

Made in England



Maximum Dimensions: Overall length (including pins) 140 m/m Diameter of bulb 45 m/m.

Heater Volts .. ..

## TYPE VMP4G

### VARIABLE MU SCREEN PENTODE

With Indirectly Heated Cathode

(For operation from A.C. Mains).

The OSRAM VMP4G is a Variable Mu Screen Pentode suitable for use in the High Frequency or Intermediate Frequency Amplifying portions of a receiver.

An important feature of the VMP4G is the low value of anode-grid interelectrode capacity. This, in conjunction with the pentode characteristic affords a means of obtaining considerable voltage magnification in the valve and its associated tuned circuit, while at the same time maintaining stability of operation and minimum feed-back.

#### CHARACTERISTICS.

.. .. .. .. 4.0

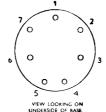
Heater Current		 		1.0 a	amp, approx.		
1100000				Recommended			
				Max.	Operating Condition. 250 100		
Anode Volts		 		250			
	• •			100			
Screen Volts		 	• •	100			
Control Grid Volts		 			-2	-20	
Anode Current average		 			8.0 m.a.	and a second	
Screen Current average		 			5.0 m.a.	-	
Fixed Bias Resistance		 			150  ohms		
					2.7 ma/volt	0.01 ma/volt	
Mutual Conductance		 			2.7 mayvort	0.01 majvore	
Interelectrode Can	acities :-						

Interelectrode Capacit Grid-Anode (others earthed) Anode—other electrodes Grid—other electrodes

0.0026 micro-microfarad approx. 8.7 14.0

BASE, 7-PIN.

For prices see pages 126-129.



1: Metallising.

2: Grid.

3: Suppressor Grid.

4: Heater. 5: Heater.

6: Cathode.

7: Screen Grid.

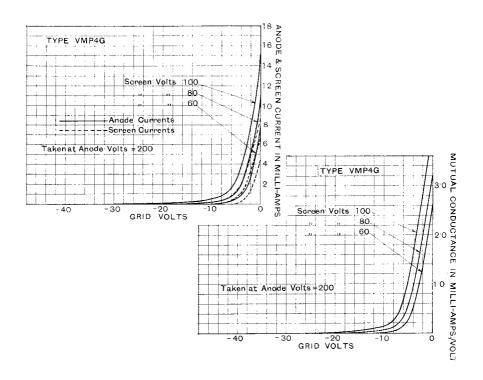
Top Cap: Anode.

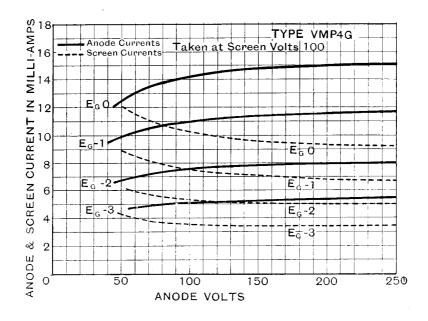
Supplied in metallised bulb only.

## RECOMMENDED OPERATING CONDITIONS.

It is recommended that a potentiometer network should be employed in order to maintain the screen voltage at a constant potential with variation to grid bias. In some cases, however, such as in the second stage of an I.F. amplifier, a greater voltage output can be obtained by feeding the screen grid through a dropping resistance. This allows the screen voltage to rise and thus increases the grid base and available output with increasing grid bias or signal strength. When used as a controlled valve in A.V.C. circuits it is recommended that any grid resistance employed for decoupling purposes should have a value not exceeding 0.5 megohm.

# TYPE VMP4G





CHARACTERISTIC CURVES OF AVERAGE VALVE.