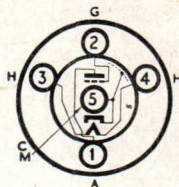


HLA2 PA1 PENAI



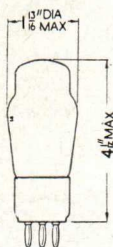
Replacement Type

TYPE HLA2 (ENGLISH BASE) GENERAL PURPOSE TRIODE



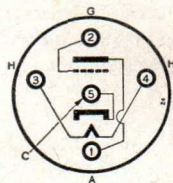
CHARACTERISTICS

Heater Voltage	...	4.0 volts	Cathode Bias Resistor	...	400 ohms
Heater Current	...	1.0 amp.	Anode Impedance	...	9,000 ohms
Anode Voltage	...	200 volts	Mutual Conductance	...	5.5 mA/V
Anode Current	...	6.0 mA	Amplification Factor	...	50
Grid Voltage	...	-2.5 volts			



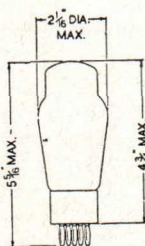
Replacement Type

TYPE PA1 (ENGLISH BASE) POWER TRIODE



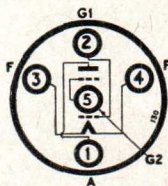
CHARACTERISTICS

Heater Voltage	...	4.0 volts	Cathode Bias Resistor	...	260 ohms
Heater Current	...	1.0 amp.	Anode Impedance	...	1,050 ohms
Anode Voltage	...	200 volts	Mutual Conductance	...	12 mA/V
Anode Current	...	40 mA	Optimum Load	...	4,000 ohms
Grid Voltage	...	-9 volts	Power Output	...	1.8 watts



Replacement Type

TYPE PENAI (ENGLISH BASE) POWER PENTODE



CHARACTERISTICS

Filament Voltage	...	4.0 volts	Control Grid (G1) Voltage	...	-16.5 volts
Filament Current	...	1.0 amp.	Cathode Bias Resistor	...	450 ohms
Anode Voltage	...	250 volts	Mutual Conductance	...	3.0 mA/V
Anode Current	...	32 mA	Optimum Load	...	8,000 ohms
Screen (G2) Voltage	...	250 volts	Power Output	...	2.7 watts
Screen Current	...	6.5 mA			