

SPECIFICATION FOR SMT OSCILLATOR MtronPTI P/N M2005S105

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		16.000000		MHz	
Crystal Mode of Operation		Fundamental				
Frequency Stability						
Frequency Stability	ΔF/F	-100		+100	ppm	
RF Output						
Output Type		HCMOS/TTL Compatible				
Output Load				15/10	pF/TTL	
Symmetry (duty cycle)	T _{DC}	45	50	55	%	Ref to ½ V _{DD} & 1.4 V
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
Output Current	I _{OH}			-8	mA	
Output Current	I _{OL}			+8	mA	
Rise/Fall Time	T _R /T _F			6	nS	10% to 90% V _{DD} HCMOS load 0.5 V to 2.4 V TTL load
Tri-state Function		Logic “1” or floating Logic “0”				Lead1: Output Enabled Lead1: Disables Output to Hi-Z
Supply Voltage & Power Consumption						
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Operating Current	I _{DD}			35	mA	

Environmental & Mechanical Requirements:

Operating Temperature	T _A	-55		+125	°C	
Storage Temperature	T _S	-55		+125	°C	
Screening/Testing	MIL-STD883, MIL-PRF-38534					
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	9.0 X 14.0 X 4.7 mm J-lead ceramic. Sn-Pb solder dipped leads.					

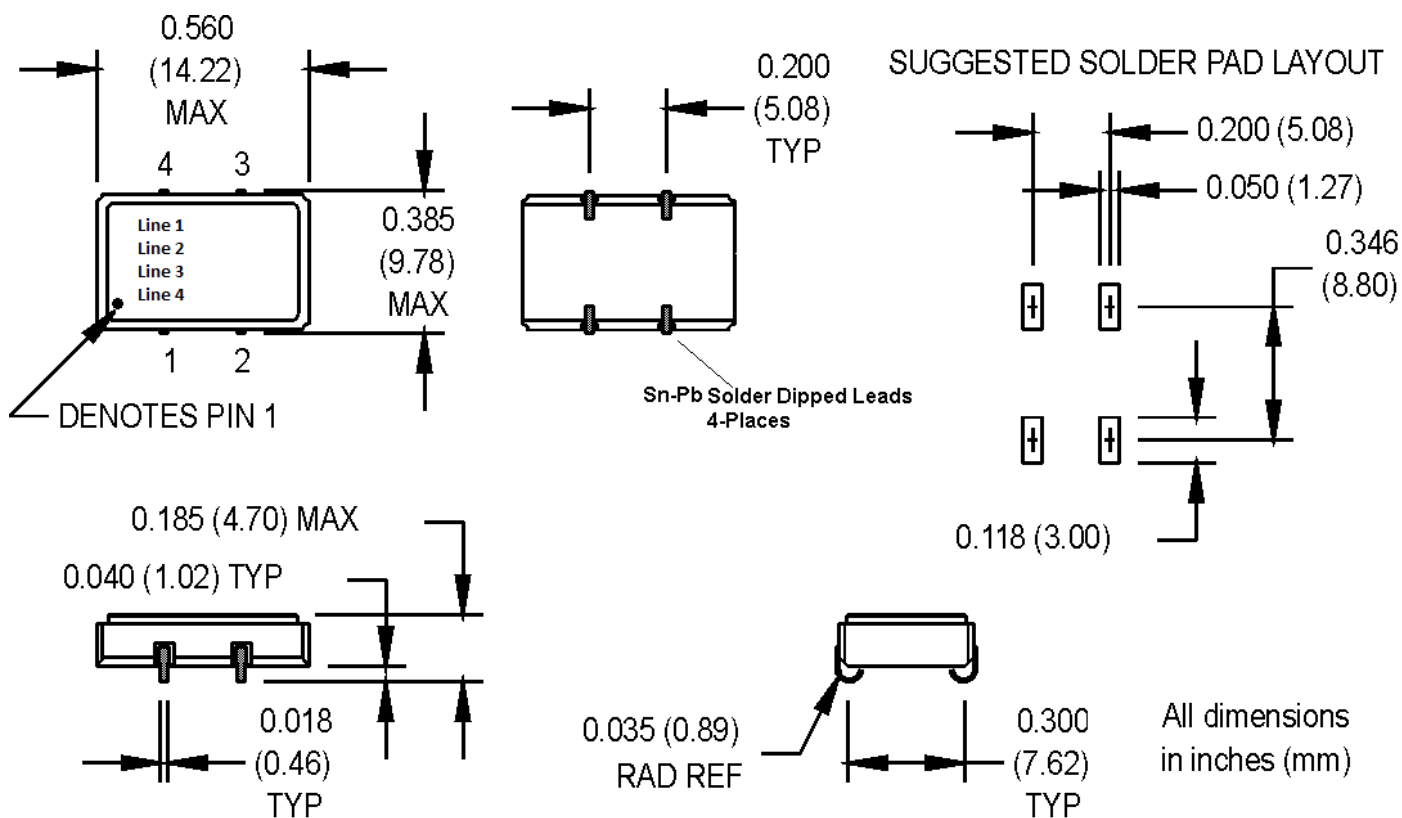
SPECIFICATION FOR SMT OSCILLATOR MtronPTI P/N M2005S105

Dimensions, Marking, and Pin Out Information:

Pad	Function
1	Tri-state
2	Ground / Cover
3	Output
4	+V _{DD}

Part Marking	
Line 1	M2005S105
Line 2	16.000000M
Line 3	M yy ww

Legend	
yy	Year
ww	Work week



SPECIFICATION FOR SMT OSCILLATOR MtronPTI P/N M2005S105

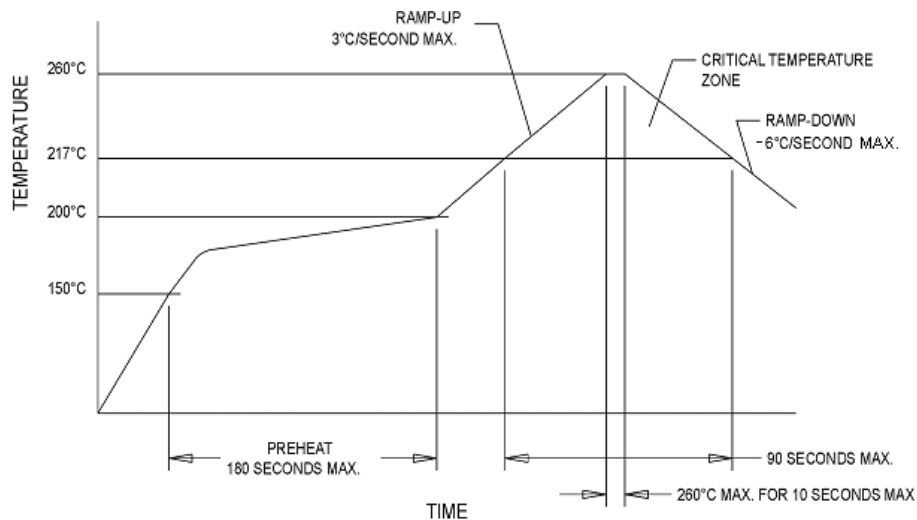


Figure 1

Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
09/22/16	0	MM	Original release.