

# SHORT WAVE R.F. PENTODE

# EF54

Single-ended R.F. pentode with high mutual conductance and sharp cut-off.

## HEATER

|       |     |   |
|-------|-----|---|
| $V_h$ | 6.3 | V |
| $I_h$ | 0.3 | A |

## CAPACITANCES

|               |      |            |
|---------------|------|------------|
| $c_{in}$      | 6.2  | $\mu\mu F$ |
| $c_{out}$     | 4.9  | $\mu\mu F$ |
| $c_{a-g_1}$   | 0.02 | $\mu\mu F$ |
| $c_{g_1-g_2}$ | 2.2  | $\mu\mu F$ |

## OPERATING CONDITIONS

|                               |        |            |
|-------------------------------|--------|------------|
| $V_a$                         | 250    | V          |
| $V_{g_2}$                     | 250    | V          |
| $V_{g_1}$                     | -1.7   | V          |
| $R_k$                         | 150    | $\Omega$   |
| $I_a$                         | 10     | mA         |
| $I_{g_2}$                     | 1.45   | mA         |
| $g_m$                         | 7.7    | mA/V       |
| $r_a$                         | 0.5    | M $\Omega$ |
| $\mu_{g_1-g_2}$               | 80     |            |
| Equivalent Noise Resistance   | 700    | $\Omega$   |
| Input Resistance (at 50 Mc/s) | 10,000 | $\Omega$   |

## LIMITING VALUES

|                                           |        |            |
|-------------------------------------------|--------|------------|
| $V_{a(b)} \text{ max}$                    | 550    | V          |
| $V_a \text{ max}$                         | 300    | V          |
| $W_a \text{ max}$                         | 3      | W          |
| $V_{g_2(b)} \text{ max}$                  | 550    | V          |
| $V_{g_2} \text{ max}$                     | 300    | V          |
| $W_{g_2} \text{ max}$                     | 1.7    | W          |
| $I_k \text{ max}$                         | 15     | mA         |
| $V_{g_1} \text{ max} (I_{g_1}=+0.3\mu A)$ | -1.3   | V          |
| $R_{g_1} \text{ max}$                     | 3      | M $\Omega$ |
| $V_{h-k} \text{ max}$                     | 100    | V          |
| $R_{h-k} \text{ max}$                     | 20,000 | $\Omega$   |
| Max. Operating Frequency                  | 250    | Mc/s       |



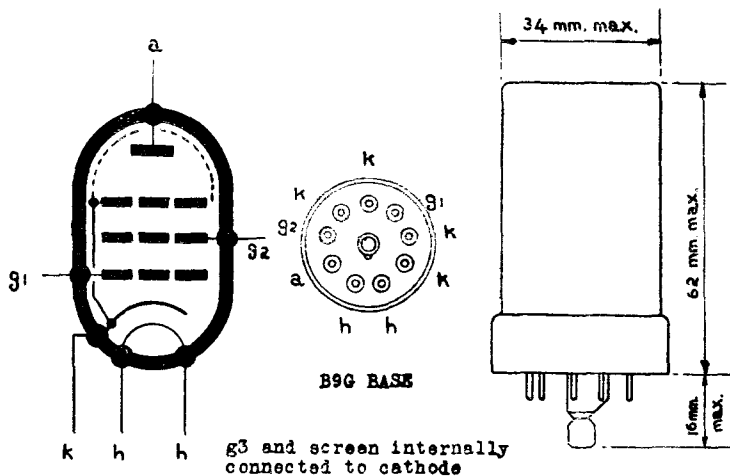
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ARRANGEMENT OF ELECTRODES  
AND BASE CONNECTIONS

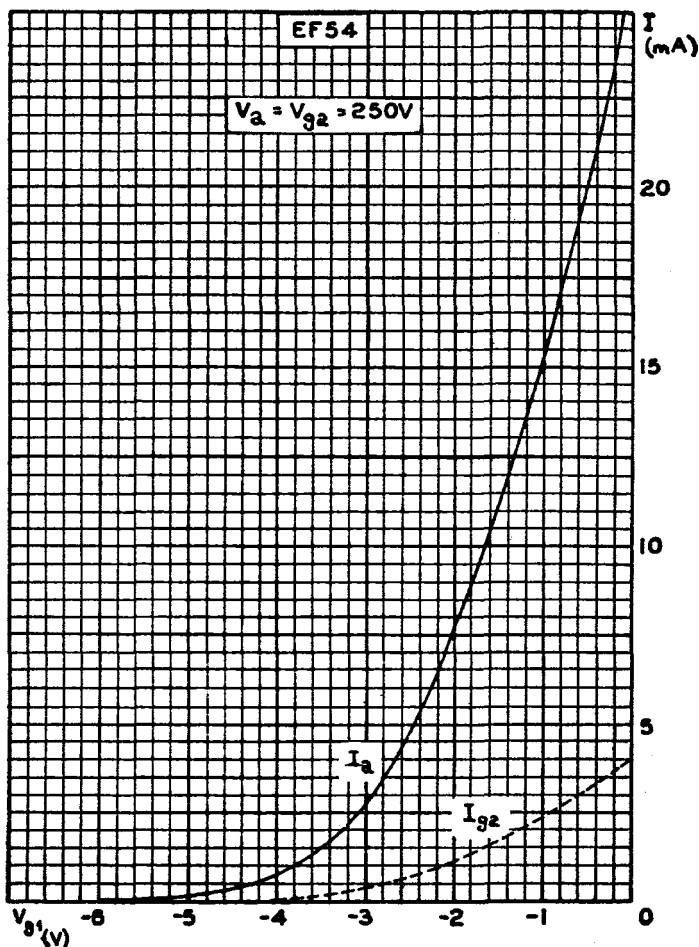
DIMENSIONS



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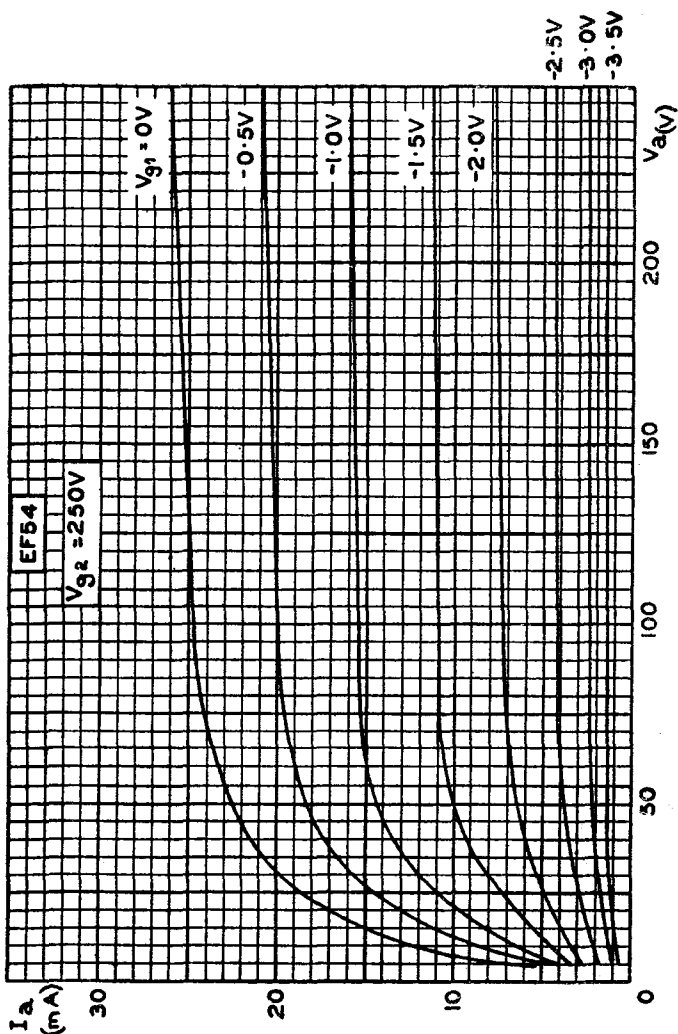
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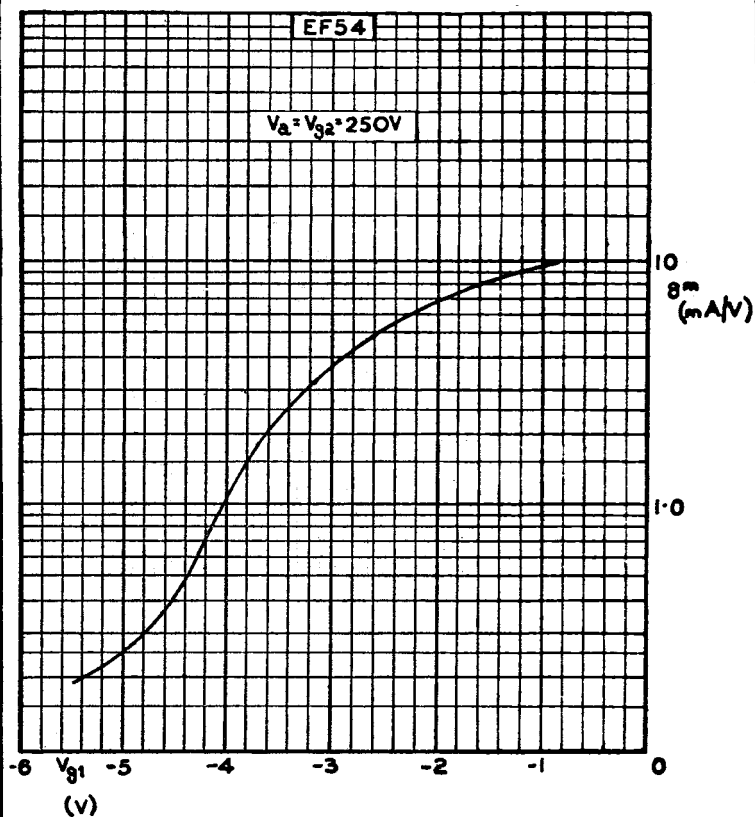
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