



POWER AMPLIFIER PENTODE

MINIATURE TYPE					
Filament	Coated				
Filament Arrangement	Series *	Paralle	el**		
Voltage	2.8	1.4		d-c	volts
Current	0.1	0.2			amp.
Direct Interelectrode Cap	acitances:				•
Grid to Plate		34 max.			μμf
Input		.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≜		Minia	ature Bu		
Pin 1-Fil.(- series)	@ B		(F: 1	Mid-	
Pin 2-Plate		Pin	5 1 1-	para	llell .
Pin 3 - Screen	WITT TO	Pin	6 - Plat		,
Pin 4 - Grid	d my	Pin	7 - Fila	ment	+
RCA Socket					.9914
	TOM VIEW (7	7RR)	0.0		Any
Maximum Ratings			r Values		
1	POWER AMPLI		,	•	
Plate Voltage	OWEN AWIL	11 16.11	150	max.	volts
Screen Voltage			90	max.	volts
Plate Dissipation			2.0	max.	watts
Screen Dissipation			0.4	max.	watt
Total Zero-Sig. Cathode Cu	rrent∎		18	max.	ma.
Typical Operation and Cha		cs-Class			
Filament Arrangement		Para	llel **		
Plate Voltage		135	150		volts
Screen Voltage		90	90		volts
Grid Voltage		-7.5	-8.4		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 Curren	ι	2.6	2.2		ma.
MaxSig. Screen Curren		3.5	3.5		ma.
Plate Resistance		90000	100000		ohms
Transconductance Load Resistance		1900 8 000	1900 8000		µmhos ohms
Total Harmonic Distorti	00	5	6		%
I TOTAL HAPHIOTIC DISCOLL	OII				76 MW
		600	700		
MaxSig. Power Output	יסשבם אוסיו	600	700		
Max.—Sig. Power Output R-F F	OWER AMPLI				
MaxSig. Power Output R-F F D-C Plate Voltage	OWER AMPLI		150		volts
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage	OWER AMPLI		150 135	max.	volts volts
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage	OWER AMPLI		150 135 -30	max. max.	volts volts volts
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage D-C Plate Current	OWER AMPLI		150 135 -30 20	max. max. max.	volts volts volts ma.
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage D-C Plate Current D-C Grid Current			150 135 -30	max. max. max.	volts volts volts ma.
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage D-C Plate Current D-C Grid 'Current Total D-C Cathode Current			150 135 -30 20 0.25 25	max. max. max. max. max.	volts volts volts ma. ma.
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage D-C Plate Current D-C Grid 'Current Total D-C Cathode Current Plate Input			150 135 -30 20 0.25 25	max. max. max. max. max. max.	volts volts volts ma. ma. watts
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage D-C Plate Current D-C Grid 'Current Total D-C Cathode Current Plate Input Screen Input			150 135 -30 20 0.25 25	max. max. max. max. max.	volts volts volts ma. ma. watts
MaxSig. Power Output R-F F D-C Plate Voltage D-C Screen Voltage D-C Grid Voltage D-C Plate Current D-C Grid 'Current Total D-C Cathode Current Plate Input			150 135 -30 20 0.25 25 3 0.9	max. max. max. max. max. max. max.	volts volts volts ma. ma. watts





POWER AMPLIFIER PENTODE

(continued from preceding page)

Typical Operation at 10 Nc with

Parailei	rilament Arrangement.	i
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.
- O 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-passexcess 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 3A4, an additional shunting resistor may be required between pins No.1 and No.7.
- Typical operating values for the 3AM with filament sections in series will be approximately the same as those shown for parallel-filament operation.
 - A fhe center hole in sockets 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.

Indicates a change.





AVERAGE PLATE CHARACTERISTICS

