

SPECIFICATION FOR RoHS 6 COMPLIANT SMT VCTCXO MtronPTI P/N M6065S017

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _o		40.000000		MHz	
Frequency Stability						
Initial Tolerance	ΔF/F	-2.0		+2.0	ppm	@ +25 °C, after two reflow soldering profiles with V _c = 1.25V
Frequency Stability	ΔF/F	-1.0		+1.0	ppm	(F _{max} – F _{min})/2, over operating temperature range
Frequency vs. Supply		-0.2		+0.2	ppm	For a ±5% supply voltage change
Frequency vs. Load		-0.2		+0.2	ppm	For a ±10% load change
Aging	F _A	-6.0		+6.0	ppm	For 10 years
Output						
Output Type		Clipped Sine Wave				External DC-cut output capacitor (0.001 μF) required.
Output Load		10 kΩ 10 pF				± 10%
Output Levels	V _{Out}	0.8			V _{pk-pk}	Load = 10K 10 pF
Startup Time	t _{su}			2	ms	
Control Voltage	V _C	0.25	1.25	2.25	V	
Tuning Range		±6.0			ppm	
Additional Specifications						
SSB Phase Noise (Under Static Conditions)				-109	dBc/Hz	@ 100 Hz Offset
				-129		@ 1 kHz Offset
				-144		@ 10 kHz Offset
Operating Voltage	V _s	2.375	2.500	2.625	V _{DC}	
Operating Current	I _s			2.0	mA	

Environmental & Mechanical Requirements:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+105	°C	
Shock	Per MIL-STD-202, Method 213, Condition C					
Vibration	Per MIL-STD-202, Methods 201 & 204					
Maximum Soldering Conditions	See Figure 1.					
Solderability	See solder profile, Figure 1					
Package Type	4-pad 2.0 X 2.5 mm leadless ceramic. RoHS compliant					

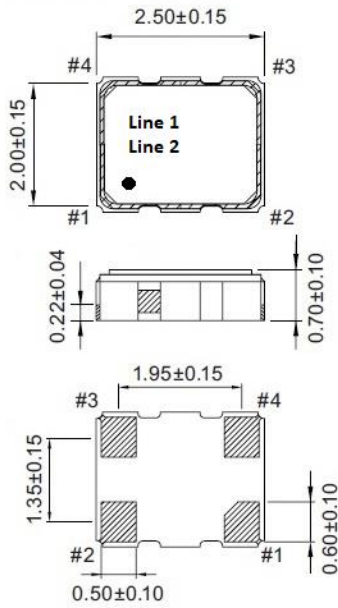
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Dimensions, Pin Out and PAD Layout Information:

Part Marking	
Line 1	40M000
Line 2	M y ww v

Legend	
y	Last digit of year
ww	Work of manufacture
v	Factory code

Pad	Function
1	Tuning Voltage
2	Ground
3	Output
4	+V _{DD}



SUGGESTED SOLDER PAD LAYOUT

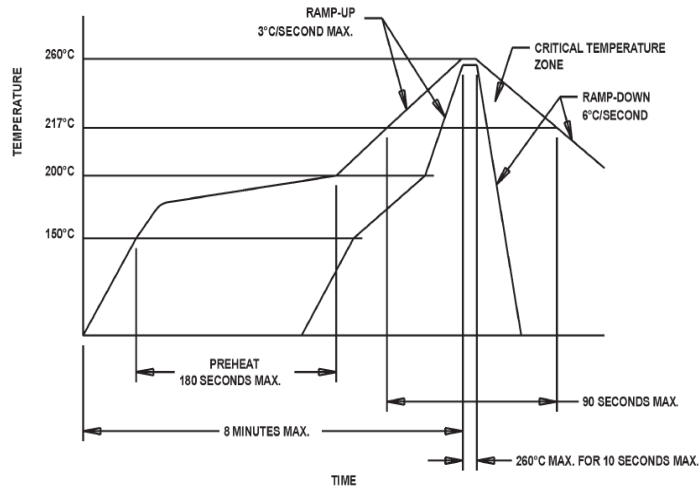
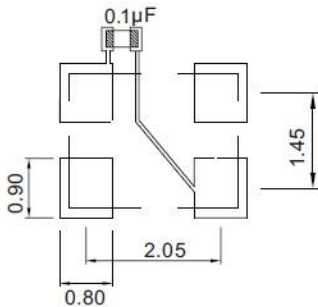


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
02/05/19	0	MM	Original Release.