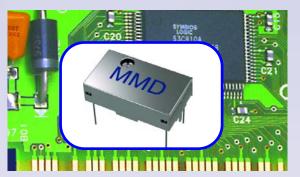
# MTA and MTB Series



Full-Size (7.3mm or 4.7mm height)



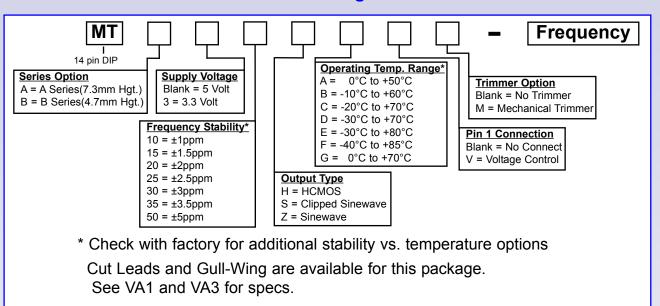
- Industry Standard Package
- 5.0 or 3.3 Volt
- HCMOS, Sinewave, Clipped Sine
- 1.000MHz to 1.000GHz
- Stability Down to ±1ppm

### **Electrical Specifications**

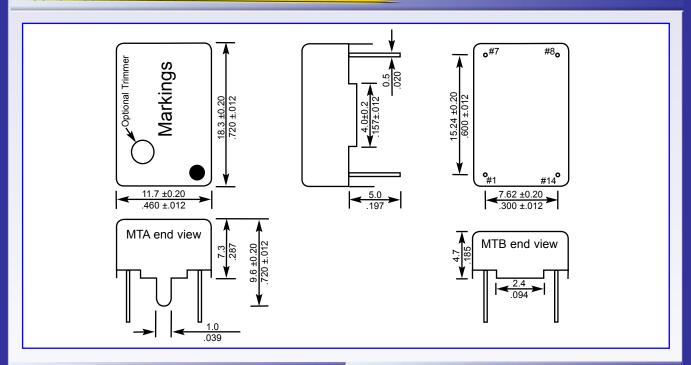
H Option = HCMOS Output	Frequency Range	1.000MHz to 160.000MHz
	Frequency Stability	Down to ±1ppm
	Load	10K Ohms // 15pF
	Supply Current	35mA max
	Output	Logic"1" Level = 0.9Vdd min.
		Logic"0" Level = 0.1Vdd max.
S Option = Clipped Sine Output	Frequency Range	8.000MHz to 300.000MHz
	Frequency Stability	Down to ±1ppm
	Load	10K Ohms // 15pF
	Supply Current	3mA max.
	Output	1.0V p-p min.
Z Option = Sinewave Output	Sinewave Output	8.000MHz to 1.000GHz
	Frequency Stability	Down to ±1ppm
	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 (Vdd)	Vdd = 5V	5.0Vdc ±5%
	Vdd = 3.3V	3.3Vdc ±5%
Internal Trim (Top of can)		±3ppm min.
Control Voltage	Vdd = 5V	2.5Vdc±2.0Vdc Positive Slope
	Vdd = 3.3V	1.65Vdc±1.5Vdc Positive Slope
Pin 1 Connection	Blank	No Connect
	V Option	±10ppm min.
Frequency Stability	vs. Aging	±1ppm per year max.
	vs. Voltage (with a 5% change)	±0.3ppm
	vs. Load (with a 10% change)	±0.3ppm
Symmetry	@50% of waveform w/CMOS load	40/60%



## **Part Numbering Guide**



#### **Mechanical Dimensions**



#### **Pin Connections**

Pin 1: Control Voltage or N/C

Pin 7: Case Ground

Pin 8: Output

Pin 14: Supply Voltage

#### **Markings**

Line 1: MMD

Line 2: Part Number

Line 3: Frequency

Line 4: Date Code