

ELECTRONIC TUBE REFERENCE

Z5267

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TETRODE

Planar power tetrode for grounded-grid RF amplification and oscillator service at microwave frequencies. Very high transconductance, low-feedback geometry, and roughly 140 W plate dissipation permit high-gain power operation around 3 GHz and beyond.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.06 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	140 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	200 mA
Promoted fields mapped semantically from printed ratings/characteristics headings; pulsed and microwave-specific limits remain in parameter rows when fixed-field semantics are ambiguous.	

Planar tetrode for grounded-grid RF power-amplifier or oscillator service to 3000 MHz and beyond.

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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage, AC or DC+ 6.3+	0.3 V	Heater Voltage, AC or DC+ 6.3+0.3 Volts
Heater Currentz	1.9 A	Heater Currentz 1.9 Amperes
Plate Voltage	1000 V	Plate Voltage 1000 Volts
Screen Voltage	300 V	Screen Voltage 300 Volts
Grid-Number 1 Voltage	-1.2 V	Grid-Number 1 Voltage -1.2 Volts
Transconductance	60000 uS	Transconductance 60000 Micromhos
Plate Current	160 mA	Plate Current 160 Milliamperes
Radio-Frequency Power Amplifier	3000 MHz	Radio-Frequency Power Amplifier - 3000 Megacycles
DC Plate Voltage 1000 800	800 V	DC Plate Voltage 1000 800 800 Volts
DC Screen Voltage 300 250	250 V	DC Screen Voltage 300 250 250 Volts
DC Grid-Number 1 Voltage -6.0 -3.0	-2 V	DC Grid-Number 1 Voltage -6.0 -3.0 -2.0 Volts
DC Plate Current 160 160	160 mA	DC Plate Current 160 160 160 Milliamperes
DC Screen Current 8.0 6.0	7 mA	DC Screen Current 8.0 6.0 7.0 Milliamperes
DC Grid-Number 1 Current, approximate 25 10	8 mA	DC Grid-Number 1 Current, approximate 25 10 8 Milliamperes
Driving Power, approximate 7 2.3	0.8 W	Driving Power, approximate 7 2.3 0.8 Watts
Useful Power Output, approximate 40 20	10 W	Useful Power Output, approximate 40 20 10 Watts
Heater current of a bogey tube at Ef =	6.3 V	Heater current of a bogey tube at Ef = 6.3 volts.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Number 2 to Plate	4 pf	Grid-Number 2 to Plate 4 pf
Grid-Number 1 to Cathode	18 pf	Grid-Number 1 to Cathode 18 pf
Grid-Number 1 to Grid-Number 2	30 pf	Grid-Number 1 to Grid-Number 2 30 pf
Envelope Temperature, maximum	300 C	Envelope Temperature, maximum 300 C
DC Plate Voltage	1000 V	DC Plate Voltage 1000 Volts
DC Screen Voltage	325 V	DC Screen Voltage 325 Volts
DC Grid-Number 1 Voltage	-20 V	DC Grid-Number 1 Voltage -20 Volts
DC Plate Current	175 mA	DC Plate Current 175 Milliamperes
DC Grid-Number 1 Current	35 mA	DC Grid-Number 1 Current 35 Milliamperes
DC Cathode Current	200 mA	DC Cathode Current 200 Milliamperes
Plate Input	175 W	Plate Input 175 Watts
Plate Dissipation	140 W	Plate Dissipation 140 Watts
Screen Dissipation	3 W	Screen Dissipation 3.0 Watts
kilovolts and peak cathode currents up to	7.5 A	kilovolts and peak cathode currents up to 7.5 amperes may be considered,
PublishedData	800 V	800 volts positive.