



Specifications for a Stratum 3 SMT TCXO MtronPTI P/N M6151S005

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		12.800000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
			Frequency	Stability		
Frequency Stability	∆F/F			0.30	ppm	Over operating temperature relative to $+25^{\circ}C (F_{Max} - F_{Min})/2$
Holdover Stability				0.34	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 20 yr. aging @ +40°C.
Frequency Vs. Reflow		-1.0		+1.0	ppm	
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
			Outp			
Output Type		HC	CMOS Compat	ible		
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	40	50	60		@ 50% of V _{DD}
Output Logic Levels	Vol	10% V _{DD}			V	
Output Level	Vон			90% V _{DD}	V	
Rise/Fall Time				7	nS	Ref. 10% and 90%
Frequency Adjustment		± 9.2			ppm	Over Control Voltage Range
Control Voltage Range		0.3	1.65	3.0	V	
		A	dditional Sp	ecifications		
Tri-state Enable Logic		70% V _{DD} or floating			V	Pad 8
Tri-state Disable Logic				30% V _{DD}	V	Pad 8. Output to high-Z
Start-up Time	Ts∪			10	mS	
Phase Noise			-102		dBc/Hz	@ 10 Hz
			-132		dBc/Hz	@ 100 Hz
			-148		dBc/Hz	@ 1 kHz
			-154		dBc/Hz	@ 10 kHz
			-155		dBc/Hz	@ 100 kHz
		Supply Volta	age/Current &	& Temperatu	re Ranges	
Operating Voltage	Vdd	3.135	3.3	3.465	V	
Operating Current	IDD			3.0	mA	
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	

Environmental Conditions:

Mechanical Shock	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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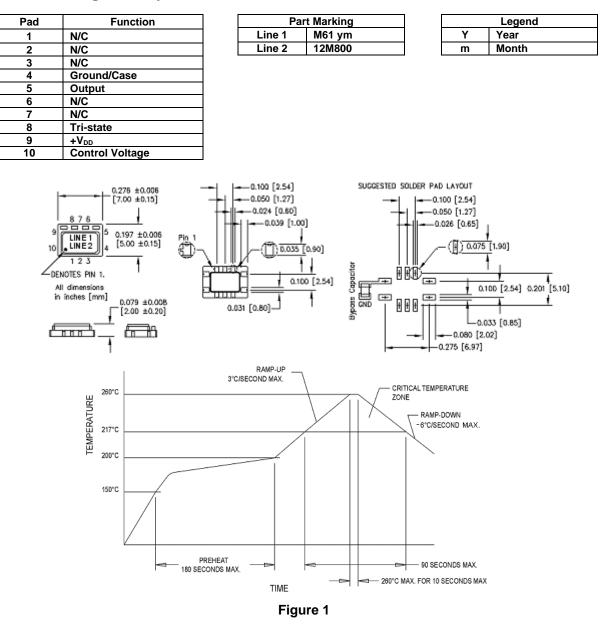


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Mechanical, Marking and Layout Information:



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
3/28/13	0	TOY	Original Release.