

ELECTRONIC TUBE REFERENCE

GL51038

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Compact forced-air-cooled metal-ceramic tetrode designed for high-power pulsed RF amplification at VHF, UHF, and microwave frequencies. Its construction targets demanding pulse transmitter systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM GRID DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	10 A
Pulse tetrode; 500-MHz plate/screen-pulsed maximum-rating set promoted.	

The GL-51038 is a compact forced-air-cooled metal-ceramic tetrode for high-power pulsed radio-frequency amplifier service at VHF/UHF and microwave frequencies.

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
DC Plate Current During Pulse	10 A	500MHz
DC Grid No.2 Voltage During Pulse	2000 V	500MHz
Pulse Width	15 us	500MHz
Duty Factor	0.0012 ratio	500MHz

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Useful Pulse Power Output	52 kW	500MHz

TUBE TINKER

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and their source documents.

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