

Osram Valves

Made in England.



Maximum Dimensions :
Overall length (including pins)
140 m/m.

Diameter of bulb
45 m/m.

TYPE MS4B

SCREEN GRID AMPLIFYING AND DETECTOR VALVE

With Indirectly Heated Cathode.

(For operation from A.C. mains).

The OSRAM MS4B is a Screen Grid High Frequency amplifying valve fitted with an indirectly heated cathode. It is thus suitable for filament heating from A.C. mains through a step-down transformer without introducing objectionable hum.

The characteristics of the MS4B are designed to provide a high degree of magnification in sets employing one stage of High Frequency Amplification. It is also suitable as a Detector. The screen voltage must be supplied from a potentiometer and not by means of a dropping resistance.

CHARACTERISTICS.

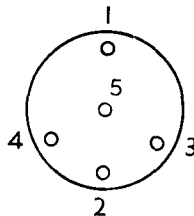
Heater Volts	4.0		
Heater Current	1.0 amp. approx.		
	Max.		
Anode Volts	250 ..	200	
Screen Volts	80 ..	80	
Grid Volts	-1		
(for operation in amplifier)			
Anode Current average	3.4 m.a.		
Screen Current average	1.2 m.a.		
Amplification Factor		1,120	
Impedance		350,000 ohms.	
Mutual Conductance		3.2 ma/volt measured at grid volts 0.	
Automatic Bias Resistance in Amplifier	250 ohms.		
" " As self-biased Anode Bend Detector	15,000 ohms.		
Optimum Load Resistance in Amplifier and as Grid Leak Detector	30,000 ohms.		
" " as self-biased Anode Bend Detector	400,000 ohms.		

Interelectrode Capacities :—

Anode-Grid (others earthed)	0.0023 micro-microfarad approx.
Grid—other electrodes	12.0 " " "
Anode—other electrodes	7.3 " " "

(taken on metallised valve).

For prices see
pages 126-129:



BASE, 5-PIN.

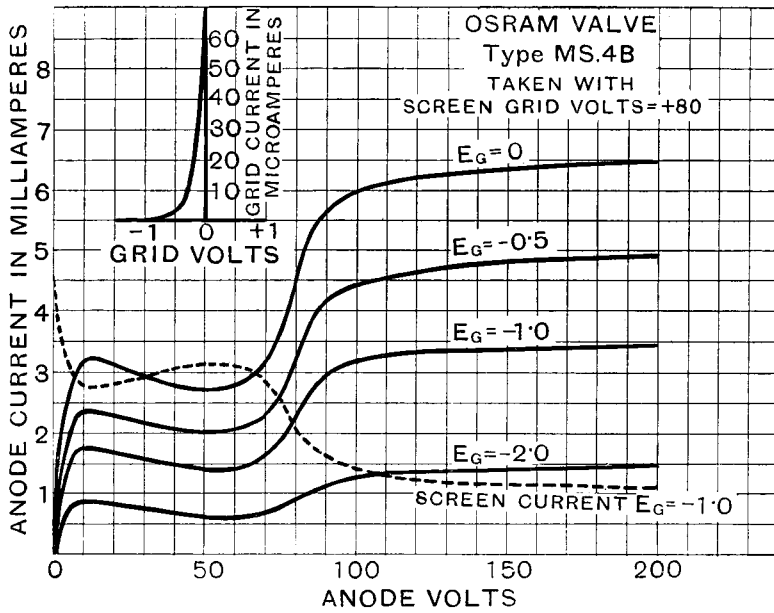
- 1: Screen
- 2: Grid
- 3: Heater
- 4: Heater
- 5: Cathode and Metallising

Top Cap: Anode

View looking on
underside of base.

Type MS4B is supplied with either clear or metallised bulb, according to requirements.

TYPE MS4B



CHARACTERISTIC CURVES OF AVERAGE VALVE.