

ELECTRONIC TUBE REFERENCE

6327

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-power beam pentode developed specifically for radar deflection-amplifier service, with high peak plate voltage and current for powerful radar display deflection waveforms.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	1650 V
MAXIMUM SCREEN VOLTAGE	340 V
MAXIMUM PLATE DISSIPATION	35 W
MAXIMUM SCREEN DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	165 mA
Promoted source ratings/characteristics; identical repeated sections compressed.	

High-power beam pentode for radar deflection amplification.

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	800 mA	Nominal
Plate voltage	1 V	Published operating table; OperatingPoint1
Plate voltage	650 V	Published operating table; OperatingPoint2
Plate voltage	3 V	Published operating table; OperatingPoint1
Plate voltage	300 V	Published operating table; OperatingPoint2
Plate voltage	250 V	Published operating table; OperatingPoint1
Plate voltage	400 V	Published operating table; OperatingPoint2
Screen voltage	250 V	Published operating table; OperatingPoint1
Screen voltage	300 V	Published operating table; OperatingPoint2
Maximum peak plate voltage	3300 V	RadarDeflection
Maximum peak cathode current	660 mA	RadarDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	120 mA	Published operating table; OperatingPoint1
Plate current	75 mA	Published operating table; OperatingPoint2
Transconductance	8 uS	Published operating table; OperatingPoint1
Transconductance	0 uS	Published operating table; OperatingPoint2
Transconductance	5 uS	Published operating table; OperatingPoint3
Transconductance	500 uS	Published operating table; OperatingPoint4



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	800 mA	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application summary	High-power beam pentode for radar deflection amplification.	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak plate voltage	3300 V	—
Maximum plate voltage	1650 V	—
Maximum cathode current	165 mA	—
Peak cathode current	660 mA	—
Plate current typical	120 mA	—
Maximum altitude	60000 ft	—

TUBE TINKER

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and their source documents.

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