



ELECTRONIC TUBE REFERENCE

6094

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Hard-glass beam-power pentode designed for mobile equipment, high ambient temperatures, and severe vibration, shock, and acceleration.

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

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.0041 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	14 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	75 mA
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
Published characteristics and ratings promoted where clearly recoverable from source.	

The 6094 is a hard-glass beam-power pentode designed for mobile equipment, high ambient temperatures and severe vibration, shock and acceleration.



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
AltitudeMaximum	60000 ft	—
EnvelopeTemperatureMaximum	300 C	—
Power Output	4.5 W	—



SOURCE OPERATING CONDITIONS

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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 capacitance	1.45 pF	WholeTube
Input capacitance	8.5 pF	WholeTube
Output capacitance	5.3 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	275 V	WholeTube
Maximum grid 2 voltage	275 V	WholeTube
Maximum plate dissipation	12.5 W	WholeTube
Maximum grid 2 dissipation	2 W	WholeTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode current	75 mA	WholeTube
Maximum heater-cathode voltage	450 V	WholeTube
Plate voltage	250 V	TypicalOperation
Grid 2 voltage	250 V	TypicalOperation
Grid 1 voltage	-12.5 V	TypicalOperation
Plate current	45 mA	TypicalOperation
Grid 2 current	3.5 mA	TypicalOperation
Transconductance	4100 uS	TypicalOperation
Grid 1 signal voltage	8.8 Vrms	TypicalOperation
Load resistance	5000 ohm	TypicalOperation
Power output	4.5 W	TypicalOperation



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	9 V	Published datasheet value; see source context.
Plate Voltage	300 V	Published datasheet value; see source context.
Cathode Current	80000 mA	Published datasheet value; see source context.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	600 mA	Published datasheet value; see source context.
Plate Current	0.6 mA	Published datasheet value; see source context.
Transconductance	5200 μS	Published datasheet value; see source context.



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