

Maximum Dimensions:
Overall length (including pins)
135 m/m.
Diameter of bulb 58 m/m.

# Osram Valves

Made in England.

## TYPE MPT4

#### PENTODE POWER AMPLIFYING VALVE

With Indirectly Heated Cathode (For operation from A.C. mains).

The OSRAM MPT4 is a Power Amplifying Pentode for use in the output stage of A.C. Receivers. It is capable of giving a large power output with a relatively small input signal voltage. For this reason the MPT4 should be restricted to use in sets using only one stage of Low Frequency Amplification before it.

#### CHARACTERISTICS.

Heater Volts Heater Current			• •	• •	 Max.		4.0 1.0 amp. approx.
Anode Volts					 250		
Screen Grid Volts					 200		6100
Amplification Factor					 		$\int 100$
Impedance							33,000 ohms.
Mutual Conductance		• •			 	• •	at Anode Volts 100, Screen Grid Volts 100, Grid Volts 0.
Negative Grid Bias					 10 volt		prox.
Automatic Bias Resis					270 oh:		
Anode Current average	ge				 32 m.a		
Screen Current avera					 6 m.a.		
Optimum Load Resis	tance				 8,000 o		
Anode Dissipation	• •	• •			 8 watts	s maz	<b>Υ</b> .

### For prices see pages 126-129.

Views looking on underside of valve base.

ALTERNATIVE BASES.

7-PIN.		5-F	PIN.
1:		1:	Anode
2:	Grid	2:	Grid
3:	Screen Grid	3:	Heater
4:	Heater	4:	Heater
5:	<b>Hea</b> ter	5;	Cathode
6:	Cathode	Side	Terminal: Screen Grid.
7.	Anode		

Type MPT4 has a carbonised bulb.

#### TYPICAL OPERATING CONDITIONS.

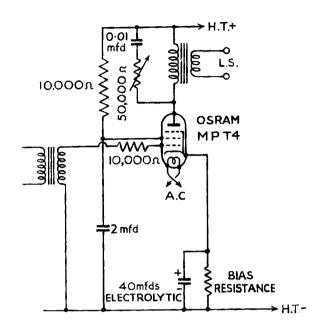
It is recommended that a filter circuit be employed, as shown in the diagram, in order to prevent over-emphasis of the higher audio frequencies. The screen voltage should be obtained by connecting the screen grid to the H.T. supply through a suitable resistance, and a non-inductive condenser connected from screen grid to cathode to provide a de-coupling circuit.

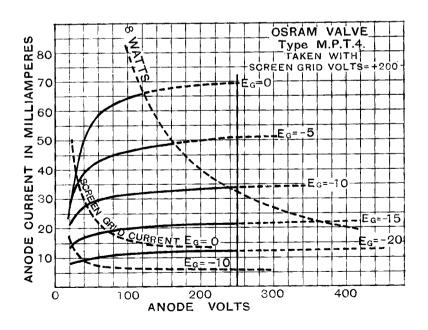
The total resistance in this grid circuit should not exceed 500,000 ohms, and full auto-

matic grid bias is recommended.

Care should be taken that the anode circuit is never broken while the screen voltage is applied.

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CHARACTERISTIC CURVES OF AVERAGE VALVE.