

SPECIFICATION FOR HCMOS/TTL COMPATIBLE SMT OSCILLATOR

MtronPTI P/N: M2005S006

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		39.995800		MHz	
Frequency Stabilities						
Frequency Stability	ΔF/F	-100		+100	ppm	
Output						
Output Type		HCMOS/TTL Compatible				
Output Load				15/10	pF/TTL	
Symmetry (duty cycle)	T _{DC}	40		60	%	Ref to ½ V _{DD}
Logic “1” Level	V _{OH}	90% V _{DD}			V	HCMOS load
		V _{DD} – 0.5			V	TTL Load
Logic “0” Level	V _{OL}			10% V _{DD}	V	HCMOS load
				0.5		TTL Load
Rise/Fall Time	T _R /T _F			4	ns	From 10% to 90% V _{DD}
Start-up Time	TSU			15	ms	
Tristate Function		Logic “1” or floating Logic “0”				Lead1: Output Enabled Lead1: Disables Output to Hi-Z
Supply Voltage & Power Consumption						
Operating Voltage	V _{DD}	2.97	3.3	3.63	V	
Operating Current	I _{DD}			60	mA	

Environmental & Mechanical Requirements:

Operating Temperature	T _A	-55		+85	°C	
Storage Temperature	T _S	-55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
Vibration	Per MIL-STD-202, Methods 201 & 204					
Humidity	Per MIL-STD-202, Method 108.					
Altitude	Sea level to 70,000 feet max.					
Hermeticity	Per MIL-STD-883, Method 1014, Condition A1 & C1 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	9 X 14 mm 4-J lead ceramic. Sn-Pb solder dipped leads.					

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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	M2005S006
Line 2	39.995800M
Line 3	MPTI yyww

Legend	
yy	Year
ww	Work week

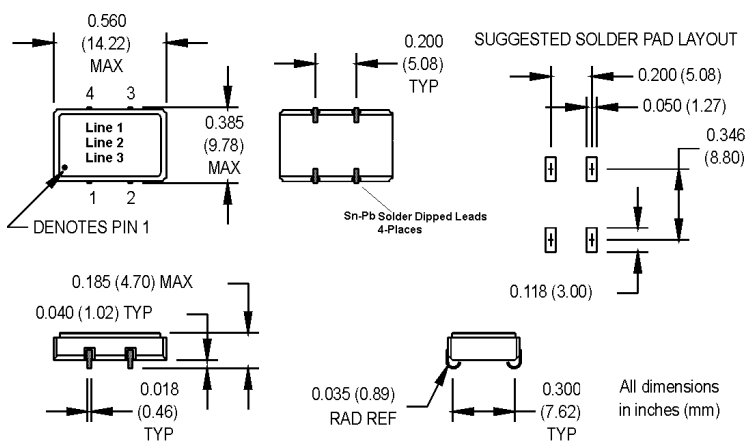
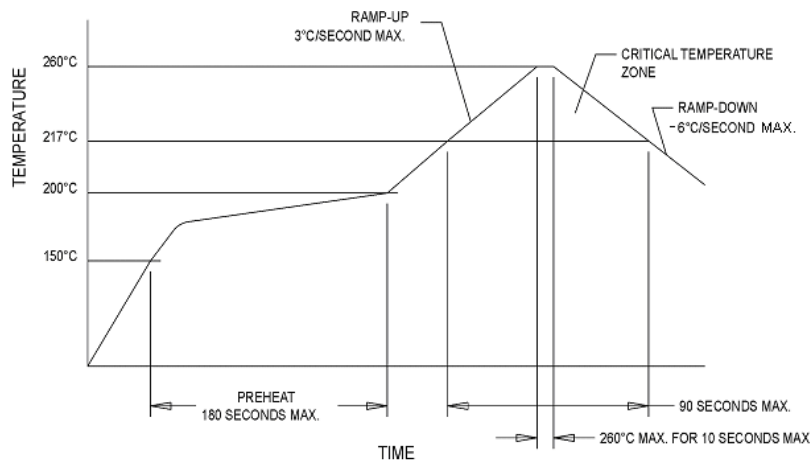


Figure 1



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
4/22/03	0	WNJ	Original release.
6/19/03	A	WNJ	Changed to Sn-Pb solder dipped lead finish.
02/05/18	B	MM	Updated datasheet format