

### TAD – 6550A-STR High Performance Audio Beam Power Pentode

The TAD™ 6550A-STR is a glass envelope beam power pentode having a plate dissipation rating of 42 Watts with convection cooling. It is intended for the use in high power audio frequency amplification in either pentode, ultra-linear or triode connection and can be used in single or push-pull/parallel applications. The TAD™ 6550A-STR has an indirectly-heated oxide cathode, which may be DC operated for the absolute best hum/noise performance.

The new TAD™ 6550A-STR plate is made from a stronger and purer laminated material that improves heat transfer and has superior performance under high power conditions which are often seen with guitar amplifiers and especially in bass amps. Close manufacturing specification tolerances and improved processing provide enhanced reliability and superior sonic performance. The TAD™ 6550A-STR gives electrical and audio performance very similar to that of the legendary original GE 6550A and is hence very suited for High End applications also.



### **Characteristics**

Current Cathode: Oxide-coated, ur Cathode-to-heater potential, max.  Direct interelectrode capacitances, max.***  Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater  Plate to cathode and grid no.3, grid no.2,	Max.	
Cathode: Oxide-coated, ur Cathode-to-heater potential, max.  Direct interelectrode capacitances, max.***  Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater  Plate to cathode and grid no.3, grid no.2,	8.6	V
Cathode-to-heater potential, max.  Direct interelectrode capacitances, max.***  Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater  Plate to cathode and grid no.3, grid no.2,	a 1.6	Α
Direct interelectrode capacitances, max.***  Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater  Plate to cathode and grid no.3, grid no.2,	nipoten	tial
Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater Plate to cathode and grid no.3, grid no.2,	+200	0 V
base sleeve and heater Plate to cathode and grid no.3, grid no.2,		
Plate to cathode and grid no.3, grid no.2,		
	<15	pF
base sleeve and heater		
	<10	pF
Grid no.1 to plate	<0.85	pF
Mechanical		
Operating Position	P	٩ny
Base JEDEC #8ET, o	ctal, 8-	pin
Dimensions:		
Height 116mr	m (4.56	7")
Seated height 103m	nm (4.0	6")
Diameter 45m	nm (1.7	7")
Cooling	onvect	ion
Approximate net weight	7	75g

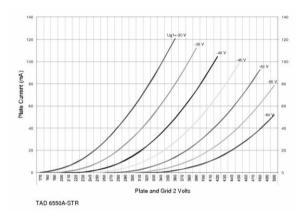
# \*\*\*Without external shielding, nominal values

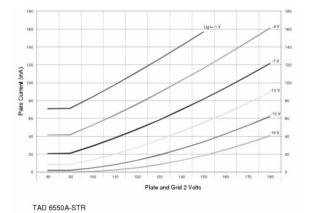
680 V
440 V
- 300 V
190 mA
42 W
6 W
250° C

Typical Operation		
AF Power Amplifier, Class A1 (single tube)		
Plate Voltage	400 V	
Grid 2 Screen Voltage	225 V	
Grid 1 Control Voltage*	-16.5 V	
Peak AF Grid 1 Control Voltage	14 V	
Zero Signal Plate Current	87 mA	
Maximum Signal Plate Current	105 mA	
Zero Signal Grid 2 Screen Current (avg)	9 mA	
Transconductance (nominal)	ca 11,000 mS	
Load Resistance	3000 Ohms	
Output Power at 5% distortion	10 W	

<sup>\*</sup> Approximate Value (set to zero signal plate current)

## Typical Performance 6550A-STR Curve





#### **Outline View:**

