MVIH Series VCXO

- **Hermetically Sealed Ceramic SMD Package**
- **+2.5VDC, +3.3VDC, or +5.0VDC Supply Voltage**
- **Tape and Reel Available**
- **RoHS Compliant**



Supply Voltage (Vdd)	+2.5VDC ±10%	+3.3DC ±10%	+5.0VDC ±10%
Frequency Range	1.544MHZ TO 180.000MHZ		1.544MHZ TO 50.000MHZ
Frequency Stability at +25°C	±10 ppm		
Frequency Stability (Inclusive of Temp., Load, Voltage and Aging)	(See Part Number Guide for Options)		
Operating Temp.Range	(See Part Number Guide for Options)		
Storage Temp. Range	-40°C to +85°C		
Supply Current	60mA max	60mA max	85mA max
Load	15pF	30pF	30pF
Output	HCMOS		
Logic "0"	10% Vdd max		
Logic "1"	90% Vdd min		
Symmetry (50% of waveform)	40%/60%		
Rise / Fall Time (10% to 90%)	10nSec max		
Start Time	10mSec max		
Control Voltage	1.25 VDC ±1.00 VDC	1.65 VDC ±1.50 VDC	2.50 VDC ±2.00 VDC
Linearity	(See Part Number Guide for Options)		
Pullability	(See Part Number Guide for Options)		
Tristate	Logic "0" or Ground Osc Disabled High Impedance on Pin 4		
	Logic "1" (or no connect) Output Enabled		

Environmental & Mechanical Detail

Shock	MIL-STD-883, Meth 2002, Cond B
Solderability	MIL-STD-883, Meth 2003
Vibration	MIL-STD-883, Meth 2007, Cond A
Reflow Solderability	260°C for 10 seconds
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A

Marking Detail

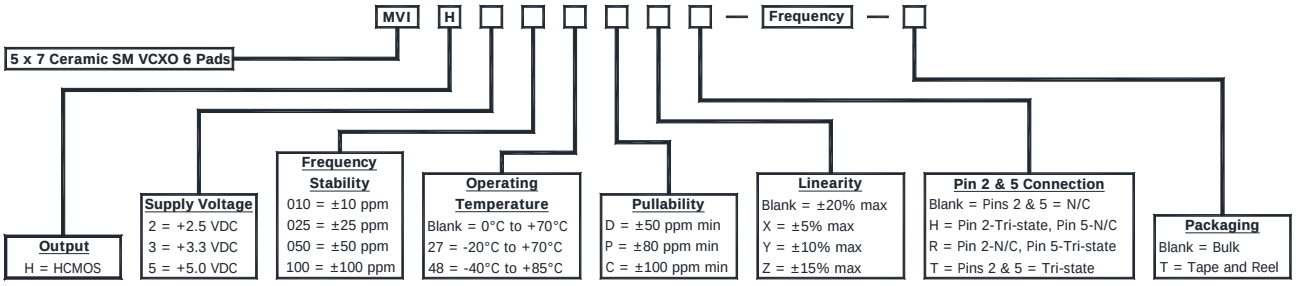
Line 1 = MXXXXX		
M	=	MMD
XXXXX	=	Frequency in MHZ
Line 2 = SYYWWL		
S	=	Internal Code
YYWW	=	4 Numerical Digit Date Code (Year / Week) Jan 27 2011=1105
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Black dot to denote Pin 1		

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

Revision:	07/31/13 P

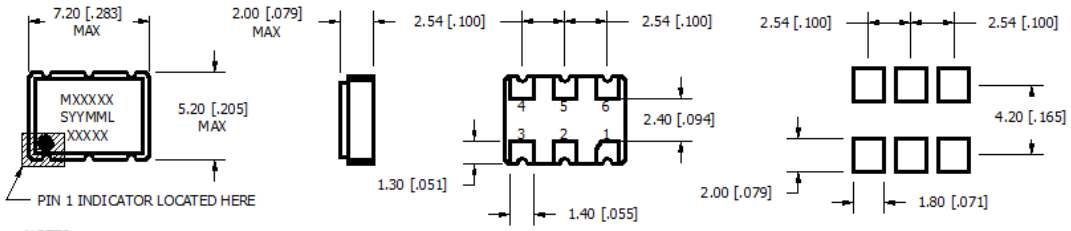
Revisions only with customer approval

Part Number Guide



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

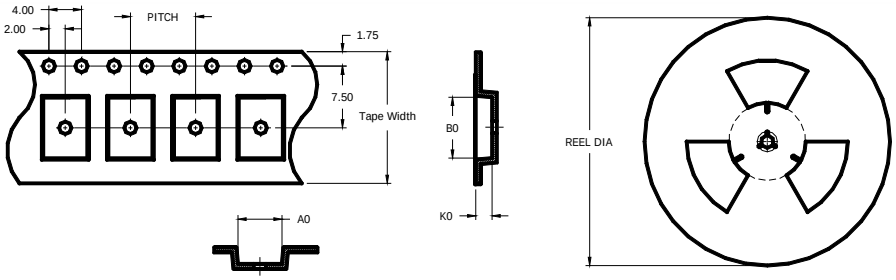
Mechanical Details

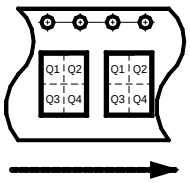


PIN CONNENCTIONS	
PIN 1	VOLTAGE CONTROL
PIN 2	ENABLE/DISABLE
PIN 3	GROUND
PIN 4	OUTPUT
PIN 5	COMP OUTPUT
PIN 6	SUPPLY VOLTAGE

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





DIRECTION OF FEED

AO	1.85 [.073]
BO	2.25 [.089]
K0	0.95 [.037]
PITCH	4.00 [.157]
TAPE WIDTH	12.00 [.471]
REEL DIA	180 [7.0]
QTY PER REEL	500
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.

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RoHS Compliant Lead Free