

MTT Series – 5 x 3.2 Ceramic SMD VCTCXO



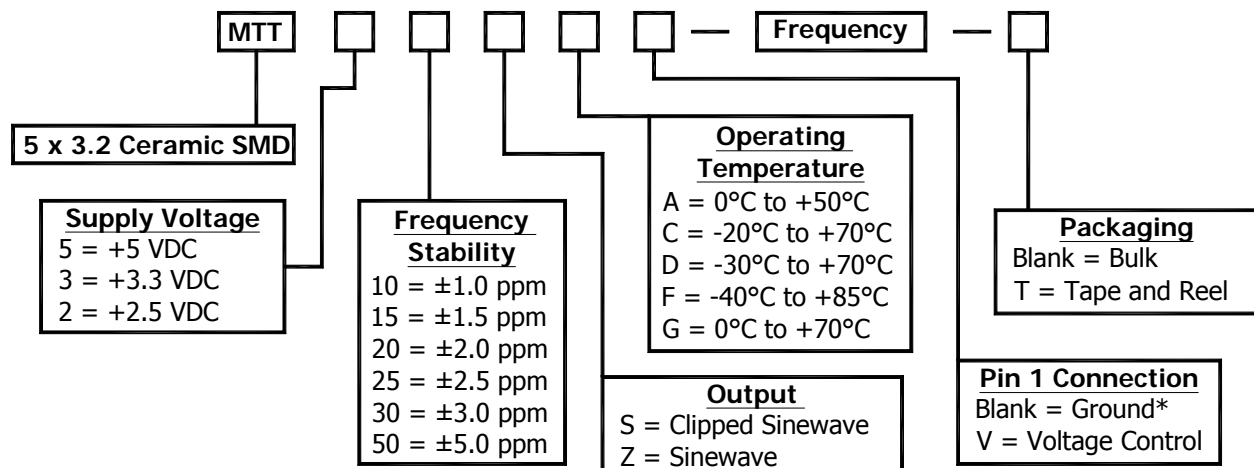
- Low Profile SMD Device
- Hermetically Sealed
- Tight Stability Over Temperature
- Low Power Consumption
- Excellent Phase Noise



ELECTRICAL SPECIFICATIONS:

Frequency	10.000 MHz to 40.000 MHz		
Frequency Stability vs Temperature, Load and Voltage	(See Frequency Stability vs Temperature Table)		
Aging	±1 ppm /year max		
Operating Temperature Range	(See Frequency Stability vs Temperature Table)		
Storage Temperature Range	-40°C to +85°C		
Supply Voltage (Vdd)	+2.50 VDC ±5%	+3.30 VDC ±5%	+5.00 VDC ±5%
Supply Current	2.0 mA max		
Frequency Tuning Range	±5 ppm to ±19 ppm		
Control Voltage	V(nom) = +1.25 VDC +0.25 VDC to +2.25 VDC	V(nom) = +1.65 VDC +0.65 VDC to +2.65 VDC	V(nom) = +2.5 VDC +0.5 VDC to +4.5 VDC
Output	Clipped Sinewave or Sinewave		
Output Level	0.8 V p-p		
Output Load	10k Ohms // 10pF		
Start Up Time	5mSec max		
Phase Noise (with 32.000MHZ Crystal)	Less than -110dBc/Hz at 100Hz Less than -130dBc/ at 1kHz		

PART NUMBER GUIDE:



Please Consult with MMD Sales Department for any other Parameters or Options
*If no Voltage Control is specified, Pin 1 must be grounded.

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

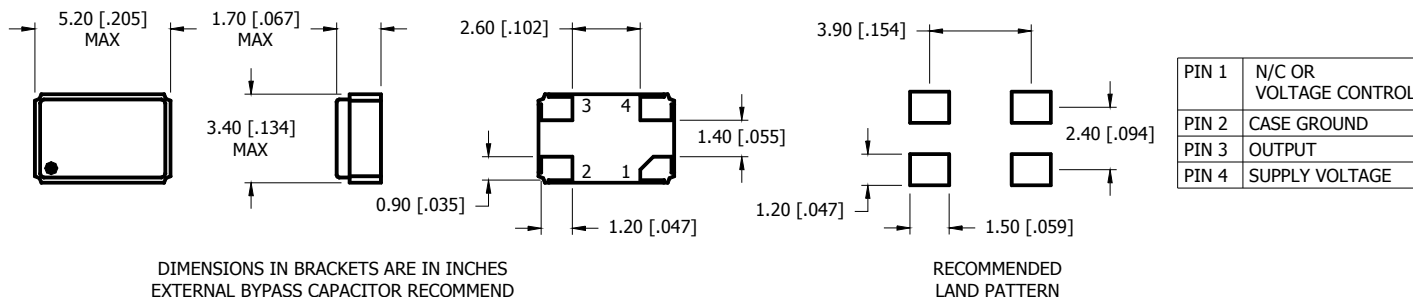
FREQUENCY STABILITY vs TEMPERATURE TABLE:

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

● = Available

□ = Consult with the Manufacture

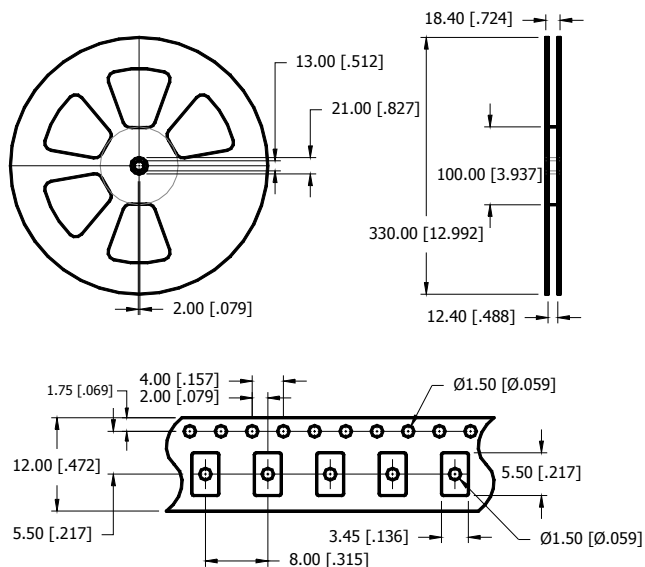
MECHANICAL DIMENSIONS:



ENVIRONMENTAL / MECHANICAL:

Shock	MIL-STD-883, Method 2002, Condition B
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-883, Method 215
Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Fine Leak Test	MIL-STD-883, Method 1014, Condition A-2

TAPE and REEL DIMENSIONS:



PHASE NOISE:

PHASE NOISE PLOT
COMING SOON

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