

7A5



## BEAM POWER AMPLIFIER

Heater	Coated Unipotential Cathode	
Voltage	6.3 <sup>□</sup>	a-c or d-c volts
Current	0.75 <sup>□□</sup>	amp.
Maximum Overall Length	3-5/32"	
Maximum Seated Height	2-5/8"	
Maximum Diameter	1-3/16"	
Bulb	T-9	
Base	Lock-in 8-Pin	
Pin 1 - Heater		Pin 6 - Grid
Pin 2 - Plate		Pin 7 - Cathode
Pin 3 - Screen		Pin 8 - Heater
Pin 4 - No Connection		Plug - Base Shell
Pin 5 - No Connection		
Mounting Position	BOTTOM VIEW (6AA)	Any
<u>AMPLIFIER</u>		
Plate Voltage	125 max. volts	
Screen Voltage	125 max. volts	
Plate Dissipation	5.5 max. watts	
Screen Dissipation	1.2 max. watts	
<i>Typical Operation and Characteristics-Class A<sub>1</sub> Amplifier:</i>		
Heater	6.3 <sup>□</sup>	6.3 <sup>□</sup> volts
Plate	110	125 volts
Screen	110	125 volts
Grid <sup>▲</sup>	-7.5	-9 volts
Peak A-F Grid Voltage	7.5	9 volts
Zero-Sig. Plate Cur.	40	44 ma.
Max.-Sig. Plate Cur.	41	45 ma.
Zero-Sig. Screen Cur. (Approx.)	3	3.3 ma.
Max.-Sig. Screen Cur. (Approx.)	7	9.5 ma.
Plate Res. (Approx.)	14000	17000 ohms
Transcond.	5800	6000 μmhos
Load Res.	2500	2700 ohms
Total Harmonic Dist.	10	10 %
Max.-Sig. Power Output	1.5	2.2 watts
<p>■ In circuits where the cathode is not connected directly to the heater, the potential difference between heater and cathode should be kept as low as possible.</p> <p>□ Nominal voltage = 7 volts.</p> <p>□□ Nominal current = 0.80 ampere.</p> <p>▲ The type of input coupling should not introduce too much resistance in the grid circuit. Transformer- or impedance-input coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not to exceed 0.5 megohm.</p>		

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RCA RADOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA