

MTC Series

9.6mm x 11.7mm SMD

MMD
COMPONENTS



- **Industry Standard Package**
- **5.0 or 3.3 Volt**
- **HCMOS, Sinewave, Clipped Sine**
- **1.000MHz to 1.000GHz**
- **Stability Down to ± 1 ppm**

Electrical Specifications

H Option = HCMOS Output	Frequency Range	1.000MHz to 60.000MHz
	Frequency Stability	Down to ± 1 ppm
	Load	10K Ohms // 15pF
	Supply Current	35mA max.
	Output	Logic"1" Level = 0.9V _{dd} min. Logic"0" Level = 0.1V _{dd} max.
S Option = Clipped Sine Output	Frequency Range	8.000MHz to 160.000MHz
	Frequency Stability	Down to ± 1 ppm
	Load	10K Ohms // 15pF
	Supply Current	3mA max.
	Output	1.0V p-p min.
Z Option = Sinewave Output	Sinewave Output	13.000MHz to 50.000MHz
	Frequency Stability	Down to ± 1 ppm
	Load	50 Ohms
	Supply Current	5mA max.
	Output	7dBm min.
Operating Temperature Range		See Part Numbering Guide
Storage Temperature Range		-40°C to +85°C
Supply Voltage (V _{dd})	V _{dd} = 5V	5.0V _{dc} $\pm 5\%$
	V _{dd} = 3.3V	3.3V _{dc} $\pm 5\%$
Internal Trim (Top of can)		± 3 ppm min.
Control Voltage	V _{dd} = 5V	2.5V _{dc} ± 2.0 V _{dc} Positive Slope
	V _{dd} = 3.3V	1.65V _{dc} ± 1.5 V _{dc} Positive Slope
Pin 1 Connection	Blank	No Connect
	V Option	± 10 ppm min.
Frequency Stability	vs. Aging	± 1 ppm per year max.
	vs. Voltage (with a 5% change)	± 0.3 ppm
	vs. Load (with a 10% change)	± 0.3 ppm
Symmetry	@50% of waveform w/CMOS load	40/60%

Notes



www.mmdcomp.com

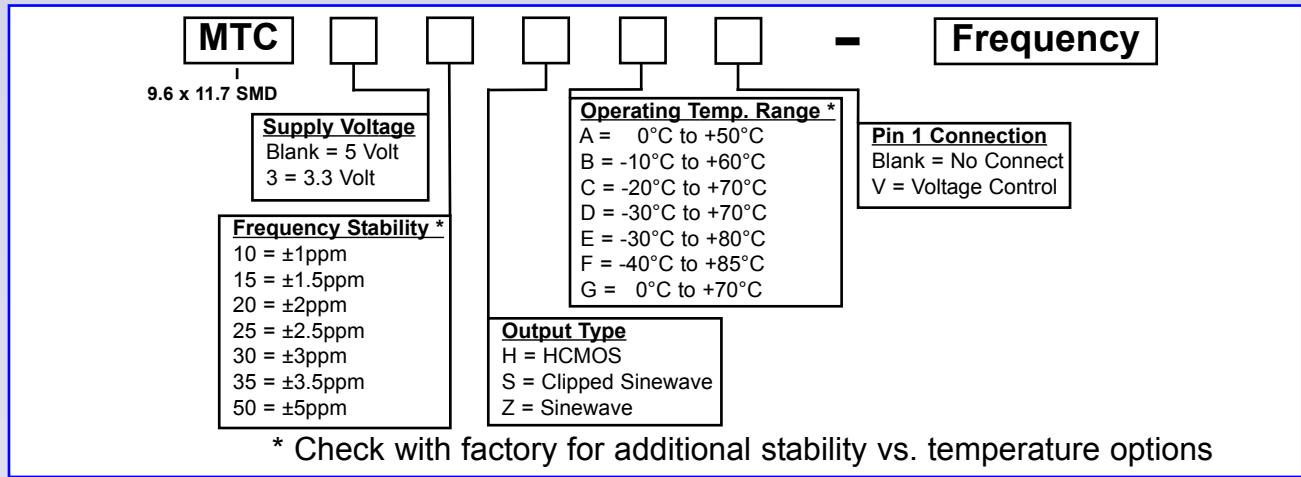
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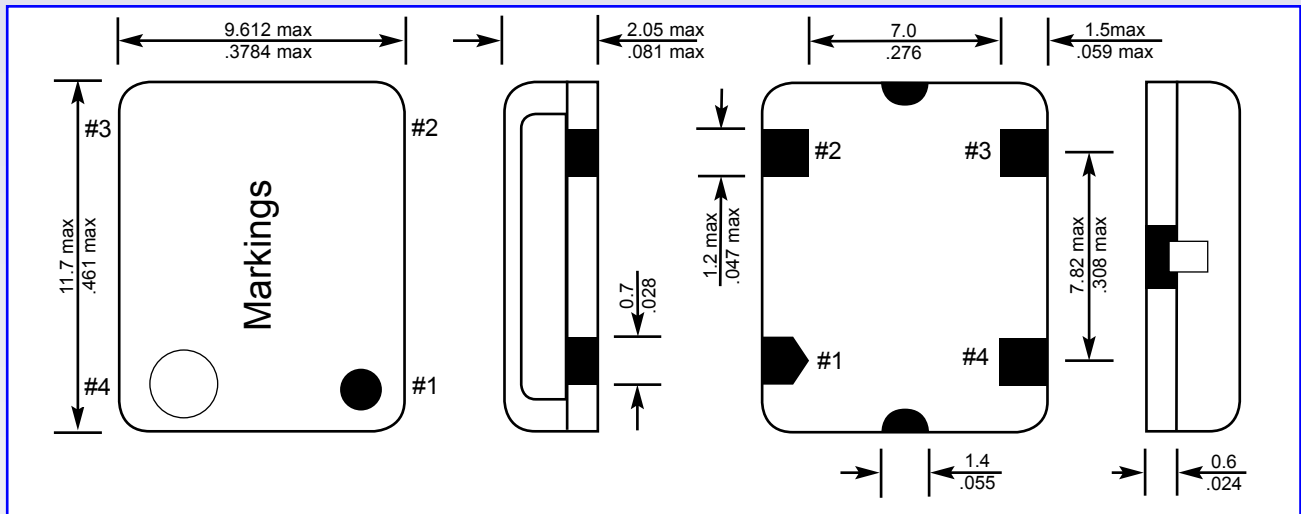
Specifications subject to change without notice

Revision: 9/20/02 B

Part Numbering Guide



Mechanical Dimensions



Pin Connections

Pin 1: Control Voltage or N/C
Pin 2: Case Ground
Pin 3: Output
Pin 4: Supply Voltage

Markings

Line 1: MMD
Line 2: Part Number
Line 3: Frequency
Line 4: Date Code

Suggested Solder Pad Layout

