



ELECTRONIC TUBE REFERENCE

7607

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power transmitting tube intended for Class-C RF power amplification and oscillator service, combining high plate-voltage capability with substantial current for communications equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	900 V
MAXIMUM SCREEN VOLTAGE	450 V
<i>Published ratings and characteristics mapped semantically; identical repeated sections compressed.</i>	

The 7607 is a beam-power pentode intended for Class C RF power-amplifier and oscillator applications, with transmitting-style operating ratings.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Beam Power

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RFPowerAmplifierService	1	ClassC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	300 V	Typical
Screen Voltage	225 V	Typical



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	10 VOLTS	PublishedTable
Heater Negative With Respect To Cathode Peak	300 VOLTS	PublishedTable
Heater Positive With Respect To Cathode Dc	100 VOLTS	PublishedTable
Heater Current	1.6 AMP	PublishedTable
Plate Voltage	300 VOLTS	PublishedTable

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #2 Voltage	225 VOLTS	PublishedTable
Grid #T Voltage	-17 VOLTS	PublishedTable
Plate Current	80 MA	PublishedTable
Grid #2 Clf2 Rent	6 MA	PublishedTable
Plate Resistance	40 KOHMS	PublishedTable
Grid #1 Voltage For 1 Ma Plate Current	1 MA	PublishedTable
Dc Plate Voltage	900 VOLTS	PublishedTable
Dc Grid #2 Voltage	450 VOLTS	PublishedTable
0c Grid Voltage	350 VOLTS	PublishedTable
Dc Plate Current	175 MA	PublishedTable
Dc Grid #1 Current	12 MA	PublishedTable
Plate Input	115 WATTS	PublishedTable
Plate Dissipation	28 WATTS	PublishedTable
Grid #2 Dissipation	6 WATTS	PublishedTable
Combined Plate And Grid #2 Dissipation	32 WATTS	PublishedTable
Dc Plate Voltage	800 VOLTS	PublishedTable
Dc Grid #2 Voltage	220 VOLTS	PublishedTable