



SPECIFICATION FOR 3.2 mm x 5.0 mm SMT TCXO MtronPTI P/N M6053S001

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F ₀		26.000000		MHz	
Frequency Tolerance	F/F	-1.0		+1.0	ppm	@ +25 °C, initial
Frequency Stability	ΔF/F	-2.5		+2.5	ppm	Over Operating Temperature, ref. to +25 °C
Frequency vs. Supply		-0.2		+0.2	ppm	For ±5% Voltage Change
Frequency vs. Load	F _L	-0.3		+0.3	ppm	For ±5% Load Change
Frequency vs. Aging		-1		+1	ppm	Per year @ 40 °C
Overall Frequency Stability		-10.0		+10.0	ppm	Including frequency tolerance at +25 °C, deviation over operating temperature range, reflow soldering, supply voltage change, output load change, and aging for 10 years.
Operating Temperature	T _A	-40		+85	°C	
Operating Voltage	V _{DD}	2.850	3.000	3.150	V	
Operating Current	I _{DD}			2.0	mA	
Output Type		Clipped Sine Wave				
Output Load		10 kΩ 10 pF				
Output Level		0.8			V pk-pk	
Phase Noise			-85		dBc/Hz	@ 10 Hz
			-110		dBc/Hz	@ 100 Hz
			-135		dBc/Hz	@ 1 kHz
			-150		dBc/Hz	@ 10 kHz

Environmental Conditions:

Mechanical Shock	Per MIL-STD-202, Method 213, (2000 g's, 0.3 ms duration, ½ sine wave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 20 Hz - 2000 Hz)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium) (crystal unit only)
Storage Temperature	-55 °C to +105 °C
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package	4-pad 3.2 mm x 5.0 mm x 1.5 mm leadless ceramic. RoHS compliant.

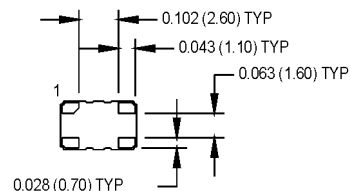
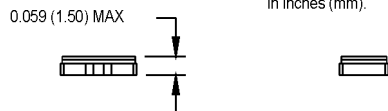
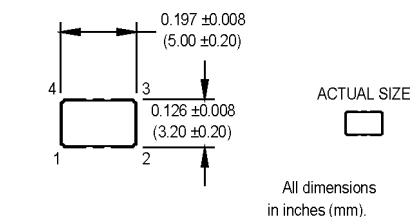
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Dimensions, Marking, and Pin Out Information

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}



SUGGESTED SOLDER PAD LAYOUT

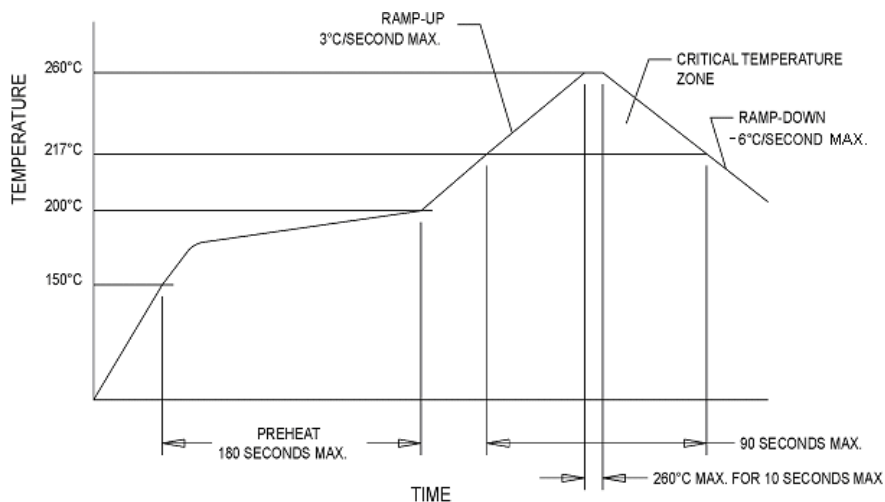
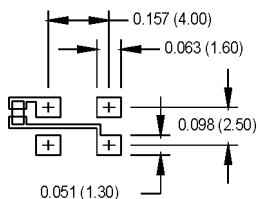


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
11/06/12	0	LEO	Original release.