

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

The TAD™ 6L6WGC-STR is a glass envelope beam power pentode having a plate dissipation rating of 30 Watts with convection cooling. It is intended for audio frequency power amplification service in either pentode, ultralinear or triode connection and single or push-pull/parallel applications. The TAD™ 6L6WGC-STR has an indirectly-heated oxide cathode, which may be DC operated for the absolute best hum/noise performance.

The TAD™ 6L6WGC-STR plate is made from a laminated material that improves heat transfer and has superior performance under overload conditions which are often seen with guitar amplifiers. Close manufacturing specification tolerances and improved processing provide enhanced reliability and superior sonic performance.

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The TAD™ 6L6WGC-STR is designed to be a direct replacement for any 6L6/5881 or equivalent.

The TAD™ 6L6WGC-STR gives electrical and audio performance very similar to that of the original GE 6L6GC.



Characteristics

Electrical				
Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current			0.9	Α
Cathode:	Oxio	le-coated,	unipoten	itial
Cathode-to-heater potential, max.			20	0 V
Direct interelectrode capacitances, max.***				
Grid no.1 to cathode and grid no.3, grid no.2,				
base sleeve and heater			<16	рF
Plate to cathode and grid no.3, grid no.2,				
base sleeve and heater			<0.6	рF
Grid no.1 to plate			<1.1	рF
Mechanical				
Operating Position			P	λny
Base	JEC	EC #8ET	, octal, 8-	pin
Dimensions:				
Height		95 m	m (3-3/4	in.)
Seated height		82 m	m (3-1/4	in.)
Diameter		38 m	m (1-1/2	in.)
Cooling			Convect	ion
Approximate net weight		50	g (1.76 d	oz.)

^{***}Without external shielding, nominal values

AF Power Amplifier

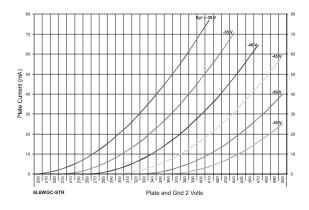
74 TOWOT FAITPHINOS	
Maximum ratings	
DC plate voltage	800 V
Grid no.2 DC (screen) voltage	500 V
Grid no.1 (control) voltage	- 100 V
DC cathode current	150 mA
Plate dissipation	30 W
Grid no.2 DC (screen) dissipation	5 W
Bulb temperature (surface hottest point)	250° C

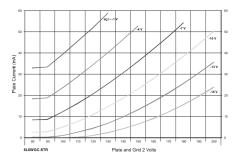
Typical Operation

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	9 W

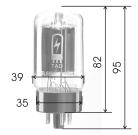
^{*} Approximate Value (set to zero signal plate current)

Typical Performance 6L6WGC Curve





Outline View



Bottom View Octal Base Connections

