

ELECTRONIC TUBE REFERENCE

7581

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-performance beam-power pentode designed primarily for demanding audio-frequency power-amplifier output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	22500 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM SCREEN DISSIPATION	5 W
Published ratings and characteristics mapped semantically; identical repeated sections compressed.	

The 7581 is a beam-power pentode intended primarily for audio-frequency power amplification and designed as a high-performance replacement in demanding output stages.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TriodeConnectionAmplificationFactor	8	TriodeConnection
TriodeConnectionPlateResistance	1700 ohm	TriodeConnection
TriodeConnectionTransconductance	4700 uS	TriodeConnection



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
Voltage Operation	6.3 VOLTS	PublishedTable
Heater Pgsitive With Respect To Cathode	200 VOLTS	PublishedTable
Heater	200 voLT	PublishedTable
Plate	45 VOLTS	PublishedTable
Screen	45 VOLTS	PublishedTable
Plate	3 WATTS	PublishedTable
Screen	5 WATTS	PublishedTable
With Fixed Bias	1 MEGOHMS	PublishedTable

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
With Cathode	5 MEGOHMS	PublishedTable
Plate	25 VOLTS	PublishedTable
Screen	25 VOLTS	PublishedTable
Grid #I Voltage	-14 VOLTS	PublishedTable
Peak Af Grid #1 Voltage	1 VOLTS	PublishedTable
Plate Resistance, Approx	22500 OHMS	PublishedTable
Plate Current	72 MA	PublishedTable
Screen	5 MA	PublishedTable
Grid #1 Voltage	-2 VOLTS	PublishedTable
Peak	1 VOLTS	PublishedTable
Plate	1 OHMS	PublishedTable
Zero-Signal Plate Current	4 MA	PublishedTable
Plate	350 VOLTS	PublishedTable

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum- Signal Plate Current	44 MA	PublishedTable

TUBE TINKER

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