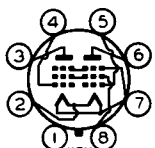




IE7-G

TWIN PENTODE POWER AMPLIFIER

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.24	amp.
Maximum Overall Length		4-1/8"
Maximum Diameter		1-9/16"
Bulb		ST-12
Base		Small Shell Octal 8-Pin
Pin 1-No Connection		Pin 5-Grid (Pent. P_1)
Pin 2-Filament +		Pin 6-Plate (Pent. P_1)
Pin 3-Plate (Pent. P_2)		Pin 7-Filament -
Pin 4-Grid (Pent. P_2)		Pin 8-Screen (P_1 & P_2)
Mounting Position	BOTTOM VIEW (G-8C)	Any



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

CHARACTERISTICS - Each Unit

Filament	2.0	d-c volts
Plate	135	volts
Screen	135	volts
Grid	-4.5	volts
Plate Res. (approx.)	0.26	megohm
Transcond.	1425	μ mhos
Plate Cur.	7.5	ma.
Screen Cur.	2.2	ma.

PUSH-PULL AMPLIFIER - Class A_1

Plate Voltage	135 max. volts
Screen Voltage	135 max. volts

Typical Operation:

Values are for the two units

Filament Voltage	2.0	d-c volts
Plate Voltage	135	volts
Screen Voltage	135	volts
Grid Voltage*	-7.5	volts
Peak A-F Grid-to-Grid Voltage	15	volts
Zero-Sig. Plate Current (approx.)	7	ma.
Max.-Sig. Plate Current (approx.)	10.5	ma.
Zero-Sig. Screen Current (approx.)	2	ma.
Max.-Sig. Screen Current (approx.)	3.5	ma.
Load Resistance (plate to plate)	24000	ohms
Total Harmonic Distortion	5.5	%
Third Harmonic Distortion	4.5	%
Max.-Sig. Power Output**	0.575	watt

** A power output of 1.0 watt with 10% distortion can be obtained in class A_2 operation with a peak a-f grid-to-grid voltage of 21 volts.

♦ Horizontal operation is permissible if pins 2 and 7 are in a vertical plane.

* The d-c resistance in the grid circuit should be limited to 1.0 megohm with cathode bias, or 0.5 megohm with fixed bias.