



ELECTRONIC TUBE REFERENCE

ZP1074

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Heat-sink-cooled triode with internal feedback for L-band pulsed oscillator service in airborne and ground-based equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 3.9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	3750 V
MAXIMUM PLATE DISSIPATION	110 W
MAXIMUM GRID DISSIPATION	3.5 W
Published ratings and characteristics promoted semantically from the approved source. General Electric ZP-1074 developmental internally fed-back grounded-grid metal-ceramic L-band RF power triode for radar and signal-generator pulsed oscillator service. Nominal indirectly heated cathode heater 6.3 V at 3.8–4.0 A (nominal midpoint 3.9 A). RF back-heating may require reduced heater supply: 5.5 V is specified for a particular 1100 MHz, approximately 2 kW, 0.02-duty example and is not the nominal heater rating. Maximum grid-pulsed oscillator DC anode voltage 3750 V; plate-pulsed oscillator maximum 8000 V applies only during pulses, with up to 10 A peak anode current and pulse duration up to 10 microseconds at 0.003 duty. Maximum documented plate dissipation 110 W with specified heatsink and forced-air cooling; grid dissipation limit 3.5 W applies to plate-pulsed operation. Manufacturer pulse output examples include about 5 kW at grid-pulsed settings and 40 kW in a plate-pulsed setting. Peak pulsed plate currents are not unrestricted continuous cathode-current limits. Manufacturer lists direct interelectrode capacitances. These preliminary ratings are conditional on documented cooling and mode.	

Heat-sink-cooled triode with internal feedback for L-band pulsed oscillator service, including airborne and ground-based applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful Pulse Power Output	5 kW	GridPulsedOscillator
Typical Heater Voltage	5.5 V	1100MHz,2kW,0.02 duty