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.)	

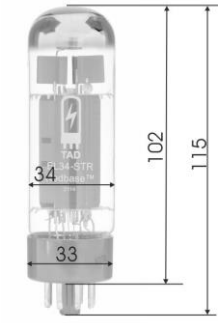
****Without external shielding, nominal values*

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

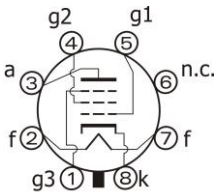
** Approximate Value (set to zero signal plate current)*

Outline View



Bottom View

Octal Base Connections



free pins not to be connected externally

Typical Performance EL34-STR Curve