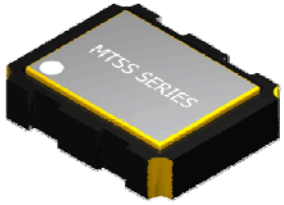
MTSS Series – 3.2 X 2.5 Ceramic SMD VCTCXO

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



Frequency Range	14.400MHZ TO 32.768MHZ	
Frequency Stability vs Temperature*	(See Frequency Stability vs Temperature Table)	
Operating Temperature Range	(See Frequency Stability vs Temperature Table)	
Storage Temperature Range	-40°C to +85°C	
Aging	±1.0 per year	
Supply Voltage	2.50VDC to +2.80VDC	+3.00VDC to 3.30VDC
Supply Current	2mA max	
Output Type	Clipped Sinewave	
Output Level	0.8 Vp-p min	
Output Load	10k Ohms//10pF	
Control Voltage	Vc = +1.40VDC +0.40VDC to +2.40VDC	Vc = +1.5VDC +0.50VDC to +2.50VDC
Frequency Tunning Range	±8 ppm to ±15 ppm	
Phase Noise	100Hz	-115dBc/Hz
	1kHz	-135dBc/Hz
	10kHz	-145dBc/Hz
* Inclusive of Temperature., Load and Voltage		

Environmental & Mechanical Detail

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

Marking Detail

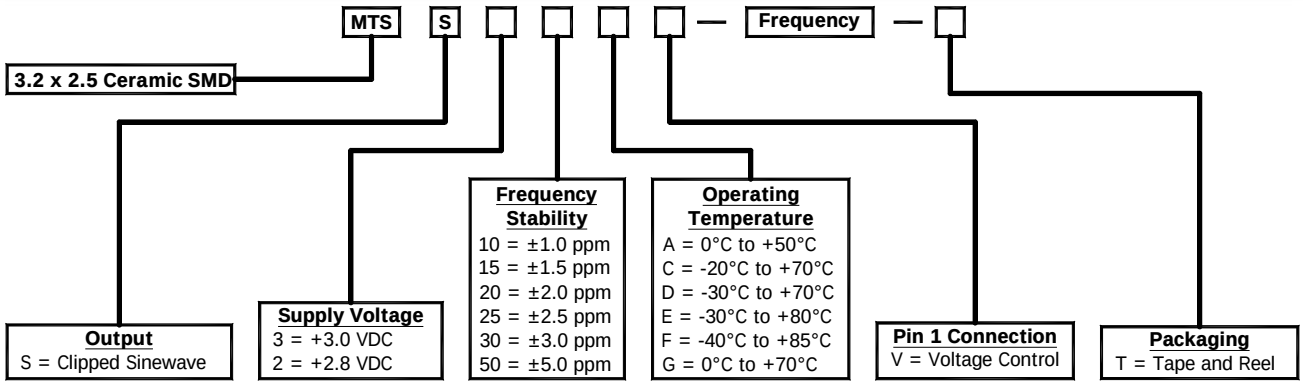
First Line = MXX.X (not to exceed 5 characters)		
M	=	MMD
XX.X	=	Device Frequency (four digits including decimal point)
Second Line = SYWW (not to exceed 5 characters)		
S	=	Internal Code
YYWW	=	Date Code (Year/Week)

MMD MONITOR/QUARTZEK – An ILSI Company,
5458 Louie Lane, Reno, NV 89511
Phone: (775) 851-8880, www.mmdcomp.com

Revision:	07/31/13 K

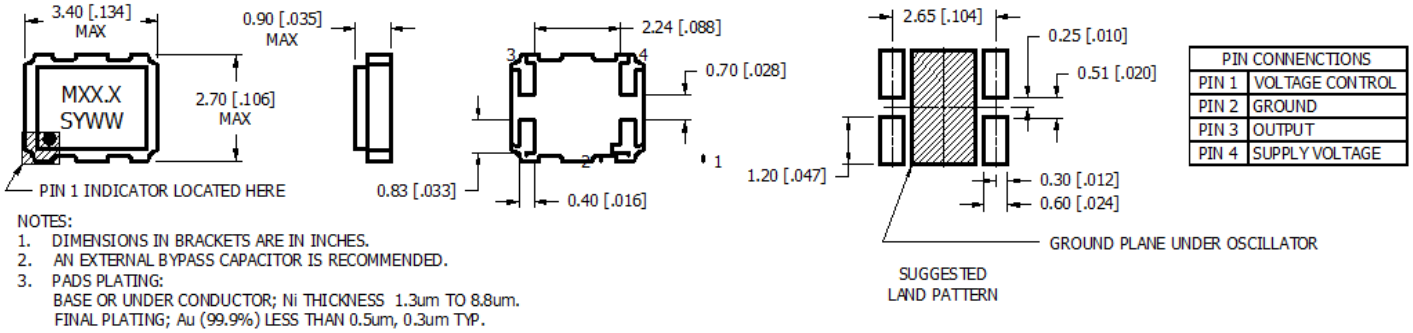
Revisions only with customer approval

Part Number Guide



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

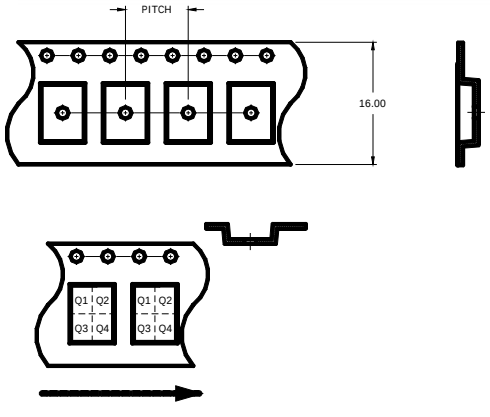
Mechanical Details

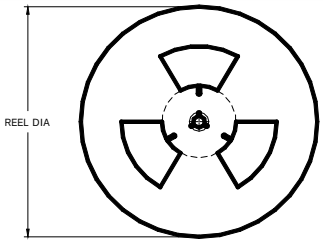


PIN CONNENCTIONS	
PIN 1	VOLTAGE CONTROL
PIN 2	GROUND
PIN 3	OUTPUT
PIN 4	SUPPLY VOLTAGE

NOTES:
1. DIMENSIONS IN BRACKETS ARE IN INCHES.
2. AN EXTERNAL BYPASS CAPACITOR IS RECOMMENDED.
3. PADS PLATING:
   BASE OR UNDER CONDUCTOR; Ni THICKNESS 1.3um TO 8.8um.
   FINAL PLATING; Au (99.9%) LESS THAN 0.5um, 0.3um TYP.

Tape & Reel Dimensions





PITCH	4.00 [.157]
TAPE WIDTH	8.00 [.315]
REEL DIA	180 [7.0]
COUNT	1000
PIN 1 ORIENT.	Q1

NOTES: UNLESS OTHERWISE SPECIFIED
1. Applicable Standards / Specifications
   ANSI Y14.5M, Dimensions and Tolerances
   EIA-481-B, 8 mm through 200mm Embossed Carrier Taping and 8 mm and 12 mm Punched Carrier Taping of Surface Mount Components for Automatic Handling.
2. Dimensions are in millimeters [inch].
3. Tolerances are ±0.1 [.004] mm unless otherwise specified.
4. Do not scale drawing.

MMD MONITOR/QUARTZEK – An ILSI Company,
5458 Louie Lane, Reno, NV 89511
Phone: (775) 851-8880, www.mmdcomp.com

RoHS Compliant Lead Free

Revision:	07/31/13 K