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

The all-new TAD™ 6550A-STR REDBASE® is a glass envelope beam power pentode with 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 REDBASE® is made with very close manufacturing specification tolerances and improved processing methods to provide enhanced reliability and superior sonic performance.
The TAD™ 6550A-STR REDBASE®'s electrical and audio performance is very similar to that of the legendary original GE 6550A and is hence 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 1.7	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			<15 pF	
Plate to cathode and grid no.3, grid no.2, base sleeve and heater			<10 pF	
Grid no.1 to plate			<0.85 pF	
Mechanical				
Operating Position			Vertical only	
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	

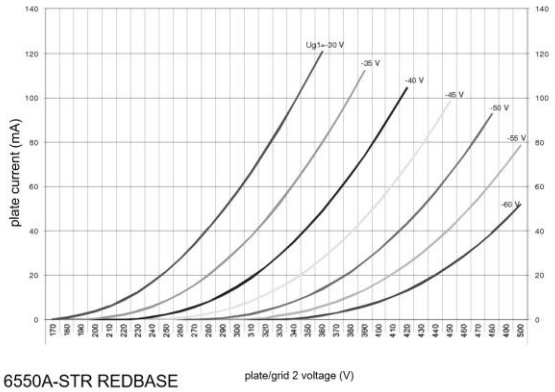
****Without external shielding, nominal values*

AF Power Amplifier	
Maximum ratings	
DC plate voltage	680 V
Grid no.2 DC (screen) voltage	450 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

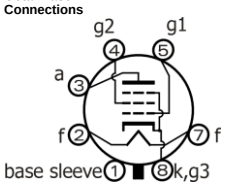
Typical Operation	
AF Power Amplifier, Class A1 (single tube)	
Plate Voltage	400 V
Grid 2 Screen Voltage	225 V
Grid 1 Control Voltage*	-16.5 V
Peak AF Grid 1 Control Voltage	14 V
Zero Signal Plate Current	85 mA
Maximum Signal Plate Current	105 mA
Zero Signal Grid 2 Screen Current (avg)	9 mA
Transconductance (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 Performance 6550A-STR REDBASE® Curve



Bottom View
Octal Base Connections



Outline View: