



TAD – 6V6GT-CZ High Performance Audio Beam Power Pentode

New for 2020 in the TAD range is the TAD™ 6V6GT-CZ. It is a glass envelope beam pentode having a plate dissipation rating of 14 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™ 6V6GT-CZ has an extended plate voltage range of 500V which makes it ideal for higher power amplifiers like Jim Kelly and as an electric reliable substitute for 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™ 6V6GT-CZ is designed to be a direct replacement for any 6V6, 6V6GTA, 6V6GTY, 6V6Y, 5871, 7184 or equivalent.

Due to the higher withstand voltage, the size is enlarged compared to other 6V6 tubes. Please check space in Your unit!

Characteristics

Electrical

Heater:	Min.	Nom.	Max.
Voltage (AC or DC, parallel connection)	5.9	6.3	6.7
Current	ca. 0.5 A		
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	<15 pF		
Plate to cathode and grid no.3, grid no.2, base sleeve and heater	<10 pF		
Grid no.1 to plate	<0.9 pF		

Mechanical

Operating Position	preferably vertical, horizontally not recommend
Base	JEDEC #8ET, octal, 8-pin
Dimensions:	
Height	95 mm (3-3/4 in.)
Seated height	81 mm (3-3/16 in.)
Diameter	33 mm (1-3/16 in.)
Cooling	convection
Approximate net weight	42 g (1.48 oz.)

***Without external shielding, nominal values

AF Power Amplifier

Maximum ratings

DC plate voltage	500 V
Grid no.2 DC (screen) voltage	450 V
Grid no.1 (control) voltage	-100 V
DC cathode current	80 mA
Plate dissipation	14 W
Grid no.2 DC (screen) dissipation	2 W

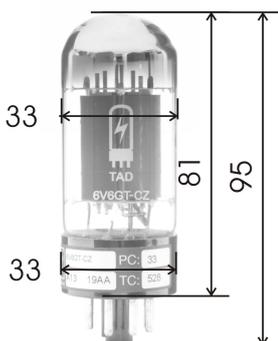
Typical Operation

AF Power Amplifier, Class A1 (single tube)

Plate Voltage	250 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-12.5 V
Zero Signal Plate Current	45 mA
Zero Signal Grid 2 Screen Current (avg)	5 mA
Transconductance (nominal)	4,700 mS
Load Resistance	50k ohms
Output Power at 10% distortion	4.5 W

* Approximate Value (set to zero signal plate current)

Outline View:



Bottom View

Octal Base connections

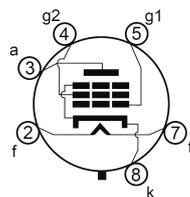
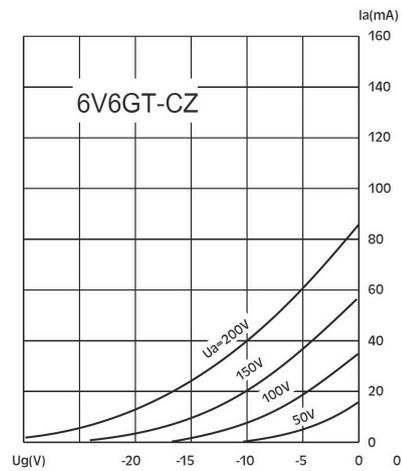


Plate Characteristics 6V6GT-CZ



Typical Performance 6V6GT-CZ Curve

