Cunningham Radiotron

RCA-33

POWER AMPLIFIER PENTODE

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.260	amp.
Direct Interelectrode Capacitances:		
Grid to Plate	1.0	μμf
Input	8.0	μμf
Output	12.0	μμf
Maximum Overall Length		4-11/16"
Maximum Diameter		1-13/16"
Bulb	③	ST-14
Base		Medium 5-Pin
Pin 1-Filament +	② ④	Pin 4-Screen
Pin 2-Plate		Pin 5-Filament -
Pin 3-Grid	① ⑤	

BOTTOM VIEW

AMPLIFIER (Class A)

Operating Conditions and Characteristics:			
Filament	2.0	2.0	d-c volts
Plate	135	180 max.	volts
Screen	135	180 max.	volts
Grid	-13.5	-18	volts
Amp. Fact.	70	90	approx.
Plate Res.	50000	55000	approx. ohms
Mut. Cond.	1450	1700	μmhos
Plate Cur.	14.5	22	ma.
Screen Cur.	3	5	ma.
Load Res.	7000	6000	ohms
P.O.°	0.7	1.4	watts

° 7% total harmonic distortion.

If a single 33 is self-biased, the self-biasing resistor (770 ohms for 135 volts, or 670 ohms for 180 volts) should be shunted by a suitable filter network to avoid degenerative effects at low audio frequencies. With two 33's in push-pull, the filter network may be omitted across the resistor (one-half of the values for a single tube).

Transformer or impedance input-coupling devices are recommended. If, however, resistance coupling is employed the grid resistor with self-bias should not exceed one megohm: without self-bias, it should be limited to 0.5 megohm.

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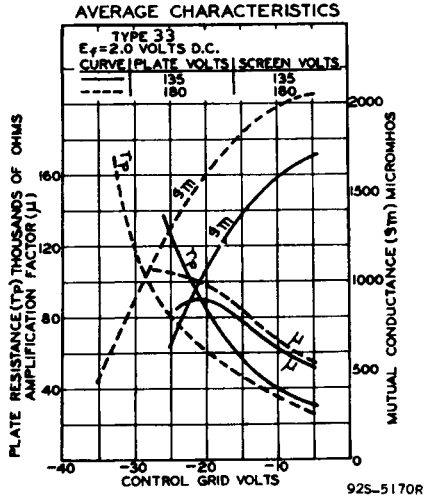
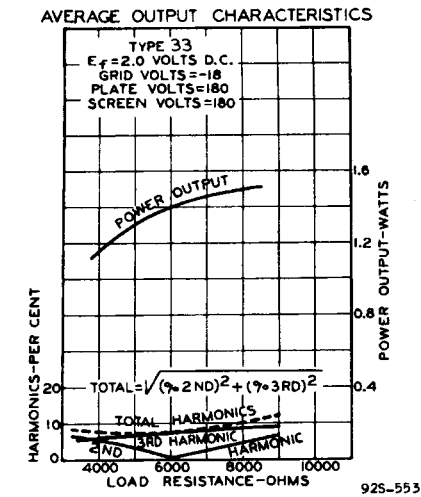
AVERAGE CHARACTERISTICS





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AVERAGE PLATE CHARACTERISTICS

RCA Cunningham Radiotron RADIO TUBES

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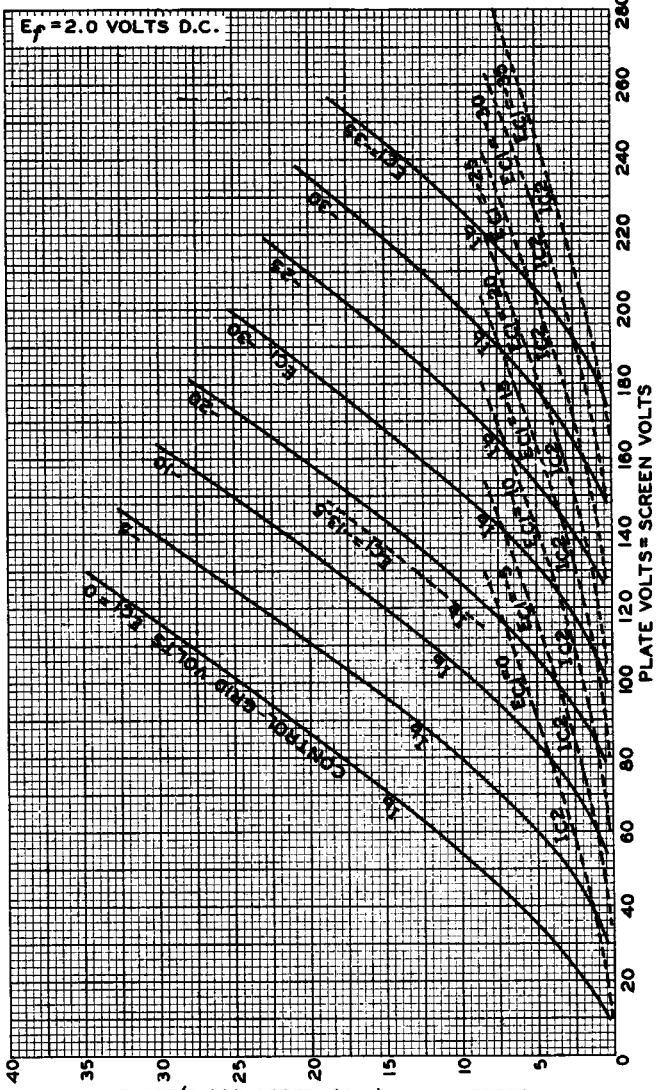
AVERAGE CHARACTERISTICS



MAY 5, 1932

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