

## SPECIFICATION FOR RoHS 6 COMPLIANT SMT VCTCXO MtronPTI P/N M6065S015

### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	$F_o$		33.696000		MHz	
Initial Frequency Tolerance		-2.0		+2.0	ppm	At +25°C, after 2 reflow soldering profiles with $V_c = 1.4V$
<b>Frequency Stability</b>						
Frequency Stability	$\Delta F/F$	-1.0		+1.0	ppm	Over operating temperature range
Frequency vs. Supply		-0.2		+ 0.2	ppm	For a 5% change in supply voltage, $V_s = 3.3V_{DC}$
Frequency vs. Load		-0.2		+ 0.2	ppm	For a 10% load change
Aging	$F_A$	-1.0		+1.0	ppm	Per year @ +25°C
<b>Output</b>						
Output Type		Clipped Sine Wave				External DC-cut output capacitor (0.001 $\mu F$ ) required.
Output Levels	$V_{out}$	0.8			$V_{pk-pk}$	Load = 10K // 10pF
Output Load			10		pF	
			10		k $\Omega$	
Start-up Time				2	mS	
<b>Frequency Adjustment</b>						
Control Voltage	$V_c$	0.4	1.40	2.4	V	
Tuning Range		$\pm 5.0$		$\pm 10.0$	ppm	
<b>Additional Specifications</b>						
Harmonics				-5	dBc	
<b>Temperature &amp; Supply</b>						
Operating Temperature	OTR	-30		+85	°C	
Storage Temperature	STR	-40		+90	°C	
Operating Voltage	$V_s$	2.85	3.00	3.15	$V_{DC}$	
Operating Current	$I_s$			2.5	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	33M696
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>

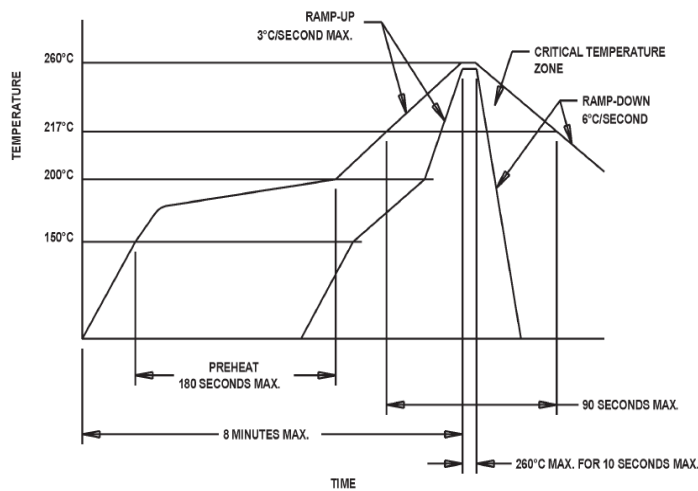
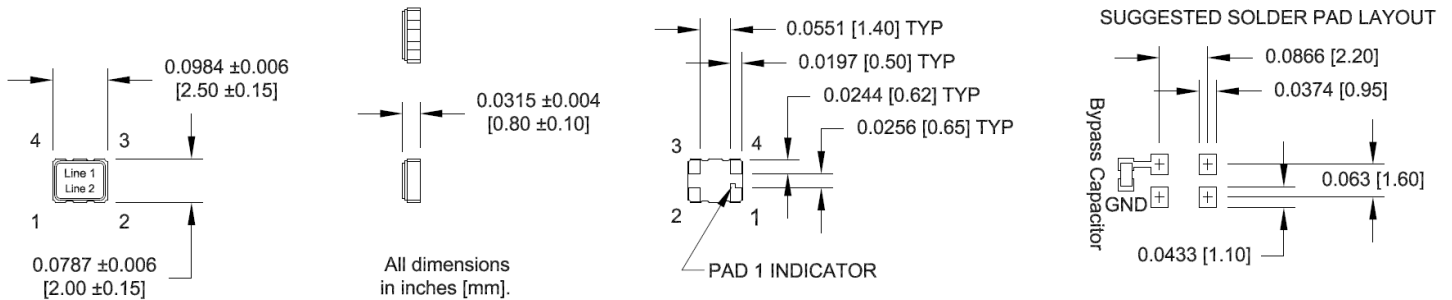


Figure 1

### Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
03/16/15	0	MM	Original Release.
10/28/15	A	MM	Control voltage range error correction.