

### POWER AMPLIFIER PENTODE

Filament	Coated	
Voltage	2.5	a-c or d-c volts
Current	1.75	amp.
Direct Interelectrode Capacitances:		
Grid to Plate	1.2	$\mu\text{mf}$
Input	8.6	$\mu\text{mf}$
Output	13.0	$\mu\text{mf}$
Maximum Overall Length	③	5-3/8"
Maximum Diameter		2-1/16"
Bulb		ST-16
Base	②      ④	Medium 5-Pin
Pin 1-Filament	①      ⑤	Pin 4-Screen
Pin 2-Plate		Pin 5-Filament
Pin 3-Grid		

BOTTOM VIEW

#### AMPLIFIER - Class A

Operating Conditions and Characteristics:		
Filament	2.5	a-c volts
Plate	250 maximum	volts
Screen	250 maximum	volts
Grid *	-16.5	volts
Amp. Fact.	150	
Plate Res.	60000	ohms
Transcond.	2500	$\mu\text{mhos}$
Plate Cur.	31	ma.
Screen Cur.	6	ma.
Load Res.	7000	ohms
Power Output	2.7 <sup>o</sup>	watts

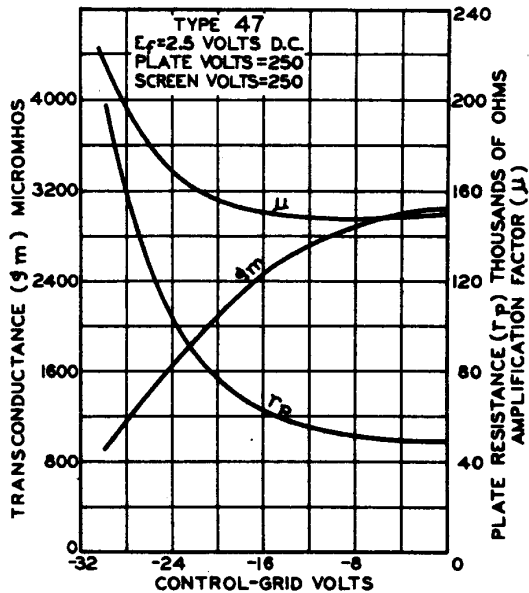
<sup>o</sup> 6% total harmonic distortion.

\* Grid volts measured from mid-point of a-c operated filament.

If a single 47 is self-biased, the self-biasing resistor (450 ohms) should be shunted by a suitable filter network to avoid degenerative effects at low audio frequencies. With two 47's in push-pull, the filter network may be omitted across the resistor (225 ohms).

Transformer or impedance input-coupling devices are recommended. If, however, resistance coupling is employed, a grid resistor limited to 0.5 megohm may be used under self-bias conditions. Without self-bias, the grid resistor should not exceed 50000 ohms.

#### AVERAGE CHARACTERISTICS

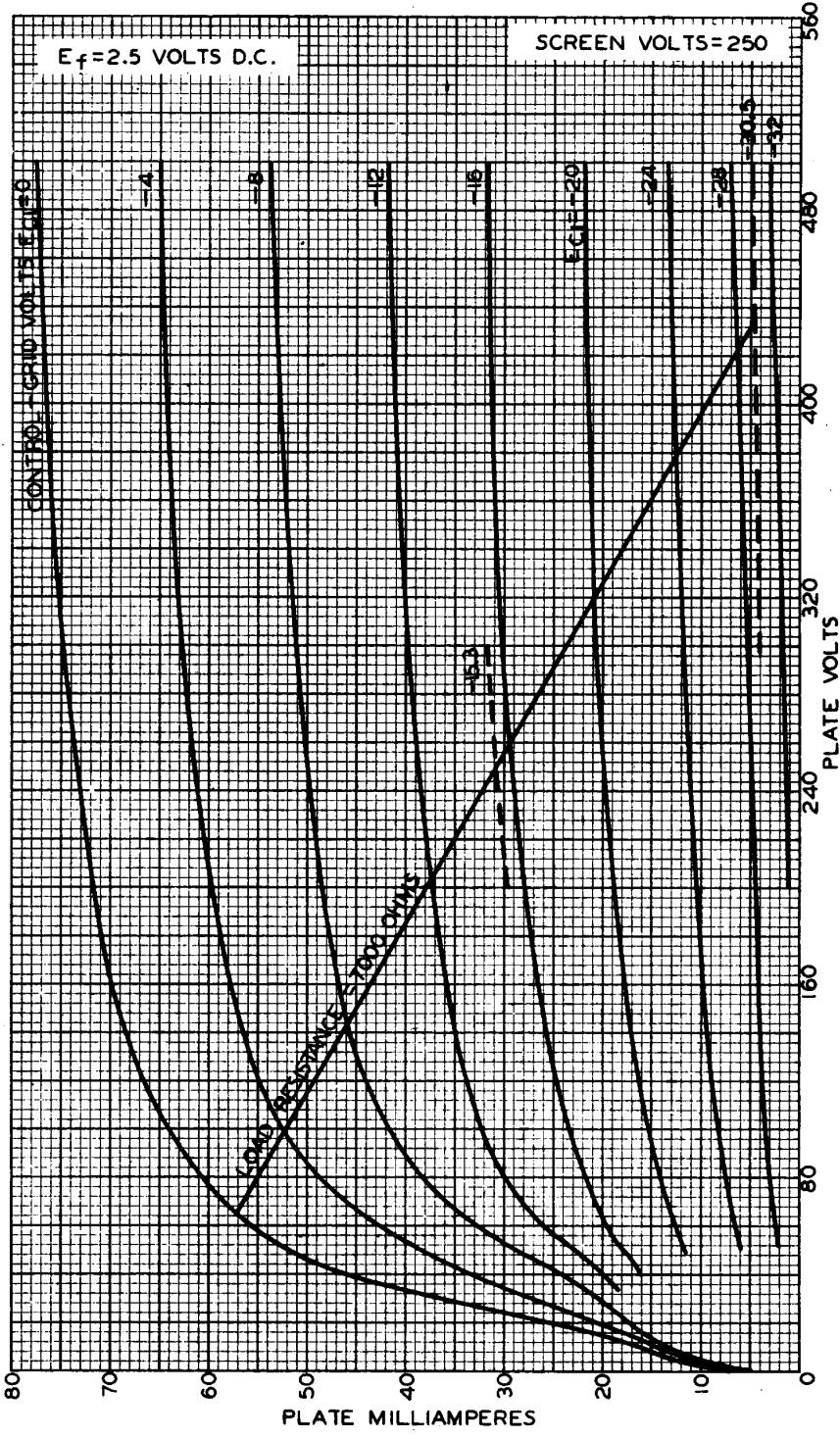


92C-5136

47



### AVERAGE PLATE CHARACTERISTICS



JAN. 29, 1934

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

925-5137R2