



ELECTRONIC TUBE REFERENCE

ZP1057

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled metal-ceramic triode with internal feedback for continuous-wave microwave oscillator service to approximately 2 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 3.8 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	1750 V
MAXIMUM PLATE DISSIPATION	300 W
MAXIMUM CATHODE CURRENT	300 mA
CW Class-C maximum plate voltage and dissipation promoted; maximum plate/grid currents and typical operation preserved as parameters.	

The ZP-1057 is a forced-air-cooled triode especially designed for CW oscillator service through approximately 2000 megacycles. It is intended for high-level microwave signal generators over a very wide frequency range and uses internal feedback to simplify cavity circuitry.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	3.5 A–4 A	—
Cathode Heating Time	1— min	—
Radiator Hub Temperature Maximum	250 C	—
Ceramic Temperature Maximum	200 C	—
DC Plate Current Maximum	300 mA	ClassC;CW
DC Grid Voltage Maximum	-150 V	ClassC;CW
DC Grid Current Maximum	50 mA	ClassC;CW
DC Plate Voltage	1500 V	GroundedGrid;ClassC;CW;1200MHz;ThreeQuarterLambdaOutput
DC Plate Current	275 mA	GroundedGrid;ClassC;CW;1200MHz;ThreeQuarterLambdaOutput
DC Grid Voltage	-125 V	GroundedGrid;ClassC;CW;1200MHz;ThreeQuarterLambdaOutput
DC Grid Current	45 mA	GroundedGrid;ClassC;CW;1200MHz;ThreeQuarterLambdaOutput
Power Output Approximate Useful	200 W	GroundedGrid;ClassC;CW;1200MHz;ThreeQuarterLambdaOutput

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	15.5 pF	—
Output Capacitance	6.5 pF	—