

1703 E. Highway 50 Yankton, SD 57078 USA Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709

Website: www.mtronpti.com



SPECIFICATION FOR EXTENDED TEMPERATURE SMT OSCILLATOR MtronPTI P/N M2002T117

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		66.000000		MHz	
Frequency Stability	ΔF/F	-100		+100	ppm	Inclusive of initial tolerance at +25°C, deviation over temperature, variations due to shock, vibration, load, voltage and 1st year aging at +25°C.
Operating Temperature	TA	-55		+125	°C	
Storage Temperature	Ts	-55		+125	°C	
Operating Voltage	V_{dd}	3.135	3.3	3.465	V	
Operating Current	I _{dd}			35	mA	
Output Type		HCMOS/TTL Compatible				
Output Load				15/10	pF/TTL	
Symmetry		45		55	%	Ref. to ½ V _{dd}
Logic "1" Level	Vон	90% V _{DD}			V	
Logic "0" Level	V _{OL}			10% V _{DD}	V	
Output Current	Іон			-8	mA	
	loL			+8	mA	
Rise/Fall Time				3	nS	10% to 90% Waveform
Tri-State Function		80% V _{DD} or N/C			V	Pad 1: Output Enabled
TII-State FullClion				20% V _{DD}	V	Pad 1: Output Disabled to high-Z
Start-Up Time				5	mS	
Random Jitter			5	12	pS	1-Sigma

Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Method 201 & 204
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10-8 atm cc/s of Helium)
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	4-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.



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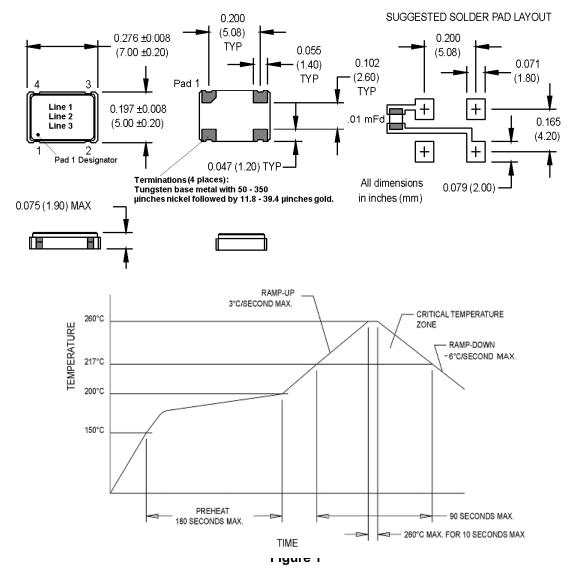
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Dimensions, Marking, and Pin Out Information:

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

Part Marking		
Line 1	M2002T117	
Line 2	66M0000	
Line 3	M yy ww vv	

Legend		
уу	Year	
ww	Work week	
VV	Factory code	



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision		
5/16/12	0	LEO	Original release.		
7/31/12	Α	MM	Updated symmetry, rise/fall time and startup time specifications.		