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Specification for an SMT VCTCXO MtronPTI P/N: M6162S002

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		50.500000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
	Frequency Stabilities					
Frequency vs. Temperature				1.0	ppm	(F _{MAX} -F _{MIN})/2
Frequency vs. Reflow		-1.0		+1.0	ppm	
Aging		-5.0		+5.0	ppm	Includes 1st year
Frequency vs. Supply	Fvs	-0.1		+0.1	ppm	For 5% voltage change
Frequency vs. Load	F∟	-0.1		+0.1	ppm	For 5% load change
			Output			
Output Type		С				
Output Load			10kΩ // 10 <i>pF</i>			
Output Level	Vout	0.8			V_{pk-pk}	
	Frequency Adjustment					
Frequency Adjust Method			External \	Voltage		
Control Voltage Range		0.3	1.5	2.7	V	
Frequency Adjust Range		±9.2			ppm	Over the control voltage range
Linearity				3	%	
Input Leakage Current		-50		+50	μΑ	
Input Resistance		100			ΚΩ	
Modulation Bandwidth		2			kHz	
		Additional Specifications				
			-80		dBc/Hz	@ 10Hz Offset
			-108		dBc/Hz	@ 100Hz Offset
SSB Phase Noise			-132		dBc/Hz	@ 1kHz Offset
(Under Static Conditions)			-149		dBc/Hz	@ 10kHz Offset
			-156		dBc/Hz	@ 100kHz Offset
			-157		dBc/Hz	@ 1MHz Offset
Tri-state Function		Logic "1", or floating, output Enabled. Logic "0", output Disabled.		Pad 4		
Startup Time	tsu			10	mS	
	Temperature and Supply					
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Operating Voltage	Vs	+2.85	+3.0	+3.15	V_{DC}	
Operating Current	Is			10	mA	

Environmental & Mechanical Requirements:

Shock	Per MIL-STD-202, Method 213, Condition C.
Vibration	Per MIL-STD-202, Method 201 & 204
Solderability	Per MIL-STD-202, Method 208, except steam aging is not required
Max. Soldering Conditions	Ref. figure on Page 2.
Package Type	5 x 7 x 2.0mm, 10-pad leadless ceramic SMD.
RoHS	Full RoHS Compliance





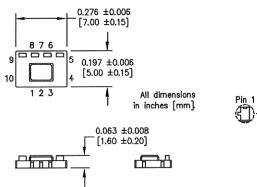
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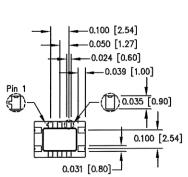


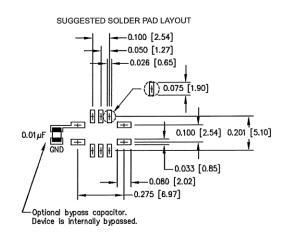
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Dimensions, Pin Out, Information:

...when timing matters







Pad	Function	
1	N/C	
2	N/C	
3	N/C	
4	Ground	
5	Output	
6	N/C	
7	N/C	
8	Tristate	
9	Supply Voltage	
10	Voltage Control	

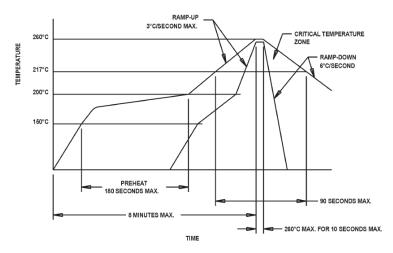


Figure 1

Data Sheet Revision Table:

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	Date	Rev.	Author	Details of Revision			
	10/16/13	0	MM	Original Release.			
	11/17/14	Α	MM	Updated aging specification.			