MTGH, MTGS, and MTGZ Series



- Standard 14 Dip/4 TCXO
- > RoHS Compliant Available
- > Stability Available to ±1 ppm
- Operating Voltage +3.3VDC or +5.0VDC
- > Wide Frequency Range

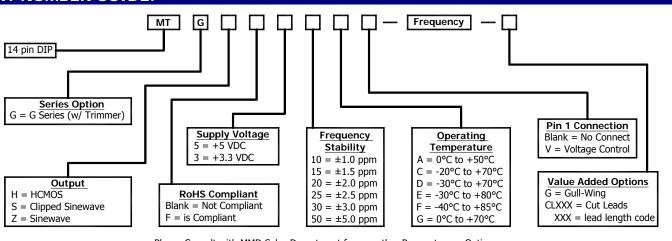
ELECTRICAL SPECIFICATIONS:

Output	HCMOS	Clipped Sinewave		Sinewave	
Frequency Range	1.000MHZ to 160.000MHZ	8.000MHZ to 160.000MHZ		8.000MHZ to 160.000MHZ	
Load	10k Ohms // 15pF	10k Ohms // 15pF		50 Ohms	
Supply Current	35mA max 3mA max		25mA max		
Output Level	Logic "1" = 90% of Vdd min Logic "0" = 10% of Vdd max		p min	7 dBm	
Symmetry	40%/60% at 50% of Waveform	N/	A	N/A	
Freq. Stability vs Temp (Note 1)	(See Frequency Stability vs Temperature Table)				
Freq. Stability vs Aging	±1 ppm per year max				
Freq. Stability vs Voltage	±0.3 ppm with a 5% change in Vdd				
Freq. Stability vs Load	±0.3 ppm with a 10% change in Load				
Operature Temperature	(See Frequency Stability vs Temperature Table)				
Storage Temperature	-40°C to +85°C				
Supply Voltage (Vdd)	+3.3VDC ±5% +5.0VDC ±5%			+5.0VDC ±5%	
Control Voltage with VC option	+1.65VDC ±1.50VDC Positive Slope +2.50VDC ±2.00VDC Positive Slope			±2.00VDC Positive Slope	

Pin 1 Connection	
No Connection	No Connection
VC Option	±10 ppm min

Mechanical Trimmer ±3 ppm min

PART NUMBER GUIDE:



Please Consult with MMD Sales Department for any other Parameters or Options

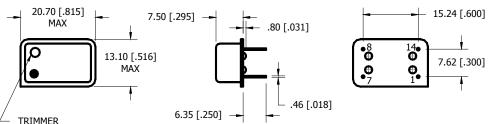
MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688 Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com Sales@mmdcomp.com

FREQUENCY STABILITY vs TEMPERATURE TABLE:

Code	Stability	10	15	20	25	30	50
	Temp	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm	±3.0ppm	±5.0ppm
Α	0°C TO +50°C	•	•	•	•	•	•
G	0°C TO +70°C		•	•	•	•	•
С	-20°C TO +70°C			•	•	•	•
D	-30°C TO +70°C				•	•	•
F	-40°C TO +85°C				•	•	•

^{• =} Available

MECHANICAL DIMENSIONS:



PIN CONNECTIONS		
PIN 1	VOLTAGE CONTROL OR	
	NO CONNECTION	
PIN 7	CASE GROUND	
PIN 8	OUTPUT	
PIN 14	SUPPLY VOLTAGE	

DIMENSIONS IN BRACKERS ARE IN INCHES EXTERNAL BYPASS CAPACITOR IS RECOMMENDED UNIT IS NOT A HERMETICALLY SEALED UNIT

ENVIRONMENT / MECHANICAL:

Shock	MIL-STD-883, Method 2002, Condition B
Solderability	MIL-STD-883, Method 2003
Vibration	MIL-STD-883, Method 2007, Condition A

MARKING: PHASE NOISE:

Line 1 = MXXXXX

M = MMD COMPONENTSXXXXX = Frequency in MHZ

Line 2 = SYYMML

S = Internal Code

YYMM = 4 Digit Date Code (Year / Month)

L = Denotes RoHS Compliant

Line 3 = XXXXX

Internal use only May vary with lots

Black dot to denote Pin 1

PHASE NOISE PLOT COMING SOON

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⁼ Consult with the Manufacturer