1703 E. Highway 50 Yankton, SD 57078 USA
Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709
Website: www.mtronpti.com

SPECIFICATION FOR CLIPPED SINE WAVE SMT VCTCXO
MtronPTI P/N M6065S009

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F_O		10.240000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	
Frequency Stability	ΔF/F	-1.0		+1.0	ppm	Over operating temperature
Frequency Vs. Supply		-0.2		+ 0.2	ppm	For a 5% voltage change
Frequency Vs. Load		-0.2		+ 0.2	ppm	For a 5% load change
Frequency vs. Aging	F_A	-1.0		+1.0	ppm	Per year @ +25 °C
Operating Temperature	T_A	-40		+85	°C	
Storage Temperature	T_S	-55		+105	°C	
Operating Voltage	V_s	2.85	3.0	3.15	V	
Operating Current	I_s			2.0	mA	
Output Type		Clipped Sine Wave				
Output Load		10kΩ || 10pF				
Output Levels	V_{Out}	0.8			V_{pk-pk}	
Phase Noise			-80		dBc/Hz	@ 10 Hz
			-110		dBc/Hz	@ 100 Hz
			-130		dBc/Hz	@ 1 kHz
			-145		dBc/Hz	@ 10 kHz
			-145		dBc/Hz	@ 100 kHz
Pullability		±8			ppm	Ref. to frequency with Vc = 1.5
Control Voltage	Vc	0.50	1.50	2.50	V	Pad 1

Environmental & Mechanical Requirements:

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 from 20 Hz to 2000 Hz)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10-8 atm cc/s of Helium)
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	+VDD

Part Marking	
Line 1	10M2
Line 2	Mywwv

Legend	
y	Year
ww	Work Week
v	Factory code

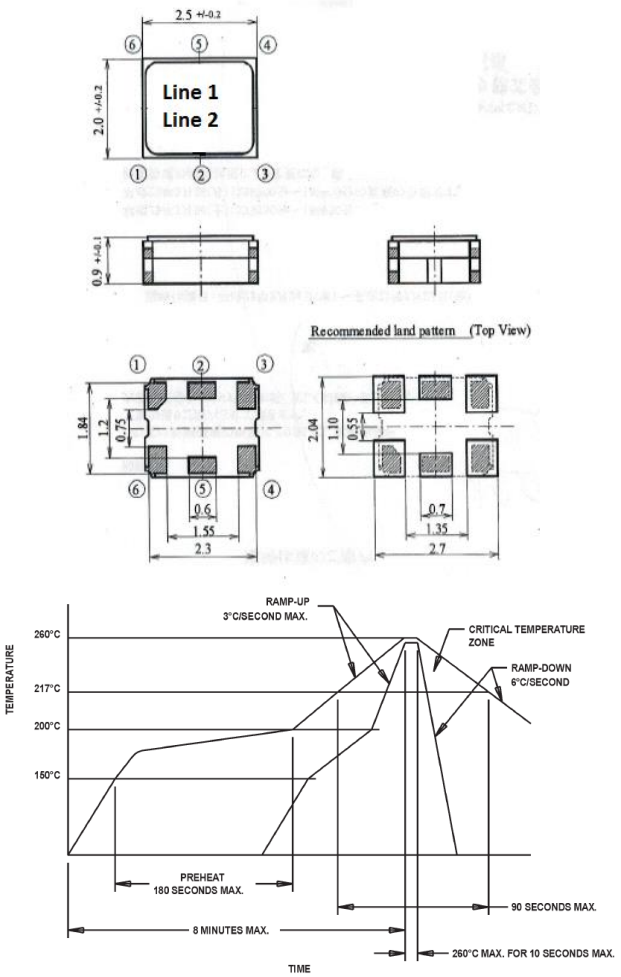

Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
3/11/13	0	LEO	Original release.
3/12/13	A	LEO	Updated Pin Out table.
3/25/13	B	MM	Added customer part number