# MTKH, MTKL, & MTKV SERIES TCXO



- O Industry Standard Package
- O Wide Frequency Range
- O HCMOS, LVDS, or LVPECL Output
- O RoHS Compliant Available



			LVDS	LVPECL		
Frequency Range		10.000MHZ to 200.000MHZ	75.000MHZ to 1.000GHZ			
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		
Logic "1"		90% of Vdd min	1.10V typ	Vdd- 1.025 vdc min		
Supply Voltage (Vdd)	+2.5VDC ± 5%	65mA max	50 mA max	50 mA max		
Supply Current	+3.3VDC ± 5%	65mA max	60 mA max	60 mA max		
Symmetry (50% of wave	eform)	(See Part Number Guide for Options)				
Rise / Fall Time (20% to	Rise / Fall Time (20% to 80%)		2nSec max < 100.000MHZ / 1.5nSec ≥ 100.000MHZ			
Load		10kΩ // 15pF	50 Ohms into Vdd-2.00 VDC	<b>100</b> Ω		
Start Time		10mSec max				
Tri-State Operation		Voh = 70% of Vdd min or No Connection to Enable Output Vol = 30% max or grounded to Disable Output (High Impedance)				
Control Voltage (Vc)	$\pm 10$ ppm with Vc = $\pm 1.25$ VDC $\pm 1.00$ VDC, Positive Slope					
Option	+3.3VDC	$\pm 10$ ppm with Vc = $\pm 1.65$ VDC $\pm 1.50$ VDC, Positive Slope				
Mechanical Timmer Opti	on	±3 ppm min				

## **Environmental & Mechanical Detail**

Shock	MIL-STD-883, Method 2002, Condition B		
Solderability	MIL-STD-883, Method 2003		
Solvent Resistance	MIL-STD-883, Method 215		
Vibration	MIL-STD-883, Method 2007, Condition A		

## **Marking Detail**

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



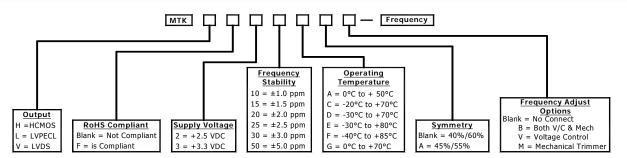
#### MMD Monitor/Quartztek

30400 Esperanza, Rancho Santa Margarita, CA, 92688 Phone: (949) 709-5075, Fax: (949) 709-3536, <a href="www.mmdcomp.com">www.mmdcomp.com</a> Sales@mmdcomp.com



Revision:	04/25/11 D
-----------	------------

#### **Part Number Guide**



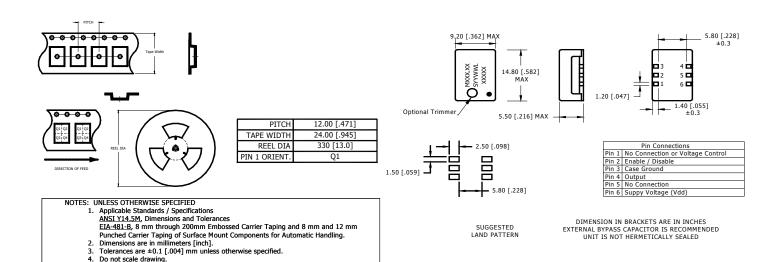
Please Consult with MMD Sales Department for any other Parameters or Options

### **Frequency Stability vs Temperature Table**

Code	Stability	10	15	20	25	30	50
Code	Temp	±1.0ppm	±1.5ppm	±2.0ppm	±2.5ppm	±3.0ppm	±5.0ppm
Α	0°C TO +50°C	•	•	•	•	•	•
G	0°C TO +70°C			•	•	•	•
С	-20°C TO +70°C			•	•	•	•
D	-30°C TO +70°C			•	•	•	•
Е	-30°C TO +80°C			•	•	•	•
F	-40°C TO +85°C				•	•	•
• = Available Blank = Consult MMD							

## **Tape & Reel Dimensions**

### **Mechanical Details**





#### MMD Monitor/Quartztek

30400 Esperanza, Rancho Santa Margarita, CA, 92688 Phone: (949) 709-5075, Fax: (949) 709-3536, <a href="www.mmdcomp.com">www.mmdcomp.com</a> Sales@mmdcomp.com



Revision: 04/25/11 D