

SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT TCXO MtronPTI P/N M6053S013

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _o		25.000000		MHz	
Frequency Tolerance	ΔF/F	-1.0		+1.0	ppm	@ +25°C
		-1.5		+1.5		@ +25°C, after two reflow soldering profiles.
Frequency Stability						
vs Temperature	ΔF _T /F	-2.5		+2.5	ppm	Over operating temperature range.
Output						
Output Type		HCMOS Compatible				
Output Load			15		pF	
Symmetry (duty cycle)	T _{DC}	45	50	55	%	@ 50% of V _{DD}
Logic “1” Level	V _{OH}	90			% V _{DD}	HCMOS load
Logic “0” Level	V _{OL}			10	% V _{DD}	HCMOS load
Rise/Fall Time	T _R /T _F			5	nS	From 10% to 90% V _{DD}
Startup Time	T _{SU}			10	mS	
Supply Voltage & Power Consumption						
Operating Voltage	V _{DD}	3.135	3.300	3.465	V	
Operating Current	I _{DD}			5.5	mA	

Environmental Conditions:

Operating Temperature	T _A	0		+70	°C	
Storage Temperature	T _S	-55		+105	°C	
Mechanical Shock	Per MIL-STD-202, Method 213 (2000 g, 0.3 ms duration, ½ sine wave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1x10 ⁻⁸ atm.cc/s of helium) (Crystal unit only)					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	4-pad 3.2 x 5.0 x 1.5 mm, Ceramic Leadless Chip Carrier (M6053 Series)					

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Mechanical, Marking and Layout Information:

Part Marking	
Line 1	xxMxxx
Line 2	M y w v

Legend	
xxMxxx	Frequency in MHz
y	Year
w	Work Week
v	Factory Code

Pad	Function
1	No Connection
2	GND
3	Output
4	+V _{DD}

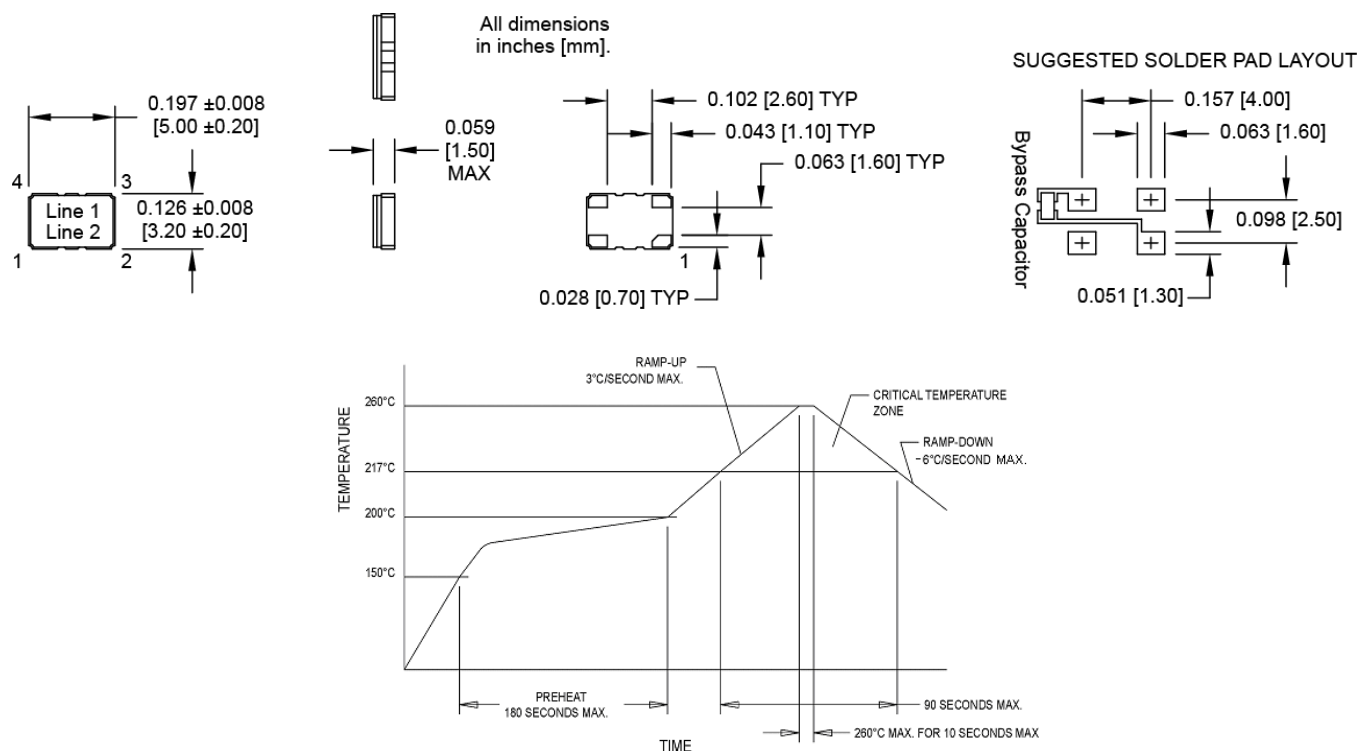


Figure 1

Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
08/18/14	0	MM	Original Release.