



## SPECIFICATION FOR CLIPPED SINE WAVE SMT VCTCXO MtronPTI P/N M6065S005

### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F <sub>o</sub>		10.000000		MHz	
Frequency Tolerance		-2.0		+2.0	ppm	V <sub>c</sub> = 1.5V @ +25°C.
Frequency Stability	ΔF/F	-2.5		+2.5	ppm	Over operating temperature
Frequency Vs. Supply		-0.2		+ 0.2	ppm	For a 10% voltage change
Frequency Vs. Load		-0.2		+ 0.2	ppm	±10% change in load
Frequency vs. Aging	F <sub>A</sub>	-1.0		+1.0	ppm	1 <sup>st</sup> year @ +25°C.
Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-55		+105	°C	
Operating Voltage	V <sub>s</sub>	2.85	3.00	3.15	V	
Operating Current	I <sub>s</sub>			2.0	mA	
Output Type		Clipped Sine Wave				External DC-cut output capacitor (0.001 μFd) required.
Output Load		10 kohm ± 10% in parallel with 10 pF ±10% to ground				
Output Levels	V <sub>Out</sub>	0.8			V <sub>pk-pk</sub>	Load =10K    10pF ±10%
Pullability		±8			ppm	Ref. to frequency with V <sub>c</sub> = 1.5
Control Voltage		0.50	1.50	2.50	V	Pad 1

### 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	6- pad 2.0 X 2.5 X 0.9 mm leadless ceramic. RoHS compliant

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#### Dimensions, Pin Out, and Marking Information:

Pin	Function
1	Control Voltage
2	Do Not Connect
3	Ground
4	Output
5	Do Not Connect
6	+V <sub>DD</sub>

Part Marking	
Line 1	10M
Line 2	Mywvv

Legend	
y	Year
ww	Work Week
v	Factory code

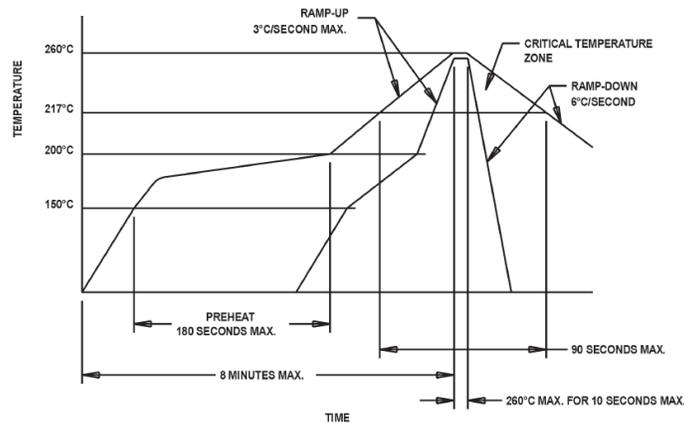
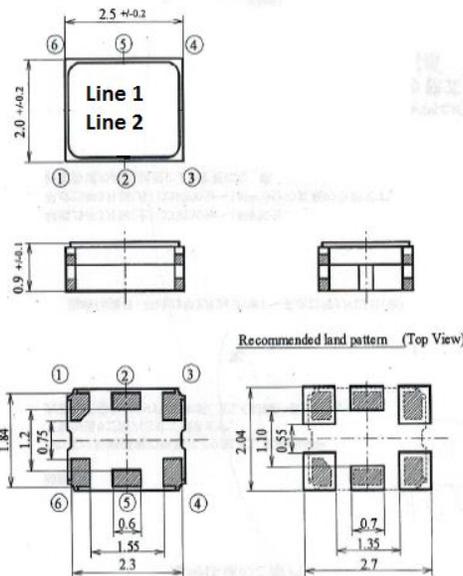


Figure 1

#### DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
09/14/11	0	MM	Original release.
03/05/13	A	MM	Updated storage temperature range.
03/12/13	B	LEO	Updated Pin Out table.
05/13/13	C	LEO	Added Symmetricom Part Number.