

MTKH, MTKL, & MTKV SERIES TCXO



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



		HCMOS	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"		10% of Vdd max	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 waveform)		(See Part Number Guide for Options)		
Rise / Fall Time (20% to 80%)		2nSec max < 100.000MHZ / 1.5nSec ≥ 100.000MHZ		
Load		10kΩ // 15pF	50 Ohms into Vdd-2.00 VDC	100Ω
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)	+2.5VDC	±10 ppm with Vc = +1.25VDC ±1.00VDC, Positive Slope		
Option	+3.3VDC	±10 ppm with Vc = +1.65VDC ±1.50VDC, Positive Slope		
Mechanical Timmer Option		±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		
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		

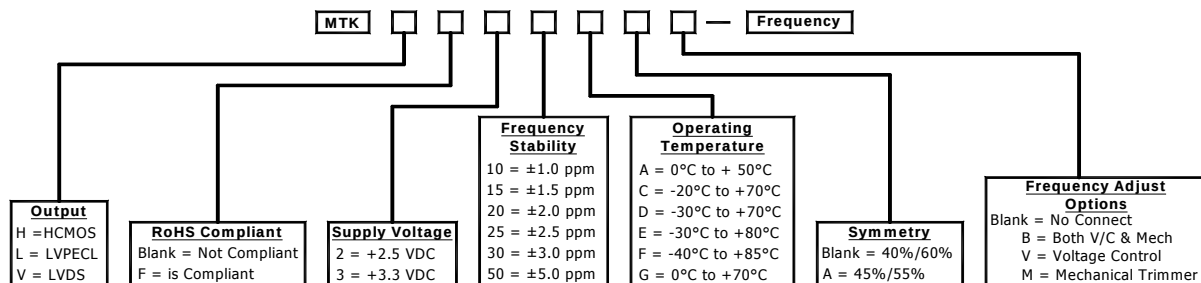


MMD Monitor/Quartztek
 30400 Esperanza, Rancho Santa Margarita, CA, 92688
 Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
 Sales@mmdcomp.com



Revision: 04/25/11 D

Part Number Guide



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

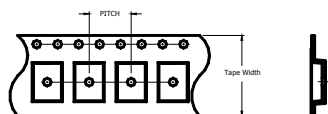
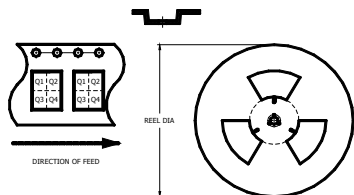
Frequency Stability vs Temperature Table

Code	Stability Temp	10 ± 1.0 ppm	15 ± 1.5 ppm	20 ± 2.0 ppm	25 ± 2.5 ppm	30 ± 3.0 ppm	50 ± 5.0 ppm
A	0°C TO +50°C	•	•	•	•	•	•
G	0°C TO +70°C			•	•	•	•
C	-20°C TO +70°C			•	•	•	•
D	-30°C TO +70°C			•	•	•	•
E	-30°C TO +80°C			•	•	•	•
F	-40°C TO +85°C				•	•	•

• = Available Blank = Consult MMD

Tape & Reel Dimensions

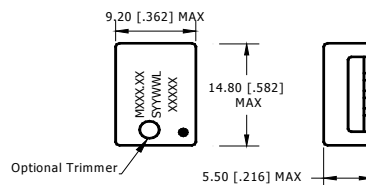
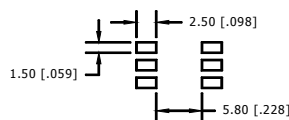
Mechanical Details



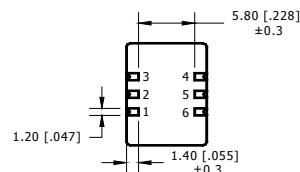
PITCH	12.00 [.471]
TAPE WIDTH	24.00 [.945]
REEL DIA	330 [13.0]
PIN 1 ORIENT.	Q1

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.



SUGGESTED LAND PATTERN



Pin Connections	
Pin 1	No Connection or Voltage Control
Pin 2	Enable / Disable
Pin 3	Case Ground
Pin 4	Output
Pin 5	No Connection
Pin 6	Supply Voltage (Vdd)

DIMENSION IN BRACKETS ARE IN INCHES
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED
UNIT IS NOT HERMETICALLY SEALED



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Revision: 04/25/11 D