

ELECTRONIC TUBE REFERENCE

ZM6277

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

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	2 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
2860	3460 MHz	2860- 3460 Megacycles 100 Watts Minimum CW Output
Warm-up Time, maximum. et ettt et e e e e	10 s	Warm-up Time, maximum. et ettt et e e e e 10 Seconds
Filament VOItage t it ittt ottt it ittt it et i s s s aosntnceenssens ee	2.5 V	Filament VOItage t it ittt ottt it ittt it et i s s aosntnceenssens ee. 2.5 Volts
Filament Currentf ttt eanns e e e	6 A	Filament Currentf ttt eanns e e e 6.0 Amperes
Anode Voltage e e et e e e e e e e e	3400 V	Anode Voltage e e et e e e e e e e e 3400 Volts
Sweep Voltage et e e e e e et e e e et e	700 V	Sweep Voltage et e e e e e et e e e et e 700 Volts
Anode Current, swept e et e e et e e e e	80 mA	Anode Current, swept e et e e et e e e e 80 Milliamperes
PowerInput c00v... e e e e e e e	250 W	PowerInput c00v... e e e e e e e 250 Watts
Injection Electrode Voltage e et et e e et	1700 V	Injection Electrode Voltage e et et e e et 1700 Volts
Filament Voltage, approximate o u v it i it v ittt an s ot toannenssens	2.3 V	Filament Voltage, approximate o u v it i it v ittt an s ot toannenssens 2,3 Volts
Filament Currentl . . o v i i it it ittt ittt to e et at e e e	5.3 A	Filament Currentl . . o v i i it it ittt ittt to e et at e e e 5.3 Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Swept Frequency Range 00 v ittt ittt v nensonneansonssonss 2860 to	346 MHz	Swept Frequency Range . . . 00 v ittt ittt v nensonneansonssonss 2860 to 346 Megacycles
Sweep Voltage, Peak to Peak, typical ittt it	550 V	Sweep Voltage, Peak to Peak, typical ittt it 550 Volts
Anode Voltage at 3.16 GigacyCles . « . v v v v v v vt vt it et e e e e e s	3000 V	Anode Voltage at 3.16 GigacyCles . « . v v v v v v vt vt it et e e e e e s 3000 Volts
Anode Current. . . . T	65 mA	Anode Current. . . . T 65 Milliamperes
Average, Swept Across FullBand o vt v v vttt enreenonnonronssns	110 W	Average, Swept Across FullBand o vt v v vttt enreenonnonronssns 110 Watts ***
Minimum, At Any Point Without Sweep Voltage e eeese	100 W	Minimum, At Any Point Without Sweep Voltage e eeese 100 Watts ***
* 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,
1 Set to give anode current marked on tube within >	2 mA	1 Set to give anode current marked on tube within > 2 milliamperes.
PublishedData	113 C	113C 1.500

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Air Temperature, MaXimMUI. « « « o v v v vt vt oo a s ot s oo s tnasosononsenenssas	110 C	Air Temperature, MaXimMUI. « « « o v v v vt vt oo a s ot s oo s tnasosononsenenssas 110 C
Body Temperature, maxXimumT « o v o v v v ot v ot e o vt s s e o s o oo s ansnosssnessns	125 C	Body Temperature, maxXimumT « o v o v v v ot v ot e o vt s s e o s o oo s ansnosssnessns 125 C

TUBE TINKER

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