



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

The new **TAD™ 6550A-STR BLACKPLATE** is a beam power pentode with a plate dissipation rating of 42 Watts using 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 BLACKPLATE** provides up to 100W output with two tubes in a push-pull configuration.

The new **TAD™ 6550A-STR BLACKPLATE** anode is made from a stronger and purer laminated material that improves heat dissipation for a superior performance under high power conditions which are often seen with guitar amplifiers and especially bass amps. The gold-plated control grid offers utmost reliability. Close manufacturing specification tolerances and improved processing provide superior sonic performance.

The electrical and the audio performance of the **TAD™ 6550A-STR BLACKPLATE** is very similar to that of the legendary original GE 6550A and, hence, is very suited for High End applications, too.

Characteristics

Electrical

Heater:	Min.	Nom.	Max.
Voltage (AC or DC)	5.8	6.3	6.8 V
Current			ca 1.6 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	<13 pF		
Plate to cathode and grid no.3, grid no.2, base sleeve and heater	<10 pF		
Grid no.1 to plate	<0.75 pF		

Mechanical

Operating Position	Any
Base	JEDEC #8ET, octal, 8-pin
Dimensions:	
Height	116mm (4.567")
Seated height	105mm (4.13")
Diameter	45mm (1.77")
Cooling	Convection
Approximate net weight	78g

***Without external shielding, nominal values

AF Power Amplifier

Maximum ratings

DC plate voltage	680 V
Grid no.2 DC (screen) voltage	440 V
Grid no.1 (control) voltage	- 300 V
DC cathode current	190 mA
Plate dissipation	42 W
Grid no.2 DC (screen) dissipation	6 W
Bulb temperature (surface hottest point)	250° C

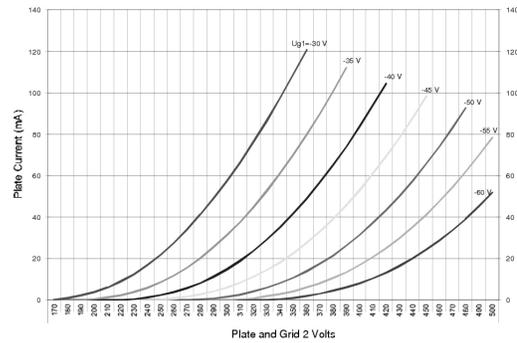
Typical Operation

AF Power Amplifier, Class A1 (single tube)

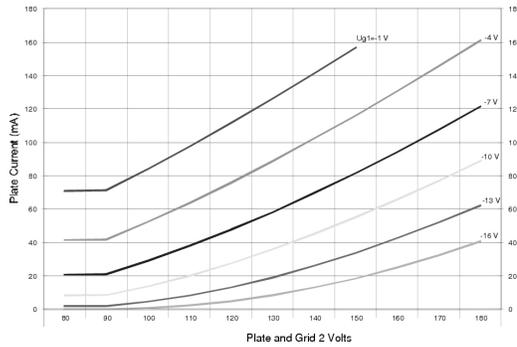
Plate Voltage	400 V
Grid 2 Screen Voltage	225 V
Grid 1 Control Voltage*	-16.5 V
Peak AF Grid 1 Control Voltage	14 V
Zero Signal Plate Current	87 mA
Maximum Signal Plate Current	105 mA
Zero Signal Grid 2 Screen Current (avg)	9 mA
Transconductance (nominal)	ca 11,000 mS
Load Resistance	3000 Ohms
Output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

* Approximate Value (set to zero signal plate current)

Typical 6550A-STR Blackplate Curve



TAD 6550A-STR



TAD 6550A-STR

Outline View:



Bottom View

