixed-Station Communications [Cont'd]

#### **Fixed-Station**

Premium tube types are shown on gray background. These types are subjected to more rigorous tests and controls than other types.

RCA Type	V∕mA	Max Rating Pb W	g <sub>m</sub> μmho	Base	Terminal Diagram
RF POWER	AMPLIFIER	RS, OSCILI FIPLIERS	LATORS, - Class (		
3 <b>A</b> 4	1.4/200	2	1900	7-Pin Min.	7BB
3B4WA	For data,	, refer to M	lilitary Sp	ecification	7CY
16 13	6.3/700	10	2500	Octal	7\$
16 14	6.3/900	21	6050	Octal	7\$
16 19	2,5/2000	15	4500	Octal	7AW
5763	6/750	12	7000	9-Pin Min.	9K
6360A	6.3/820	5	3300	9-Pin Min.	6360A
6417	12.6/375	12	7000	9-Pin Min.	9K
7558	6.3/800	10	5300	9-Pin Min.	9LK
8627 Nuvistor	6.3/150	2.5	13000	5-Pin Nuvistor	12CT
8203 Nuvistor	6.3/160	1.5	6000	5-Pin Nuvistor	12AQ
8808 Nuvistor	6.3/340	6°	18000	6-Pin Nuvistor	8808
AF POWER	AMPLIFIES 1, AB1, AB2,	RS OR MOI	OUL ATOF	RS-	
3 <b>A</b> 4	2.8/100 1.4/200	2	1900	7-Pin Min.	7BB
6AK6	6.3/150	2.75	2300	7-Pin Min.	7BK Diagram 1
6AN5	6.3/450	4.2	8000	7-Pin Min.	7BD Diagram 1
12 <b>A</b> 6	12.6/150	7.5	3000	Octal	7S
1614	6.3/900	21	6050	Octal	7S
16 19	2.5/2000	15	4500	Octal	7AW
1621	6.3/700	8.3	2500	Octal	7S
16 22	6.3/900	13.8	6000	Octal	7\$
1635	6.3/600	3	-	Octal	8B
5824	25/300	12.5	5000	Octal	7 <b>S</b>
5881	6.3/900	23	5200	Octal	7\$
6360A	12.6/410 6.3/820	7	3300	9-Pin Min.	6360A
6550	6.3/1600	35	9000	Octal	7\$
6550/V1		Match	ed pair of	6550's	
7558	6.3/800	10	5300	9-Pin Min.	9LK
"SPECIAL	L RED" TYI	PES			
569 1	6.3/600	1	1600	Octal	8BD
5692	6.3/600	1.75	2200	Octal	8BD

·	,				
RCA Type	E <sub>f</sub> /I <sub>f</sub>	Max Rating P <sub>b</sub> W	g <sub>m</sub> μmho	Base	Terminal Diagram
5693	6.3/300	2	1650	Octal	8N
TVPESE	OR UHF APP		ıc		
6DJ8/ ECC88	6.3/365	1.8	12500	9-Pin Min.	9AJ
6F4	6.3/225	2	5800	7-Pin Acorn	7BR
6J4	6.3/400	2.25	12000	7-Pin Min.	7BQ
955	6.3/150	1.6	2200	5-Pin Acorn	5BC
959	1.25/50	-	600	5-Pin Acorn with 2 Leads	5BE
5636	6.3/150	1.1	3200	Submin.	8DC Diagram 1
5718	6.3/150	3.3	6500	Submin.	8DK
5840	6.3/150	1.1	5000	Submin.	8DE
5896	6.3/300	For adde		Submin.	נס8
5899	6.3/150	1.1	4500	Submin.	8DE
6206	6.3/150	1.1	4500	Submin.	8DC Diagram 2
6939	12.6/300 6.3/600	6	10500	9-Pin Min.	9HL
7308	6.3/335	1.65	12500	9-Pin Min.	9AJ
7586 Nuvistor	6.3/135	1	11500	5-Pin Nuvistor	12AQ
7587 ** Nuvistor	6.3/150	2.2	10600	5-Pin Nuvistor	12AS
7895 Nuvistor	6.3/135	1	9400	5-Pin Nuvistor	12AQ
8056 Nuvistor	6.3/135	0.45	7500	5-Pin Nuvistor	12AQ
8058 Nuvistor	6.3/135	1.5	12400	5-Pin Nuvistor	12CT
8393 Nuvistor	13.5/60	1	11500	5-Pin Nuvi stor	12AQ
8532	6.3/400	2.5	11000	7-Pin Min.	7BQ
8627 Nuvistor	6.3/150	2.5	13000	5-Pin Nuvi stor	12CT
8808 Nuvistor	6.3/150	6 a	18000	6-Pin Nuvistor	8808
9001	6.3/150	0.5	1400	7-Pin Min.	7BD Di agram 2
9002	6.3/150	1.6	2200	7-Pin Min.	7BS
9003	6.3/150	1.7	1800	7-Pin Min.	7BD Diagram 2
9005	6.3/165	For added data, see p.10		5-Pin Acorn	5BG
9006	6.3/150		ed data, p. 10	7-Pin Min.	6BH

<sup>&</sup>lt;sup>a</sup> At plate cap seal temperature up to 150°C.

#### RCA Types for Mobile and Fixed-Station Communications [Cont'd]

#### **Fixed-Station**

- Rectifiers and Diodes -

RCA Type	E <sub>f</sub> /I <sub>f</sub>	Max R <sup>e</sup> bm V	lating I <sub>O</sub> (av) mA	Base	Terminal Diagram			
POWER R	ECTIFIERS							
5R4GYB	5/2	2650	147	Octal	5 <b>T</b>			
6X4W	6.3/0.6	1375	75	7-Pin Min.	5BS			
83	5/3	1550	225	Small 4-Pin	4C			
2076/ 5R4GYB	5/2	2650	147	Octal	5 <b>T</b>			
6202	6.3/0.6	1250	50	7-Pin Min.	5BS			
PULSED R	PULSED RECTIFIER (High-Voltage, Low-Current Type)							
5642	1.25/0.2	10000	0.25	Submin.	5642			

Premium tube types are shown on gray background. These types are subjected to more rigorous tests and controls than other types.

	Eq∕ l <sub>f</sub>	Max R	Rating		Terminal Diagram
RCA Type	V/A	-e <sub>bm</sub> V	l <sub>o</sub> (av) mA	Base	
	OR DETECTO RENT-RECTO		LICATIO	NS	
5726	6.3/0.3	360	10	7-Pin Min.	6BT
5896	6.3/0.3	460	10	Submin.	RD8
6663/ 6AL5	6.3/0.3	275	10	7-Pin Min.	6BT
7055	13.5/0.155	350	10	7-Pin Min.	6BT
9005	3.6/0.165	165	1	5-Pin Acorn	5BG
9006	6.3/0.15	750	5	7-Pin Min.	6 <b>B</b> H

#### - Types for Stablization of DC Voltage Supplies b -

RCA Type	E <sub>b</sub>	I <sub>k</sub>	$\triangle$ E <sub>b</sub>	Base	Terminal Diagram					
VOLTAGE	VOLTAGE-REGULATOR (VR) TYPES									
OA2	OA2 150 5 to 30		6	7-Pin Min.	5 <b>BO</b>					
OA2WA	For d	ata, refer to N	Military Sp	ecification	5B0					
OA3	75	5 to 40	6.5	Octal	4AJ					
OA3A <sup>c</sup>	75	5 to 40	6.5	Octal	4AJ					
OB2	105	5 to 30	4	7-Pin Min.	5B0					
OB2WA	For da	For data, refer to Military Specification								
OC2	75	5 to 30	4.5	7-Pin Min.	5 <b>B</b> O					
OC3	105	5 to 40	4	Octal	4AJ					
OC3Ac	105	5 to 40	4	Octal	4AJ					
OD3	150	5 to 40	5.5	Octal	4AJ					
OD3A <sup>c</sup>	150	5 to 40	5.5	Octal	4AJ					
991	59	0.4 to 2	8	Candelabra 2-Contact	991					
6073 <sup>d</sup>	150	5 to 30	6	7-Pin Min.	5 <b>BO</b>					
6073/ OA2 <sup>d</sup>	150	5 to 30	6	7-Pin Min.	5B0					
6074 <sup>d</sup>	105	5 to 30	4	7-Pin Min.	5BO					

VOLTAGE-REFERENCE TYPES (For Exceptional Voltage Stability) 5651Af 85.5 1.5 to 3.5 7-Pin Min. 5B0 5651WA For data, refer to Military Specification 5BO 5783 🐴 1.5 to 3.5 Submin. 5783 Maxg r<sub>p</sub>g RCA Et/It Rating Terminal Base Type Ь Di agram Ω V/A mΑ SERIES-VOLTAGE-REGULATOR TYPES (For High-Current Applications) 6AS7G 6.3/2.5125 280 Octal 8BD 6080 6.3/2.5125 280 Octal 8BD AW0800

280

280

200

125

125

400

6.3/2.5

26.5/0.6

6.3/5

 $\mathbf{E}_{\mathbf{b}}$ 

105

150

RCA

Type

6074/ OB2<sup>d</sup>

6626/

OA2WA<sup>e</sup>

١k

mΑ

5 to 30

5 to 30

△E<sub>b</sub>

max

٧

Base

7-Pin Min.

7-Pin Min.

Octal

Octal

Octal

Terminal

Diagram

5B0

5B0

8BD

8BD

8BD

6082

6336 A

b For voltage-regulation applications requiring a relatively constant do output voltage across a load independent of load and line-voltage variations.

Types OA3A, OC3A, and OD3A are similar electrically to their respective prototypes, OA3, OC3, and OD3, but are 1-1/16" shorter and utilize a straight tubular bulb, and are, therefore, more compact.

Types 6073 and 6073 / OA2, 6074 and 6074 / OB2 are similar to their prototypes OA2 and OB2, respectively, but are intended for applica-

tions critical as to mechanical shock (up to 500g) and vibration (up to 2.5 g).

Where voltage repeatability is critical.

During the first 300 hours of operation at  $l_k=2.5$  mA, the variation of dc anode voltage drop from the initial value is less than 0.1%; between 300 and 1300 hours, less than 0.1% from the 300-hour value and less than 0.05% during any 100-hour period.

g Each section.

#### RCA Types for Mobile and Fixed-Station Communications [Cont'd]

#### **Fixed-Station**

- Other Types Suitable for Fixed-Station Applications -

Premium tube types are shown on gray background. These types are subjected to more rigorous tests and controls than other types.

RCA Type	E <sub>f</sub> /I <sub>f</sub>	Max Rating P <sub>b</sub> W	g <sub>m</sub> μmho	Base	Terminal Diagram
6AU6WB	For data,	refer to M	ilitary Spe	cification	7BK Diagram 2
6J6WA	For data,	refer to M	ilitary Spe	ecification	7BF
12AT7WA	For data,	refer to M	ilitary Spe	cification	9 <b>A</b>
12AT7WB	For data,	refer to M	ilitary Spe	cification	9 <b>A</b>
407 A	40/50 20/100	1.35	5500	9-Pin Min.	407A
408A	20/50	1.7	5000	7-Pin Min.	7BD Diagram 2
5636	6.3/150	1,1	3200	Submin.	8DC Diagram 1
5639	6.3/450	4	9000	Submin.	8DE
5654	6.3/175	1.85	5100	7-Pin Min.	7BD Diagram 2
5670	6 <b>.</b> 3/350	1.35	5500	9-Pin Min.	8C1
5686	6 <b>.</b> 3/350	8.25	3100	9-Pin Min.	9G
57 18	<b>6.</b> 3/150	3.3	6500	Submin.	8DK
57 19	6.3/150	0 <b>.</b> 55	2300	Submin.	8DK
5725	6.3/175	1.65	3200	7-Pin Min.	7CM Diagram 2
5749	6.3/300	3	4400	7-Pin Min.	7BK Diagram 2

RCA Type	E <sub>f</sub> /I <sub>f</sub> V/mA	Max Rating Pb W	$g_{ m m}$ $\mu$ mho	Base	Terminal Diagram
5750	6.3/300	1.1	-	7-Pin Min.	7CH
5751	12.6/175 6.3/350	0.8	1200	9-Pin Min.	9 <b>A</b>
5814A	12.6/175 6.3/350	3	2200	9-Pin Min.	9A
5842/ 417 A	6.3/300	4.5	25000	9-Pin Min.	9∨
5847/ 404A	6.3/300	3.3	12500	9-Pin Min.	9X
5902	6.3/450	4	4200	Submin.	8DE
6005	6.3/450	11	4100	7-Pin Min.	7BZ
6021	<b>6.</b> 3/300	1.1	5400	Submin.	8DG
6072	12.6/175 6.3/350	1.65	1750	9-Pin Min.	9 <b>A</b>
6111	6.3/300	1.1	5000	Submin.	8DG
6112	6.3/300	0.55	2500	Submin.	8DG
6186	6.3/300	2.5	5000	7-Pin Min.	7BD Diagram 2
6189	12.6/150 6.3/300	2.75/T	2200/T	9-Pin Min.	9A
6386	6.3/350	1.5	4000	9-Pin Min.	8C1
BEAM-DEI	FLECTION T	YPE HAV	ING 2 PL	ATES	
7360	6.3/350	1.5	5400	9-Pin Min.	9KS

#### **RCA Types for Other Industrial Applications**

- Trigger Types (Gas-Filled) -

064	- /.	Max R	atings		Terminal Diagram				
RCA Type	E <sub>f</sub> /I <sub>f</sub>	e <sub>bm</sub> V	l <sub>k</sub> (av) mA	Base					
THYRATRONS (For Relay-Control & Grid-Controlled-Rectifier Applications)									
Triodes									
6D4	6 <b>.</b> 3/0 <b>.</b> 25	+450	25	7-Pin Min.	5AY				
884	6.3/0.6	±350	75	Octal	6Q2				
Tetrodes									
2D21	6.3/0.6	+650 - 1300	100	7-Pin Min.	7BN				
2050	6.3/0.6	+650 - 1300	100	Octal	6BS Diagram 2				
2050A	6.3/0.6	+650 - 1300	100	Octal	6BS Diagram 3				

Premium tube types are shown on gray background. These types are subjected to more rigorous tests and controls than other types.

RCA	E /I	Max R	atings		Terminal ·
Type	E <sub>f</sub> /I <sub>f</sub>	e <sub>bm</sub> V	I <sub>k</sub> (av) mA	Base	Di agram
5663	6.3/0.15	±500	20	7-Pin Min.	6CE
5696	6.3/0.15	±500	25	7-Pin Min.	7BN
5727	6.3/0.6	+650 - 1300	100	7-Pin Min.	7BN
6012	6.3/2.6	+650 - 1300	500	Octal	6CO
	THODE TYP y-Control App				
O A4G	-	±225	25	Octal	4V
1C21	-	-	25	Octal	4V
5823	-	±200	25	7-Pin Min.	4CK

#### RCA Types for Other Industrial Applications [Cont'd]

#### - Types for On-Off Control Applications - (Involving Long Periods of Operation under Cutoff Conditions)

<b>D</b>	- /	Max Ra	tings			<b>-</b>
RCA Type	E <sub>f</sub> /I <sub>f</sub>	l <sub>k</sub> (av) mA	Р <sub>Ь</sub> W	${}^{oldsymbol{g_m}}$ $\mu_{oldsymbol{mho}}$	Base	Terminal Diagram
6 AS6	6.3/175	18	1.7	3200	7-Pin Min.	7CM Diagram 2
5844	6.3/300	9	0.5	3400	7-Pin Min.	7BF
59 15	6.3/300	20	1	2000	7-Pin Min.	7CH
5963	12.6/150 6.3/300	20	2,5	3200	9-Pin Min.	9 <b>A</b>
5964	6.3/450	15	1.5	6000	7-Pin Min.	7BF
5965	12.6/225 6.3/450	16.5	2.4	6500	9-Pin Min.	9 <b>A</b>
6 197	6.3/650	50	7.5	11000	9-Pin Min.	9 <b>BV</b>

DC.		Max Ra	tings	***************************************		
RCA Type	E <sub>f</sub> /I <sub>f</sub>	l <sub>k</sub> (av) mA	Р <sub>Ь</sub> ₩	$g_{ m m}$ $\mu$ mho	Base	Terminal Diagram
6211	12.6/150 6.3/300	16	1	3600	9-Pin Min.	9 <b>A</b>
6350	12.6/300 6.3/600	45	4	4600	9-Pin Min.	9CZ
6814	6.3/150	22	2.2	6000	Submin.	8DK
6887	6.3/200	-е І <sub>о(;</sub>	bm = av) =	360 V 10 mA	7-Pin Min.	6BT
6922/ E88CC	6.3/300	20	1.5	12500	9-Pin Min.	9AJ
7044	12.6/450 6.3/900	50	4.5	12000	9-Pin Min.	9H

#### -Other Special Applications -

RCA Type	E <sub>f</sub> /I <sub>f</sub>	Max Rating Pb	g <sub>m</sub>	Base	Terminal Diagram		
	V/mA	W	$\mu$ mho				
INDICATO	R-TYPE ELE	CTRON-R	AY TUBE	<b>E</b>			
1629	12.6/150	-	•	Octal	7AL		
6977	1.0/30	-	-	Submin.	6977		
LOW-MICR	OPHONIC-A	PLIFIER	TYPES	B			
16 12	6.3/300	1.5	1100	Octal	7T		
1620	6.3/300	0.75	1225	Octal	7R		
MECHANO	-ELECTRON	IC TRANS	DUCER				
5734	6.3/150	0.4	275	4-Lead	5734		
PENTAGR	ID CONVERT	ΓER		Rounds-recommended			
12SY7	12.6/150	1	-	Octal	8R		
	INTERMEDIATE-LOSS, MICANOL-BASE TYPES (Loss Factor < 0.1 per ASTM D-150-59T)						
5R4GYB	5/2000	For adde see p		Octal	5Т		

RCA Type	E <sub>f</sub> /I <sub>f</sub>	Max Rating Pb W	g <sub>m</sub> µmho	Base	Terminal Diagram
6 AG7Y	6.3/650	9	11000	Octal	8Y
6SJ7Y	6.3/300	2.5	1650	Octal	8N ≰
VOLTAGE	AMPLIFIERS				
6AC7W	6.3/450	3.3	9000	Octal	8N
6 AH6 WA	6.3/450	3.3	9000	7-Pin Min.	7BK Diagram 1
6 AS6	6.3/175	1.7	3200	7-Pin Min.	7CM Di agram 2
125W7 🖈	12.6/150	2.5	1900	Octal	8Q
12SX7GT	12.6/300	2.5	2600	Octal	8BD
5687	12.6/450 6.3/900	4.2	5400	9-Pin Min.	9H
6688A	6.3/300	3	16500	9-Pin Min.	9EQ
8628 Nuvistor	6.3/150	0.3	3100	5-Pin Nuvi stor	12AQ

#### Key to Abbreviations, Quantity Symbols, & Unit Symbols

Abbrevia AC af DC if	Alternating Current Audio Frequency Direct Current Intermediate Frequency	max P rf T	Term  Maximum Pentode Unit Radio Frequency Triode Unit	_	Abbreviation Term  uhf Ultra-High Frequency (300 to 3000 MHz)  vhf Very High Frequency (30 to 300 MHz)
Quantity Symbol	Physical Quantity			Quantity Symbol	Physical Quantity
E <sub>b</sub>	DC Plate Voltage (Vacuum tubes) DC Anode Voltage (Gas-filled tubes) DC Anode Voltage Drop (Voltage-regulator tubes and trigger tubes)			I <sub>b</sub>	DC Plate Current  DC or RMS AC Heater Current (Bogey value) DC or RMS AC Filament Current (Bogey value)
△E <sub>b</sub> e <sub>bm</sub>	Regulation (Over specified range of I <sub>k</sub> )  Peak Plate Voltage (Vacuum tubes)  Peak Anode Voltage (Gas-filled tubes)			I <sub>k</sub> I <sub>k(av)</sub>	DC Cathode Current Average Cathode Current
Ef	DC or RMS AC Heater Voltage (Bogey value) DC or RMS AC Filament Voltage (Bogey value)	)		i <sub>o(av)</sub> P <sub>b</sub>	Average Output (Rectified) Current Plate Dissipation
g <sub>m</sub>	Transconductance (Mutual conductance)	•		- t <sup>p</sup>	Plate Resistance
Unit Symbol	<u> </u>	Unit Symb		Unit Symbol	Unit Unit Unit
A g kHz	Ampere(s) Gravitational-Acceleration Unit(s) (32 ft/s <sup>2</sup> ) Kilohertz	m <b>A</b> <b>MH</b> 2 <b>M</b> Ω	Milliampere(s) Megahertz Megohm(s)	$oldsymbol{V} \ oldsymbol{\psi} \ \mu mho$	$\begin{array}{c cccc} \text{Volt}(s) & & \Omega & \text{Ohm}(s) \\ \text{Watt}(s) & & \text{OC} & \text{Degree}(s) \text{ Celsius} \\ \text{Micromho}(s) & & \% & \text{Per Cent} \end{array}$

#### **Key to Terminal Diagrams**

B = Beam Power Unit

D = Diode Unit

Terminal Diagrams, unless otherwise specified, are BOTTOM VIEWS which show base pins or leads viewed from base end of tube. Rigid envelope terminals are shown in their approximate position on tube envelope.

HP = Heptode Unit

HX = Hexode Unit

# GRAPHIC SYMBOLS MECHANICAL AND/OR VISUAL INDEX SMALL PIN GAS-FILLED TUBE PRIG ENVELOPE REVELOPE REVELOPE REVELOPE

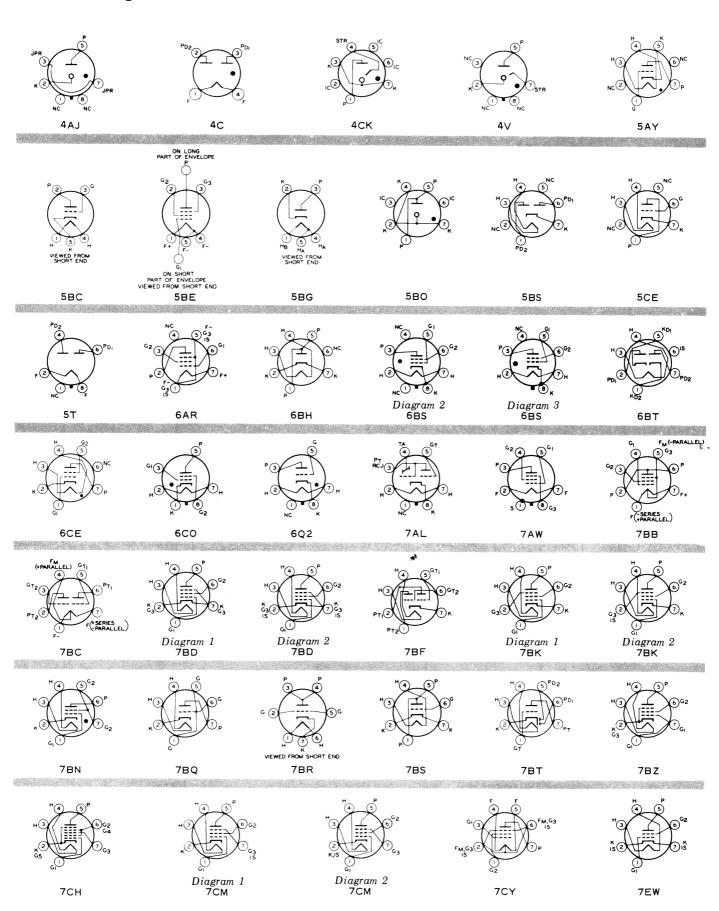
TR = Tetrode Unit 1,2,3,etc. = No.1, No.2, No.3, etc.

#### LETTER COMBINATIONS NC = No Internal Connection HA = Heater-End A DJA = Deflecting Electrode A P = Plate (Vacuum tubes) HB = Heater End B DJB = Deflecting Electrode B Anode (Gas-filled tubes) F = Filament End (Unpolarized) HM = Heater Tap F+ = Filament End (Positive only) PA = Plate A IC = Do Not Use F = Filament End (Negative only) PB = Plate B IS = Internal Shield (Electrostatic) JPR = Jumper End RCJ = Ray-Control Electrode FM = Filament Tap G = Grid S = Metal Shell K = Cathode $G_1,G_2$ ,etc = Grid No.1, Grid No.2, etc. LC = May be used only under Limited Condi-STR = Starter tions specified in accompanying Note TA = Fluorescent Target H = Heater End (Unpolarized) SUBSCRIPTS FOR MULTIUNIT TYPES

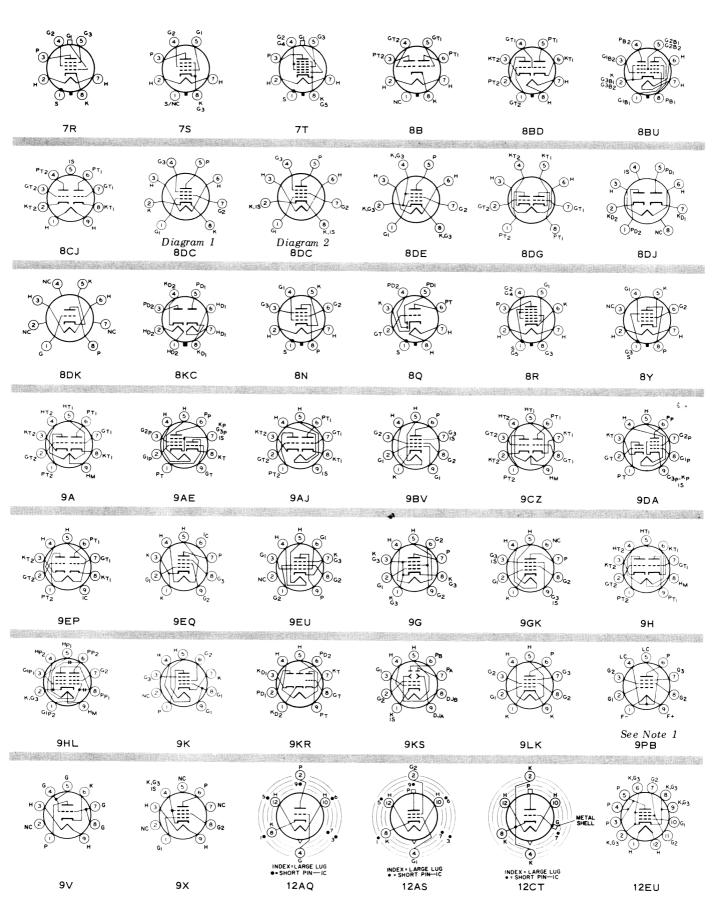
P = Pentode Unit

T = Triode Unit

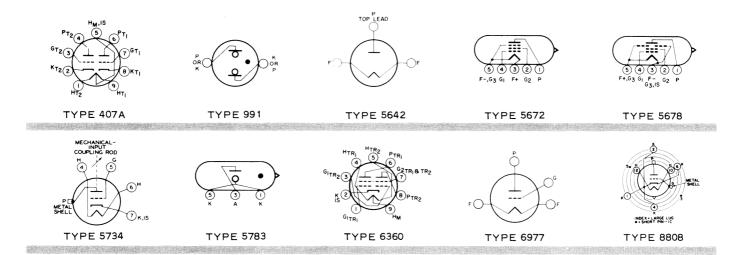
#### **Terminal Diagrams**



#### Terminal Diagrams (Cont'd)



#### Terminal Diagrams [Cont'd]



#### **Socket & Connector Information**

The sockets and connectors listed below by manufacturer's or distributor's part number are designed to mate, respectively, with the bases and caps utilized on the RCA Industrial Receiving-Type Tubes described in this catalog. Sockets and connectors having mechanical and electrical characteristics comparable to those listed below may be available from other component manufacturers.

BASE	SOCKET					
	Descr	iption	Manufacturer or Distributor and Part No.			
	Application	Mounting	Cinch Mfg. Co. <sup>a</sup>	Cinch-Jones Sales Division <sup>b</sup> Distributors	Industrial Electronic Hardware Corp. <sup>c</sup>	
	General-	Crimp Mounting	133 65 10 001	5NS	MSN 0905-1 MSN 0905-2 MSN 0905-3	
5-Pin Nuvistor	Purpose Type	Flange Mounting	133 65 10 003	5NS-1	_	
5-Pin Nuvistor	Туре	Printed Board ("Stand-off")	133 65 10 009 5NS-2		_	
	UHF Heat- Dissipating Type	Crimp Mounting	133 65 10 0 1	5NS-3	_	
6-Pin Nuvistor Type 8808	UHF Heat- Dissipating Type	Crimp Mounting	133 67 90 040	5NS-4	-	
7-Pin Miniature	Miniature	7-Contact				
9-Pin Miniature	Miniature	9-Contact	Generally available from your local RCA Distributor			
Octal	Octal 8-	Contact				
5-Pin Acorn	James Millen Mfg.	Co., Inc. <sup>d</sup> 3310	5 (Polystyrene) o	r 3305 (Steatite)		
Small 4-Pin	E.F. Johnson Company <sup>e</sup> 122-224-1 (Standard), 122-224-100 (Industrial), or 122-224-200 (Military)					
Small 5-Pin	E.F. Johnson Comp	pany <sup>e</sup> 122-2	225-1 (Standard) o	r 122-225-200 (Mili	itary)	
Candelabra 2-Contact	James Millen Mfg.	Co., Inc. <sup>d</sup> 3399	1 (Phenolic) or 33	3992 (Low-loss mic	a-filled phenolic)	

Сар	Connector				
Miniature	Cinch Mfg. Co. a 6005 or 422 03 22 017, 6014 or 422 03 22 024, or equivalent "1/4-inch" connect				
Nuvistor	For Distributed- Constant Circuit	International Electronic Research Corp. f Therma-Link Retainer Part No.TXBE-032-031G			
Type 8808	For Lumped- Constant Circuit	Wakefield Engineering, Inc. Semiconductor Cooler Type NF207			

 $<sup>^</sup>a$  1026 South Homan Avenue, Chicago, Illinois 60624.

 $<sup>^{\</sup>it b}$  Cinch-Jones Sales Division of Cinch Mfg. Co.

<sup>&</sup>lt;sup>c</sup> 109 Prince Street, New York, N.Y. 10012.

 $<sup>^{\</sup>it d}$  150 Exchange Street, Malden, Massachusetts 02100.

 $<sup>^{\</sup>it e}$  1921 Tenth Avenue, Waseca, Minnesota 56093.  $^{\it f}$  135 West Magnolia Blvd., Burbank, Calif. 91502.

g 139 Foundry St., Wakefield, Mass. 01880.

## RCA Industrial Receiving Types vs Prototypes

#### Prototypes vs RCA Industrial Receiving Types

RCA INDUSTRIAL RECEIVING TYPE	PROTO	RCA INDUSTRIAL	PROTO
	TYPE	RECEIVING TYPE	TYPE
OA2WA OA3A OB2WA OC3A OD3A 2D21W 3B4WA 5R4GYB 6AC7W 6AG5WA	OA2	5915	6BE6
	OA3	5963	12AU7
	OB2	5964	6J6
	OC3	6005	6AQ5
	OD3	6005/6AQ5W	6AQ5
	2D21	6005/6AQ5W/6095	6AQ5
	3B4	6072	12AY7
	5R4GY	6073	OA2
	6AC7	6073/OA2	OA2
	6AG5	6074	OB2
6AG7Y	6AG7	6074/OB2	OB2
6AH6WA	6AH6	6080	6AS7G
6AU6WB	6AU6	6080WA	6AS7G
6BA6W	6BA6	6082	6AS7G
6DJ8/ECC88	6DJ8	6101	6J6
6J4WA	6J4	6101/6J6WA	6J6
6J6WA	6J6	6136	6AU6
6SJ7Y	6SJ7	6186	6AG5
6X4W	6X4	6186/6AG5WA	6AG5
12AT7WA	12AT7	6189	12AU7
12AT7WB	12AT7	6189/12AU7WA	12AU7
407A	2C51	6197	6CL6
408A	6AK5	6201	12AT7
1612	5L7	6202	6X4
1613	6F6	6206	5899
1620	6J7	6211	6J6
1621	6F6	6386	2C51
1622	6L6	6417	5763
1629	6E5	6626/0A2WA	OA2
1635	6N7GT	6660/6BA6	6BA6
2050 A 2076/5R4GYB 5651 A 5651 WA 5654 5654/6 AK5W 5654/6 AK5W/6096 5670 5670WA	2050 5R4GY 5651 5651 6AK5 6AK5 6AK5 2C51	6661/6BH6 6662/6BJ6 6663/6AL5 6664/6AB4 6669/6AQ5A 6676/6CB6A 6677/6CL6 6678/6U8A 6679/12AT7	6BH6 6BJ6 6AL5 6AB4 6AQ5 6CB6A 6CL6 6UBA 12AT7
5691	6SL7GT	6680 /12AU7 A	12AU7
5692	6SN7GT	6681 / 12AX7	12AX7
5693	6SJ7	6887	6AL5
5725	6AS6	6922 / E88CC	6DT8
5726	6AL5	7054	12BY7A
5626/6AL5W	6AL5	7055	6AL5
5726/6AL5W/6097	6AL5	7056	6CB6A
5727	2D21	7057	6BZ7
5727/2D21W	2D21	7058	12AX7
5749	6BA6	7059	6UBA
5749/6BA6W 5750 5751 5751WA 5814A 5814WA 5824 5842/417A 5847/404A	6BA6 6BE6 12AX7 12AX7 12AU7 12AU7 25B6G 417A 404A	7060 7061 7167 7308 7717/6CY5 7724/14GT8 7898 8077/7054 8532 8532/6J4WA	6AU8 12AB5 6CY5 6922 6CY5 14GT8 12AT7 12BY7A 6J4

PROTO Type	RCA INDUSTRIAL RECEIVING TYPE	PROTO Type	RCA INDUSTRIAL RECEIVING TYPE
OA2	OA2WA,6073 6073/OA2	6CY5	7167 7717/6CY5
	6626/OA2WA	6DJ8	6DJ8/ECC88
OA3	OA3A	6DT8	6922/E88CC
ов2	OB2WA,6074 6074/OB2	6E5	1629
осз	OC3A	6F6	1613,1621
OD3	OD3A	6J4	6J4WA,8532, 8532/6J4WA
2C51	407A,5670 5670WA,6386	6J6 ,	6J6WA,5964 6101/6J6WA 6211
2D21	2D21W,5727 5727/2D21W	6J7	1620
3B4	3B4WA	6L6	1622
5R4GY	5R4GYB	6L7	1612
	2076/5R4GYB	6N7GT	1635
6AB4	6664/6AB4	6SJ7	5693
6AC7	6AC7W	6SL7GT	5691
6AG5	6AG5WA 6186/6AG5WA	6SN7GT	5692
6AG7	6AG7Y	6U8 A	6678/6U8A 7059
6AH6	6AH6WA	6X4	6×4W,6202
6AK5	408A,5654	12AB5	7061
6AL5	5654/6AK5W 5654/6AK5W/6096 5726 5726/6AL5W	12AT7	12AT7WA 12AT7WB 6201 6679/12AT7
	5726/6AL5W/6097 6663/6AL5 6887,7055	12AU7	7898 5814A,5814WA 5963
6AQ5 🚁	6005/6AQ5W 6005/6AQ5W/6095	12AX7	6189/12AU7WA 6680/12AU7WA 5751,5751WA
	6669/6AQ5A		6681/12AX7
6 A S 7 C	5725	12477	7058 6072
6AS7G	6080,6080WA 6082	12AY7 12BY7A	
6AU6	6AU6WB,6136	,	8077/7054
6AU8	7060	14GT8	7724/ 14GT8
6B A6	6BA6W,5749 5749/6BA6W 6660/6BA6	25B6G	5824
6BE6	5750,5915	404 A	5847/404A
6BH6	6661/6BH6	417A	5842/417A
6BJ6	6662/6BJ6	2050	2050A
6BZ7	7057	5651	5651A,5651WA
6CB6A	6676/6CB6A	5763	6417
	7056	5899	6206
6CL6	6197 6677/6C∟6	6922	6922/E88CC 7308

<sup>•</sup> These types may differ from their prototypes in electrical and/or mechanical characteristics, physical structure, or types of tests to which they are subjected. The data should, therefore, be checked before replacing a type in the prototype column with its corresponding type.

#### Interchangeability List

DOMESTIC OR FOREIGN TYPES vs. RCA REPLACEMENT TYPES In numerical-alphabetical-numerical sequence of TYPES TO BE REPLACED

TYPE TO BE		PE FOR USE _ACEMENT
REPLACED	Direct <sup>a</sup>	Similarb
OA2 OA2WA	OA2 OA2WA	OA2WA OD3 OD3A 6073 6073/OA2 6626/OA2WA OA2 OD3 OD3A 6073 6073/OA2
OA3 OA3/VR75 OA3A	OA3,OA3A OA3,OA3A OA3A	6626/OA2WA   OC2   OC2   OA3
0В2	OB2	OC2 OB2WA OC3 OC3A 6074
OB2WA	OB2WA	6074/OB2   OB2   OC3   OC3A   6074
OC2	OC2	6074/OB2 OA3
OC3	OC3,OC3A	OA3A OB2 OB2WA 6074
OC3/VR105	OC3,OC3A	6074/OB2 OB2 OB2WA 6074
OC3A	OC3A	6074/OB2   OB2   OB2WA   OC3   6074
OC3W		6074/OB2   OB2   OB2WA   OC3   OC3A   6074
OD3	OD3,OD3A	6074/OB2 OA2 OA2WA 6073
OD3/VR150	OD3,OD3A	6073/OA2 OA2 OA2WA 6073
OD3A	OD3A	6073/OA2 OA2 OA2WA OD3 6073
OD3W		6073/OA2 OA2 OA2WA OD3 OD3A 6073 6073/OA2
1F2 2C51 2D21 2D21W	1L4 5670 2D21 2D21W	5727 2D21 5727
5R4GY 5R4GYA 6AC7Y 6AG5WA	5R4GYB 5R4GYB 6AC7W	6186

In n	umerical-alph	abetical-numeri
TYPE TO BE	RCA TYP AS REPL	E FOR USE ACEMENT
REPLACED	Direct <sup>a</sup>	Similar <sup>b</sup>
6AK5W 6AL5W 6AQ5W 6AS6 6AS7G	5726 6005 6AS6 6AS7G	5654 6663/6AL5 6669/6AQ5A 5725 6080 6080WA 6AS7G,6080
6AU6WA 6BA6W 6CY5 6J4 6J4WA 6J4WB	6AU6WB 7717/6CY5 6J4 6J6WA	6080WA 5749 8532 6J4 6J4 8532 5964
6J6WA 6L4 6Q5G 6SJ7WGT 6SJ7Y 6SL7WGT 6SN7GTY 6X4 12AU7WA 14GT8 25B6G 26FZ6 108C1 150C1 150C2	6F4 884 6SJ7Y 6202 7724/14GT8 5824 OB2 OA2 OA2 OD3	6\$J7Y,5693 5693 5691 5692 6\$X4W 5814A,6189
274A 274B 301A 310B 313C 348A 359A 395A 403A 403B 404A 417A	OD3A 5R4GYB 5842/417A	5R4GYB 83 1620 1C21 1620 1C21 5823 5654 5654 5847/404A
421A 423A 546 1266		6AS7G,6080 6080WA 5651A 5651WA 5696 5823
1603 2050 2050A 5590/401B 5591/403B 5636A	2050 2050A	1620 2050A 2050 5654 5654 5636
5651 5651A 5651WA 5654/ 6AK5W/ 6096	5651A 5651A 5651WA	5651WA 5651WA 5651A 5654
5659 5663 5670WA 5693 5718A 5719A 5725 5726/6AL5W	5663 5693 5718 5719	12A6 5696 5670 6SJ7Y
5726/ 6AL5W/ 6097 5727	5727	5726 2D21

TO BE REPLACED Direct <sup>a</sup> 5727/2D21W 5749/6BA6W 5751WA 5812 5814 5814WA 5840A 5842 5719 5899 5900 5899 5901 5915A 5920  5963 5964 6101 5965A 6005/ 6AQ5W 6005/ 6AQ5W 6005/ 6AQ5W 60012 6012 6012 6028 408A 6057 6058 6062 6067 6073 6073/OA2  6074/OB2 6074/OB2  6080 6080	Similarb  2D21 5749 5751 5763 5814A 5840 5964
5749/6BA6W 5751WA 5812 5814 5814WA 5840A 5842 5842 5842 5897 5718 5898 5719 5899 5990 5899 5900 5899 5901 5840 5915A 5920 5964 6101 5965A 50005/ 6AQ5W 6005/ 6AQ5W 6005/ 6AQ5W/ 6095 6012 6012 6028 6067 6073 6073 6073/OA2 6073/OA2 6074/OB2 6074/OB2	5749 5751 5763 5814A 5840
\$964 6101 5965A 50055/ 6AQ5W 6005/ 6012 6012 6028 6028/408A 6057 6058 6062 6067 6073 6073 6074/0B2 6074/0B2	5915 5964
6028 6028/408A 6028/408A 6057 6058 6062 6067 6073 6073 6073/OA2 6073/OA2 6074 6074 6074/OB2 6074/OB2	6J6WA 5814A 6J6WA 6J6WA 5965 6005
6073 6073 6073/OA2 6073/OA2 6074 6074 6074/OB2 6074/OB2	5727 5751 5726 5763
6074/OB2 6074/OB2	5814A OA2 OA2WA OD3 OD3A 6073/OA2 OA2 OA2WA OD3 OD3A
	6073 OB2 OB2WA OC3 OC3A 6074/OB2
6080   6080	OB2 OB2WA OC3 OC3A 6074
	6080WA 6AS7G
6080WA 6080WA 6082A 6085 6094 6095 6096 6097 6099	6080 6AS7G 6082 5692 6005 6005 5654 5726 5964
6101 6101/6J6WA 6136 6140/423A 6180 6186/ 6AG5WA 6189/	5964 5964 6AU6WB 5651WA 5692

#### Interchangeability List [Cont'd]

DOMESTIC OR FOREIGN TYPES vs. RCA REPLACEMENT TYPES numerical-alphabetical-numerical sequence of TYPES TO BE REPLACED

TYPE TO BE	RCA TYF AS REPI	PE FOR USE _ACEMENT		
REPLACED	Direct <sup>a</sup>	Similarb		
6201 6211A 6336 6337 6360 6414 6417 6486 6486A 6520	6336A 6360A 6417	12AT7WA 6211 6336A 5965 7551 5725 5725 6AS7G		
6528 6626	6626/OA2WA	OA2 OD3		
6626/ OA2WA	6626/ OA2WA	OD3A OA2WA OB2 OC3 OC3A		
6660 6661 6662 6663 6664 6669 6676 6677 6678 6678	6660/6BA6 6661/6BH6 6662/6BJ6 6663/6AL5 6664/6AB4 6669/6AQ5A 6676/6CB6A 6677/6CL6 6678/6U8A 6679/12AU7A 6680/12AU7A			
6687 6829 7036 7054 7062 7079 7105	8077/7054	5915 5965 5915 5965 6111 6080 6080WA 6AS7G		
7244 7244A 7245 7370 7701 7717 7724 7729 7731 7733	7717/6CY5 7724/14GT8	6J6WA 6J6WA 6J4,8532 5687 7551 6681/12AX7A 6678/6U8A 5814A		
8077 8077/7054	8077/7054 8077/7054	5963 7054 7054		
A1834 AA91E AG5210 AG5211 ASG5121 CC81E CCa CV216 CV449 CV475 CV477 CV618	6AS7G 5726 OB2 OA2 2D21 12AT7WA 6922/E88CC OD3,OD3A 5651A 5899 5899	83		
CV686 CV752 CV807 CV1758 CV1832 CV1833	OC3,OC3A OA4G 3A4 1L4 OA2 OB2			
CV1992 CV2129 CV2240	OA4G 5763	3B4WA		

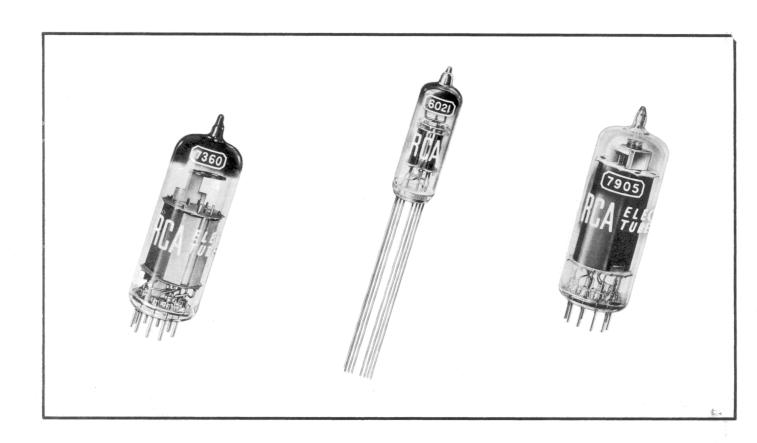
In r	numerical-alph	nabetical-numer
TYPE TO BE		PE FOR USE LACEMENT
REPLACED	Direct <sup>a</sup>	Similarb
CV2241 CV2390 CV2466 CV2492 CV2522 CV2573 CV2642 CV2662 CV2742 CV2795 CV2876 CV2984 CV3798 CV3798 CV3798 CV3798 CV3928 CV3928 CV3929 CV3930 CV4008 CV4009 CV4011 CV4016 CV4017 CV4016 CV4017 CV4025 CV4029 CV	5642 3A4 6939 6922/E88CC 6AS6 5651A 5842/417A 5639 11L4 5727 6080 5696 5842/417A OA3,OA3A 5636 5840 5718 6021 5719 5725 5814A 5751 5727 OA2WA 12AT7WA 5726 OB2WA 5902 5763 5651WA OA2WA OA2WA OA2WA OA2WA OA2WA OB2WA 5902 5763 5651A 3A5 1L4 3A4 3B4WA 5642 6922/E88CC 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5727 5654 5847/404A 3A4 2D21 5726 5726 5727 5654 5849 5840 5636 5899 5840 5636 5899 5840 5636 5899 5840 5636 5899 5840 5636 5899 5840 5636 5899 5840 5636 5727 563 12AT7WA 5725 5727	

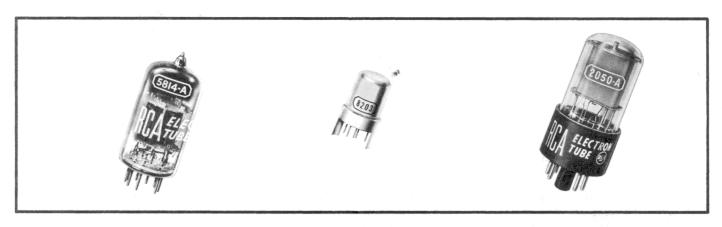
ţ			
TYPE TO BE	RCA TYPE FOR USE AS REPLACEMENT		
REPLACED	Direct <sup>a</sup>	Similar <sup>b</sup>	
M8212 M8223 M8224 M8224 M8224 M8245 QA2408 QE03/10 QCE02/5 QV02-6 QS150/40 QS1205 QS1206 QS1207 QS1208 QS1210 QS1211 QS2404 QV03-12 RL21 RL1267 S856 S860 VT138 VT202 VT203 WT210-0001 WT210-0001 WT210-0001 WT210-0011 WT210-0011 WT210-0011 WT210-0019 WT294 WT301 WTT-132 Z300T Z900T	5726 OA2WA OB2WA 6005 5692 5763 6939 0D3,OD3A OA3,OA3A OC3,OC3A OA2 OB2WA 5726 5763 2D21 OA4G OA2 OB2 1629 OD3,OD3A 9002 9003 2D21 884 OC3,OC3A OC3A OA4G OA3,OD3A 83 OC3,OC3A OC3A OA4G OA4G OA4G S823	5727 \$	

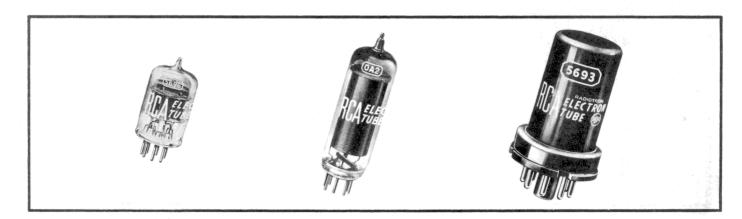
When more than one RCA replacement type is shown for a particular type, the nearest type for general replacement purposes is indicated in *italics*. NOTE: In many cases the application (because of its specific requirements) will determine the replacement type to be used.

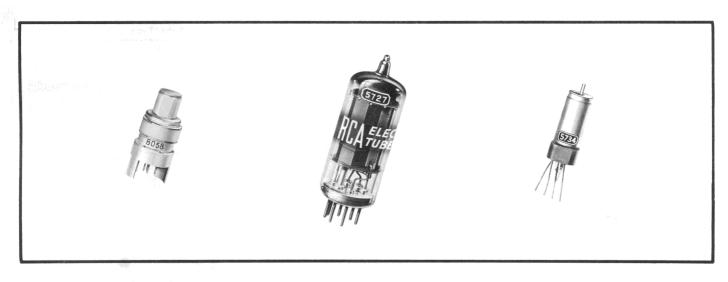
The RCA types in this column can be used, in most applications, as a replacement for the corresponding TYPE TO BE REPLACED without a component, circuit, and/or equipment modification.

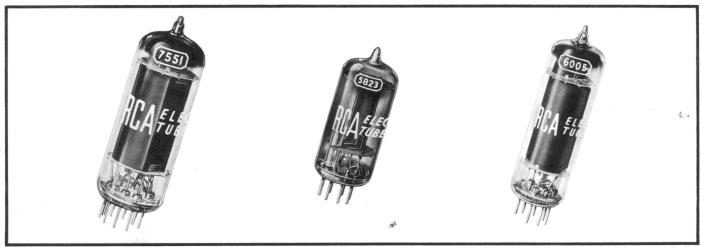
b The RCA types in this column may be used as a replacement for the corresponding TYPE TO BE REPLACED but, because of mechanical and/or electrical differences may, in some circuits and/or equipment, require a component, circuit, and/or equipment modification. Technical data for both types should be compared to determine the degree of interchangeability.

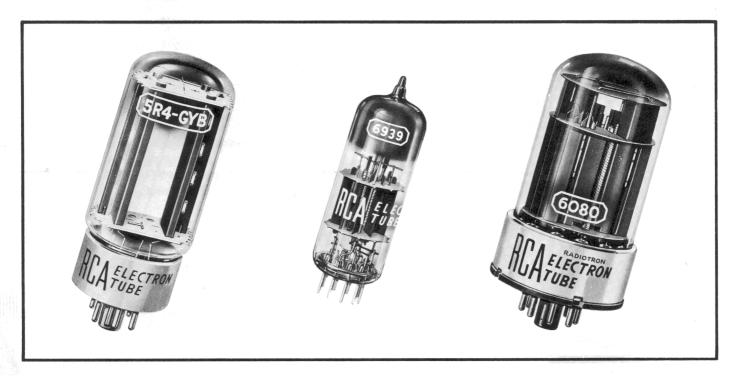












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Tube Type	Page	Tube Type	Page	Tube Type	Page	Tube Type	Page
OA2 OA2WA* OA3▲ OA3A OA4G	10 10 10 10 11	26A6 <sup>A</sup> 26A7GT <sup>A</sup> 26C6 <sup>A</sup> 26D6 <sup>A</sup> 83 <sup>A</sup>	8 8 8 8	5750 5750/6BE6W see 5750 5751 <b>A</b> * 5751WA	11	6211▲ 6336A 6350 6360A 6386	12 10 12 8,9 11
OB2 OB2WA* OC2 OC3≜ OC3A	10 10 10 10 10	404 A see 5847/404 A 407 A 408 A 417 A	11 11	see 5751 5763▲ 5783 5814A▲* 5814WA■	9 10 11	6417 6550 6550/V1 Matched Pair 6626/OA2WA 6660/6BA6	9 9 9 10 8
OD3 <sup>▲</sup> OD3A 1C21 1L4 <sup>▲</sup> 2D21	10 10 11 8 11	see 5842/417A 884▲ 955▲ 959 991	11 9 9 10	see 5814A 5823 5824 5840 5842/417A	11 9 9 11	6661/6BH6 6662/6BJ6 6663/6AL5 6664/6AB4 6669/6AQ5A	8 8 8,10 8 8
2D21W <sup>■</sup> see 5727 3A4 <sup>▲</sup> 3B4WA	8,9 8 8	1612 1613 4 1614 1619 1620	12 9 9 8,9 12	5844 5847/404 A 5881 5896 5899	12 11 9 9,10	6676/6CB6A 6677/6CL6 6678/6U8A 6679/12AT7 6680/12AU7A	8 8 8 8
5R4GYB 6AC7W 6AG5WA see 6186 6AG7Y▲	10,12 12	1621 1622 1629 1635 2050	9 9 12 9 11	5902 5915▲ 5963▲ 5964▲ 5965	11 12 12 12 12	6681/12AX7A 6688A 6814 <sup>®</sup> 6887 6922/E88CC	8 12 12 12 12
6AH6WA 6AK5W see 5654 6AK6▲ 6AL5W	12 9	2050A 2076/5R4GYB 5636 5639 5642	11 10 9,11 11 8,10	6005* 6005/6AQ5W see 6005 6005/6AQ5W/6095 see 6005	11	6939 6977 7044 7054 7055	9 12 12 8 8,10
see 5726 6AN5 6AQ5W see 6005 6AS6	9	5651A 5651WA* 5654 <sup>≜</sup> * 5654/6AK5W <sup>■</sup> see 5654	10 10 11	6012 <sup>♣</sup> 6021 6072 6073 <sup>□</sup> 6073/0A2 <sup>□</sup>	11 11 11 10 10	7056 7057 7058 7059 7060	8 8 8 8
6AS6W see 5725 6AS7G▲ 6AU6WB* 6BA6W	10 11	5654/6AK5W/6096 see 5654 5663 5670 <sup>*</sup> 5670WA	11 11	6074 O B 2 O C C C C C C C C C C C C C C C C C C	10 10 10 10 8,10	7061 7167 7258 7308 7360	8 8 9 8,11
see 5749 6BE6W see 5750 6CY5 see 7717/6CY5		see 5670 5672 5678 5686 5687	8 8 11 12	6095 see 6005 6096 see 5654 6097		7551♣ 7558♣ 7586♣ 7587♣ 7717/6CY5	8 9 9 9 8
6D4 6DJ8/ECC88 6F4 <sup>▲</sup> 6J4 6J4WA <sup>■</sup>	11 9 9 9	5691 <sup>▲</sup> 5692 <sup>▲</sup> 5693 <sup>▲</sup> 5696 <sup>▲</sup> 5718	9 9 11 9,11	see 5726 6101 see 6J6WA 6101/6J6WA see 6J6WA		7724/14GT8 7895▲ 7898 7905 8056▲	8 9 8 8 9
see 8532 6J6WA* 6SJ7Y▲ 6X4W 12A6	11 12 9 9	5719 5725 <sup>4</sup> * 5725/6AS6W see 5725 5726 <sup>4</sup> *	11 11	6111 6112 6136 see 6AU6WB 6186*	11 11	8058▲ 8077/7054 8203 8393 8532*	9 8 9 9 9
12AT7WA* 12AT7WB* 12AU7WA see 6189 12AX7A	11 11	5726/6AL5W see 5726 5726/6AL5W/6097 see 5726 5727*	11	6186/6AG5WA see 6186 6189 <sup>A</sup> * 6189/12AU7WA see 6189	11	8532/6J4WA see 8532 8627 8628 8808	9 12 9
see 6681/12AX7A 12SW7 12SX7GT▲ 12SY7▲ 14GT8 see 7724/14GT8	12 12 12	5727/2D21W see 5727 5734 5749 ** 5749/6BA6W see 5749	12 11	6197▲ 6201 see 12AT7WA,12AT7WE 6202 6206■	12 3 10 9	9001 <sup>▲</sup> 9002 <sup>▲</sup> 9003 9005 <sup>▲</sup> 9006 <sup>▲</sup>	9 9 9 9,10 9,10

<sup>▲</sup> Can also be supplied to Military Specifications. A copy of the applicable Military Specification may be obtained from: Specification Division

Specification Division Naval Supply Depot 5801 Tabor Ave. Philadelphia, Pa. 19120

<sup>\*</sup> Premium type.

<sup>☐</sup> For critical applications, see OA2WA.

<sup>■</sup> Sales limited to extent of inventory.

In For critical applications, see OB2WA.

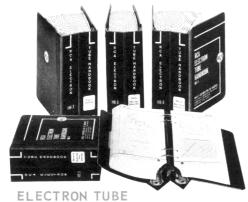
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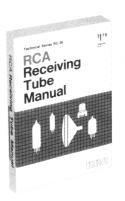
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