

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	2.2 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
2500	-3500 MHz	2500-3500 MEGACYCLES 10 WATT OUTPUT
which operates at a minimum power output of	10 W	which operates at a minimum power output of 10 watts over the 2500-3500 megacycle frequency range. Unlike conven-
Filament Voltage*, approximate et 2.2 2.5	2.7 V	Filament Voltage*, approximate et 2.2 2.5 2.7 Volts
Ambient Air Temperature e e e e e e e e e	50 C	Ambient Air Temperature e e e e e e e e e 50 C
Anode Voltage e e e e ve	2500 V	Anode Voltage e e e e ve... 2500 Volts
Anode Current. v v vt it i e e e e e e	40 mA	Anode CUrrent. v v vt it i e e e e e e 40 Milliamperes
Power Input, with Forced Air CooHng	85 W	Power Input, with Forced Air CooHng 85 Watts
Injection Electrode Voltage 0,	700 V	Injection Electrode Voltage 0, 700 Volts
Injection Electrode Current ite	1 mA	Injection Electrode Current ite 1.0 Milliamperes
Filament Current. e et e e e e	3.5 A	Filament Current. e et e e e e 3.5 Amperes
Filament Voltage*, approximate et e e e e	2.5 V	Filament Voltage*, approximate et e e e e 2.50 Volts
Filament Current. ,	3 A	Filament Current. , 3.0 Amperes
Tunable Range# v e v v v v v et e e e e ee .. 2000	-3500 MHz	Tunable Range# v e v v v v v v v v et e e e e ee .. 2000-3500 Megacycles

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tuning Rate, approximate ot vt e eettonoeesaneesenn	1.8 MHz	Tuning Rate, approximate ot vt e eettonoeesaneesenn 1.8 Megacycles per Volt
Anode Voltage at 3 Kllomegacycles t s ee et eaesseasess	1850 V	Anode Voltage at 3 Kllomegacycles t s ee et eaesseasess. 1850 Volts
Anode Current, Average ooteeoeossos et e e 20	-30 mA	Anode Current, Average ooteeoeossos et e e 20-30 Milliamperes
Injection Electrode Voltage, Positive with Respect to Cathod ceeeea.. 300	-600 V	Injection Electrode Voltage, Positive with Respect to Cathod ceeeea.. 300-600 Volts
Injection Electrode Current . « « « « ¢ v vt vt vttt it it et ee e	0.1 mA	Injection Electrode Current . « « « « ¢ v vt vt vttt it it et ee e 0.1 Milliamperes
Power Output, Minimum et e e e e et e et	10 W	Power Output, Minimum et e e e e et e et 10.0 Watts
* Filament voltage shouldbe adjustedto providea filament current of	3 A	* Filament voltage shouldbe adjustedto providea filament current of 3.0 amperes under broadband swept oscillating con-
NOTE: Since a change in anode voltage of one volt produces afrequency change of approximately	1.8 MHz	NOTE: Since a change in anode voltage of one volt produces afrequency change of approximately 1.8 megacycles, the anode
T Measured at	1.5 MHz	T Measured at 1.5 megacycles away from carrier with respect to carrier power level. This is anoptional parameter which
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[e	260 %	[e-.260 %020 L .200 %010

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