



POWER AMPLIFIER PENTODE

MINIATURE TYPE

	MINIATURE I	irc	
Filament Filament Arrangement	Coated Series*	Parallel*	
Voltage	2.8	1.4	d-c volts
Current	0.05	0.1	amp.
Maximum Overall Length			2-1/8"
Maximum Seated Height			1-7/8"
Maximum Diameter			3/4"
Bulb			T-5-1/2
Base ▲	0 0	Miniature	Button 7-Pin
Pin 1-Fil.(-series)	9 9	Pin 5 - Filar	ment Mid-Tap
Pin 2-Plate		(parallel)
Pin:3-Grid	el min	Pin 6 - Plate	e
Pin 4 - Screen		Pin 7-Filar	ment+
Mounting Position	TTOM VIEW (7	7D A 1	Any
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BOTTOM VIEW (7BA)

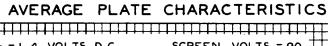
AMPLIFIER

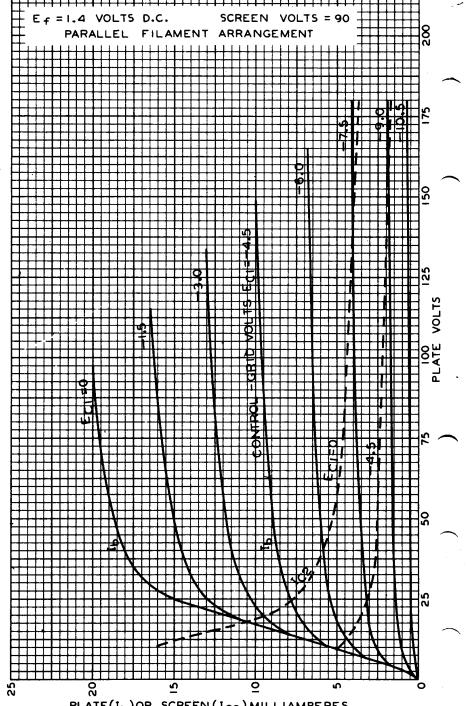
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Filament Arrangement	Series*	Paral	lel*			
Plate Voltage	90 max.	90 1	max.	volts		
Screen Voltage	90 max.	90 r	max.	volts		
Total Cathode Current	6#max.		max.	ma.		
Typical Operation and Characteristics - Class A, Amplifier:						
Plate Voltage	90	85	90	volts		
Screen Voltage	90	85	90	volts		
Grid Voltage	-4 .5	- 5	-4.5	volts		
Peak A-F Grid Volt.	4.5	5	4.5	volts		
Zero-Sig. Plate Cur.	7.7	6.9	9.5	ma.		
Zero-Sig. Screen Cur.	1.7	1.5	2.1	ma.		
Plate Res. (approx.)	0.12 ′	0.12	0.1	megohm		
Transconductance	2000	1975	2150	umhos		
Load Resistance	10000	10000	10000	ohms		
Total Harmonic Dist.	7	10	7	%		
MaxSig. Power Output	0.24	0.25	0.27	watt		

- For series filament arrangement, filament voltage is applied between pins No.1 and No.7. The grid voltage is referred to pin No.1. For parallel filament arrangement, filament voltage is applied between pin No.5 and pins No.1 and No.7 connected together. The grid voltage is referred to pin No.5.
- # For each 1.4-volt filament section. For series operation of the sections, a shunting resistor must be connected across the section between pins No.1 and No.5 to by-pass any cathode current in this section which is in excess of the rated maximum per section. When other tubes in a series-filament arrangement contribute to the filament current of the 304, an additional shunting resistor may be required between pins No.1 and No.7.
 - A The 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.









PLATE(Ib)OR SCREEN(IC2)MILLIAMPERES
APR-22,1941 TUBE DIVISION

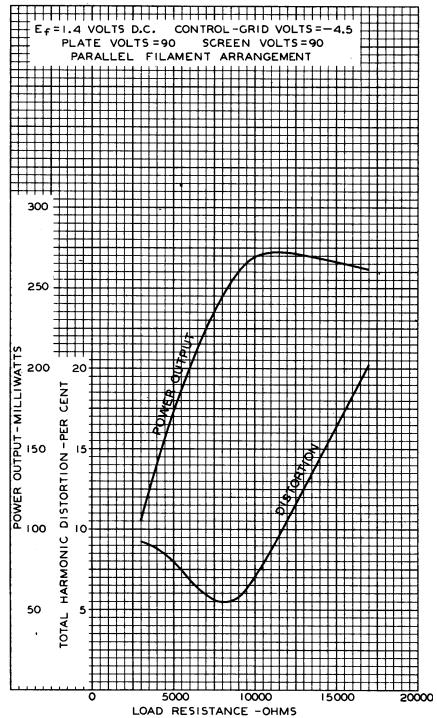
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92C-6255RI





OPERATION CHARACTERISTICS



MAY 7, 1941

TUBE DIVISION
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92C-6281