

Mullard

OUTPUT PENTODE

Pen4VA

The Pen4VA is an indirectly heated pentode capable of giving a large output in A.C. mains receivers.

HEATER CHARACTERISTICS

Heater Volts	...	...	$V_f = 4.0$ volts
Heater Current	...	...	$I_f = 1.35$ amps
Heating Time—40 secs.			

DIMENSIONS

Overall Length	...	= 137 mm.
Overall Diameter	...	= 50 mm.
Bulb Finish—Clear		

OPERATING DATA

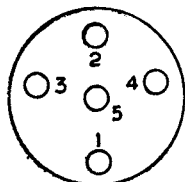
Anode Voltage	...	...	...	V_a	= 250 volts
Auxiliary Grid Voltage	...	...	...	V_{g2}	= 250 volts
Anode Current	...	...	...	I_a	= 36 mA
Auxiliary Grid Current	...	...	...	I_{g2}	= 3 mA
Mutual Conductance	...	...	...	S_w	= 2.8 mA/V
Anode Impedance	...	...	...	R_i	= 40,000 ohms
Optimum Load	...	...	...	R_a	= 6,000 ohms
Audio Output ($D = 10\%$ Total)	...	...	...	W_o	= 3.8 watts
Cathode Bias Resistance	...	...	...	R_k	= 500 ohms

LIMITS

Maximum Anode Voltage	...	...	...	$V_{a_{max}}$	= 250 volts
Maximum Anode Dissipation	...	...	...	$W_{a_{max}}$	= 9 watts
Maximum Cathode Current	...	...	...	$I_{k_{max}}$	= 50 mA
Maximum Auxiliary Grid Voltage	...	...	...	$V_{g2_{max}}$	= 250 volts
Maximum Auxiliary Grid Dissipation	...	...	...	$W_{g2_{max}}$	= 1.5 watts
Maximum Resistance in Grid Circuit (with auto bias)	...	...	...	$R_{g1a_{max}}$	= 0.7 megohm
Maximum Resistance in Grid Circuit (with fixed bias)	...	...	...	$R_{g1f_{max}}$	= 0.3 megohm
Maximum Voltage Heater-Cathode	...	...	...	$V_{fk_{max}}$	= 50 volts

CONNECTIONS

For Valves Capped in 5-pin B.V.A. Base

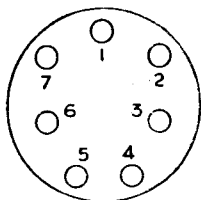


Viewed from free end of pins.

Pin No. 1	Anode
„ 2	Control Grid (G_1)
„ 3	Heater
„ 4	Heater
„ 5	Cathode
Side Terminal—Aux. Grid (G_2)	

CONNECTIONS

For Valves Capped in 7-pin B.V.A. Base



Viewed from free end of pins.

Pin No. 1 —

- „ 2 Control Grid (G1)
- „ 3 Auxiliary Grid (G2)
- „ 4 Heater
- „ 5 Heater
- „ 6 Cathode
- „ 7 Anode

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