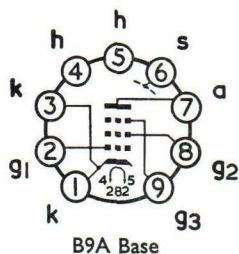


### V.H.F. PENTODE



### GENERAL

This pentode is suitable for use in the I.F. and video stages of television receivers.

|                |           |   |
|----------------|-----------|---|
| Heater Voltage | $V_h$ 6.3 | V |
| Heater Current | $I_h$ 0.3 | A |

### RATINGS

|                                   |                |      |   |
|-----------------------------------|----------------|------|---|
| Maximum Anode Dissipation         | $P_a(max)$     | 2.75 | W |
| Maximum Screen Grid Dissipation   | $P_{g2}(max)$  | 1.2  | W |
| Maximum Anode Voltage             | $V_a(max)$     | 275  | V |
| Maximum Screen Grid Voltage       | $V_{g2}(max)$  | 275  | V |
| Maximum Heater to Cathode Voltage | $V_{h-k}(max)$ | 150  | V |
| D.C. or Peak A.C.                 |                |      |   |

### INTER-ELECTRODE CAPACITANCES\*

|                       |            |       |    |
|-----------------------|------------|-------|----|
| Input                 | $C_{in}$   | 9.5   | pF |
| Output                | $C_{out}$  | 3.5   | pF |
| Control Grid to Anode | $C_{g1-a}$ | <0.01 | pF |

\* Measured without an external shield.

### TYPICAL OPERATION ( $g_3$ connected to Cathode)

|                                                      |                   |      |      |            |
|------------------------------------------------------|-------------------|------|------|------------|
| Anode Voltage                                        | $V_a$             | 180  | 250  | V          |
| Screen Grid Voltage                                  | $V_{g2}$          | 180  | 250  | V          |
| Anode Current                                        | $I_a$             | 9.5  | 9.5  | mA         |
| Screen Grid Current                                  | $I_{g2}$          | 3.5  | 3.5  | mA         |
| Cathode Bias Resistance                              | $R_k$             | 100  | 180  | $\Omega$   |
| Mutual Conductance                                   | $g_m$             | 9.3  | 8.5  | mA/V       |
| Valve Anode Resistance ( $\delta V_a / \delta I_a$ ) | $r_a$             | 600  | 750  | k $\Omega$ |
| Inner Amplification Factor                           | $\mu_{g1-g2}$     | 70   | 70   |            |
| Input Impedance at 50 MHz                            |                   | 14   | 16   | k $\Omega$ |
| Control Grid Voltage for $I_a = 0$                   | $V_{g1}(I_a = 0)$ | -7.0 | -8.0 | V          |

