



ELECTRONIC TUBE REFERENCE

8757

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Rugged ceramic-metal planar microwave triode for advanced airborne and space applications. Designed for CW and pulsed operation into the gigahertz region, it can produce roughly 3 kW useful grid-pulsed output at 3.5 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.038 S
AMPLIFICATION FACTOR	75
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	150 W
MAXIMUM GRID DISSIPATION	1.5 W
<i>Promoted values are taken from printed General Characteristics / Maximum Ratings. Additional published conditions and operating data are preserved in parameters.</i>	

The Eimac 8757 is a miniature frequency-stable rugged ceramic-metal planar triode for advanced airborne and space applications up to 3.5 GHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Cathode Capacitance	9 pF	—
Plate-Cathode Capacitance	0.06 pF	—
Grid-Plate Capacitance	1.65 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cutoff Bias Maximum	-30 V	Ip=1mA; Ep=1kV

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency CW Maximum	3 GHz	—
Frequency Pulsed Maximum	3.5 GHz	—
Peak Pulse Plate Voltage	3500 V	—
Pulse Plate Current	5 A	—
Useful Power Output	3000 W	GridPulsed;Frequency=3.5GHz

TUBE TINKER

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