

SPECIFICATION FOR CLIPPED SINE WAVE SMT VCTCXO

MtronPTI P/N M6065S010

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _o		20.473280		MHz	
Frequency Tolerance		-2.0		+2.0	ppm	V _C = 1.5 V @ +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 _A	-1.0		+1.0	ppm	1 st year @ +25 °C.
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+105	°C	
Operating Voltage	V _s	2.85	3.00	3.15	V	
Operating Current	I _s			2.0	mA	
Output Type		Clipped Sine Wave				External DC-cut output capacitor (0.001 μFd) required.
Output Load		10 kΩ ± 10% in parallel with 10 pF ±10% to ground				
Output Levels	V _{Out}	0.8			V _{pk-pk}	Load = 10K 10pF ±10%
Pullability		±8			ppm	Ref. to frequency with V _C = 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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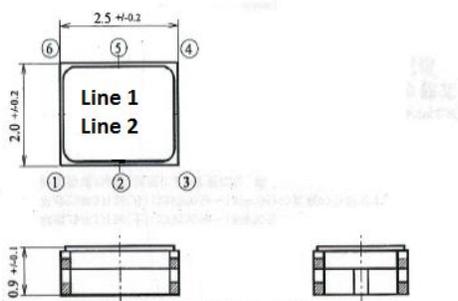
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Dimensions, Pin Out, and Marking Information:

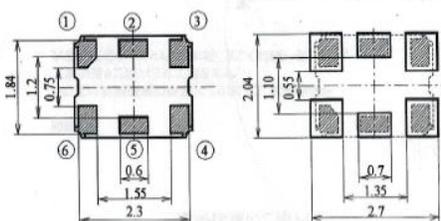
Pin	Function
1	Control Voltage
2	Do Not Connect
3	Ground
4	Output
5	Do Not Connect
6	+V _{DD}

Part Marking	
Line 1	20M
Line 2	Mywvv

Legend	
y	Year
ww	Work Week
v	Factory code



Recommended land pattern (Top View)



A 0.01 uF capacitor or larger is recommended between +V_{DD} and GND.

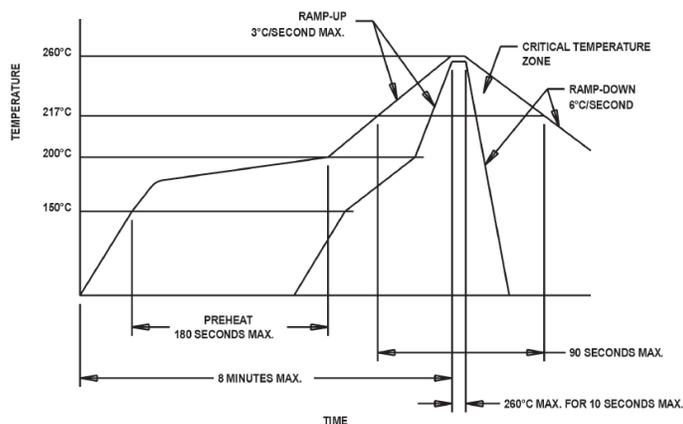


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
09/03/13	0	LEO	Original Release.