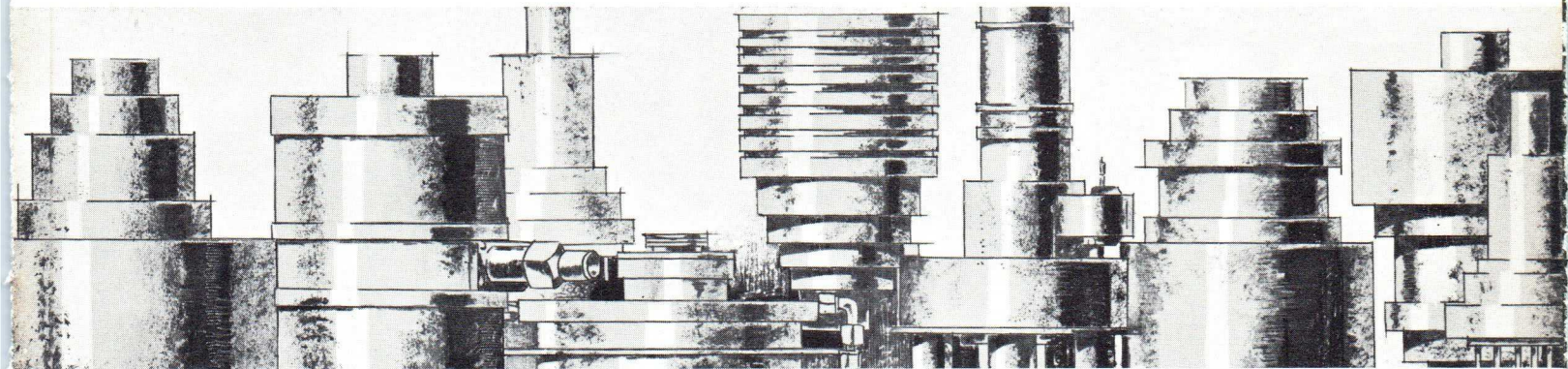


REA



**Power tubes
for new equipment
designs**

RCA Electronic Components

To assist you

This booklet has been prepared to facilitate the selection of power generating devices in the electronic field.

A quick selection chart inside the front cover permits a choice of broad family specifications for communication service and power. Other charts on pages 24 and 26 cover the pulsed applications and the amateur field.

Additional and more precise information on capability, heater, and cooling characteristics of the various members of the family aid in putting the best tube in the open socket.

Reference is made to the various regional offices of RCA where specific information on particular tube types is available, plus the answers to unforeseen questions.

Communications Selection Guide

POWER OUTPUT LEVEL	AM Broadcast	HF SSB	HF Vehicular	VHF TV	FM Broadcast	VHF Aircraft	VHF Vehicular	VHF TV	UHF Military	UHF Vehicular	UHF TV	UHF Mobile
	Civilian AM Broadcast	Common Carrier Marine Aircraft Military Aircraft ARC Vehicular VRC Portable PRC Shipboard SRC Fixed TRC (FRT)	Civilian 30 - 50 MHz Military VRC	Low Band Channels 2 - 6	Civilian FM Broadcast	Commercial 108 - 132 MHz Military ARC	Civilian Communication	High Band Channels 7 - 13	Aircraft (ARC) Vehicular (VRC) Portable (PRC) Shipboard (SRC) Fixed (TRC) (FRT)	Civilian Communication	UHF Band Channels 14 - 83	Civilian Communication
	0.5 - 1.6 MHz	1.6 - 30 MHz	30 - 76 MHz	54 - 88 MHz	88 - 108 MHz	108 - 144 MHz	148 - 174 MHz	174 - 216 MHz	225 - 420 MHz	450 - 470 MHz	470 - 890 MHz	890 - 960 MHz
	AM Carrier Power Plate Modulated	Peak Envelope Power	FM, CW Power	Peak Sync. Power	FM CW Power	AM Carrier Power Class B Linear	FM CW Power	Peak Sync. Power	AM Carrier Power Class B Linear	FM CW Power	Peak Sync. Power	FM CW Power
10 to 25 W	Power Output Level refers to the particular power parameter at the head of the column					6146B* 14 6159B* 14 8072 15 8462 15			7457 8 6816 8 6884 8 7842 8 7843 8 8072 15 8462 15 8596 8 4631 8			
25 to 50 W		6146B 14** 6159B 14 6883B 14			6146B 14	8121 15 8646 15	6146B 14 6883B 14		8121 15 8072* 15 8462* 15 4631* 8 6816* 8 6884* 8			6816 8
50 to 100 W		8072 15 8121 15 8462 15	4631 8 6816 8 6884 8 7843 8 8462 15		(2) 6146B 14	4633 15 4637 9 8072* 15 8122 15 8226 9 8462* 15	8072 15 8462 15		4633 15 4637 9 8122 15 8226 9 8072* 15 8462 15	8072 15 8462 15	8226 9	8226 9
100 to 250 W		4633 15 8122 15 8072 15	4637 9 8121 15		8121 15	7650 10 8121* 15	8121 15 8122 15		7650* 10 8791 10	8121 15 8122 15		
250 to 500 W			8122 15 8226 9		8122 15	7213 11	(2) 8121 15 (2) 8122 15		8792 11 4618 11 7213 11	7650 10	7650 10	
500 W to 1.0 KW		8791 10		8791 10	8791 10			8791 10	4632 12		7213 11	
1.0 to 2.5 KW		8792 11		8792 11	8792 11			8792 11	4628 12 4635 13 8437 13		4632 12 8501 12	
2.5 to 5.0 KW				8793 12	8793 12			8793 12			8501 12	
5.0 to 10 KW		8793 12		8793 12	8793 12			8793 12			6806 18	
10 to 25 KW		8794 12		8794 12	8794 12			8794 12			6806 18	
25 to 50 KW												
50 KW to 1.0 MW	6949 21	A2872A 20 A2873A 20							7835 19			

* Plate Modulated
** Page References

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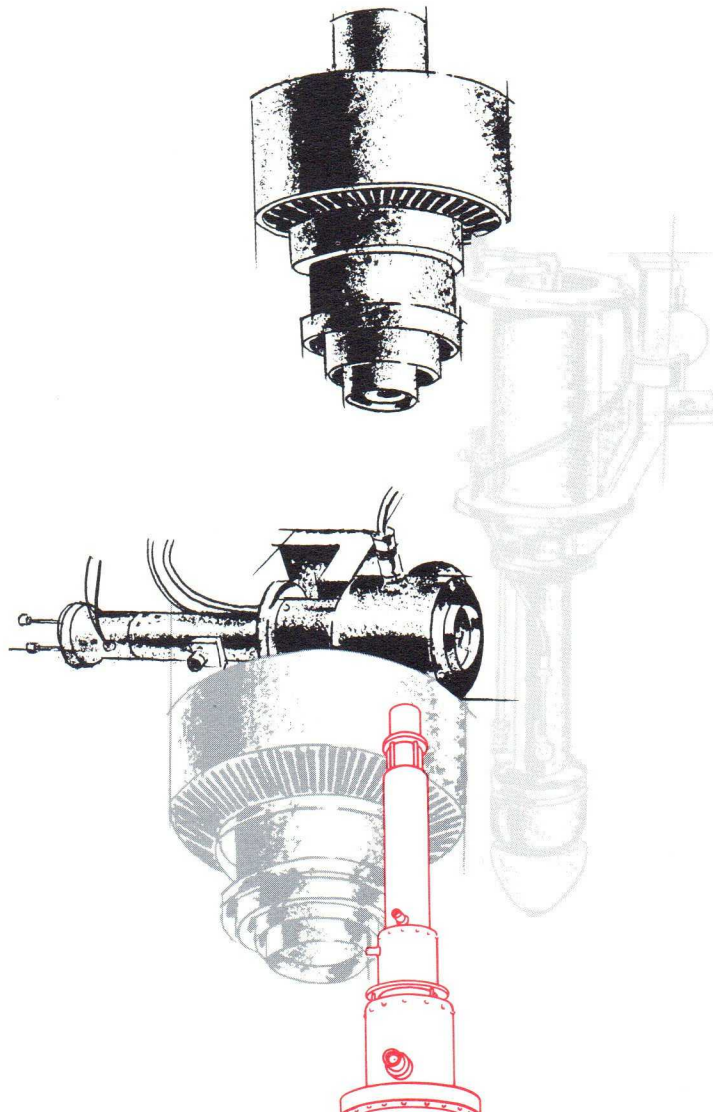
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Type numbers with letter prefixes identify developmental types suitable for engineering evaluation. The number and identifying data are subject to change. Before specifying any of these types in production equipment, please contact RCA. No obligation is assumed by RCA as to future manufacture of developmental types unless otherwise arranged.

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

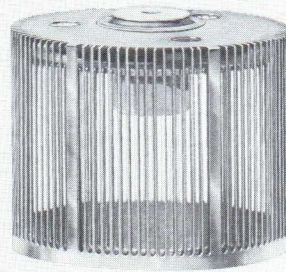
Trademark(s) ® Registered
Marca(s) Registrada(s)



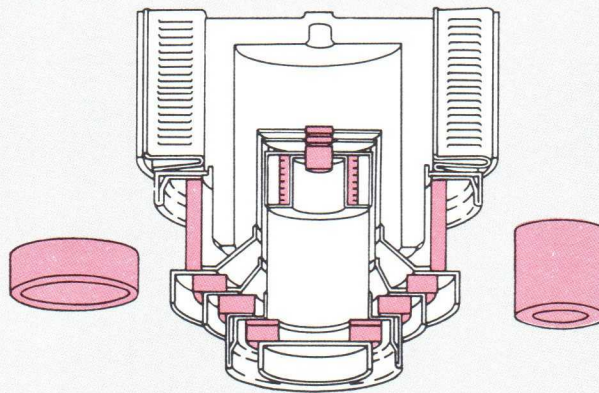
CERMOLOX[®] for critical applications

Features

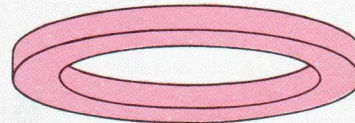
Precision-Aligned
Grids



Unitized
Electrode-and-
Terminal in Coaxial
Configuration



Ceramic-Metal
Construction



Advantages

Compactness
High gain
High power density
Sturdy construction

Minimum screen current
Negligible grid emission
High-temperature
operation

New Types for New Designs

8791

8792

8793

8794

**For High Linearity, Low Noise
HF Single Sideband Service
VHF & UHF Linear Service**

4626

4634

4638

For Pulse Modulator Service

A2872A

A2873A

For High Power Communication

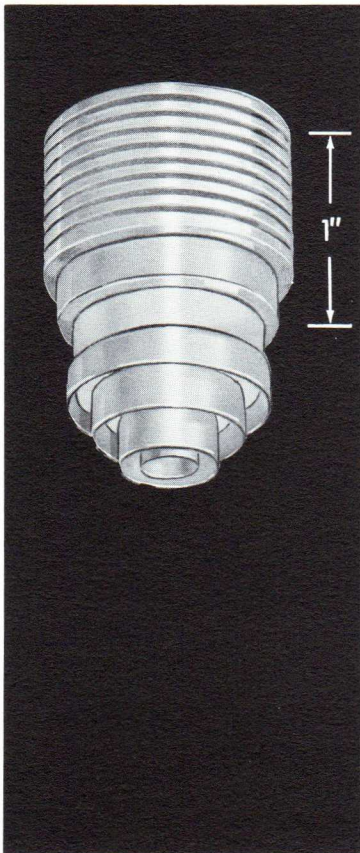
4635

For UHF Amplifier Service

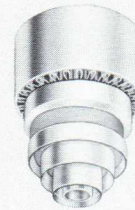
100 Watt Family

Service CW: AF Amplifier, Modulator, RF Oscillator, RF Linear Amplifier, Frequency Multiplier, Regulator
 Pulse: Grid or Plate Pulsed RF Amplifier

Capability CW: 40 Watts at 1215 MHz
 80 Watts at 400 MHz
 Pulse: 4500 Watts Peak Output



Variants



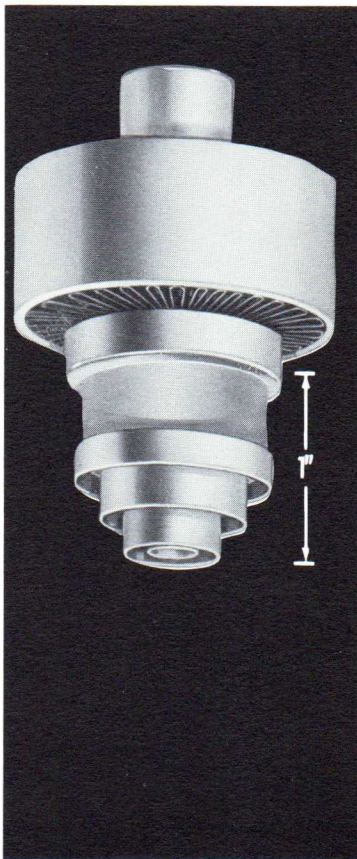
Service	Heater Volts	Transverse Forced Air Cooled	Axial Forced Air Cooled	Conduction Cooled
CW	6.3	6816		
		7457*	8596*	7842*
	26.5	6884		7843
Pulsed RF	6.3	7649*	4631*	

* Controlled environmental characteristics




250 Watt Family

Service CW: AF Amplifier, Modulator, RF Oscillator, RF Linear Amplifier, RF Frequency Multiplier
 Pulse: Grid or Plate Pulsed RF Amplifier

Capability CW: 340 Watts at 400 MHz
 105 Watts at 1215 MHz
 Pulse: 17 Kilowatts Peak Output



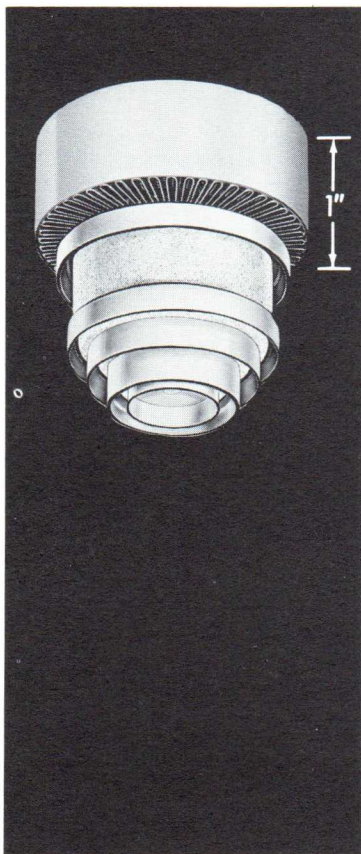
Variants

Variants				
Service	Heater Volts	Transverse Forced-Air Cooled	Axial Forced-Air Cooled	Conduction Cooled
CW	6.3		8226	4637
Pulsed RF		4621		

500 Watt Family

Service CW: AF Amplifier, Modulator, RF Amplifier, RF Oscillator, RF Linear Amplifier
 Pulse: Grid or Plate Pulsed RF Amplifier Regulator

Capability CW: 800 Watts at 400 MHz
 Pulse: 30 Kilowatts Peak Output
 Regulator: 2500 Volts, 0.5 Ampere Maximum



Variants



Service	Heater Volts	Axial Forced-Air Cooled	Conduction Cooled
CW	6.3	8791 7650*	
Pulsed RF		7651*	
Regulator		4614*	
Modulator			4634



* Controlled environmental characteristics

1000 Watt Family

Service CW: RF Amplifier, RF Oscillator, RF Linear Amplifier
 Pulse: Grid or Plate Pulsed RF Amplifier, Modulator, Regulator

Capability CW: 1350 Watts at 600 MHz
 Pulse: 65 Kilowatts Peak Output
 Modulator: 500 Kilowatts Peak Pulsed Input
 Regulator: 3500 Volts, 1.0 Ampere Maximum



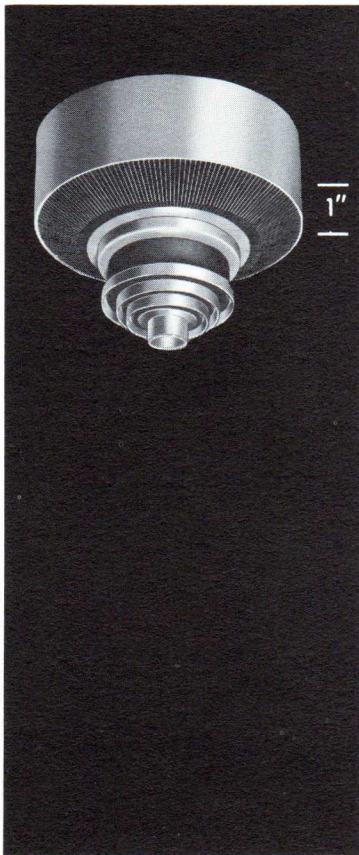
Variants			
Service	Heater Volts	Axial Forced-Air Cooled	Conduction Cooled
CW	5.5	8792 7213 4618	
Pulsed RF		7214	
Modulator			4626
Regulator		4600A*	4638*

* Controlled environmental characteristics

10 Kilowatt Family

Service Linear RF Amplifier for SSB, TV, and FM service

Capability Up to 15 Kilowatts CW at 400 MHz
Up to 10 Kilowatts PEP at 400 MHz



Variants

Service	Power Level kW	Heater Volts	Frequency MHz	Axial Forced-Air Cooled
Linear RF Amplifier	5.0	5.7	400	8793
	10.0		400	8794
RF Amplifier TV or FM	2.5	5.5	890	4632
	5.0	4.5	890	8501
	10.0	5.7	400	8793
	15.0		400	8794

15 Kilowatt Family

Service CW: RF Amplifier, RF Oscillator
 Pulse: Grid or Plate Pulsed RF Amplifier, Modulator

Capability CW: 10 Kilowatts at 400 MHz
 Pulse: 1.0 Megawatt Peak Pulsed Input to 500 MHz
 Modulator: 500 Kilowatts Peak Pulsed Input



Variants



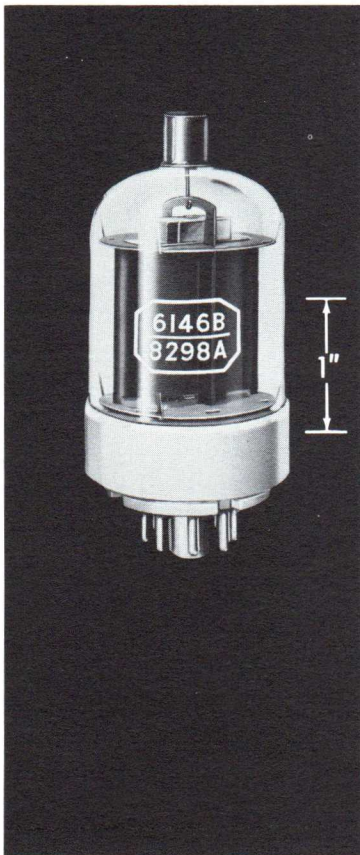
Service	Power Level	Heater Volts	Axial Forced-Air Cooled	Conduction Cooled
CW	10 kW (Output)	8.5	8437	
Class B Linear	2.5 kW (Carrier)	22	4635	
Pulsed RF	1.0 MW (Input)		8184	
Modulator	500 kW (Input)			4630*

* Controlled environmental characteristics

50 Watt Mobile Family

Service CW: AF Amplifier, RF Amplifier,
RF Oscillator
Pulse: Modulator

Capability CW: 50 Watts at 175 MHz
Pulse: 3.0 Amperes Pulsed Operation at Duty = 0.003
1.0 Ampere Pulsed Operation at Duty = 0.04



Variants

Service	Power Level	Heater Volts	Sm. Octal Base
CW	35 W	6.3	6146A 6146W
		12.6	8032
		26.5	6159 6159W
	50 W	6.3	6146B/8298A
		12.6	6883B/8032A/8552
		26.5	6159B
Quick Heat CW	30 W	6.3	4604
Modulator		6.3	6293

300 Watt Mobile Family

Service RF Amplifier, RF Oscillator,
Linear RF Amplifier

Capability Up to 300 Watts CW at 470 MHz



Variants



Service	Power Level	Heater Volts	Conduction Cooled	Forced-Air Cooled	
				Transverse	Axial
CW	100 W	13.5	8072		
		2.9	8462*		
	235 W	13.5		8121	
	300 W			4633†	8122

* Quick Heat

† Conduction of Forced Air Cooled for Closed Systems

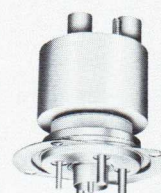
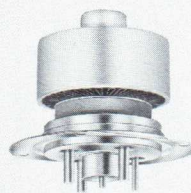
Distributed Amplifiers

Service Linear RF Amplifier

Capability Distributed Amplifiers with up to 2 Kilowatts Output at 400 MHz



Variants



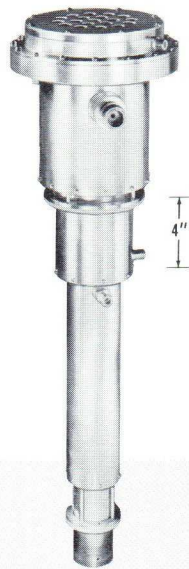
Service	Heater Volts	Axial Forced-Air Cooled	Liquid Cooled
CW	6.3	4624	4636



RCA-Y1015

Power Amplifier

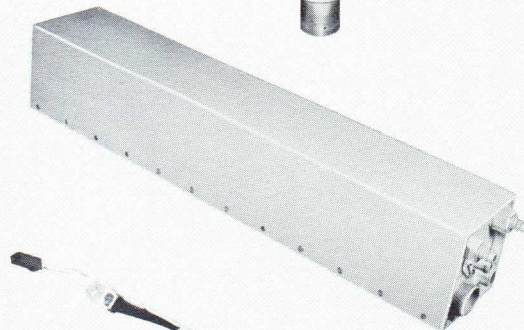
950-1225 MHz Frequency Range
 18 MHz Min. Bandwidth
 6kW Peak Power Output
 11 dB Min. Gain
 Linear Operation
 Replacement Tube
 RCA-7651



RCA-Y1020

Power Amplifier

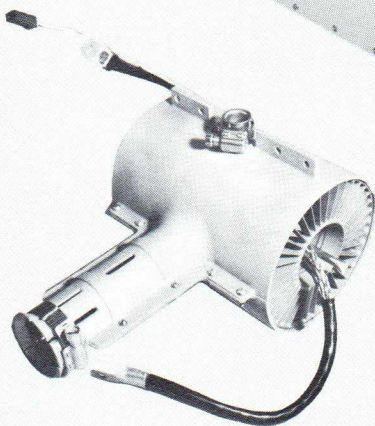
325-340 MHz Frequency Range
 11 dB Min. Gain
 Linear Operation
 Replacement Tube
 RCA-7213



RCA-Y1043

Power Amplifier

1235-1365 MHz Instantaneous
 1 dB Bandwidth
 5.0 kW Peak Power Output
 53 dB Gain
 Pulse Width = 500 μ s
 Duty = 0.04



RCA-FE2100

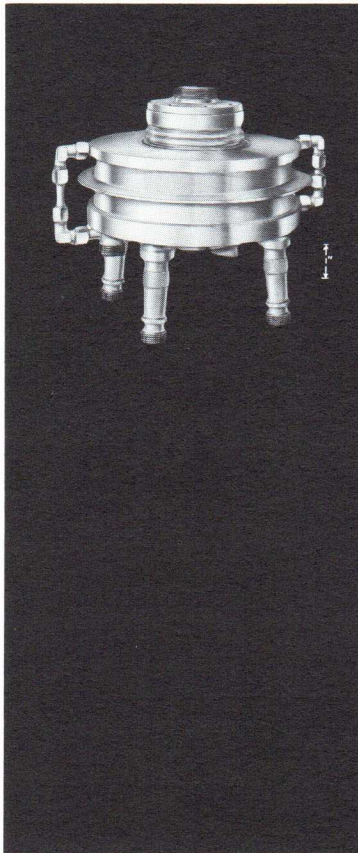
RF Power Amplifier

915 MHz
 900 Watts Output
 Low Voltage

Super Power Tetrode Family

Service CW: RF Amplifier and RF Oscillator for Television Service
Pulse: Peak Plate Pulsed RF Amplifier

Features Liquid Cooling, Ceramic-Metal Construction, Thoriated Tungsten or Matrix Oxide Cathodes

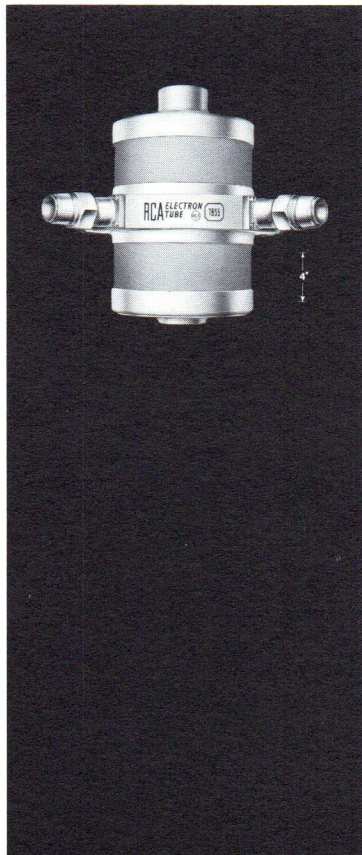


Service	Filament	Power	Frequency MHz	Pulse Width μ s	Duty	Type
CW RF Amplifier	ThW	12 kW Sync	800			6448
		28 kW Sync	550			6806
	M Oxide	50 kW CW	220			A2897
	ThW	50 kW CW	450			A2548
Pulsed RF Amplifier	ThW	300 kW		200	0.01	A2548
		180 kW	450	2000	0.06	2041
	M Oxide	2 MW	425	13	0.004	6952
		2 MW 250 kW	425 600	13 2000	0.004 0.06	4616
		4 MW	425	13	0.004	A2771
Dist. Amplifier	M Oxide	1.7 MW	520	6.0	0.06	A2897

Super Power Triode Family

Service CW: RF Amplifier
Pulse: RF Amplifier

Features Liquid Cooled, Ceramic-Metal Construction,
Thoriated Tungsten or
Matrix Oxide Cathodes,
Double or Single Ended



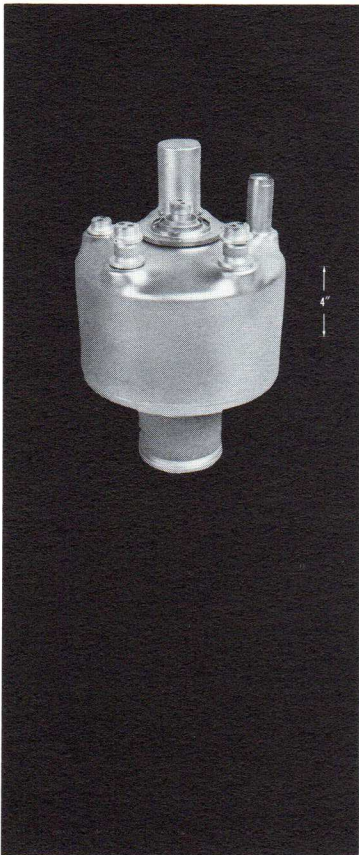
Service	Filament	Power	Frequency MHz	Pulse Width μ s	Duty	Type
CW RF Amplifier	ThW	500 kW	425			A15039
		750 kW	30			A15186C*
Pulsed RF Amplifier	ThW	10 MW 5 MW	250	25 2,000	0.006 0.06	7835
		M Oxide	8 MW 5 MW	425	25 2,000	0.01 0.06
	ThW	2.5 MW	440	10,000	0.06	2054
		10 MW	30	10,000	0.001	A15186C*

* Single Ended

Super Power Beam Power Tube Family

Service CW: RF Amplifier
Pulse: RF Amplifier, Modulator

Features Liquid Cooled, High Gain,
Coaxial Structure, Thoriated Tungsten Filament

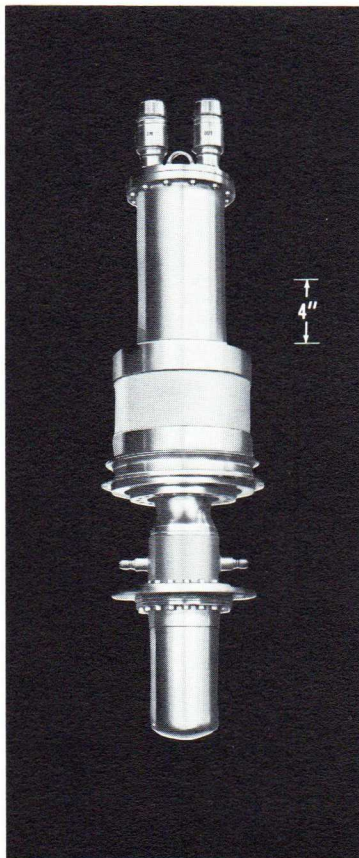


Service	Power	Pulse Width μ s	Duty	Type
CW	250 kW			A2872A
Pulse	600 kW	2000	0.06	A2872A
CW	500 kW			A2873A
Pulse	1200 kW	2000	0.06	A2873A

Shielded Grid, Beam Triode Family

Service CW: RF Amplifier
Pulse: RF Amplifier, Modulator

Features Liquid Cooled, Ceramic-Metal Construction
Thoriated Tungsten Filament
Single or Double Ended

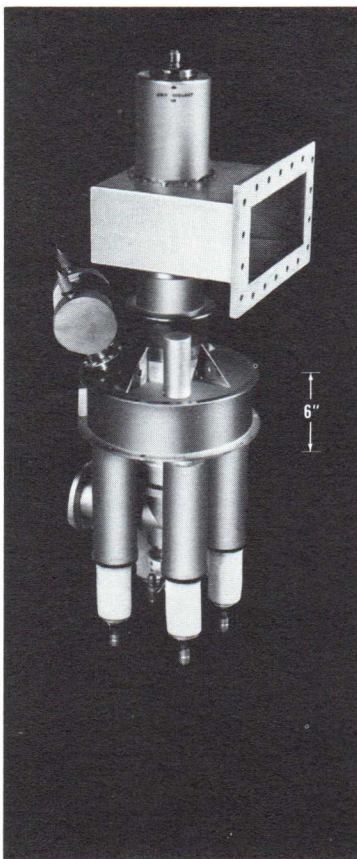


Service	Power	Frequency MHz	Pulse Width μ s	Duty	Type
CW	500 kW CW	10			6949
	600 kW PEP	425			6949
Plate Pulsed	1.5 MW	50	3000	0.09	6949
	1.5 MW	200	3000	0.09	6950/2039
Modulator	11.5 MW	..	3000	0.05	A15034C

Super Power **COAXITRON** Tube Family

Service Broad Band Pulsed RF Amplifier
Narrow Band Pulsed RF Amplifier

Features Broad Untuned Electronic Bandwidth,
Ceramic-Metal Construction
Liquid Cooled, Integral RF Cavities,
Gridded Electronic Structure,
Coaxial or Waveguide Output

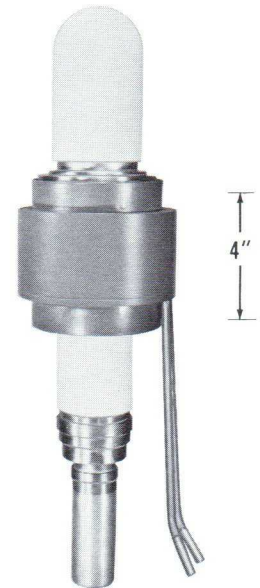


Service	Structure	Peak Power MW	Freq. MHz	Uni-formity	Pulse Width μ s	Duty	Type
Broad Band	Triode	5.0	390-450	1 dB	25	0.0125	A15038
		4.0	418-452	1 dB	10	0.008	A15193A*
		1.0	855-945	3 dB	20	0.01	A15048
	Tetrode	0.825	205-225	2 dB	12	0.004	A2696
Narrow Band	Triode	1.25	805		2000	0.06	A15191
		2.5	805		250	0.0075	A15405

* Coaxial Output

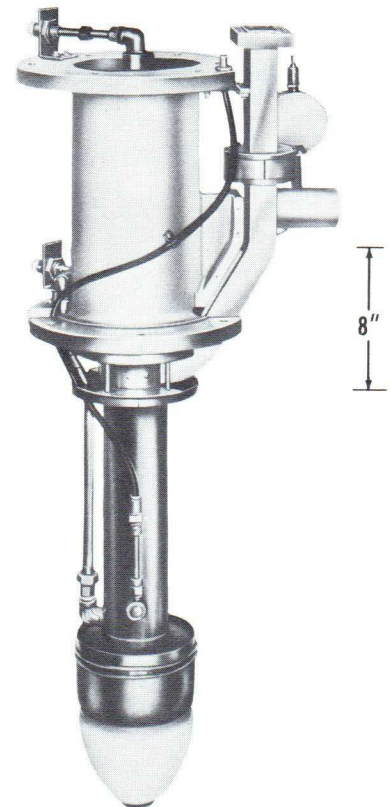
RCA-8684
High Power Magnetron

- Service** RF Power Source, Industrial Processing
- Capability** 30 Kilowatts, up to 80% Efficiency
- Features** Liquid Cooled, Fixed Tuned,
Ceramic-Metal Construction,
Electromagnetically Focused



RCA-8568
Klystron

- Service** Pulsed RF Amplifier, Accelerator
- Capability** 21 Megawatt Peak Power at 2856 MHz
Pulse Width = 2.5 μ s Duty = 0.0009
- Features** Liquid Cooled, Ceramic-Metal Construction
Fixed Tuned, Five Resonators, PM or EM Focusing



RADAR and ECM Selection Guide

Service	Frequency	
Series Regulators		
Deflection Amplifiers for Data Display		
Hard Tube Modulators		
Distributed Amplifiers	0-50 MHz	
	0-100 MHz	
	0-250 MHz	
	0-400 MHz	
	0-600 MHz	
Search Radars	2-500 MHz	
Broadband and Phased Array	500-980 MHz	
TACAN Ground Station	960-1025 MHz	
Airborne DME, TACAN and IFF Ground Interrogators	1025-1150 MHz	
TACAN Ground Station	1150-1215 MHz	
Fire Control Airborne Phased Array Ground	1215-1450 MHz	
Accelerator	2856 MHz	

Tube Type	Ref. Page	Notes:
4614 4600A 4638	10 11 11	Used for frequency control of Voltage Tunable Microwave Devices or Power Supply Regulators.
8122	15	High current, high voltage amplifiers for electrostatic deflection of Cathode Ray and Scan Conversion Display Devices. Other types may be applicable.
6293 4634 4638 4626 4630 A150346	14 10 11 10 13 21	Used for pulse modulation of both Power Tubes and Microwave Devices. Replacing Gas tube modulators in modern, sophisticated radars requiring pulse width and repetition rate agility.
4628 4632 7213 7214 7650 7651 8791 8226 6816 8072 4636 4624	12 12 11 11 10 10 10 9 8 15 16 16 16	The RCA-4624 and RCA-4638 Tube Types were designed specifically for use as distributed amplifiers in high frequency service. The other tubes, while designed for high frequency performance as CW and pulsed amplifiers, can perform very satisfactorily as distributed amplifiers in lower frequency applications, as shown.
7649 4621 7651 7214 8184 7835 6949	8 9 10 10 8 19 21	Rugged, high gain, high bandwidth capability makes these types attractive throughout the band.
2041 6952 7649 4621 7214 7651	18 18 8 9 11 10	Power tubes have advantages over microwave tubes of greater bandwidth, output linearity, phase stability and lower spurious radiation, replacement cost and size in modern sophisticated radars.
7649 4621 7651 7214	8 9 10 11	Power tubes have advantage of lower replacement cost.
7649 4621 7651 7214	8 9 10 11	Power tubes have advantage of higher power, wider bandwidth, and higher duty factor, particularly in the ground interrogator area.
7649 4621 7651 7214	8 9 10 11	Power tubes have advantage of lower replacement cost over microwave tubes.
7649 4621 7651 Y1043	8 9 10 17	Power tubes have advantage of greater bandwidth, output linearity, phase stability, lower spurious radiation, replacement cost and size in modern sophisticated radars.
8568	23	Klystrons specifically designed for accelerator use.

Band		Class of Service				RCA Tube Type					
Wave-length Meters	Fre-quency MHz	SSB (PEP) W	CW W	Phone (carrier)		Fixed Station		Mobile		Quick-Heat	
				AM Linear W	Plate Modu-lated W	Audio Modu-lator	Final RF Ampli-fier	Audio Modu-lator	Final RF Ampli-fier	Audio Modu-lator	Final RF Ampli-fier
160	1.8-2.0										
80	3.5-4.0	90	120		85	(2) 6146A	6146B	(2) 6883	6883B	(2) 4604	4604
40	7-7.3	180	240		170	(2) 6146A	(2) 6146B	(2) 6883	(2) 6883B	(2) 4604	(2) 4604
20	14-14.35	300	450	200	300	(2) 6146B	8121	(2) 6883	8121		
15	21-21.45	500	600				8122		8122		
10	28-29.7	1000	1000				(2) 8122		(2) 8122		
6	50-54										
2	144-148	65	90		60	(2) 6146A	6146B	(2) 6883	6883B	(2) 4604	4604
		130	180		120	(2) 6146A	(2) 6146B	(2) 6883	(2) 6883B	(2) 4604	(2) 4604
		300	450	200	300	(2) 6146B	8121	(2) 6883B	8121		
		500	500				8122		8122		
		1000	1000				(2) 8122		(2) 8122		
UHF	220-225	300	450	200	300	(2) 6146B	8121	(2) 6883B	8121		
	420-440	500	600				8122		8122		
		1000	1000				(2) 8122		(2) 8122		

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4626	11
4628	12
4630	13
4631	8
4632	12
4633	15
4634	10
4635	13
4636	16
4637	9
4638	11
6146B/8298A	14
6146W	14
6159B	14
6159W	14
6293	14

6448	18
6806	18
6816	8
6883B/8032A/8552	14
6884	8
6949	21
6950/2039	21
6952	18
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7214	11
7649	8
7650	10
7651	10
7835	19
7842	8
7843	8
8072	15
8121	15
8122	15
8184	13
8226	9
8437	13
8462	15
8501	12
8568	23
8596	8
8684	23

8791	10
8792	11
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A2696	22
A2771	18
A2872A	20
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A15034C	21
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NEW JERSEY	Metropolitan Phila.	605 Marlton Pike, Haddonfield, N.J.	08034	(609) 428-4802
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FLORIDA	2828 Broadway St., Riviera Beach, Fla.	33404	(305) 842-2171	
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ILLINOIS	446 E. Howard Ave., Des Plaines, Ill.	60018	(312) 827-0033	
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MICHIGAN	28840 Southfield Rd., Lathrup Village, Mich.	48075	(313) 353-9770	
MINNESOTA	5805 Excelsior Blvd., Minneapolis, Minn.	55416	(612) 929-0676	
MISSOURI	7711 State Line, Suite 112, Kansas City, Mo.	64114	(816) 363-6462	
NEW YORK	731 James St., Room 206, Syracuse, N.Y.	13203	(315) 479-8134	
OHIO	1621 Euclid Ave., 1600 Keith Bldg., Cleveland, Ohio	44115	(216) 579-0880	
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ILLINOIS	446 E. Howard Ave., Des Plaines, Ill.	60018	(312) 827-0033	
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Technical Bulletins

In addition to catalogs for highlights and condensed data, handbooks and manuals, RCA also offers technical bulletins on individual commercial tube types. The technical bulletin contains descriptive information, general data, maximum ratings, typical operation, characteristics, operating considerations and dimensional outline. Single copies of bulletins are free on request. Please specify the tube type in which you are interested.

Additional Booklets

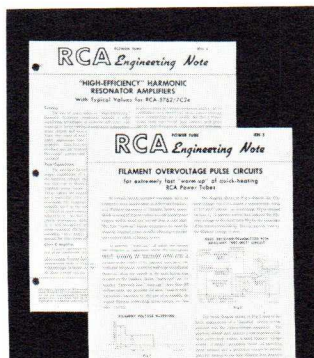
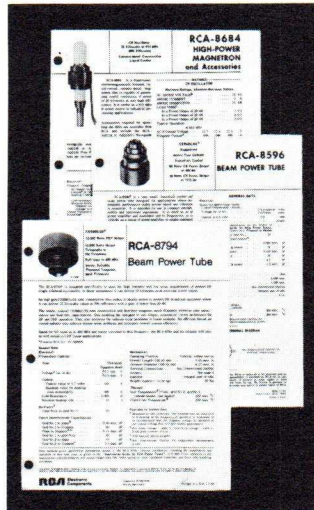
RCA introduces Super-Power COAXITRON Tubes, ICE-285—This booklet describes the new concept in “packaged” broadband RF amplifiers by: discussing theory, design, capability, and application of Coaxitrons; offering features and advantages; and depicting three coaxitrons that have demonstrated their capabilities.

Product Guide for RCA Power Tubes, PWR-506B—This guide provides classification charts by class of service and gives tabulated data on the complete line of RCA power tubes. The condensed data includes maximum ratings, typical operation, terminal diagrams, and dimensional outlines.

Application Information

Application Guides provide general application information; Engineering Notes and Papers provide information on a more specific phase of applications or a particular tube type.

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