

Packaged voltage-tunable continuous-wave magnetron designed for electronically tuned microwave oscillator service across its specified frequency range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	20 mA
<i>Promoted fields mapped semantically from printed ratings/characteristics headings; pulsed and microwave-specific limits remain in parameter rows when fixed-field semantics are ambiguous.</i>	

Packaged voltage-tunable magnetron for broad electronically tuned microwave operation.



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 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
3500	-4500 MHz	3500-4500 Megacycles 10 Watt CW Output
Filament Voltage* 2.0 2.3	2.6 V	Filament Voltage* 2.0 2.3 2.6 Volts
Ambient Air Temperature, maximum ot i vt v e oo ronenss	50 C	Ambient Air Temperature, maximum ot i vt v e oo ronenss 50 C
Filament Voltage *, approximate 0. ittt eneen	2.3 V	Filament Voltage *, approximate 0. ittt eneen. 2.3 Volts
Filament Current. i e e e e e e	3 A	Filament Current. i e e e e e e 3.0 Amperes
Tunable Range v o ittt e e e e e e e e 3500	-450 MHz	Tunable Range v o ittt e e e e e e e e 3500-450 Megacycles
Tuning Sensitivity, approximate i e,	2.2 MHz	Tuning Sensitivity, approximate i e, 2.2 Megacycles per Volt
Anode Voltage at 4.0 Gigacycles o it i e e e	1700 V	Anode Voltage at 4.0 Gigacycles o it i e e e 1700 Volts
Anode Current, aVETAZE . . . v . o v i i et i e e e e e e e s	20 mA	Anode Current, aVETAZE . . . v . o v i i et i e e e e e e s 20 Milliamperes
Injection Electrode Voltage, positive with respect tocathode	400 V	Injection Electrode Voltage, positive with respect tocathode 400 Volts
Injection Electrode Current it	0.01 mA	Injection Electrode Current it 0.01 Milliamperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output, minimum	10 W	Power Output, minimum 10 Watts
Filament voltage should be adjusted to provide	3 A	Filament voltage should be adjusted to provide 3.0 amperes of filament current under broadband swept oscillating conditions.

TUBE TINKER

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