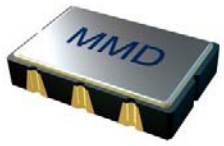
MVIH Series – 5mm x 7mm HCMOS VCXO

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



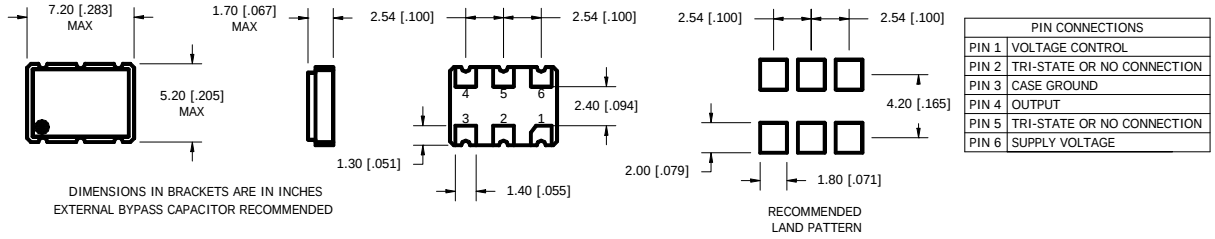
ELECTRICAL SPECIFICATIONS:

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)		

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS:

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

MECHANICAL DIMENSIONS:



DIMENSIONS IN BRACKETS ARE IN INCHES
EXTERNAL BYPASS CAPACITOR RECOMMENDED

RECOMMENDED LAND PATTERN

PIN CONNECTIONS	
PIN 1	VOLTAGE CONTROL
PIN 2	TRI-STATE OR NO CONNECTION
PIN 3	CASE GROUND
PIN 4	OUTPUT
PIN 5	TRI-STATE OR NO CONNECTION
PIN 6	SUPPLY VOLTAGE

PART NUMBERING GUIDE:

MVI H ☐ ☐ ☐ ☐ ☐ ☐ ☐ — Frequency — ☐

5 x 7 Ceramic SM VCXO 6 Pads

Output
H = HCMOS

Supply Voltage
2 = +2.5 VDC
3 = +3.3 VDC
5 = +5.0 VDC

Frequency Stability
010 = ±10 ppm
025 = ±25 ppm
050 = ±50 ppm
100 = ±100 ppm

Operating Temperature
Blank = 0°C to +70°C
27 = -20°C to +70°C
48 = -40°C to +85°C

Pullability
D = ±50 ppm min
P = ±80 ppm min
C = ±100 ppm min

Linearity
Blank = ±20% max
X = ±5% max
Y = ±10% max
Z = ±15% max

Pin 2 & 5 Connection
Blank = Pins 2 & 5 = N/C
H = Pin 2-Tri-state, Pin 5-N/C
R = Pin 2-N/C, Pin 5-Tri-state
T = Pins 2 & 5 = Tri-state

Packaging
Blank = Bulk
T = Tape and Reel

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

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