

ELECTRONIC TUBE REFERENCE

7867

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power transmitting tube intended for RF power amplification in communications equipment, with substantial high-frequency output and transmitting-style ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	24 W
MAXIMUM SCREEN DISSIPATION	3.6 W
MAXIMUM CATHODE CURRENT	220 mA
Beam-power section; detailed class/service ratings retained as parameters.	

The 7867 is a beam-power pentode designed for efficient, high-sensitivity audio output service and capable of substantial single-ended or push-pull output power.



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
Heater voltage	6.3 V	Nominal
Heater current	1.5 A	Nominal
Plate voltage	700 V	Typical operating conditions
Plate current	80 mA	Typical operating conditions
Screen current	1 mA	Typical operating conditions



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
Grid #1 To Plate (Approx.)	1.1 pf	PublishedTable
Heater	0.6 volts	PublishedTable
Grid	9 VOLTS	PublishedTable
Peak	1 VOLTS	PublishedTable
Zero Signal Plate Current	0 MA	PublishedTable
Plate	0 OHMS	PublishedTable
Load	0 OHMS	PublishedTable

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate	5 VOLTS	PublishedTable
Grid	0 VOLTS	PublishedTable
Cathode	6 OHMS	PublishedTable
Grid #1 Voltage	-3 VOLTS	PublishedTable
Peak	69 VOLTS	PublishedTable
Zero Signal Plate Current	5 MA	PublishedTable
Zero Signal Grid	4 MA	PublishedTable

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	7 VOLTS	PublishedTable
Maximum Grid #2 Voltage	175 VOLTS	PublishedTable
Maximum Plate Dissipation	24 WATTS	PublishedTable
Maximum Grid	3.6 WATTS	PublishedTable
Maximum Cathode Current– Average	220 MA	PublishedTable
Maximum Grid #1 Circuit Resistance	5 MEGOHM	PublishedTable
Max. Signal Grid #2 Current	6 MA	PublishedTable
Max. Signal Plate	6 MA	PublishedTable

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