

ELECTRONIC TUBE REFERENCE

7757

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Ruggedized beam-power tube for demanding high-voltage pulse service, rated around 3 kV plate voltage and 2 A peak cathode current with severe shock and vibration capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0041 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	700 V
MAXIMUM PLATE DISSIPATION	14 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	75 mA
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
WARM-UP TIME	45 s
Published ratings and characteristics mapped semantically; identical repeated sections compressed.	

The 7757 is a high-perveance beam-power amplifier in a nine-pin miniature hard-glass envelope, intended for demanding RF power service.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakCathodeCurrentPulse	2 A	Pulse
Altitude	70000 ft	SpecialTest
ImpactShock	500 g	—
VibrationalAcceleration	50 g	—



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
Limits Of Applied Voltage	0.3 VOLTS	PublishedTable
Heater Negative With Respect To Cathode	450 VOLTS	PublishedTable
Heater Positive With Respect To Cathode	450 VOLTS	PublishedTable
Dc Plate Voltage	0 VOLTS	PublishedTable
Dc Grid 2 Voltage	700 VOLTS	PublishedTable
Plate Dissipation	14 WATTS	PublishedTable
Grid 2 Dissipation	3 WATTS	PublishedTable

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dc Cathode Current	75 mA	PublishedTable
Peak Cathode Current -Pulse	2 AMPS	PublishedTable
Grid Resistance	0.1 MEGOHM	PublishedTable
Plate Voltage	250 VOLTS	PublishedTable
Grid 2 Volts	2 VOLTS	PublishedTable
Plate Current	45 mA	PublishedTable
Grid 2 Current	3.5 mA	PublishedTable
Transconductance	100 MHOS	PublishedTable
Plate Voltage	750 VOLTS	PublishedTable
Grid 2 Voltage	325 VOLTS	PublishedTable
Grid 1 Bias Voltage	100 VOLTS	PublishedTable
Pulse Voltage – E9K	100 VOLTS	PublishedTable
Pulse Plate Current	0.75 AMP	PublishedTable
Grid 1 Volts (Negative)	1 VOLTS	PublishedTable



SOURCE DATA APPENDIX

196X Bendix

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

196X BENDIX

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
Peak cathode current	2 A	PulseService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	3000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode voltage	450 V	—
Maximum plate voltage	3000 V	PulseService

TUBE TINKER

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