MVSC Series VCXO

- **RoHS Compliant**
- **Hermetically Sealed**
- **3.2 x 2.5 Ceramic SMD Package**



Two output Frequency options	27.000MHz & 55.000MHz		
Frequency Stability *	(See Part Number Guide for Options)		
Frequency Pull Range	±100ppm min(STD),±150ppm min (Option)		
Aging (+25°C ±3°C) Per Year	±3ppm max		
Supply Voltage (±10%)	+1.80 VDC	+2.50VDC	+3.30VDC
Supply Current	10mA max		
Pin 1 Control Voltage	0.9V ± 0.75V	1.25V ± 1.05V	1.65V ± 1.35V
Linearity	10% max		
Slope	Positive		
Output Type	CMOS		
Logic 0 Low Output	10% Vdd Max		
Logic 1 High Output	90%Vdd Min		
Symmetry (50% of waveform)	45% to 55%		
Rise/Fall Time (10% to 90% of Supply Voltage)	5nSec max		
Load Capacity	15pF		
Start-up Time	5mSec max		
Phase Jitter (12KHz—20 MHz)	1.0ps max		
Phase Period Jitter	2.5ps max		
Temperature Operating Range	(See Part Number Guide for Options)		
Temperature Storage Range	-55°C to +125°C		
*Inclusive of Temperature, Load and Voltage			

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
Fine Leak Test	MIL-STD-883, Method 1014, Cond A2
MSL	Level 1 per IPC/JEDEC J-STD 20

Marking Detail

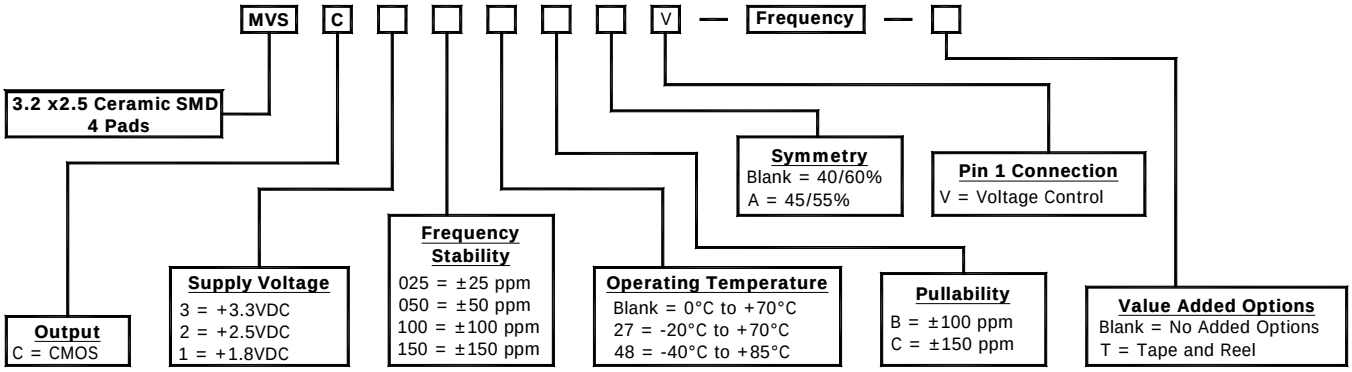
Line 1 = MXXXXX		
M	=	MMD
XXXXX	=	Frequency in MHZ
Line 2 = SYYWWL		
S	=	Internal Code
YYWW	=	4 Digit Date Code (Year / Week)
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Black dot to denote Pin 1		

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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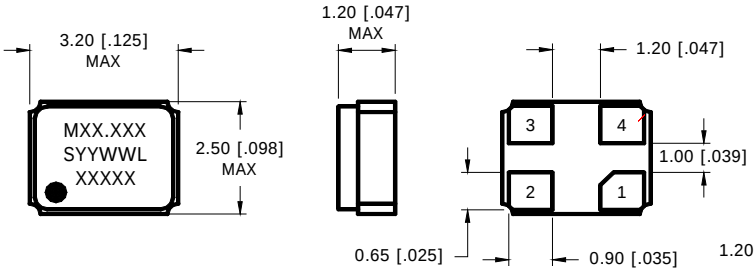
Revisions only with customer approval

Part Number Guide

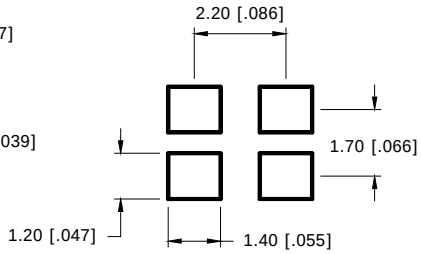


Please Consult with MMD Sales Department for any other Parameters or Options

Mechanical Details



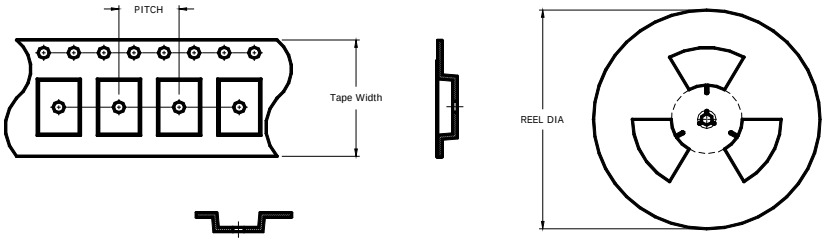
DIMENSIONS IN BRACKETS ARE IN INCHES
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED



SUGGESTED
LAND PATTERN

PIN CONNECTIONS	
PIN 1	VOLTAGE CONTROL
PIN 2	CASE GROUND
PIN 3	OUTPUT
PIN 4	SUPPLY VOLTAGE

Tape & Reel Dimensions



PITCH	4.00 [.157]
TAPE WIDTH	12.00 [.471]
REEL DIA	180 [7.0]
QTY PER REEL	500
PIN 1 ORIENT.	Q1

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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Lead Free

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