

MVJL/MVJP Series PECL/LCPECL VCXO



- Hermetically Sealed Ceramic SMD Package
- Wide Frequency Range
- Available to -55°C to +125°C Operating
- Less than 1 pSec Jitter



Frequency Range	70.000 MHz to 622.080 MHz	
Frequency Stability (Inclusive of Temp., Load and Voltage)	(See Part Number Guide for Options)	
Aging	±5 ppm / yr max	
Operating Temp. Range	(See Part Number Guide for Options)	
Storage Temp. Range	-55°C to +125°C	
Supply Voltage (Vdd)	+3.3 VDC ±5% (LVPECL)	+5.0 VDC ±5% (PECL)
Supply Current	60mA	85mA
Control Voltage	+1.65VDC ±1.50VDC	+2.50VDC ±2.00VDC
Logic "0"	Vdd - 1.620 Vdc max	
Logic "1"	Vdd - 1.025 Vdc min	
Symmetry (50% of waveform)	(See Part Number Guide for Options)	
Load	50 Ohms into Vdd-2.00 VDC	
Rise / Fall Time (20% to 80%)	5nSec max	
Start Time	5mSec max	
Jitter (RMS)	Less than 1 pSec	
Linearity	±10% max	
Pullability	(See Part Number Guide for Options)	
Tri-State Operation	Voh = 70% of Vdd min or No Connection to Enable Output Vol = 30% max or grounded to Disable, Output (High Impedance)	

Environmental & Mechanical Detail

Humidity	85% RH, 85°C, 48 Hours
Hermetic Seal	Leak Rate 2×10^{-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, ½ Sinewave
MIL-STD-883	Available with Level B Screening

Marking Detail

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

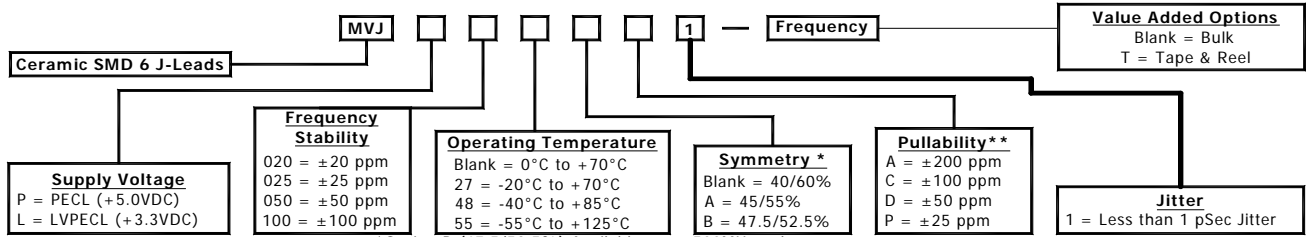


MMD Monitor/Quartztek
 30400 Esperanza, Rancho Santa Margarita, CA, 92688
 Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
 Sales@mmdcomp.com



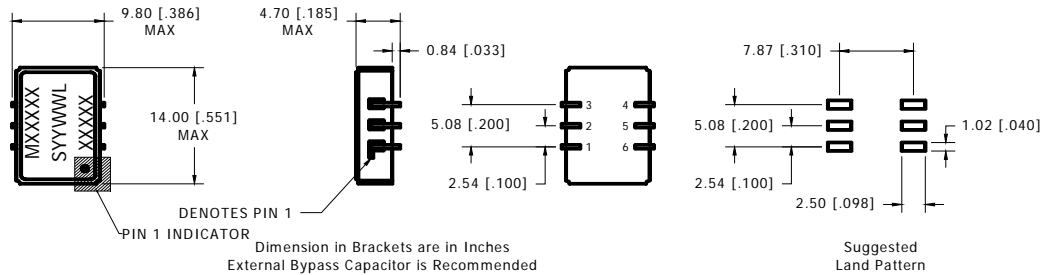
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Part Number Guide



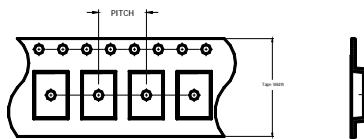
*Option B (47.5/52.5%) Available up to 500MHz only
 **200ppm Pullability not available with 3.3V Supply
 Please Consult with MMD sales department for any other parameters or options.

Mechanical Details

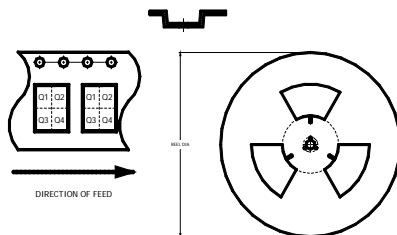


PIN CONNECTIONS	
PIN 1	VOLTAGE CONTROL
PIN 2	ENABLE/DISABLE
PIN 3	GROUND
PIN 4	OUTPUT
PIN 5	COMP. OUTPUT
PIN 6	SUPPLY VOLTAGE

Tape & Reel Dimensions



PITCH	12.00 [.471]
TAPE WIDTH	24.00 [.945]
REEL DIA	330 [13.0]
PIN 1 ORIENT.	Q1
COUNT	500



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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