

ELECTRONIC TUBE REFERENCE

ZM6222

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

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 / 0 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	10 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
2000	-4000 MHz	2000-4000 Megacycles 1.0 Watt CW Output
Filament Voltage* øttt teeraronens 2.0 2.5	3 V	Filament Voltage* øttt teeraronens 2.0 2.5 3.0 Volts
Filament Current. 0	0 C	Filament Current. ø0 C et e - 2.0 - Amperes
Ambient Air Temperature, maximum	50 C	Ambient Air Temperature, maximum 50 C
Filament Voltage*, approximate . . v e v v s s 00 v s v s venaseoocnoceanas	2 V	Filament Voltage*, approximate . . v e v v s s 00 v s v s venaseoocnoceanas 2.0 Volts
Filament Current..... e ce et ecesstsenssanesarsseaes	2 A	Filament Current..... e ce et ecesstsenssanesarsseaes 2.0 Amperes
Tunable Rangef ot it it ittt ittt araoesnocosssees 2000	-4000 MHz	Tunable Rangef ot it it ittt ittt araoesnocosssees 2000-4000 Megacycles
Tuning Sensitivity, approximate øttt eetioescorssss	2.3 MHz	Tuning Sensitivity, approximate øttt eetioescorssss 2.3 Megacycles per Volt
AnodeVoltageat30Gigacycles	1300 V	AnodeVoltageat30Gigacycles.....1300 Volts
Anode Current, average N cer et . 10	-15 mA	Anode Current, average N cer et . 10-15 Milliamperes
Injection Electrode Voltage, positive with respect to cathode e eeeeeeass 100	-400 V	Injection Electrode Voltage, positive with respect to cathode e eeeeeass 100-400 Volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Injection Electrode Current. . « v oot v v v e eseveosossosssessssssss	0.01 mA	Injection Electrode Current. . « v oot v v v e eseveosossosssessssssss 0,01 Milliamperes
* Filament voltage should be adjusted to provide	2 A	* Filament voltage should be adjusted to provide 2.0 amperes of filament current under broadband swept oscillating con-

TUBE TINKER

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and their source documents.

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