



SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR MtronPTI P/N M2002T244

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		132.812500		MHz	
			Frequency S	Stability		
Frequency Stability	∆F/F	-50		+50	ppm	Includes initial tolerance, deviation over temperature, supply voltage variation, load variation, shock, vibration, and aging.
Aging		-10		+10	ppm	Per year
			RF Out	put		
Output Type		HCMOS/TTL Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	40	50	60	%	Ref to 1/2 VDD
Logic "1" Level	Vон	90% Vdd			V	HCMOS load
		2.8			V	TTL Load
Logic "0" Level	Vol			10% Vdd	V	HCMOS load
				0.4		TTL Load
Rise/Fall Time	T _R /T _F			3	nS	10% to 90% V _{DD} HCMOS load 0.5 V to 2.8 V TTL load
Tristate Logic		Logic "1" or Logic "0"	Open			Pad 1: Output Enabled Pad 1: Output Disabled to high-Z
		Supply V	/oltage & Pov	ver Consu	nption	
Operating Voltage	V _{DD}	2.97	3.3	3.63	V	
Operating Current	I _{DD}			55	mA	

Environmental & Mechanical Requirements:

Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	Ts -55 +125 °C				
Mechanical Shock	Per MIL-S	TD-202, Me	thod 213, Cond	ition I.		
Vibration	Per MIL-S	Per MIL-STD-202, Method 204 Condition C.				
Thermal Shock	Per MIL-STD-202, Method 107, Condition B-1.					
Resistance to Solvents	Per MIL-STD-202, Method 215.					
Hermeticity	Per MIL-STD-202, Method 112, Condition C & D.					
Solderability	Per MIL-STD-202, Method 208.					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	5.0 x 7.0 x 1.7 mm, 4-pad Ceramic Leadless Chip Carrier (M2 type)					





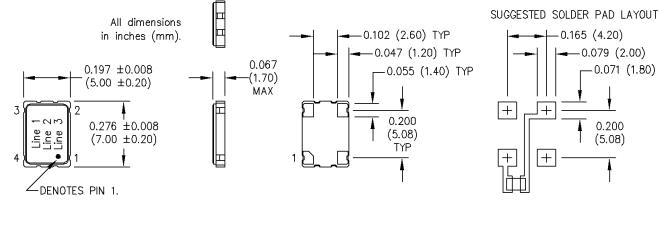
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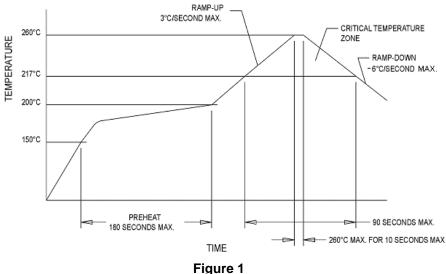
Dimensions, Marking, and Pin Out Information:

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

Part Marking		
Line 1	M2002T244	
Line 2	132M8125	
Line 3	M yy ww vv	

Legend				
уу	Year			
ww	Work week			
vv	Factory code			





Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
12/02/14	0	MM	Original release.