



ELECTRONIC TUBE REFERENCE

ZP1043

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Heat-sink-cooled General Electric power triode for grid-pulsed Class C amplifier operation in the L-band, particularly navigational-aid applications. Specialized pulse ratings and multi-kilovolt operation support microwave transmitter service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 2.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	50 W
<i>Grid-pulsed Class-C maximum ratings promoted from the printed table; plate/grid pulse currents and pulse limits preserved as parameters.</i>	

Heat-sink-cooled triode designed for grid-pulsed Class-C amplifier service in L-band, particularly navigational-aid 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
Heater Current	2.4 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Grid-pulsed Class C amplifier	L-band



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
Cathode Heating Time Minimum	1 min	—
Maximum Anode Temperature	250 C	—
Maximum Ceramic Temperature	200 C	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Current Maximum During Pulse	3 A	ClassC;GridPulsed
DC Grid Voltage Maximum	-200 V	ClassC;GridPulsed
Pulse Width Maximum	10 us	ClassC;GridPulsed
Duty Factor Maximum	0.01	ClassC;GridPulsed
DC Plate Voltage	2000 V	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
DC Plate Current During Pulse	1.1 A	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
DC Grid Voltage	-80 V	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
DC Grid Current During Pulse	350 mA	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
Power Output During Pulse	1000 W	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
Drive Power During Pulse	200 W	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
Pulse Width	10 us	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
Duty Factor	0.01	GroundedGrid;ClassC;1150MHz;TypicalOperation;1000WOutput
DC Plate Voltage	2000 V	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
DC Plate Current During Pulse	2.25 A	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
DC Grid Voltage	-80 V	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
DC Grid Current During Pulse	750 mA	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
Power Output During Pulse	2000 W	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
Drive Power During Pulse	350 W	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
Pulse Width	10 us	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput
Duty Factor	0.004	GroundedGrid;ClassC;1150MHz;TypicalOperation;2000WOutput

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	16.5 pF	—
Output Capacitance	4 pF	—
Plate-Cathode Capacitance	0.1 pF	—