

## POWER AMPLIFIER PENTODE

MINIATURE TYPE			
Filament Coated			
Filament Arrangement Series	Parallel**		
Voltage 2.8		d-c volts	
Current 0.1	0.2	amp.	
Direct Interelectrode Capacitances	s:°	•	
	.34 max.	μμf	
Input	4.8	μμf	
Output	4.2	μμf	
Maximum Overall Length		2-1/8"	
Maximum Seated Height		1-7/8"	
Maximum Diameter		3/4"	
Bulb		T-5-1/2	
Base▲	Miniature Buti		
Pin 1-Fil. (- series)	(F:1 A	Mid-Tap	
Pin 2-Plate	Pin 5 { ' (- n	arallel)	
Pin 3 – Screen	Pin 6 - Plate	11411617	
Pin 4-Grid & MA	Pin 7 - Filame	ent +	
RCA Socket	Stock	No.9914	
Mounting Position BOTTOM VIEW	(788)	Any	
		Ally	
Maximum Ratings Are Design-Center Values  A-F POWER AMPLIFIER			
Plate Voltage		x. volts	
Screen Voltage		x. volts	
Plate Dissipation		x. watts	
Screen Dissipation		ix. waits	
Total Zero-Sig.Cathode Current		ax. watt	
Typical Operation and Characterist	ice Class As Ambli	ax. ma.	
Filament Arrangement	Parallel **	Jier: •	
Plate Voltage	135 150	volts	
Screen Voltage	90 90	volts	
Grid Voltage	-7 <b>.</b> 5 -8 <b>.</b> 4	volts	
Peak A-F Grid Voltage	7.5 8.4	volts	
Zero-Sig. Plate Current	14.8 13.3	ma.	
MaxSig. Plate Current	14.9 14.1	ma.	
Zero-Sig. Screen Current	2.6 2.2	ma.	
MaxSig. Screen Current	3.5 3.5	ma.	
Plate Resistance	90000 100000	ohms	
Transconductance	1900 1900	µmhos	
Load Resistance	<b>8</b> 000 8000	ohms	
Total Harmonic Distortion	5 6	%	
Max.—Sig. Power Output	600 700	mw	
R-F POWER AMPL	IFIER		
D-C Plate Voltage	<del></del>		
D-C Screen Voltage		x. volts	
D-C Grid Voltage		x. volts	
D-C Plate Current		x. volts	
D-C Grid Current	20 ma	x. ma.	
Total D-C Cathode Current	0.25 ma		
Plate Input	_	x. ma.	
Screen Input	•	x. watts	
Dista Dissipation		x. watt	
Plate Dissipation	2 max	x. watts	
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	Indicates a cha	nge.	

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(continued from preceding page)

Typical Operation at 10 Mc with Parallel Filament Arrandement \*\*

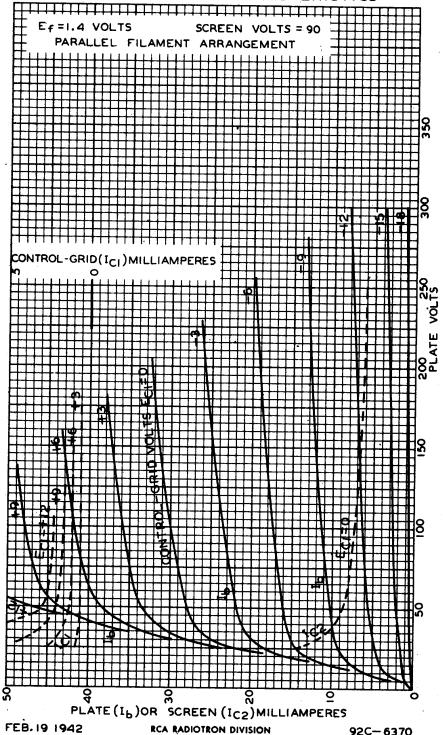
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D-C Plate Voltage	150	volts
D-C Screen Voltage	135	volts
Grid Resistor	0.2	megohm
D-C Plate Current	18.3	ma.
D-C Screen Current	6.5	ma.
D-C Grid Current	0.13	ma.
Power Output (approx.)	1.2	watts

- Filament voltage applied across the two sections in series between pins No.1 and No.7. Grid voltage is referred to pin No.1.
- Filament voltage applied across the two sections in parallel between pin No.5 and pins No.1 and No.7 connected together. Grid voltage is referred to pin No.5.
- With no external shield.
- For series-filament operation. A shunting resistor must be connected across the section between pins No.1 and No.5 to by-pass excess cathode current in this section. The value of the shunting resistor should be adjusted to make the voltage across the shunted section equal to the voltage across the section between pins No.5 and No.7. When other tubes in series-filament arrangement contribute to the filament current of the 3AM, an additional shunting resistor may be required between pins No.1 and No.7.
- Typical operating values for the 3A# with filament sections in series will be approximately the same as those shown for parallel-filament operation.
  - The center hole in sochets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.









RCA RADIOTRON DIVISION RCA MANUFACTURING COMPANY, INC.

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