



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.):^o

	Pentode Unit P_1	Pentode Unit P_2	
Grid to Plate	0.7	0.7	μf
Input	5.0	5.0	μf
Output	6.0	6.0	μf
Grid to Grid	0.08		μf
Plate to Plate	1.5		μf
Grid P_1 to Plate P_2	0.2		μf
Grid P_2 to Plate P_1	0.1		μf

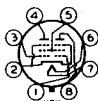
Maximum Overall Length 3-5/16"

Maximum Seated Height 2-3/4"

Maximum Diameter 1-5/16"

Bulb T-9

Base Intermediate Shell Octal 8-Pin

Pin 1-Grid P_1 Pin 2- $\left\{ \begin{array}{l} \text{Cathode,} \\ \text{Suppressor } P_1 \text{ \& } P_2 \end{array} \right.$ Pin 3-Grid P_2 Pin 4-Plate P_2 Pin 5-Screen P_1 & P_2

Pin 6-Heater

Pin 7-Heater

Pin 8-Plate P_1

Mounting Position

BOTTOM VIEW (8BU)

Any

For convenience, one pentode unit is identified as P_1 ; the other as P_2 .

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 A_1 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

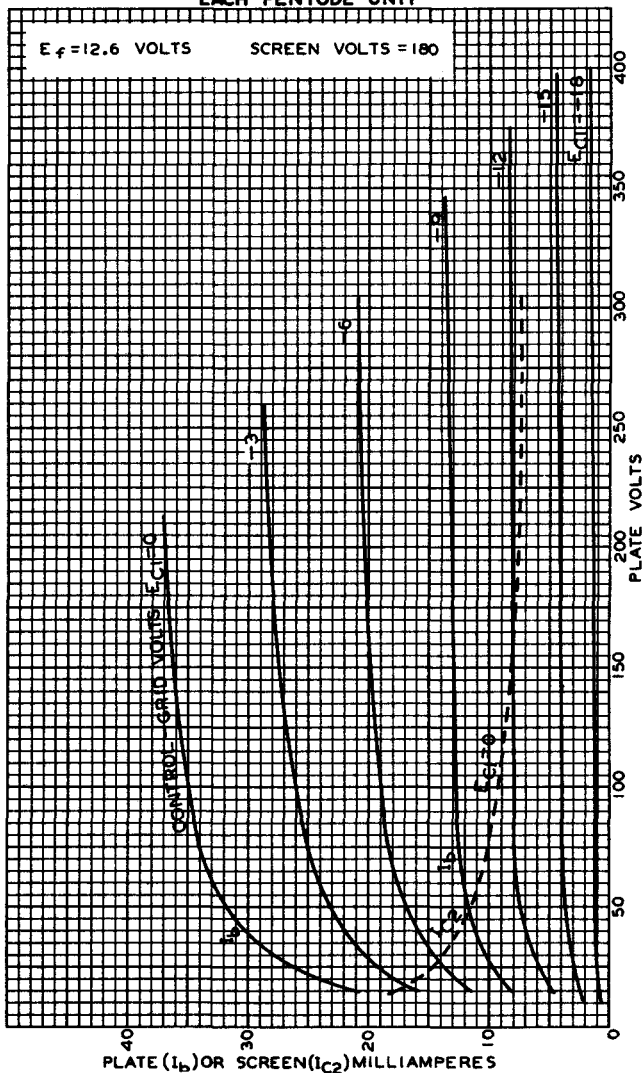
^o with no external shield.

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AVERAGE PLATE CHARACTERISTICS EACH PENTODE UNIT



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