



## TAD – EL34-STR REDBASE™ High Performance Audio Power Pentode

The TAD EL34-STR REDBASE™ is a glass envelope pentode with a plate dissipation rating of 25 Watts with convection cooling. It is intended for audio frequency power amplification service in either pentode, ultralinear or triode connection and single ended or push-pull/parallel applications.

The TAD EL34-STR REDBASE™ is designed to be a direct replacement for any EL34 / 6CA7 / KT77 or equivalent. Close manufacturing specification tolerances, gold wire grid, improved processing and final testing and QC at TAD in Germany provides enhanced reliability, superior sonic performance and grants overall consistency.

TAD EL34-STR REDBASE™ provides electrical and audio performance very similar to that of the original Telefunken EL34.

### Characteristics

#### Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.8	6.3	6.7	V
Current				ca. 1.5 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				<16.0 pF
Plate to cathode and grid no.3, grid no.2, base sleeve and heater				<9.0 pF
Grid no.1 to plate				<1.80 pF

#### Mechanical

Operating Position	vertical only
Base	JEDEC #8ET, octal, 8-pin
Dimensions:	
Height	115 mm (4.527")
Seated height	102 mm (4.016")
Diameter	34 mm (1.339")
Cooling	Convection
Approximate net weight	50 g (1.76oz.)

\*\*\*Without external shielding, nominal values

#### AF Power Amplifier

##### Maximum ratings

DC plate voltage	800 V
Grid no.2 DC (screen) voltage	500 V
Grid no.1 (control) voltage	-100 V
DC cathode current	150 mA
Plate dissipation	25 W
Grid no.2 DC (screen) dissipation	8 W

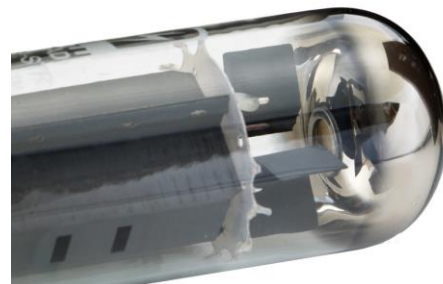
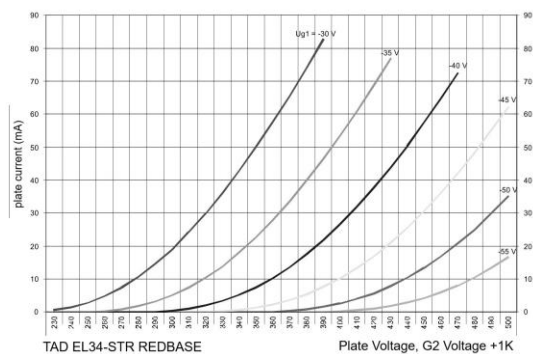
##### Typical Operation

##### AF Power Amplifier, Class A1 (single tube)

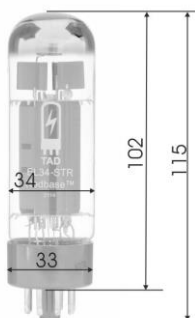
Plate Voltage	265 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-12.5 V
Peak AF Grid 1 Control Voltage	8.7 V
Zero Signal Plate Current	100 mA
Maximum Signal Plate Current	100 mA
Zero Signal Grid 2 Screen Current (avg.)	12.9 mA
Transconductance (nominal)	11,000 mS
Load Resistance	2k Ohms
Output Power at 13% distortion	10 W

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

### Typical Performance EL34-STR Curve

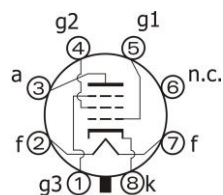


#### Outline View



#### Bottom View

##### Octal Base Connections



free pins not to be connected externally

