



Specifications for a Stratum 3 SMT TCXO MtronPTI P/N M6151S012

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		10.240000		MHz	
Design			Next Generati		sign	
Crystal		Must use 2	20.480 MHz C	rystal		
			Frequenc	y Stability		
Frequency Stability	$\Delta F/F$			0.28	ppm	Over operating temperature $(F_{Max} - F_{Min})/2$
Holdover Stability				0.32	ppm	Inclusive of drift after 24hrs and deviation over operating temperature.
Overall Stability		-4.6		+4.6	ppm	Includes initial calibration @ +25°C, deviation over temperature, holdover, variations due to supply voltage, load, reflow soldering, and 10 yr. aging @+ 40°C.
Frequency Vs. Supply			± 0.02	± 0.1	ppm	For a 5% supply change
Frequency Vs. Load			± 0.02	± 0.1	ppm	For 5% load change
			Out	tput		
Output Type		HC	MOS Compa	tible		
Output Load			•	15	pF	
Symmetry (duty cycle)	T _{DC}	45	50	55	%	@ 50% of VDD
Output Logic Levels	V _{OL}	10% V _{DD}			V	
Output Level	Vон			90% V _{DD}	V	
Rise/Fall Time				8	nS	Ref. 10% and 90%
Tri-state Function		Logic "1", Logic "0"	or floating,	·		Pad 8: Output Enabled. Pad 8: Output Disabled
	•		Frequency	Adjustment		
Control Voltage	VC	0.3	1.65	3.0	V	Pad 10
Frequency Adjust Range		± 4	1100	0.0	ppm	Positive slope. Pad 10
Linearity		-3		+3	%	Positive slope
Input Leakage Current		-50		+50	μA	Pad 10
Input Resistance		100			kΩ	Pad 10
Modulation Bandwidth		2			kHz	Pad 10
Modulation Dandwidth			Additional S	pecifications		1 44 10
			-98		, 	@ 10 Hz
			-125		1	@ 100 Hz
Phase Noise			-145			@ 1 kHz
			-153		dBc/Hz	@ 10 kHz
			-154			@ 100 kHz
			-156		1	@ 1 MHz
			-158		1	@ 10 MHz
	1	Supply	/ Voltage & F	ower Consu	motion	
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Operating Current	IDD		2.0	5.0	mA	





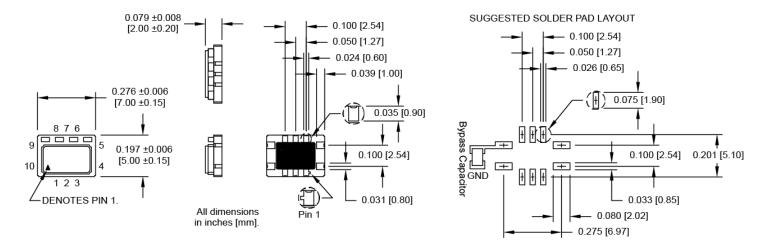
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Environmental Conditions:

Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ 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.					

Mechanical, Marking and Layout Information:

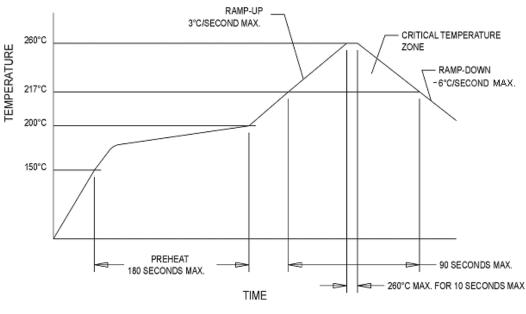
Pad	Function
1	Do not connect
2	N/C
3	Do not connect
4	Ground/Case
5	Output
6	N/C
7	N/C
8	Do not connect
9	+V _{DD}
10	Do not connect







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Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
11/19/14	0	MM	Original Release.	