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 heasvy 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:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.8	6.3	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.)	

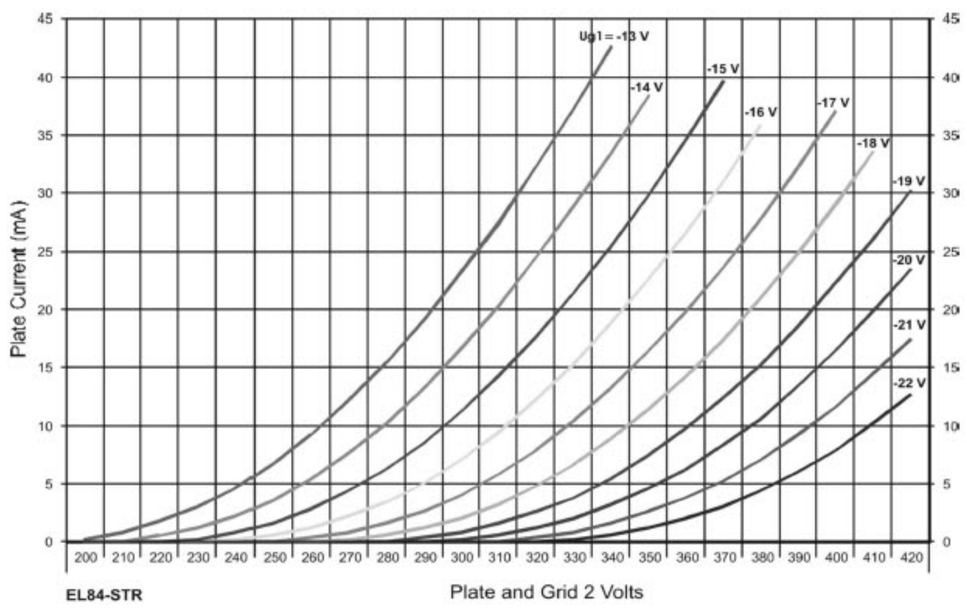
****Without external shielding, nominal values*

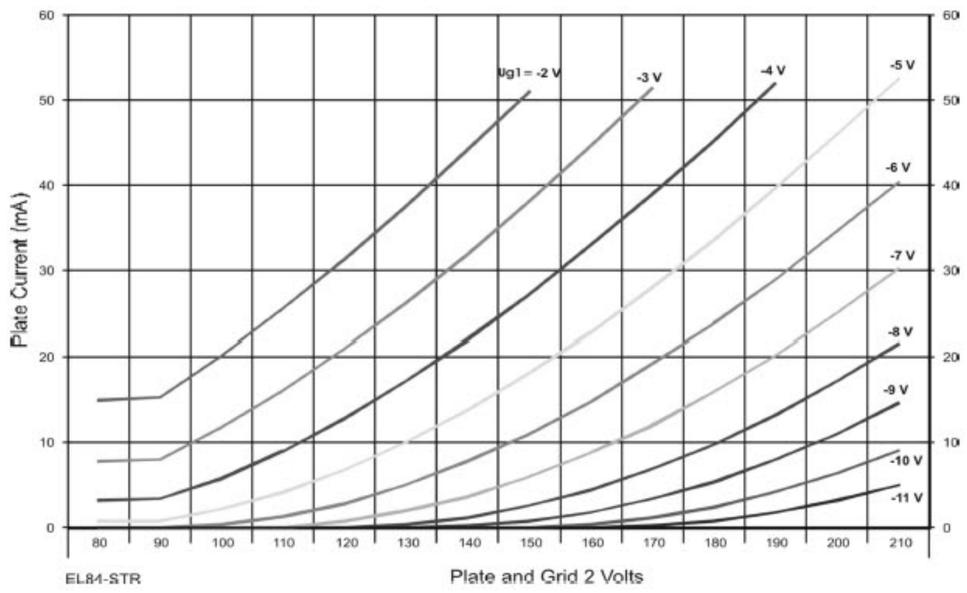
AF Power Amplifier	
Maximum ratings	
DC plate voltage	420 V
Grid no.2 DC (screen) voltage	300 V
Grid no.1 (control) voltage	- 100 V
DC cathode current	65 mA
Plate dissipation	12 W
Grid no.2 DC (screen) dissipation	2 W

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

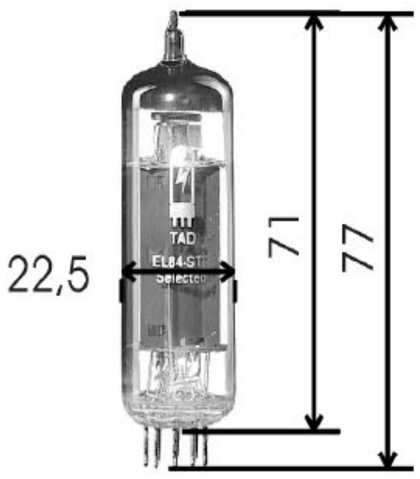
* *Approximate Value (set to zero signal plate current)*

Typical Performance EL84 Curve

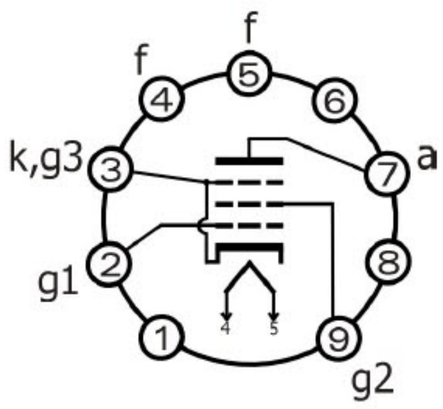




Outline View



Bottom View
Octal Base Connections



free pins not to be connected externally