



ELECTRONIC TUBE REFERENCE

Z5099A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

General Electric high-mu power triode with approximately 100 W plate dissipation and kilovolt plate capability. High transconductance and amplification factor provide substantial gain and current capability for professional power applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.024 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	125 mA

The Z5099A is described by the approved General Electric datasheet.

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
megacycles Typical power output is 19 watts at 2500 megacycles and	40 W	—
to dissipate	100 W	—
Heater Voltage AC or DG+	6.3 V	Heater Characteristics and Ratings
Heater Current	1 A	Heater Characteristics and Ratings
Cathode Heating Time minimum	60 s	Heater Characteristics and Ratings
Grid to Plate	2 pF	Heater Characteristics and Ratings
Grid to Cathode	6.5 pF	Heater Characteristics and Ratings
Plate to Cathode maximum	0.029 pF	Heater Characteristics and Ratings
DC Plate Voltage	1000 V	MAXIMUM RATINGS
DC Cathode Current	125 mA	MAXIMUM RATINGS
Negative DC Grid Voltage	150 V	MAXIMUM RATINGS
Peak Positive RF Grid Voltage	30 V	MAXIMUM RATINGS
Peak Negative RF Grid Voltage	400 V	MAXIMUM RATINGS
DC Grid Current	50 mA	MAXIMUM RATINGS
Plate Dissipation	100 W	MAXIMUM RATINGS
Grid Dissipation	2 W	MAXIMUM RATINGS
Frequency	2500 MHz	MAXIMUM RATINGS
DC Plate Voltage	600 V	MAXIMUM RATINGS
DC Cathode Current	100 mA	MAXIMUM RATINGS
Plate Dissipation	70 W	MAXIMUM RATINGS

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	600 V	Average Characteristics
Plate Current	70 mA	Average Characteristics
Transconductance	24000 μS	Average Characteristics
Frequency 500	2500 MHz	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
DC Plate Voltage 900	1000 V	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
DC Cathode Current 120	117 mA	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
DC Grid Current 30	27 mA	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
DC Grid Voltage 40	-22 V	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
Useful Power Output 40	19 W	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
Heater current of a bogey tube at Ef	6.3 V	CHARACTERISTICS AND TYPICAL OPERATION (Continued)
not exceed	1200 V	CHARACTERISTICS AND TYPICAL OPERATION (Continued)

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker