

- Low Profile SMD Device
- Hermetically Sealed
- Tight Stability Over Temperature
- Low Power Consumption

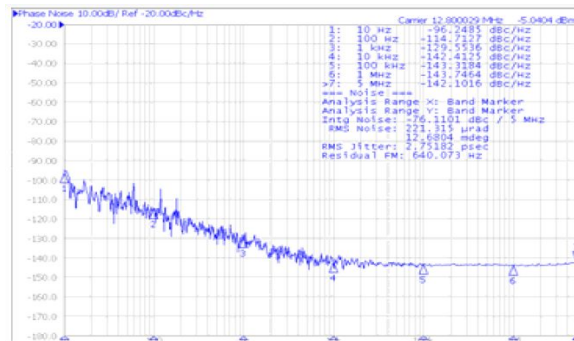


Electrical Specifications:

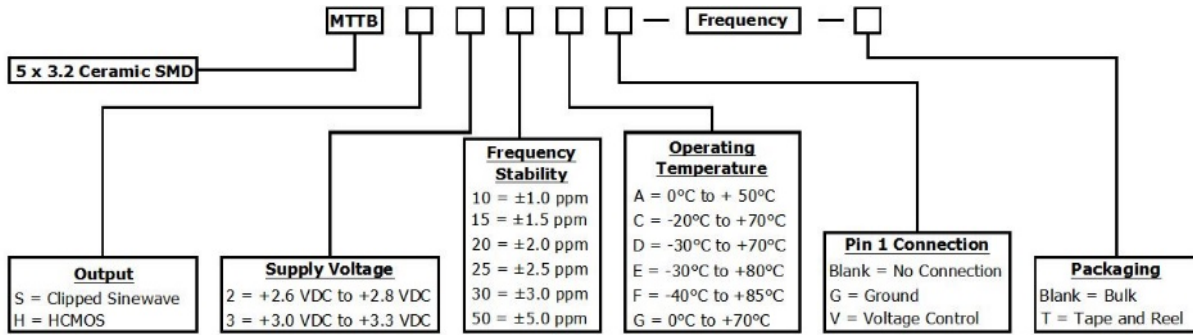
Frequency Range	10.000MHZ to 32.000MHZ			
Frequency Stability vs Temperature*	(See Frequency Stability vs Temperature Table)			
Frequency vs Time	±1 ppm per year			
Operating Temperature Range	(See Frequency Stability vs Temperature Table)			
Storage Temperature Range	-40°C to +85°C			
Supply Voltage (±10%)	+2.6 VDC to +2.8VDC	+3.0 VDC to +3.3VDC	+2.6 VDC to +2.8VDC	+3.0 VDC to +3.3VDC
Control Voltage	Vc = +1.40VDC +0.40VDC to +2.40VDC	Vc = +1.50VDC +0.50VDC to +2.80VDC	Vc = +1.40VDC +0.40VDC to +2.40VDC	Vc = +1.50VDC +0.50VDC to +2.80VDC
Supply Current	1.5mA max		5mA max	
Output Type	Clipped Sinewave		HCMOS	
Output Level	0.9 – 1.4 Vp-p		Logic "1" = 90% of Vdd Min Logic "0" = 10% of Vdd Max	
Load	10k Ohms // 10pF		15pF	
Harmonics	-10dBc max			
Frequency Tuning Range	±3 ppm to ±25 ppm			
Phase Noise	-135dBc/Hz max (at 1kHz offset)			
Start-up Time	2ms max (Output level will be 90% from the final value)			

* Inclusive of Temperature., Load, and Voltage

Phase Noise



Part Number Guide



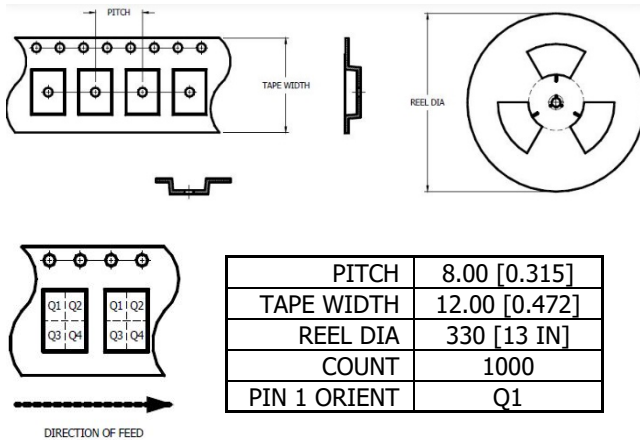
Please Consult with MMD Sales Department for any other Parameters or Options

Frequency Stability vs Temperature Table

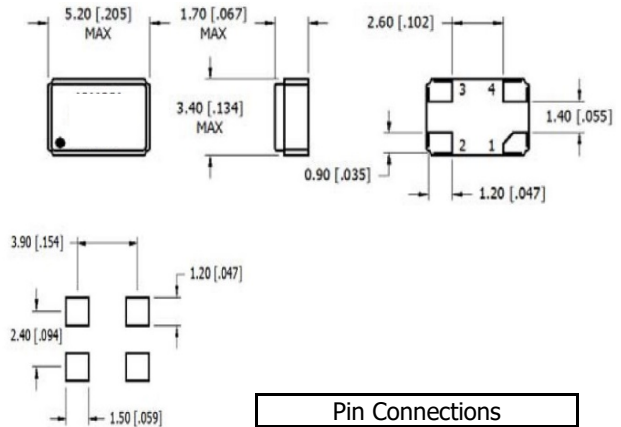
Code	Stability	10	15	20	25	30	50
	Temp	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm	±3.0ppm	±5.0ppm
A	0°C TO +50°C	•	•	•	•	•	•
B	0°C TO +70°C	•	•	•	•	•	•
C	-20°C TO +70°C	•	•	•	•	•	•
D	-30°C TO +70°C	•	•	•	•	•	•
E	-30°C TO +80°C	•	•	•	•	•	•
F	-40°C TO +85°C	•	•	•	•	•	•

• = Available

Tape & Reel Dimensions



Mechanical Details



Notes: UNLESS OTHERWISE SPECIFIED

- Applicable Standards / Specifications
ANSI Y14.5M, Dimensions and Tolerances
EIA-481-B, 8mm through 200mm Embossed Carrier Tapping and 8mm and 12mm Punched Carrier Tapping of Surface Mount Components for Automatic Handling.
- Dimensions are in millimetres.
- Tolerances are ±0.1 [0.004] mm unless otherwise specified.
- Do not scale drawing.

Notes:

- Dimension in brackets are in inches.
- External Bypass Capacitor is recommended.
- Pads Mail:
Base or under conductor 1.3 to 8.8 microns
Final plating; A(99.97%0.5 to 1.2 microns