



ELECTRONIC TUBE REFERENCE

6283

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

CONSOLIDATED TECHNICAL
DATA1 SECTION
CONSTRUCTION
TETRODE

Reliable metal-ceramic power tetrode for grounded-grid RF amplification to 1250 MHz or higher. Forced-air cooling, shock/vibration resistance, and military communications ratings support demanding UHF service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 3.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
AMPLIFICATION FACTOR	14
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	320 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	750 mA

The GL-6283 is a reliable metal-and-ceramic power tetrode for grounded-grid RF amplifier service, useful to 1250 MHz or higher. It is intended for military communications, Class B linear and television service, and Class C CW operation, with forced-air cooling and high resistance to shock and vibration.

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
Typical Plate Voltage	1750 V	ClassB; GroundedGrid; 225-400MHz
Typical Power Output	110 W	ClassB; GroundedGrid; 225-400MHz
The GL	6283 C	The GL-6283 is a reliable power tetrode Operating as a Class C CW amplifier
deliver	110 W	As a Class B linear amplifier in the vibration.
lated up to	100 %	As a Class B linear amplifier in the vibration.
gain of	20 C	As a Class B linear amplifier in the vibration.
ments are low-approximately	5 W	As a Class B linear amplifier in the vibration.
Voltage	3.6 A	As a Class B linear amplifier in the vibration.
G E	1000 C	As a Class B linear amplifier in the vibration.
Input G tied to G	18.25 C	As a Class B linear amplifier in the vibration.
Plate Dissipation onn	500 W	RADIO-FREQUENCY POWER AMPLIFIER- CLASS B LINEAR
Driving Power approximate	5 W	RADIO-FREQUENCY POWER AMPLIFIER- CLASS B LINEAR
Power Output	110 W	RADIO-FREQUENCY POWER AMPLIFIER- CLASS B LINEAR
Plate Input U	600 W	RADIO-FREQUENCY AMPLIFIER-CLASS 8 TELEVISION SERVICE
Bandwidth	6 MHz	RADIO-FREQUENCY AMPLIFIER-CLASS 8 TELEVISION SERVICE
Pedestal Level	825 V	RADIO-FREQUENCY AMPLIFIER-CLASS 8 TELEVISION SERVICE
Pedestal Level	27 V	RADIO-FREQUENCY AMPLIFIER-CLASS 8 TELEVISION SERVICE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
this voltage should not be less than	5.5 V	RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR-CLASS C TELEGRAPHY
i/ f	74 C	RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR-CLASS C TELEGRAPHY
DIAMETER A	0.03 in	RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR-CLASS C TELEGRAPHY
DIAMETER B	0.016 in	RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR-CLASS C TELEGRAPHY
DIAMETER D -	0.042 in	RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR-CLASS C TELEGRAPHY

TUBE TINKER

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