



12L8-GT

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TWIN-PENTODE POWER AMPLIFIER

Heater Coated Unipotential Cathode
 Voltage 12.6 a-c or d-c volts
 Current 0.15 amp.

Direct Interelectrode Capacitances (Approx.):⁰

	Pentode Unit P ₁	Pentode Unit P ₂	
Grid to Plate	0.7	0.7	μμf
Input	5.0	5.0	μμf
Output	6.0	6.0	μμf
Grid to Grid		0.08	μμf
Plate to Plate		1.5	μμf
Grid P ₁ to Plate P ₂		0.2	μμf
Grid P ₂ to Plate P ₁		0.1	μμf

Maximum Overall Length 3-5/16"

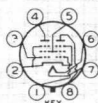
Maximum Seated Height 2-3/4"

Maximum Diameter 1-5/16"

Bulb T-9

Base

Intermediate Shell Octal 8-Pin

Pin 1-Grid P₁Pin 2- { Cathode, Suppressor P₁ & P₂Pin 3-Grid P₂Pin 4-Plate P₂Pin 5-Screen P₁ & P₂

Pin 6-Heater

Pin 7-Heater

Pin 8-Plate P₁

Mounting Position

BOTTOM VIEW (8BU)

Any

For convenience, one pentode unit is identified as P₁; the other as P₂.

Maximum Ratings Are Design-Center Values

AMPLIFIER - Each Unit

Plate Voltage	180 max. volts
Screen Voltage	180 max. volts
Plate Dissipation	2.5 max. watts
Screen Dissipation	1.0 max. watt
D-C Heater-Cathode Potential	100 max. volts

Typical Operation and Characteristics - Class A₁ Amplifier:

Plate Voltage	180	volts
Screen Voltage	180	volts
Grid Voltage (Grid No. 1)	-9	volts
Peak A-F Grid Voltage	9	volts
Zero-Sig. Plate Cur.	13	ma.
Max.-Sig. Plate Cur.	13.5	ma.
Zero-Sig. Screen Cur.	2.8	ma.
Max.-Sig. Screen Cur.	4.6	ma.
Plate Resistance	0.16	megohm
Transconductance	2150	μmhos
Load Resistance	10000	ohms
Power Output (Total harmonic dist. 10%)	1.0	watt

⁰ With no external shield.

OCT. 1, 1943

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

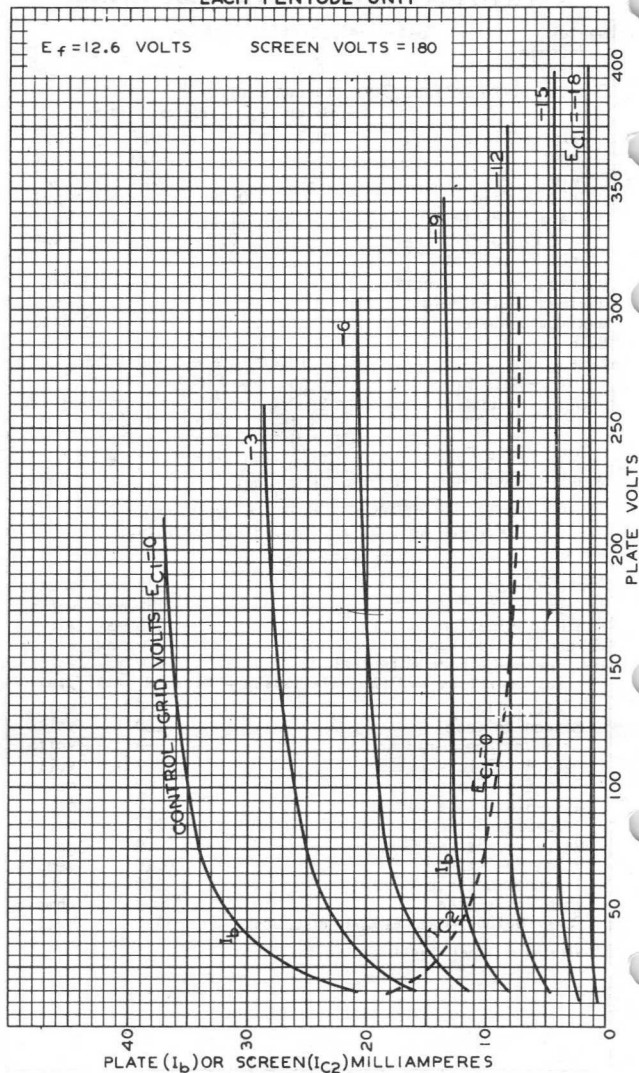
DATA

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AVERAGE PLATE CHARACTERISTICS EACH PENTODE UNIT



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92C-6391