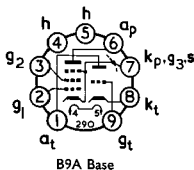
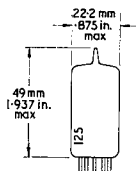


MAINTENANCE TYPE

BRIMARTRIODE
PENTODE

B9A Base

GENERAL

This triode pentode is intended for use in wide band amplifiers and instrumentation applications where high gain is required.

| | | | |
|----------------|-------|------|---|
| Heater Voltage | V_h | 6.3 | V |
| Heater Current | I_h | 0.45 | A |

RATINGS

| | | Triode | Pentode | |
|--|-----------------|--------|---------|------------|
| Maximum Anode Dissipation | $P_{a(max)}$ | 2.0 | 1.5 | W |
| Maximum Screen Grid Dissipation | $P_{g2(max)}$ | — | 0.5 | W |
| Maximum Anode Voltage | $V_{a(max)}$ | 250 | 250 | V |
| Maximum Screen Grid Supply Voltage | $V_{g2(b)max}$ | — | 250 | V |
| Maximum Screen Grid Voltage | $V_{g2(max)}$ | — | 175 | V |
| Maximum Heater to Cathode Voltage | $V_{h-k(max)}$ | 150 | 150 | V |
| Maximum Cathode Current | $I_{k(max)}$ | 20 | 20 | mA |
| Maximum Control Grid to Cathode Resistance Fixed Bias | $R_{g1-k(max)}$ | 0.5 | 0.5 | M Ω |

INTER-ELECTRODE CAPACITANCES

| | | Triode | Pentode | |
|-----------------------|------------|--------|---------|----|
| Input | C_{in} | 2.5 | 7.0 | pF |
| Output | C_{out} | 1.5 | 3.1 | pF |
| Control Grid to Anode | C_{g1-a} | 1.8 | <0.02 | pF |
| Heater to Cathode | C_{h-k} | 3.0 | 3.7 | pF |

CHARACTERISTICS

| | | Triode | Pentode | |
|--|---------------------------|--------|---------|------------|
| Anode Voltage | V_a | 150 | 150 | V |
| Screen Grid Voltage | V_{g2} | — | 150 | V |
| Control Grid Voltage | V_{g1} | -1.5 | -2.0 | V |
| Anode Current | I_a | 13.5 | 7.0 | mA |
| Screen Grid Current | I_{g2} | — | 2.2 | mA |
| Mutual Conductance | g_m | 7.2 | 11 | mA/V |
| Valve Anode Resistance ($\delta v_a / \delta i_a$) | r_a | 5.3 | 350 | k Ω |
| Amplification Factor | μ | 38 | — | |
| Inner Amplification Factor | μ_{g1-g2} | — | 55 | |
| Control Grid Voltage for $I_a = 100 \mu A$ | $V_{g1}(I_a = 100 \mu A)$ | — | -3.5 | V |

ECF804 Equivalent
CV5948