

TAD – 6L6WGC-STR REDBASE™ High Performance Audio Beam Power Pentode



The TAD 6L6WGC-STR REDBASE™ is a glass envelope beam pentode with a plate dissipation rating of 30 Watts with convection cooling. It is intended for audio frequency power amplification service in either pentode, ultra-linear or triode connection and single ended or push-pull/parallel applications.

The TAD 6L6WGC-STR REDBASE™ is designed to be a direct replacement for any 6L6GC / 5881 or equivalent. Close manufacturing specification tolerances, gold grid wire, improved processing and final testing and QC at TAD in Germany provides enhanced reliability, superior sonic performance and grants overall consistency.

TAD 6L6WGC-STR REDBASE™ provides electrical and audio performance very similar to that of the original GE 6L6GC clear-top.

Characteristics

Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.7	6.3	6.8	V
Current				0.9 A
Cathode:	Oxide-coated, unipotential			
Cathode-to-heater potential, max.	200 V			
Direct interelectrode capacitances, max.***				
Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater	<16 pF			
Plate to cathode and grid no.3, grid no.2, base sleeve and heater	<0.9 pF			
Grid no.1 to plate	<2.5 pF			

Mechanical

Operating Position	preferably vertical
Base	JEDEC #8ET, octal, 8-pin
Dimensions:	
Height	max. 98mm (3 7/8")
Seated height	84 mm (3 5/16")
Diameter	39 mm (1 9/16")
Cooling	Convection
Approximate net weight	54 g (1.94 oz.)

***Without external shielding, nominal values

AF Power Amplifier

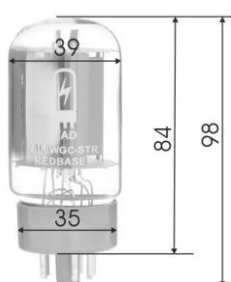
Maximum ratings	
DC plate voltage	550 V
Grid no.2 DC (screen) voltage	500 V
Grid no.1 (control) voltage	- 100 V
DC cathode current	180 mA
Plate dissipation	30 W
Grid no.2 DC (screen) dissipation	5 W
Bulb temperature (surface hottest point)	ca. 250° C

Typical Operation

AF Power Amplifier, Class A1 (single tube)	
Plate Voltage	350 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-18 V
Peak AF Grid 1 Control Voltage	18 V
Zero Signal Plate Current	55 mA
Maximum Signal Plate Current	66 mA
Zero Signal Grid 2 Screen Current (avg)	2.0 mA
Transconductance (nominal)	5,300 mS
Load Resistance	4200 Ohms
Output Power at 14% distortion	8.3 W

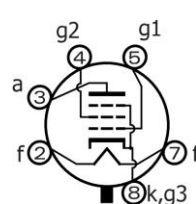
* Approximate Value (set to zero signal plate current)

Outline View



Bottom View

Octal Base Connections



Typical Performance 6L6WGC-STR REDBASE Curve

