

# MAP, MAL & MAV Series Oscillator



- o Industry Standard Package
- o Wide Frequency Range
- o RoHS Compliant Available
- o Less than 1 pSec Jitter



		LVDS	LVPECL	PECL
Frequency Range		12.500MHz to 800.000MHZ		
Frequency Stability*		(See Part Number Guide for Options)		
Operating Temp. Range		(See Part Number Guide for Options)		
Storage Temp. Range		-55°C to +125°C		
Aging		±5 ppm / yr max		
Logic "0"		1.43V typ	Vdd – 1.620 VDC max	Vdd – 1.620 VDC max
Logic "1"		1.10V typ	Vdd- 1.025 vdc min	Vdd- 1.025 vdc min
Supply Voltage (Vdd) Supply Current	2.5VDC ± 5%	50 mA max	50 mA max	N/A
	3.3VDC ± 5%	60 mA max	60 mA max	N/A
	5.0VDC ± 5%	N/A	N/A	140 mA max
Symmetry (50% of waveform)		(See Part Number Guide for Options)		
Rise / Fall Time (20% to 80%)		2nSec max		
Load		50Ω	50Ω	50Ω
Start Time		10mSec max		
Phase Jitter (12kHz to 20MHz)		Less than 1 pSec		

\* Inclusive of Temp., Load, and Voltage

## Mechanical & Environmental 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

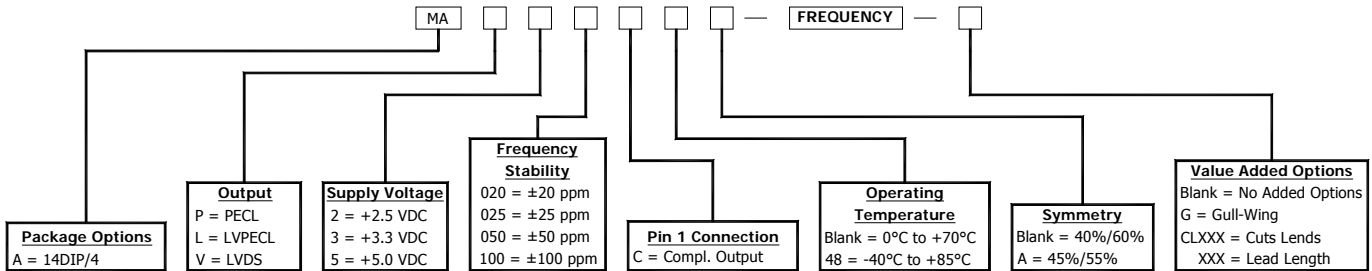
Line 1 = MXXXXX		
M	=	MMD
XXXXX	=	Frequency in MHZ
Line 2 = SYWWL		
S	=	Internal Code
YYWW	=	4 Digit Date Code (Year / Week)
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Black dot to denote Pin 1		

**QUALITY SYSTEM  
CERTIFIED  
= ISO 9001 =**

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

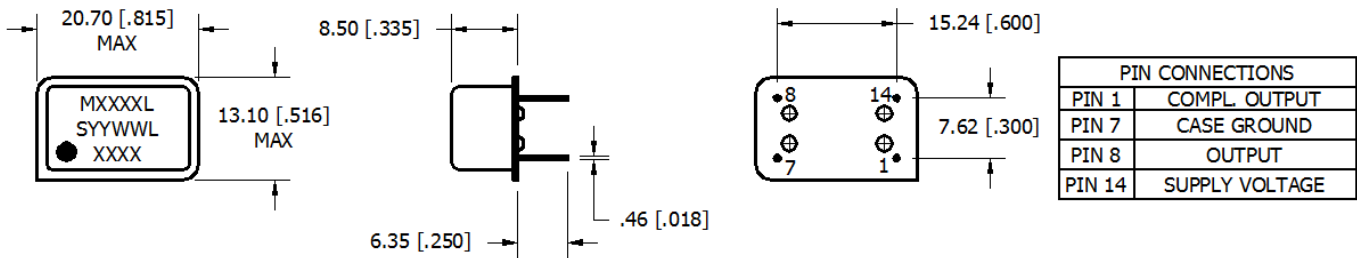


## Part Number Guide



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

## Mechanical Details



DIMENSIONS IN BRACKERS ARE IN INCHES  
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED

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