

ELECTRONIC TUBE REFERENCE

ZM6276

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	2.3 V / 6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	80 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 electronically tuned or fixed-frequency 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
2600	-3200 MHz	2600-3200 Megacycles 100 Watts Minimum CW Output
Warm-up Time, Maximum. ϕ o v v v vt ittt it ettt v e s ne s s as st s taeenanes	10 s	Warm-up Time, Maximum. ϕ o v v v vt ittt it ettt v e s ne s s as st s taeenanes 10 Seconds
Filament VOItage . . . oo v i it ittt it it ettt it ettt nn e eanonosnnnasss	2.5 V	Filament VOItage . . . oo v i it ittt it it ettt it ettt nn e eanonosnnnasss 2.5 Volts
Anode VOItage « « v v v v v v v v it ittt st e e e e e e	3400 V	Anode VOItage « « v v v v v v v v it ittt st e e e e e e 3400 Volts
SWEED VOItAZE « v v v v v e it it it ettt sttt ettt et e e et	700 V	SWEED VOItAZE « v v v v v e it it it ettt sttt ettt et e e et 700 Volts
Anode Current, SWEPT « « v v o ϕ ttt i ittt et et e	80 mA	Anode Current, SWEPT « « v v o ϕ ttt i ittt et et e 80 Milliamperes
POWER INDUL - v v vt vt ittt et ittt i ittt ittt te et e it	250 W	POWER INDUL - v v vt vt ittt et ittt i ittt ittt te et e it 250 Watts
Injection Electrode Voltage o it vt vt i et e e e v e e	1700 V	Injection Electrode Voltage o it vt vt i et e e e v e e 1700 Volts
Filament Voltage, approximate ittt ittt intoneansssetnonnnnses	2.3 V	Filament Voltage, approximate ittt ittt intoneansssetnonnnnses 2.3 Volts
Filament Currend . o v ϕ o v v v v it ot oo vtth o st i s st et as o s e	5.3 A	Filament Currend . o v ϕ o v v v v it ot oo vtth o st i s st et as o s e 5.3 Amperes
Swept FrequenCy Range . . v o vt vt it i ittt it iiie s s iviaaanaeas 2600 to	320 MHz	Swept FrequenCy Range . . v o vt vt it i ittt it iiie s s iviaaanaeas 2600 to 320 Megacycles

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Sweep Voltage, Peak to Peak, typical 0. it r v	600 V	Sweep Voltage, Peak to Peak, typical 0. it r v 600 Volts
Anode Voltage at 2.9 Gigacycles: oo i i ittt it e e e s	3000 V	Anode Voltage at 2.9 Gigacycles: oo i i ittt it e e e s 3000 Volts
ANode CUITENT. . v v v v v i vt it sttt vttt s e e s o st oo st eesnnesoososenoassos	65 mA	ANode CUITENT. . v v v v v i vt it sttt vttt s e e s o st oo st eesnnesoososenoassos 65 Milliamperes
Injection Electrode Current, may be either polarity butlessthan	0.5 mA	Injection Electrode Current, may be either polarity butlessthan 0.5 Milliamperes
Average, Swept Across Full Band . . . L I N R R I S tereeesreesssesess	120 W	Average, Swept Across Full Band . . . L I N R R I S tereeesreesssesess 120 Watts ***
Minimum, At Any Point Without Sweep Voltage e et et esaeesssesess	100 W	Minimum, At Any Point Without Sweep Voltage e et et esaeesssesess 100 Watts xx*
* Hold temperature to	125 C	* Hold temperature to 125 C or less at point shown on the outline drawing. At the maximum inlet temperature of 110 C,
1Set to give anode current marked on tube within *	2 mA	1Set to give anode current marked on tube within * 2 milliamperes.
PublishedData	1.01 C	1.01C

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Air Temperature, MaXiMUIN. « o o v ot vttt bt e ettt s et st as s aasassenesenss	110 C	Air Temperature, MaXiMUIN. « o o v ot vttt bt e ettt s et st as s aasassenesenss 110 C
Body Temperature, maximumft i i ittt ittt ittt ve oo eesaeenon	125 C	Body Temperature, maximumft i i ittt ittt ittt ve oo eesaeenon 125 C

TUBE TINKER

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

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

