



TAD – EL84-STR REDBASE High Performance Audio Power Pentode

With the **TAD EL84-STR REDBASE**, we have combined the best of both worlds:
-we chose the thickest glass option for the most robust construction, like the Russian EL84M

-for the best sonic results, we chose the most promising cathode and plate material to achieve a superior tonal quality

Finally, we added the gold grid wire to limit stray characteristics and to improve overall reliability. The result is the best EL84 of current production. No compromise!

Due to its diameter of 22.5mm, the **TAD EL84-STR REDBASE** does not fit into older Marshall DSL401 and UK made VOX AC15 TBX amplifiers.

Characteristics

Electrical

| Heater: | Min. | Nom. | Max. |
|---|----------------------------|------|------------|
| Voltage (AC or DC) | 5.8 | 6.3 | 6.7 V |
| Current | | | ca. 0.78 A |
| Cathode: | Oxide-coated, unipotential | | |
| Cathode-to-heater potential, max. | | | 100 V |
| Direct interelectrode capacitances, max.*** | | | |
| Grid no.1 to cathode | | | 11.8pF |
| Grid no.1 to anode | | | 0.6 pF |
| Anode to cathode | | | 6.5pF |
| Grid no.1 to heater | | | 0.3pF |

Mechanical

| | |
|------------------------|------------------------------|
| Operating Position | vertical operation preferred |
| Base | noval, 9-pin |
| Dimensions: | |
| Height | 77 mm (3.03 in.) |
| Seated height | 70 mm (2.76 in.) |
| Diameter | 22.5 mm (0.89 in.) |
| Cooling | Convection |
| Approximate net weight | 21 g (0.74 oz.) |

***Without external shielding, nominal values

AF Power Amplifier

Maximum ratings

| | |
|------------------------------------|---------|
| DC plate voltage | 400 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 |
| Grid no. 1 Resistor fixed bias | <300kΩ |
| Grid no. 1 Resistor automatic bias | <300kΩ |

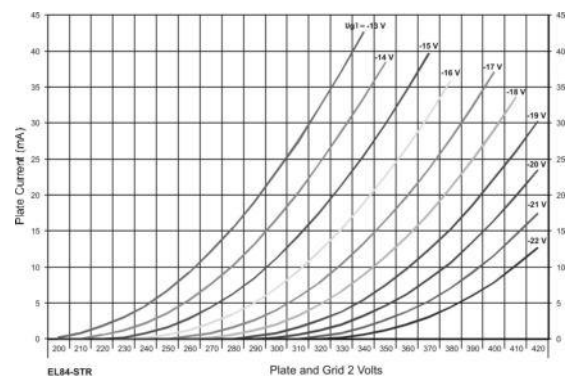
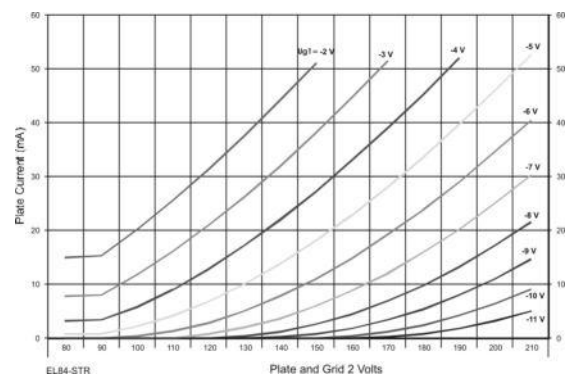
Typical Operation

AF Power Amplifier, Class A1 (single tube)

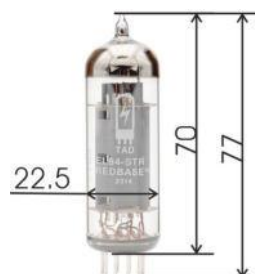
| | |
|---|-----------|
| Plate Voltage | 250 V |
| Grid 2 Screen Voltage | 250 V |
| Grid 1 Control Voltage* | -7.3 V |
| Zero Signal Plate Current | 48 mA |
| Zero Signal Grid 2 Screen Current (avg) | 4.9 mA |
| Load Resistance | 5200 Ohms |
| Transconductance (nominal) | 9500 mS |
| Output Power at 10% distortion | 5.0 W |

* Approximate Value (set to zero signal plate current)

Typical Performance EL84-STR REDBASE Curves

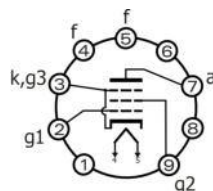


Outline View



Bottom View

Octal Base Connections



free pins not to be connected externally

