

ELECTRO-HARMONIX EF86EH

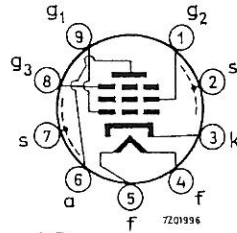
AUDIO SMALL SIGNAL PENTODE

HEATING: Indirect by A.C. or D.C.; series or parallel supply

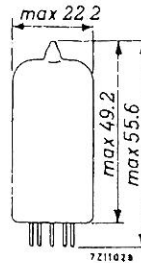
| | |
|----------------|--------------|
| Heater voltage | V_f 6.3 V |
| Heater current | I_f 200 mA |

DIMENSIONS AND CONNECTIONS

Base: Noval



Dimensions in mm



CAPACITANCES

| | |
|-------------------------------|--------------------------|
| Grid No.1 to all except anode | $C_{g1(a)}$ 3.8 pF |
| Anode to all except grid No.1 | $C_{a(g1)}$ 5.1 pF |
| Anode to grid No.1 | C_{ag1} max. 0.05 pF |
| Grid No.1 to heater | C_{g1f} max. 0.0025 pF |

TYPICAL CHARACTERISTICS

| | |
|----------------------|----------------------|
| Anode voltage | V_a 250 V |
| Grid No.3 voltage | V_{g3} 0 V |
| Grid No.2 voltage | V_{g2} 140 V |
| Grid No.1 voltage | V_{g1} -2.2 V |
| Anode current | I_a 3.0 mA |
| Grid No.2 current | I_{g2} 0.6 mA |
| Transconductance | S 2.2 mA/V |
| Amplification factor | μ_{g2g1} 38 - |
| Internal resistance | R_i 2.5 M Ω |

LIMITING VALUES (Design centre rating system)

| | |
|----------------------------|-----------------------------|
| Anode voltage | V_{a0} max. 550 V |
| | V_a max. 300 V |
| Anode dissipation | W_a max. 1.0 W |
| Grid No.2 voltage | V_{g20} max. 550 V |
| | V_{g2} max. 200 V |
| Grid No.2 dissipation | W_{g2} max. 0.2 W |
| Grid No.1 circuit resistor | |
| if $W_a < 0.2$ W | R_{g1} max. 10 M Ω |
| if $W_a > 0.2$ W | R_{g1} max. 3 M Ω |
| with grid current biasing | R_{g1} max. 22 M Ω |
| Cathode current | I_k max. 6 mA |
| Cathode to heater voltage | |
| cathode positive | V_{kf} max. 100 V |
| cathode negative | V_{kf} max. 50 V |