



PRELIMINARY SPECIFICATION FOR SMT VCTCXO MtronPTI P/N M6161S052

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		10.000000		MHz	
Frequency Tolerance		-1.0		+1.0		@ +25°C
		F	requency Sta	ability		
Frequency Stability	$\Delta F/F$			0.5	ppm	(F _{max} - F _{min})/2
Aging		-2.0		+2.0	ppm	1st year
Frequency Vs. Supply			± 0.02	± 0.1	ppm	For 5% supply variation
Frequency Vs. Load			± 0.02	± 0.1	ppm	For 5% load change
	-		Output		-	
Output Type		HC	MOS Compa	tible		
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	40	50	60	%	@ 50% of VDD
Output Logic Levels	Vol			20	% Vcc	
Output Level	Vон	80			% Vcc	
Rise/Fall Time				6.5	ns	Ref. 10% and 90%
Tristate Function		Logic "1", or floating, output Enabled. Logic "0", output Disabled.				Pad 8
Start-up Time	Ts∪			10	ms	
		Fre	equency Adju	ustment		
Adjustment Method		External Voltage				
Control Voltage Range	Vc	+0.3	1.65	+3.0	VDC	Pad 10
Tuning Range		±5			ppm	Positive slope.
Linearity				5	%	
Input Impedance	ZIN	100			KΩ	
		Supply Vol	tage & Powe	r Consumpt	ion	
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Operating Current	I _{DD}			4.0	mA	

Environmental Conditions:

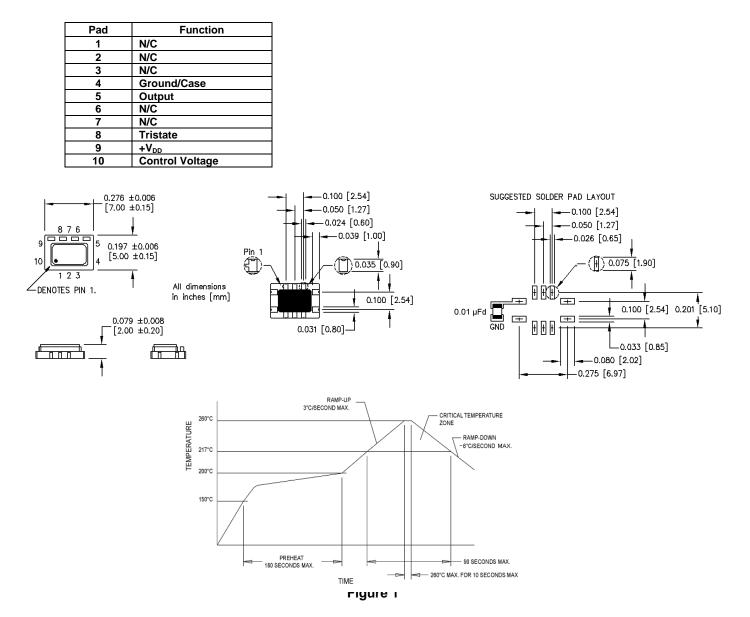
Operating Temperature	T _A	0		+70	°C		
Storage Temperature	Ts	-40		+90	°C		
Mechanical Shock	Per MIL-ST	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ¹ / ₂ sine wave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
Solderability	Per EIAJ-STD-002						
Max. Soldering Conditions	See solder profile, Figure 1						
Package Type	5.0 x 7.0 x 2.0mm, 10-pad Ceramic Leadless Chip Carrier. RoHS Compliant.						





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Mechanical, Marking and Layout Information:



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
12/08/16	0	MM	Original Release.
12/16/16	А	MM	Corrected Aging specification.
2/15/17	В	MM	Changed to VCTCXO.