Primarily designed for use as an RF amplifier and mixer in FM receivers.

**BASE CONNECTIONS AND VALVE DIMENSIONS**

Base: B9A
Bulb: Tubular

Max. overall length: 56mm
Max. seated length: 49mm
Max. diameter: 22.2mm

**HEATER**

<table>
<thead>
<tr>
<th>$V_h$ (V)</th>
<th>$I_h$ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3</td>
<td>0.435</td>
</tr>
</tbody>
</table>

**MAXIMUM RATING** (Per system unless otherwise indicated)

- $V_a$: 300 V
- $P_a$: 2.5 W
- $P_a' + P_a''$: 4.5 W
- $I_k$: 15 mA
- $R_{g-k}$: 1 MΩ
- $V_{h-k}$: 90 V

**CAPACITANCES**

$c_{a-g}$ (each section): 1.5 pF
$c_{e-g}$: < 0.4 pF
$c_{g-k'}$: < 3 pF
$c_{g-k''}$: < 3 pF

**TYPICAL OPERATION (RF Amplifier)**

- $V_a$: 230 V
- $I_a$: 10 mA
- $V_g$: -2 V
- $g_m$: 6 mA/V
- $r_a$: 9.7 kΩ
- $\mu$: 58
- $r_{in}$ (at 100 Mc/s): 6 kΩ

- $P_e = 2.5$ W
- $V_{g} = 0$ V

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**MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED**