



TAD – 6L6GCM-STR REDBASE

High Performance Audio Beam Power Pentode

The new TAD™ 6L6GCM-STR REDBASE is a glass envelope beam power tube having 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 or push-pull/parallel applications.

The TAD™ 6L6GCM-STR REDBASE is designed to be a direct replacement for any 6L6/5881 or equivalent. TAD™ 6L6GCM-STR REDBASE gives electrical and audio performance very similar to that of the original Philips/Sylvania 6L6GC.

Characteristics

Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.7	6.3	6.9	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				<14 pF
Plate to cathode and grid no.3, grid no.2, base sleeve and heater				<0.8 pF
Grid no.1 to plate				<2.1 pF

Mechanical

Operating Position	preferably vertical
Base	JEDEC #8ET, octal, 8-pin
Dimensions:	
Height	max. 109mm (4 1/4")
Seated height	95 mm (3 3/4")
Diameter	38 mm (1 1/2")
Cooling	Convection
Approximate net weight	55 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)	250° C

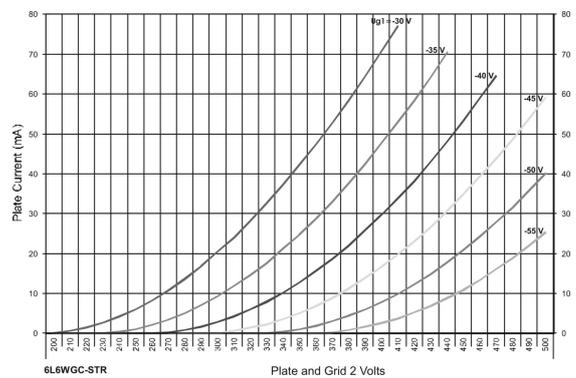
Typical Operation

AF Power Amplifier, Class A1 (single tube)

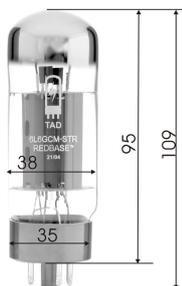
Plate Voltage	350 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-18 V
Peak AF Grid 1 Control Voltage	18 V
Zero Signal Plate Current	54 mA
Maximum Signal Plate Current	66 mA
Zero Signal Grid 2 Screen Current (avg)	2.0 mA
Transconductance (nominal)	5,300 mS
Load Resistance	4200 Ohms
Output Power at 14% distortion	8.5 W

* Approximate Value (set to zero signal plate current)

Typical Performance 6L6GCM-STR REDBASE Curve



Outline View



Bottom View

Octal Base Connections

