

MDH & MDT Series Oscillator



- o Plastic 4 J-Lead Package
- o HCMOS
- o Tri-state Function
- o Tape and Reel Package Available



Frequency		1.000MHZ to 125.000MHZ			
Frequency Stability (Inclusive of Temperature, Load and Voltage)		See Part Number Guide			
Aging @ +25°C		±5 ppm per year max			
Operating Temperature Range		See Part Number Guide			
Storage Temperature Range		-55°C to +125°C			
Output Waveform		TTL		HCMOS	
Supply Voltage (Vdd)		+3.3 VDC ±10%	+5.0 VDC ±10%	+3.3 VDC ±10%	+5.0 VDC ±10%
Supply Current (unloaded)		25mA	45mA	25mA	45mA
Load		5TTL or 30pF	10TTL or 50pF	15pF	30pF
Logic “0”		0.4V max		0.5V max	
Logic “1”		2.4.V min		Vdd-0.5V min	
Rise/Fall Time		4nSec max			
Start Up Time		10mSec max			
Duty Cycle	1.000MHZ to 66.000MHZ	45%/55% (TTL @ 1.4V Level / Cmos @ 50% Waveform)			
	66.000MHZ and above	40%/60% (TTL @ 1.4V Level / Cmos @ 50% Waveform)			
Jitter	1.000MHZ to 33.000MHZ	50pSec max (RMS)		50pSec max (RMS)	
	33.000MHZ and above	30pSec max (RMS)		40pSec max (RMS)	

Environmental & Mechanical Detail

Shock	MIL-STD-883, Method 2002 Cond B
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-202, Method 215
Vibration	MIL-STD-883, Method 2007, Cond A
Gross Leak Test	MIL-STD-883, Method 1014, Cond C

Marking Detail

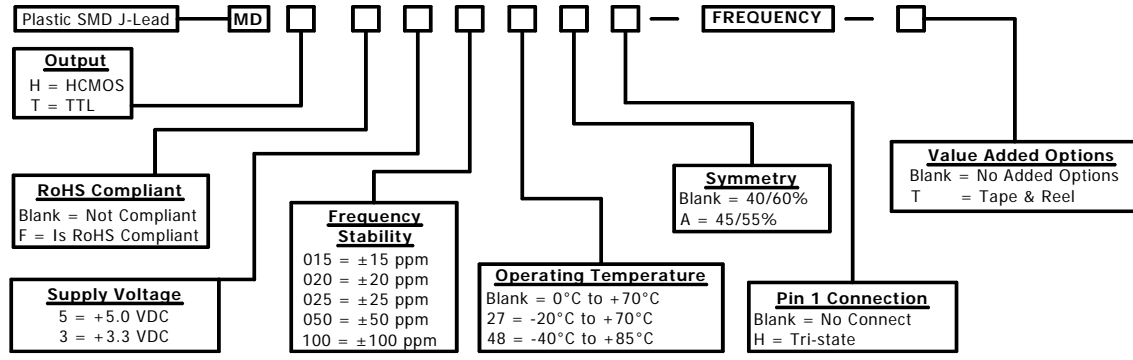
Line 1 = MXXXXX		
M	=	MMD
XXXXX	=	Frequency in MHZ
Line 2 = SYWWL		
S	=	Internal Code
YYWW	=	4 Numerical Digit Date Code (Year / Week)
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Pin 1 Designator		



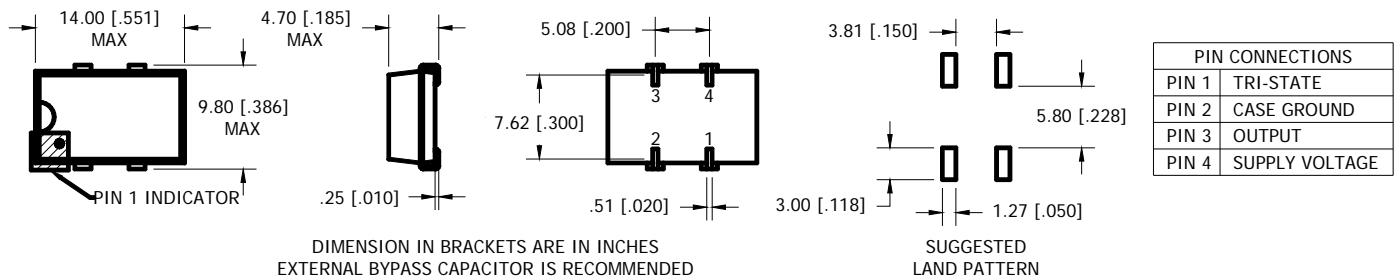
MMD Monitor/Quartztek
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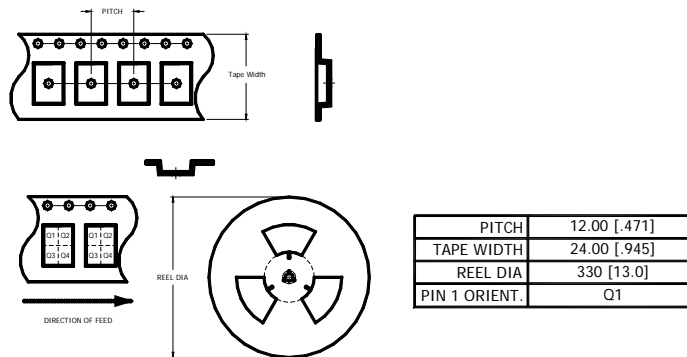
Part Number Guide



Mechanical Details



Tape & Reel Dimensions



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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