MIMH SERIES – 5 x 7 Ceramic Oscillator

- **5 x 7 Ceramic SMD 4 Pads Oscillator**
- **Wide Frequency Range**
- **-55°C to +125°C Operation**
- **RoHS Compliant**



ELECTRICAL SPECIFICATIONS:

Frequency Range		1.500MHZ to 156.520MHZ	
Freq Tolerance @ +25°C		±25ppm	
Freq 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		-55°C to +125°C	
Supply Voltage (Vdd)		+3.3 VDC ±5%	+5.0 VDC ±5%
Supply Current	1.500MHZ to 20.000MHZ	12 mA max	20 mA max
	21.000MHZ to 50.000MHZ	15 mA max	35 mA max
	51.000MHZ and above	40 mA max	60 mA max
Waveform		HCMOS	
Logic "0"		10% Vdd max	
Logic "1"		90% Vdd min	
Symmetry (50% of wavefrom)		(See Part Number Guide for Options)	
Load		5 TTL Gates or 30pF Load max	10 TTL Gates or 50pF Load max
Rise / Fall Time (20% to 80%)		6 nSec max	
Start Time		10 mSec max	
Tri-state Operation		Vih = 70% of Vdd min to Enable Output Vil = 30% max or grounded to Disable Output (High Impedance)	

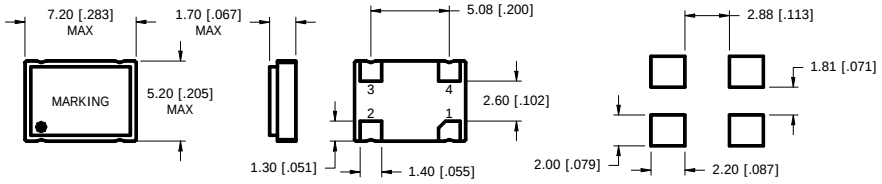
ENVIRONMENTAL/MECHANICAL SPECIFICATIONS:

Shock	MIL-STD 883, Method 2002, Test Condition B
Vibration	MIL-STD 883, Method 2007, Test Condition B
Reflow Solder	+160°C for 120 sec max +260°C for 10 sec. max
Hermeticity	MIL-STD 883, Method 1014, Test Condition C
Solderability	MIL-STD 883, Method 2003 (No Aging)

MARKING DETAILS:

Line 1 = MXXXXX		
M	=	MMD COMPONENTS
XXXXX	=	Frequency in MHZ
Line 2 = SYYMML		
S	=	Internal Code
YYMM	=	4 Digit Date Code (Year / Month)
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Black dot to denote Pin 1		

MECHANICAL DIMENSIONS:

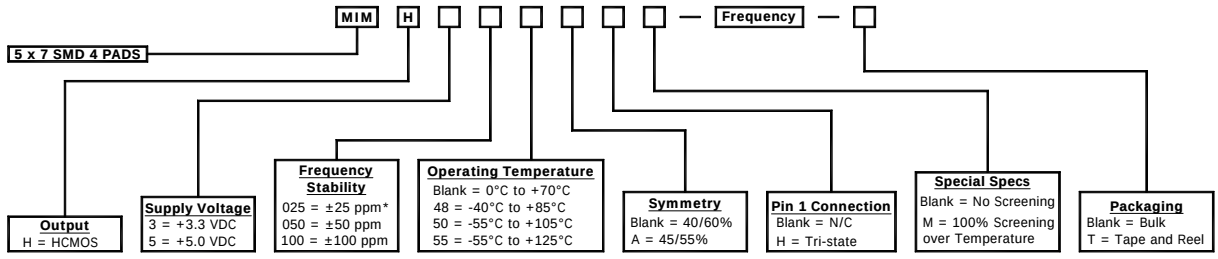


Dimension in Brackets are in Inches
External Bypass Capacitor is Recommended

Recommended Land Pattern

Pin Connections	
Pin 1	Tri-state or N/C
Pin 2	Case Ground
Pin 3	Output
Pin 4	Supply Voltage

PART NUMBERING GUIDE:



Please Consult with MMD Sales Department for any other Parameters or Options
*±25 ppm between -40°C to +85°C only

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