Osram Valves

Type VMS4
Type VMS4B

"VARIABLE MU"
SCREEN GRID HIGH FREQUENCY
AMPLIFYING VALVES
With Indirectly Heated Cathode
(For operation from A.C. mains).

The OSRAM VMS4 is a screen grid valve with characteristics primarily designed to reduce cross modulation and to permit easy control of a large range of signal input voltages.

It is intended to be employed as a screen grid H.F. or Intermediate Frequency amplifier in which the volume control is affected by means of variation to grid bias.

The maximum mutual conductance may conveniently be limited to any desired extent by choice of the fixed value of bias resistance in the cathode lead.

Particular features of the Osram VMS4 are linearity of the characteristic, extremely low grid-anode capacity, and long operating grid base.

Features of the OSRAM VMS4B are high grid volt-mutual conductance ratio, giving full control of magnification with relatively small grid bias, linearity of characteristic, extremely low grid-anode capacity, and high value of maximum conductance.

**CHARACTERISTICS.**

<table>
<thead>
<tr>
<th>VMS4</th>
<th>VMS4B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Volts</td>
<td>4.0</td>
</tr>
<tr>
<td>Heater Current</td>
<td>1.0 amp. approx.</td>
</tr>
<tr>
<td>Anode Volts</td>
<td>250 max.</td>
</tr>
<tr>
<td>Screen Volts</td>
<td>80 max.</td>
</tr>
<tr>
<td>Grid Volts</td>
<td>0 -1 -3 -40</td>
</tr>
<tr>
<td>Anode Current average</td>
<td>14.0 11.0 7.5 0.08 ma.</td>
</tr>
<tr>
<td>Screen Current average</td>
<td>3.0 2.5 1.7 -</td>
</tr>
<tr>
<td>Mutual Conductance</td>
<td>2.4 2.1 1.5 0.04 mA/v</td>
</tr>
<tr>
<td>Fixed Bias Resistance</td>
<td>50 300 ohms</td>
</tr>
</tbody>
</table>

**Interelectrode Capacities:**

Grid-Anode (others earthed) 0.0024 micro-microfarad approx.
Grid—other electrodes 11.25"
Anode—other electrodes 7.7"
(taken on metallised valve).

**BASE, 5-PIN.**

1: Screen
2: Grid
3: Heater
4: Heater
5: Cathode & Metallising
Top Cap: Anode

For prices see pages 126-129.

View looking on underside of base.

Types VMS4 and VMS4B can be supplied with either clear or metallised bulbs, according to requirements.