

## SPECIFICATION FOR RoHS 6 COMPLIANT SMT VCTCXO MtronPTI P/N M6065S013

### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F <sub>O</sub>		38.400000		MHz	
Initial Frequency Tolerance @ +25°C		-2.5		+2.5	ppm	After 2 reflows V <sub>C</sub> = +1.4 V <sub>DC</sub>
<b>Frequency Stability</b>						
Frequency Stability	ΔF/F	-2.5		+2.5	ppm	Over operating temperature range
Frequency vs. Supply		-0.2		+ 0.2	ppm	For a +0.1V change in supply voltage
Frequency vs. Load		-0.2		+ 0.2	ppm	For a 10% load change
Aging	F <sub>A</sub>	-1.0		+1.0	ppm	Per year @ +25°C
Slope of Frequency vs. Temperature		-0.5		+ 0.5	ppm/°C	
<b>Output</b>						
Output Type		Clipped Sine Wave				External DC-cut output capacitor (0.001 μF) required.
Output Levels	V <sub>Out</sub>	0.8			V <sub>pk-pk</sub>	Load =10K // 10pF
Output Load			10		pF	
			10		kΩ	
Start-up Time				5	mS	
Harmonics				-5	dBc	
<b>Frequency Adjustment</b>						
Control Voltage	V <sub>C</sub>	+0.4	+1.4	+2.4	V <sub>DC</sub>	
Tuning Range		±7.0		±16.0	ppm	
<b>Temperature &amp; Supply</b>						
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	-40		+90	°C	
Operating Voltage	V <sub>S</sub>	+1.8		+3.3	V <sub>DC</sub>	
Operating Current	I <sub>S</sub>			2.0	mA	

### Environmental & Mechanical Requirements:

Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Methods 201 & 204
Maximum Soldering Conditions	See Figure 1.
Solderability	Per EIAJ-STD-002
Package Type	4-pad 2.0 X 2.5 X 0.8 mm leadless ceramic. RoHS compliant

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### Dimensions, Pin Out and PAD Layout Information:

Part Marking	
Line 1	38M4
Line 2	M y ww v

Legend	
y	Year
ww	Work week
v	Factory code

Pad	Function
1	Tuning Voltage
2	Ground
3	Output
4	+V <sub>DD</sub>

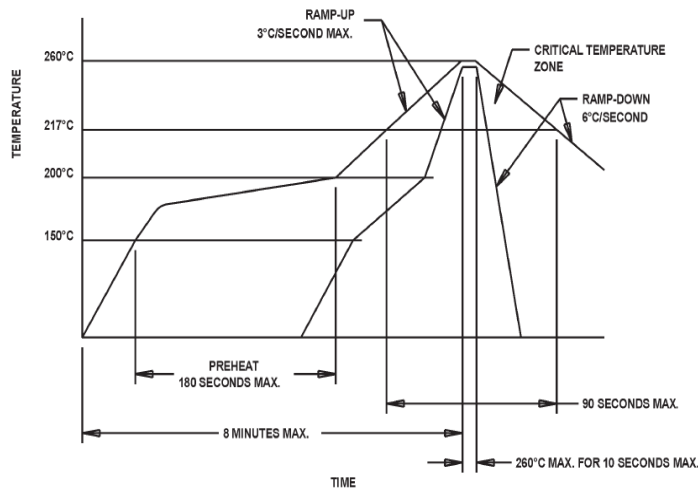
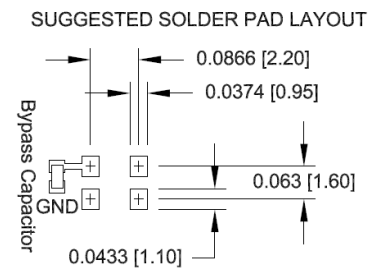
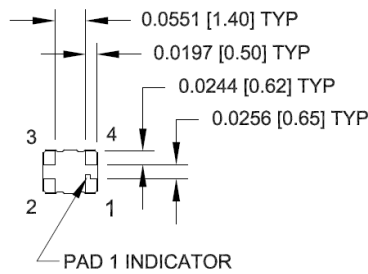
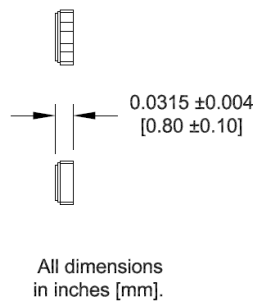
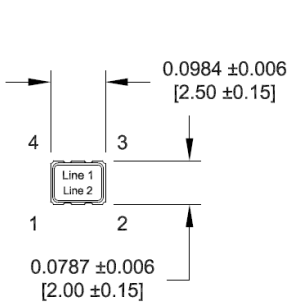


Figure 1

### Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
12/11/13	0	MM	Original Release.