



SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR MtronPTI P/N M2002T263

I. General & Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		50.000000		MHz	
Resonator Mode			Fundamental			
			Frequency St	ability		
Frequency Stability	∆F/F	-50		+50	ppm	Includes initial accuracy @ +25°C, deviation over temperature, supply voltage variation, load variation, shock and vibration.
Aging		-75		+75	ppm	20 years
			RF Outpu	Jt		
Output Type		HCMOS/TTL Compatible				
Output Load				50	pF	
Symmetry (duty cycle)	T _{DC}	40		60	%	Ref to 1/2 VDD
Logic "1" Level	Vон	2.8			V	HCMOS load
Logic "0" Level	Vol			0.4	V	HCMOS load
Rise/Fall Time	T _R /T _F			6	nS	Ref. to 0.4 V to 2.8 V
Start-Up Time				10	mS	
Tristate Logic	Logic "1" or Open				V	Pad 1: Output Enabled
	Logic "0"				V	Pad 1: Output Disabled to high-Z
		Supply Vo	Itage & Powe	er Consu	mption	· · · · · ·
Operating Voltage	V _{DD}	2.97	3.3	3.63	V	
Operating Current	IDD			25	mA	

II. Environmental & Mechanical Requirements:

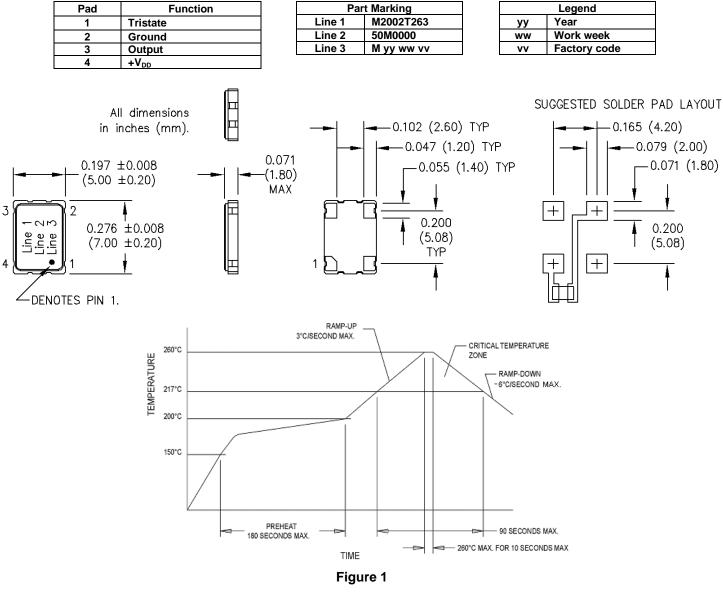
Operating Temperature	TA	-40		+85	°C			
Storage Temperature	Ts	-55		+125	°C			
Mechanical Shock	Per MIL-STD-202, Method 213, Condition I							
Vibration	Per MIL-STD-202, Method 202 & 204 Condition C							
Thermal Shock	Per MIL-STD-202, Method 207, Condition B-1							
Seal	Per MIL-STD-202, Method 112, Condition C.							
Hermeticity	Per MIL-STD-202, Method 112, Condition C & D.							
Resistance to Solvents	Per MIL-STD-202, Method 215.							
Max. Soldering Conditions	See solder profile, Figure 1							
Solderability	Per MIL-STD-202, Method 208.							
Package Type	4-pad 5 X 7 X 1.8 mm leadless ceramic.							





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III. Dimensions, Marking, and Pin Out Information:



IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
2/13/15	0	WNJ	Original release.
02/06/19	Α	MM	Updated device height.