

ELECTRONIC TUBE REFERENCE

ZM6205

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 / 1.95 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	8 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 with integral load isolator.



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
2750	3090 MHz	2750- 3090 MEGACYCLES 1.00-WATT OUTPUT
Filament Voltage* 2.0 2.5	3 V	Filament Voltage* 2.0 2.5 3.0 Volts
Filament Current* v v t t t v v v t v s 1.95 2.0	2.05 A	Filament Current* v v t t t v v v t v s 1.95 2.0 2.05 Amperes
Ambient Air Temperature, operating o o t e n u n o a s +	85 C	Ambient Air Temperature, operating o o t e n u n o a s +85 C
Anode VOIREZE . . . v v o v i t i t e e e e e e e e e	1000 V	Anode VOIREZE . . . v v o v i t i t e e e e e e e e e 1000 Volts
Anode Current t e e e e e e e e ; o 0	12 mA	Anode Current t e e e e e e e e ; o 0 12 Milliamperes
Power Input, with Forced Air Cooling e e e e	18 W	Power Input, with Forced Air Cooling e e e e 18 Watts
Injection-Electrode Voltage i i i i i i e	205 V	Injection-Electrode Voltage i i i i i e 205 Volts
Injection-Electrode Current e e	0.1 mA	Injection-Electrode Current e e 0.1 Milliamperes
Filament Current o t v v i t v t i e t t t e t e i e	2.05 A	Filament Current o t v v i t v t i e t t t e t e i e . 2.05 Amperes
Filament Voltage*, approximate o v v t v t t t v t i t e	2.5 V	Filament Voltage*, approximate o v v t v t t t v t i t e 2.50 Volts
Filament Current® e e e e e e e e e	2 A	Filament Current® e e e e e e e e e 2.0 Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tunable Range# v v i i i i t i e e e e 2750	-309 MHz	Tunable Range# v v i i i i t i e e e e 2750-309 Megacycles
Tuning Sensitivity, approximate 00	3.35 MHz	Tuning Sensitivity, approximate 00 3.35 Megacycles per Volt
Anode Voltage at 2.945 gigacycles i,	850 V	Anode Voltage at 2.945 gigacycles i, 850 Volts
Anode Current, average ottt e e e e e	8 mA	Anode Current, average ottt e e e e e 8 Milliamperes
Injection- Electrode Voltage, Positive with Respect to Cathode 75	205 V	Injection- Electrode Voltage, Positive with Respect to Cathode 75- 205 Volts
Power Output, minimum S e e e e e e e e e e e e	1 W	Power Output, minimum S e e e e e e e e e e e e e 1.0 Watts
* Filament current should be adjusted to	2 A	* Filament current should be adjusted to 2.0 amperes.
1 Measured across the entii'e frequency band and over a	-55 C	1 Measured across the entii'e frequency band and over a -55 C to +95 C magnet temperature range.
NOTE: Sincé a change inanode voltage of one volt produces a frequency change of approximately	3.35 MHz	NOTE: Sincé a change inanode voltage of one volt produces a frequency change of approximately 3.35 megacycles,
CAUTION: A clearance of	6 in	CAUTION: A clearance of 6 inches between ferromagnetic materials and the tube will prevent serious change of

TUBE TINKER

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and their source documents.

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