

# 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.

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)	5.8	6.3	6.8	V
Current		Ca	a. 0.9	Α
Cathode:	Oxid	e-coated,	unipoter	ntial
Cathode-to-heater potential, max.			20	00 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			<8.0	) pF
Grid no.1 to plate			<1.1	pF
Mechanical				
Operating Position				Any
Base	JED	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	•	•	Convec	tion
Approximate net weight	•	50	g (1.76	oz.)

<sup>\*\*\*</sup>Without external shielding, nominal values

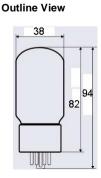
#### AF Power Amplifier

Maximum ratings	
DC plate voltage	550 V
Grid no.2 DC (screen) voltage	450 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

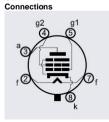
#### **Typical Operation**

AF Power Amplifier, Class A1 (single tube)	
Plate Voltage	250 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-14 V
Peak AF Grid 1 Control Voltage	14 V
Zero Signal Plate Current	100 mA
Maximum Signal Plate Current	105 mA
Zero Signal Grid 2 Screen Current (avg)	15 mA
Transconductance (nominal)	11,000 mS
Load Resistance	2000 Ohms
Output Power at 5% distortion	10 W
* Assessment - Meline (set to see a signal plate assessment)	

Approximate Value (set to zero signal plate current)



#### **Bottom View** Octal Base



## **Typical Performance 6L6WGC Curve**

