MLH SERIES – Ceramic J-Lead HCMOS/TTL Oscillator



- Hermetically Sealed Ceramic SMD Package
- Wide Frequency Range
- Available to -55°C to +125°C Operating
- RoHS Compliant Available

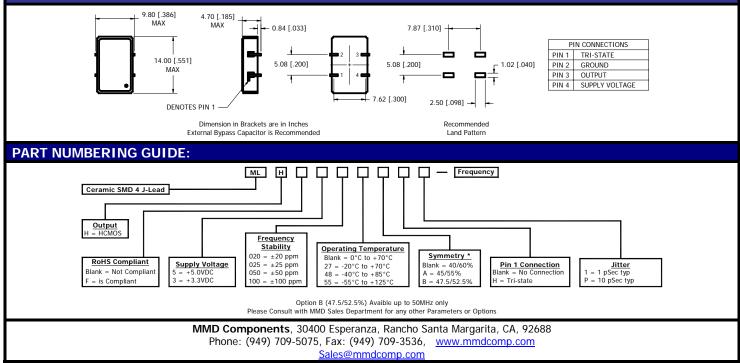
ELECTRICAL SPECIFICATIONS:

Frequency Range				1.000MHZ to 70.000MHZ			
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			-55°C to +125°C				
Waveform				HCMOS	TTL		
Logic "0"				10% Vdd max	0.5V max		
Logic "1"				90% Vdd min	2.5	2.5V max	
Symmetry				40%/60% Optional 45%/55%)% of wavefrom w/HCMOS Load		40%/60% Optional 45%/55% 1.4Vdc w/TTL Load	
Load			+3.3VDC =5 TTL or 30 pF max / +5.0VDC = 10 TTL Gates or 50pF Load max				
Rise / Fall Time (20% to 80%)			10 nSec max				
Start Time			10 mSec min				
Supply Voltage (Vdd)				+3.3 VDC ±10% +5.0 VDC 10%		VDC 10%	
Jitter			Option 1 = 1 pSec typ / Option P = 10 pSec typ				
Supply Current Chart							
Frequency Range	Current	Supply		Frequency Range	Current (mA)	Supply	
1.000MHZ to 25.000MHz	9mA max	+5.00 VDC		1.000MHZ to 30.000MHz	10mA max	+3.3 VDC	
25.000MHZ to 40.000MHZ	20mA max	+5.00 VDC		30.000MHZ to 50.000MHZ	20mA max	+3.3 VDC	
40.000MHZ to 70.000MHZ	30mA max	+5.00 VDC		50.000MHZ to 70.000MHZ	30mA max	+3.3 VDC	

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS:

Humidty	85% RH, 85°C, 48 Hours			
Hermetic Seal	Leak Rate 2 X 10 ⁻⁸ ATM-cm ³ /sec max			
Solderability	MIL-STD-202G, Method 208			
Reflow Solderability	260°C for 10 seconds			
Vibration	MIL-STD-202G, Method 204 35G, 50 to 2000 Hz			
Shock	MIL-STD-202G, Method 203 Test Cond E, 1000G's, 1/2 Sinewave			
MIL-STD-883	Available with Level B Screening			

MECHANICAL DIMENSIONS:



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