TAD – EL84-STR
High Performance Audio Beam Power Pentode

The TAD EL84-STR does combine best of both worlds. We did choose the thickest glass option and most heavy construction like the Russian EL84M and sonically most promising cathode and plate option to meet and exceed the tonal quality of the EL84-Cz. Finally we added the gold grid wire to limit stray characteristics and to improve overall reliability. The result is the best EL84 currently produced. No compromise!

Characteristics

Electrical

- **Heater:**
  - Voltage (AC or DC): Min. 5.8, Nom. 6.3, Max. 6.8 V
  - Current: ca. 0.76 A
- **Cathode:** Oxide-coated, unipotential
- **Cathode-to-heater potential, max.** +100 V
- **Direct interelectrode capacitances, max.**
  - Grid no. 1 to cathode and grid no.3, grid no.2, base sleeve and heater: <10.8 pF
  - Plate to cathode and grid no.3, grid no.2, base sleeve and heater: <6.5 pF
  - Grid no.1 to plate: <0.50 pF

**Mechanical**

- **Operating Position:** Any
- **Base:** noval, 9-pin
- **Dimensions:**
  - Height: 77 mm (3.031")
  - Seated height: 71 mm (2.795")
  - Diameter: 22.5 mm (0.88")
- **Cooling:** Convection
- **Approximate net weight:** 19 g (0.67 oz.)

**AF Power Amplifier**

- **Maximum ratings**
  - DC plate voltage: 420 V
  - Grid no.2 DC (screen) voltage: 300 V
  - Grid no.1 (control) voltage: -100 V
  - DC cathode current: 65 mA
  - Plate dissipation: 12 W
  - Grid no.2 DC (screen) dissipation: 2 W

**Typical Operation**

- **AF Power Amplifier, Class A1 (single tube)**
  - Plate Voltage: 250 V
  - Grid 2 Screen Voltage: 250 V
  - Grid 1 Control Voltage*: -4.8 V
  - Peak AF Grid 1 Control Voltage: 14 V
  - Zero Signal Plate Current: 49.5 mA
  - Maximum Signal Plate Current: 80 mA
  - Zero Signal Grid 2 Screen Current (avg): 10.8 mA
  - Transconductance (nominal): 9.000 mS
  - Load Resistance: 5200 Ohms
  - Output Power at 9.5% distortion: 5.7 W

* Approximate Value (set to zero signal plate current)