

MTH Series



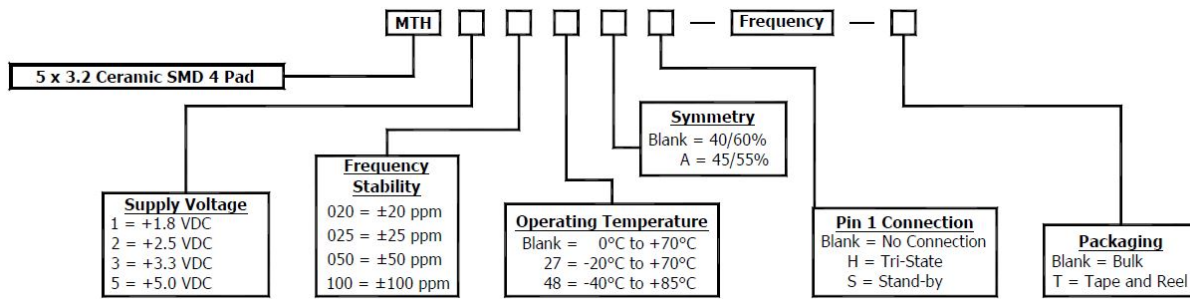
- Low Profile SMD Package
- Hermetically Sealed
- Standby & Tristate Available
- Wide Frequency Range



Electrical Specifications:

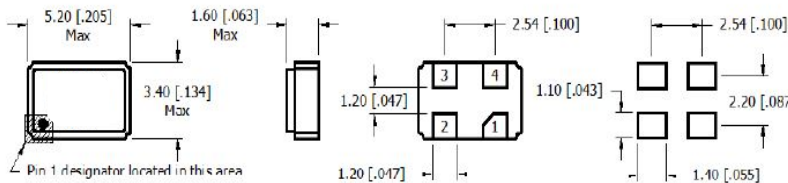
Frequency Range	1.000MHZ to 160.000MHZ	1.000MHZ to 160.000MHZ	1.000MHZ to 160.000MHZ	1.000MHZ to 106.250MHZ	
Temperature Stability*	(See Part Number Guide for Options)				
Aging (+25°C ±3°C)	±3ppm, ±5ppm for first year				
Operating Temperature Range	(See Part Number Guide for Options)				
Storage Temperature Range	-55°C to +125°C				
Supply Voltage (±10%)	+1.80 VDC	+2.50 VDC	+3.30 VDC	+5.00 VDC	
Supply Current	1.000MHZ to 34.999MHZ	8mA	10mA	16mA	25mA
	35.000MHZ to 60.000MHZ	10mA	20mA	25mA	50mA
	60.001MHZ to 99.999MHZ	25mA	30mA	40mA	60mA
	100.000MHZ to 106.250MHZ	35mA	40mA	50mA	80mA
	106.251MHZ to 160.000MHZ	35mA	40mA	50mA	NA
Output Type	HCMOS				
Symmetry (50% of waveform)	40%/60% (45%/55% option)				
Rise/Fall Time (10% to 90% of Supply Voltage)	10nS max				
Load	15pF				
Start-up Time	10mSec max				
Period Jitter: pk-pk	±100ps max				
Period Jitter: One Sigma	±25ps max				
Phase Jitter (12KHZ to 20MHZ)	1ps max				
* Inclusive of Temperature., Load and Voltage					
Pin 1 Function					
Tri-state Operation	Vih = 70% of Vdd min to Enable Output Vil = 30% max or grounded to Disable Output (High Impedance)				
Standby Current	10µA max				

Part Number Guide



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

Mechanical Details



Pin Connections	
Pin 1	NC, Tri-state or Stand-by
Pin 2	Case Ground
Pin 3	Output
Pin 4	Supply Voltage

Dimension in brackets are in inches.

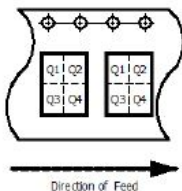
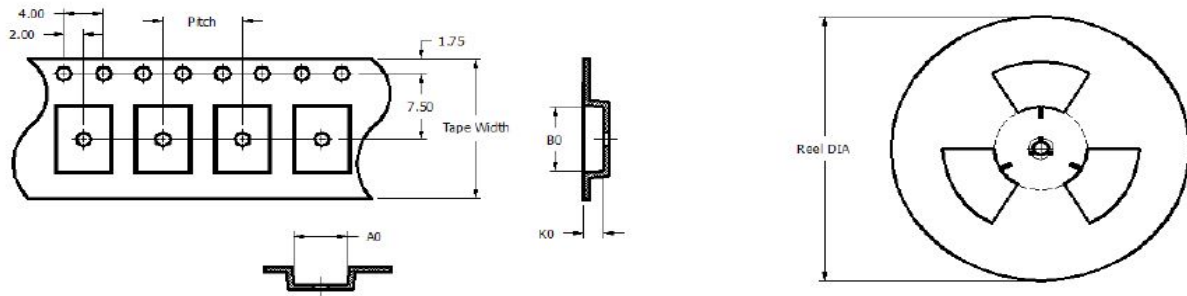
Recommended Land Pattern

External Bypass Capacitor is recommended.

Pads Plating

1. Base or under conductor Ni thickness; 1.3 to 8.8 microns
2. Final plating; A(99.97%0.5 to 1.2 microns)

Tape & Reel Dimensions



Pitch	4.00 [0.157]
Tape Width	8.00 [0.315]
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, 8mm through 200mm Embossed Carrier Tapping and 8mm and 12mm Punched Carrier Tapping of Surface Mount Components for Automatic Handling.
2. Dimensions are in millimetres [inch].
3. Tolerances are ±0.1 [0.004] mm unless otherwise specified.
4. Do not scale drawing.

INTERNAL ONLY INFORMATION