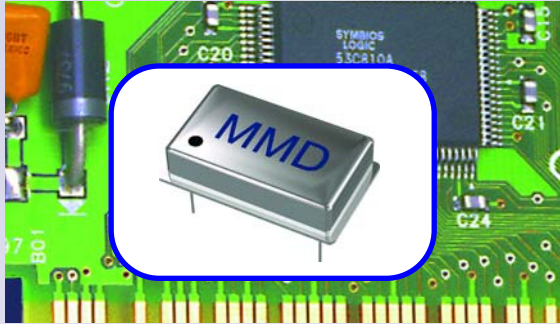


# MTF and MTG Series

**MMD**  
COMPONENTS

Full-Size (14 pin DIP)



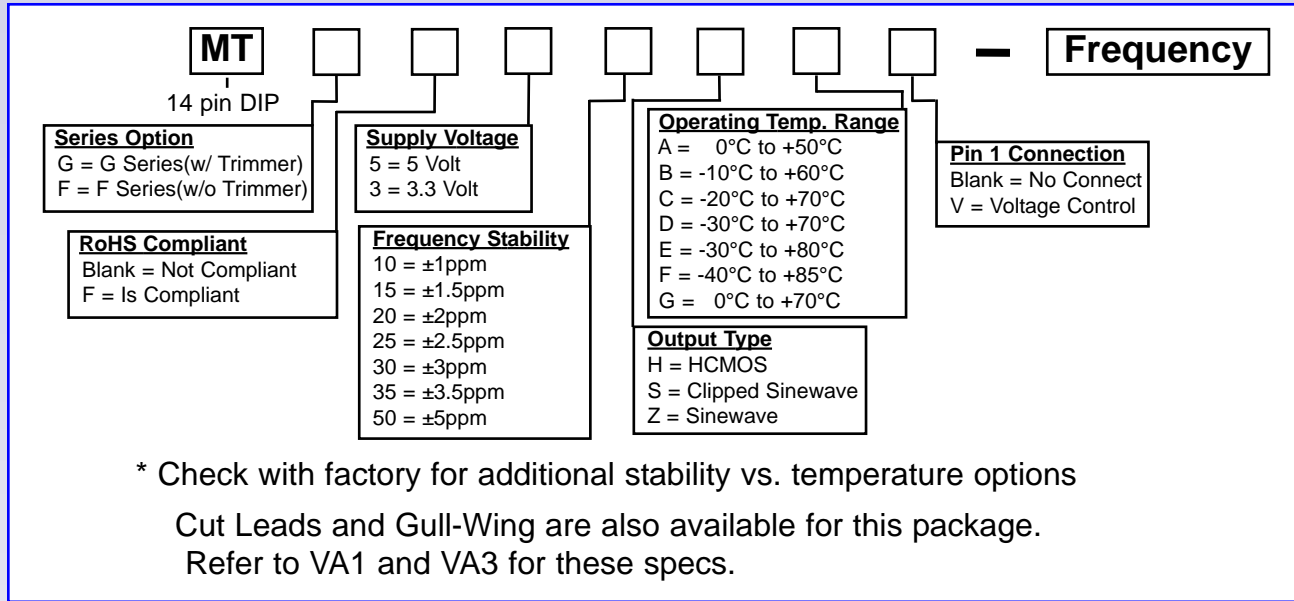
- Resistance Weld Seal TCXO
- 5.0 or 3.3 Volt
- HCMOS, Sinewave, Clipped Sine
- 1.000MHz to 160.000MHz
- Stability down to  $\pm 1$ ppm

## Electrical Specifications

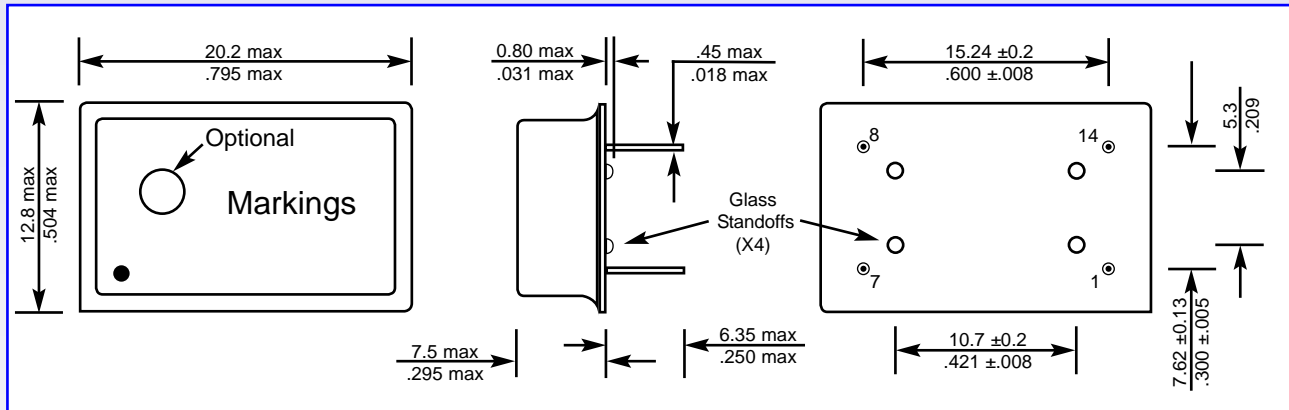
H Option = HCMOS Output	Frequency Range	1.000MHz to 160.000MHz
	Frequency Stability	Down to $\pm 1$ ppm
	Load	10K Ohms // 15pF
	Supply Current	35mA
	Output	Logic"1" Level = 0.9V <sub>dd</sub> min. Logic"0" Level = 0.1V <sub>dd</sub> max.
S Option = Clipped Sine Output	Frequency Range	8.000MHz to 160.000MHz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

Notes

## 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