



ELECTRONIC TUBE REFERENCE

7399

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Power tetrode documented by General Electric. Available manufacturer material establishes power-class tetrode construction but provides limited extracted application detail.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 5.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	180 W
<i>Promoted only from clearly labeled printed ratings/characteristics; specialized and operating data retained in parameter rows.</i>	

Power tetrode.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage... .. 6.0 63 68 Volts Radiator\$	68 Volts	Published datasheet; semantic line recovery
Heater Current. 5.6 Amperes Plate Dissipation. 300 240 180 Watts	180 Watts	Published datasheet; semantic line recovery
Output. 9.3 upf Heater and Cathode, ap-	9.3 upf	Published datasheet; semantic line recovery
DC Plate Voltage, during pulse. 10 Kilovolts DC Grid-No. 1 Voltage, not pulsed.... -175 Volts	10 Kilovolts	Published datasheet; semantic line recovery
DC Plate Voltage, during pulse. 10 Kilovolts DC Grid-No. 1 Voltage, not pulsed.... -175 Volts	1 Volt	Published datasheet; semantic line recovery
DC Plate Current, during pulse., ... 10 Amperes DC Grid-No. 1 Current, during pulse .25 Amperes	10 Amperes	Published datasheet; semantic line recovery
DC Plate Current, during pulse., ... 10 Amperes DC Grid-No. 1 Current, during pulse .25 Amperes	2.5 Amperes	Published datasheet; semantic line recovery
DC Screen Voltage, during pulse. 2000 Volts Pulse WidthW\$. 15 Microseconds	2000 Volts	Published datasheet; semantic line recovery
DC Screen Voltage, during pulse. 2000 Volts Pulse WidthW\$. 15 Microseconds	15 Microseconds	Published datasheet; semantic line recovery
DC Screen Inputde. 15 Watts Duty Factor¥e¢.....0.0012	15 Watts	Published datasheet; semantic line recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipationd. 300 Watts	300 Watts	Published datasheet; semantic line recovery
DC Plate Voltage, during pulse,..... 9 Kilovolts DC Grid-No, 1 Current, during pulse. . . .1.1 Amperes	9 Kilovolts	Published datasheet; semantic line recovery
DC Plate Voltage, during pulse,..... 9 Kilovolts DC Grid-No, 1 Current, during pulse. . . .1.1 Amperes	1.1 Amperes	Published datasheet; semantic line recovery
DC Grid-No. 2 Voltage, during pulse...1400 Volts DC Grid-No. 2 Current, during pulse. . .0.47 Amperes	2 Volt	Published datasheet; semantic line recovery
DC Grid-No. 2 Voltage, during pulse...1400 Volts DC Grid-No. 2 Current, during pulse. . .0.47 Amperes	1400 Volts	Published datasheet; semantic line recovery
DC Grid-No. 2 Voltage, during pulse...1400 Volts DC Grid-No. 2 Current, during pulse. . .0.47 Amperes	0.47 Amperes	Published datasheet; semantic line recovery
DC Grid-No. 1 Voltage, not pulsed. .. -125 Volts Driving Power at Tube, during pulse. . . 2.6 Kilowatts	1 Volt	Published datasheet; semantic line recovery
DC Grid-No. 1 Voltage, not pulsed. .. -125 Volts Driving Power at Tube, during pulse. . . 2.6 Kilowatts	125 Volts	Published datasheet; semantic line recovery
DC Grid-No. 1 Voltage, not pulsed. .. -125 Volts Driving Power at Tube, during pulse. . . 2.6 Kilowatts	2.6 Kilowatts	Published datasheet; semantic line recovery
Peak RF Plate Voltage. 7000 Voits Power Output, during pulse . . . 52 Kilowatts	52 Kilowatts	Published datasheet; semantic line recovery
Peak RF Grid Voltage. 300 Volts Pulse Widthφ. 15 Microseconds	300 Volts	Published datasheet; semantic line recovery
Peak RF Grid Voltage. 300 Volts Pulse Widthφ. 15 Microseconds	15 Microseconds	Published datasheet; semantic line recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Current, during pulse 9.2 Amperes Duty Factorg. 0.001	9.2 Amperes	Published datasheet; semantic line recovery
¢ Pulse duration measured between points at 70 percent of peak value. The peak value is defined as the maximum value of a smooth	70 percent	Published datasheet; semantic line recovery
Heater Voltage	6 V	Published datasheet
Heater Current	5.6 A	Published datasheet

TUBE TINKER

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