



ELECTRONIC TUBE REFERENCE

Z2391G

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Reflex klystron developed as a frequency-modulated microwave transmitter covering approximately 3.6-4.2 GHz and producing about one watt output.

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 Klystron	
MAXIMUM PLATE VOLTAGE	1100 V
MAXIMUM CATHODE CURRENT	70 mA
<i>Published ratings and characteristics promoted where applicable; remaining useful values retained as parameters.</i>	

The Z239/1G is a reflex klystron developed for use as a frequency-modulated transmitter, covering 3600 to 4200 Mc/s and capable of approximately one watt output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode heating time	60 s	—
Minimum output power	1 W	—
Bandwidth to half power	40 Mc/s	—
Modulation capacity	3 pF	Mode7 7.6cm

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	3600–4200 Mc/s	—
Maximum direct resonator voltage	1100 V	—
Maximum direct reflector voltage	-700 V	—
Maximum direct resonator current	70 mA	—
Direct resonator voltage	950–1100 V	Mode7 7.6cm
Direct reflector voltage	-250--150 V	Mode7 7.6cm
Direct resonator current	60 mA	Mode7 7.6cm
Bandwidth to half power	45–70 Mc/s	Mode7 7.6cm
Modulation sensitivity	0.5 Mc/s/V	Mode7 7.6cm
Power output	1.2 W	Mode7 7.6cm
Cooling air flow, gun end uppermost	7 cu ft/min	ForcedAirCooling
Cooling air flow, gun end down	5 cu ft/min	ForcedAirCooling
Maximum seal temperature	90 °C	—

TUBE TINKER

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