



ELECTRONIC TUBE REFERENCE

5767

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Planar microwave power triode designed as a continuous-wave oscillator into the gigahertz region. Published operation provides about 20 W at 1 GHz and remains usable to approximately 3.3 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	50 W
Planar-electrode disc-seal triode for microwave CW oscillator service through 3.3 GHz.	

Planar ultra-high-frequency general-purpose triode designed as a continuous-wave oscillator to 3300 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1945 Litton Industries

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

1945 LITTON INDUSTRIES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater Voltage	—7 V	AC or DC
Maximum Heater Current	—450 mA	—
Maximum Anode Voltage	—350 V	—
Maximum Anode Dissipation	—50 W	—
Maximum Operating Frequency	—3.3 GHz	—
Oscillator Anode Voltage	200 V	1.0 GHz CW
Oscillator Anode Current	35 mA	1.0 GHz CW
Power Output	20 W	1.0 GHz CW
Power Output	400 mW	3.3 GHz CW
Tunable Frequency	200–900 MHz	CW tunable

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Anode Capacitance	1.45 pF	—
Grid-Cathode Capacitance	1.3 pF	—
Anode-Cathode Capacitance	0.015 pF	—
Transconductance	4500 uS	Typical
Amplification Factor	25	Typical
Grid Voltage at 10uA Anode Current	-15 V	Typical

1950 Sylvania

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

1950 SYLVANIA
Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4500 μ S	—
Amplification Factor	25	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	350 V	—
Maximum Plate Dissipation	6 W	—
Plate Current	12 mA	—
Operating Frequency Maximum	3300 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	1.37 pF	—
Grid-Cathode Capacitance	1.27 pF	—
Plate-Cathode Capacitance	0.025 pF	Maximum