



ELECTRONIC TUBE REFERENCE

Z5387

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

High-mu metal-ceramic planar power triode for grounded-grid Class C continuous-wave and pulsed VHF/UHF service extending above 3 GHz. Compact geometry and high gain support specialized microwave-frequency power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 1.05 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0275 S
AMPLIFICATION FACTOR	75
MAXIMUM PLATE VOLTAGE	1700 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Promoted fields mapped semantically from printed ratings/characteristics headings; pulsed and microwave-specific limits remain in parameter rows when fixed-field semantics are ambiguous.</i>	

High-mu metal-and-ceramic planar triode for VHF/UHF grounded-grid Class-C CW or pulsed power service above 3000 MHz.

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
will operated from the low frequencies to above	3000 MHz	will operated from the low frequencies to above 3000 megacycles. Cooling of
with sufficient additional forced air to limit the maximum temperature at	250 C	with sufficient additional forced air to limit the maximum temperature at 250 C.
Peak Pulse-Plate~Supply Voltage	3500 V	Peak Pulse-Plate~Supply Voltage 3500 Volts
Pulse Length	6 us	Pulse Length 6 Microseconds
Negative DC Grid Voltage	150 V	Negative DC Grid Voltage 150 Volts
Positive Peak Grid Voltage	250 V	Positive Peak Grid Voltage 250 Volts
Negative Peak Grid Voltage	750 V	Negative Peak Grid Voltage 750 Volts
Plate Dissipation	10 W	Plate Dissipation 10 Watts
Grid Dissipation	2 W	Grid Dissipation 2.0 Watts
Average Plate Current	10 mA	Average Plate Current 10 Milliamperes
Peak Plate Current	3 A	Peak Plate Current 3.0 Amperes
Average Grid Current	5 mA	Average Grid Current 5.0 Milliamperes
Frequency	3000 MHz	Frequency 3000 Megacycles

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
conditions+	6.3 V	conditions+ 6.3 Volts
Heater Current	1.05 A	Heater Current 1.05 Amperes
Ep =	600 V	Ep = 600 volts 22,000 24,800 27,500 Micromhos
Voltage =	0 V	Voltage = 0 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate 1.89 2.01	2.13 pf	Grid to Plate 1.89 2.01 2.13 pf
Grid to Cathode 6.0 6.5	7 pf	Grid to Cathode 6.0 6.5 7.00 pf
Plate to Cathode, maximum 0.018 0.023	0.029 pf	Plate to Cathode, maximum 0.018 0.023 0.029 pf
Condition+	250 C	Condition+ 250 C

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplifier	1100 MHz	Amplifier - 1100 Megacycles
Heater Voltage	6 V	Heater Voltage 6.0 Volts
DC Plate Voltage	1700 V	DC Plate Voltage 1700 Volts
DC Grid Voltage	-45 V	DC Grid Voltage -45 Volts
Pulse Length	3.5 us	Pulse Length 3.5 Microseconds
Peak Plate Current	1.9 A	Peak Plate Current 1.9 Amperes
Peak Grid Current	1.1 A	Peak Grid Current 1.1 Amperes
Driving Power during Pulse, approximate	400 W	Driving Power during Pulse, approximate 400 Watts
Peak Useful Power Output, approximate	1500 W	Peak Useful Power Output, approximate 1500 Watts
PublishedData	400 MHz	400 megacycles, recommendations are to be obtained from the tube manufacturer