



70L7-GT

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RECTIFIER-BEAM POWER AMPLIFIER

Heater	Coated Unipotential Cathodes
Voltage	70 a-c or d-c volts
Current	0.15 amp.
Maximum Overall Length	3-7/16" ←
Maximum Seated Height	2-7/8" ←
Maximum Diameter	1-5/16"
Bulb	T-9
Base	Intermed. Sh. Octal 8-Pin
Pin 1 - Rectifier Cath.	Pin 5 - Amplifier Grid
Pin 2 - Heater	Pin 6 - Amplifier Cath.
Pin 3 - Amplifier Plate	Pin 7 - Heater
Pin 4 - Amplifier Screen	Pin 8 - Rectifier Plate
Mounting Position	Any



BOTTOM VIEW (8AA)

AMPLIFIER UNIT

Plate Voltage	117 max.	volts
Screen Voltage	117 max.	volts
Plate Dissipation	5.0 max.	watts
Screen Dissipation	1.0 max.	watt
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>		
Plate	110	volts
Screen	110	volts
Grid*	-7.5	volts
Peak A-F Grid Voltage	7.5	volts
Zero-Signal Plate Cur.	40	ma.
Max.-Signal Plate Cur.	43	ma.
Zero-Signal Screen Cur.	3 approx.	ma.
Max.-Signal Screen Cur.	6 approx.	ma.
Plate Resistance	15000	ohms
Transconductance	7500	μmhos
Load Resistance	2000	ohms
Total Harmonic Distortion	10	%
Max.-Signal Power Output	1.8	watts

RECTIFIER UNIT

Peak Inverse Voltage	350 max.	volts
Peak Plate Current	420 max.	ma.
D-C Heater-Cathode Potential	175 max.	volts
<i>With Condenser-Input Filter:</i>		
A-C Plate Voltage (RMS)	117 max.	volts
Total Effective Plate-Supply Impedance [▲]	15 min.	ohms
D-C Output Current	70 max.	ma.

■ It is recommended that the potential difference between heater and cathode of the amplifier unit be kept as low as possible by connecting pin #2 to the side of the line opposite that to which pins #7 & #8 are connected.

* The type of input coupling used should not introduce too much resistance in the grid circuit. Transformer- or impedance-coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not higher than 0.5 megohm.

▲ When a filter-input condenser larger than 40 μf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

← Indicates a change.

Dec. 1, 1941

RCA RADIODIVISION
RCA MANUFACTURING COMPANY, INC.

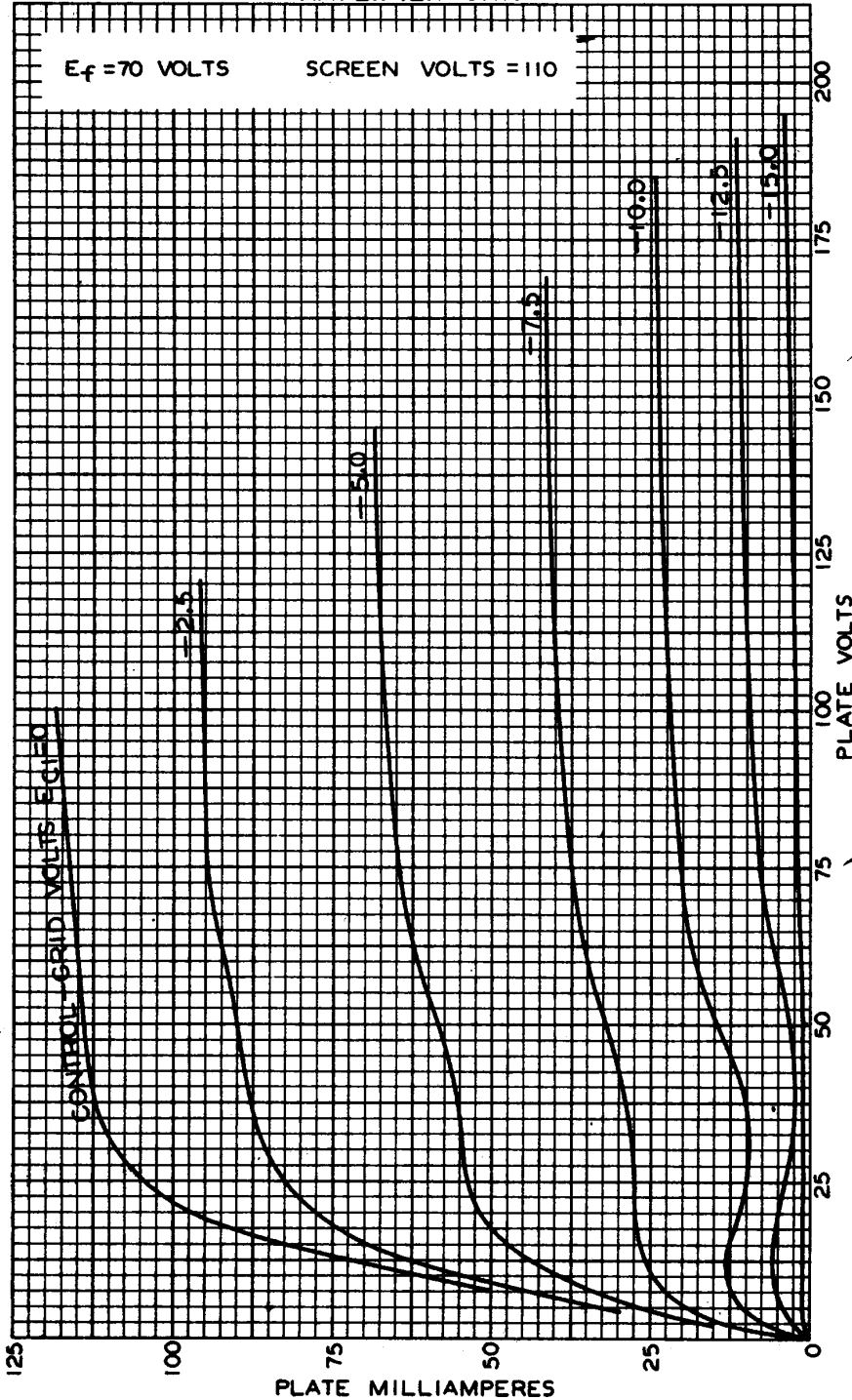
DATA

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AVERAGE PLATE CHARACTERISTICS AMPLIFIER UNIT



SEPT. 26, 1941

PLATE MILLIAMPERES

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6323