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 HCMOS COMPATIBLE SMT OSCILLATOR
MtronPTI P/N M2005S029

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F_O		62.208000		MHz	
Frequency Stability	ΔF/F	-20		+20	ppm	Includes initial tolerance and deviation over temperature
Operating Temperature	T_A	-40		+85	°C	
Operating Voltage	V_{DD}	2.97	3.3	3.63	V	
Operating Current	I_{DD}			35	mA	
Output Type		HCMOS/TTL Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	C	45		55	%	Ref to ½ V_{DD} and 1.4 V
Logic "1" Level	V_{OH}	V_{DD} - 0.5			V	HCMOS load
Logic "0" Level	V_{OL}			0.5	V	HCMOS load
Rise/Fall Time	T_R/T_F			6	nS	From 10% to 90% V_{DD} and 0.5 V to 2.4 V
Tri-state Function		Logic "1" or floating enables output Logic "0" disables output to a Hi-Z				Pad1
Jitter (Cycle to Cycle)				20	pS	1-Sigma
Start-up Time	T_{SU}			10	mS	

Environmental & Mechanical Requirements:

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-883, Method 1014, Condition A1 & C1 (1×10^{-8} atm cc/s of helium)
Storage Temperature	-55°C to +125°C
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	9 X 14 mm 4-J lead ceramic (M8s type) - (Sn/Pb tinned leads, 63/37)

Absolute Maximum Ratings:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Supply Voltage	V_{DD}	-0.5		7	V	
Storage Temperature	T_{STG}	-55		150	°C	

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 HCMOS COMPATIBLE SMT OSCILLATOR
MtronPTI P/N M2005S029

Dimensions, Marking, and Pin Out Information:

Pad	Function
1	Tri-state
2	Ground
3	Output
4	$+V_{DD}$

Part Marking	
Line 1	M2005S029
Line 2	62.208000M
Line 3	M yyww

Legend	
yy	Year
ww	Work week

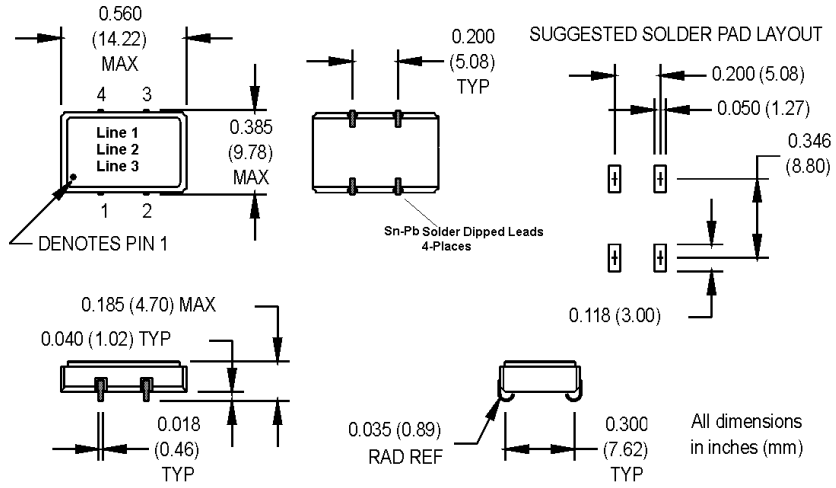
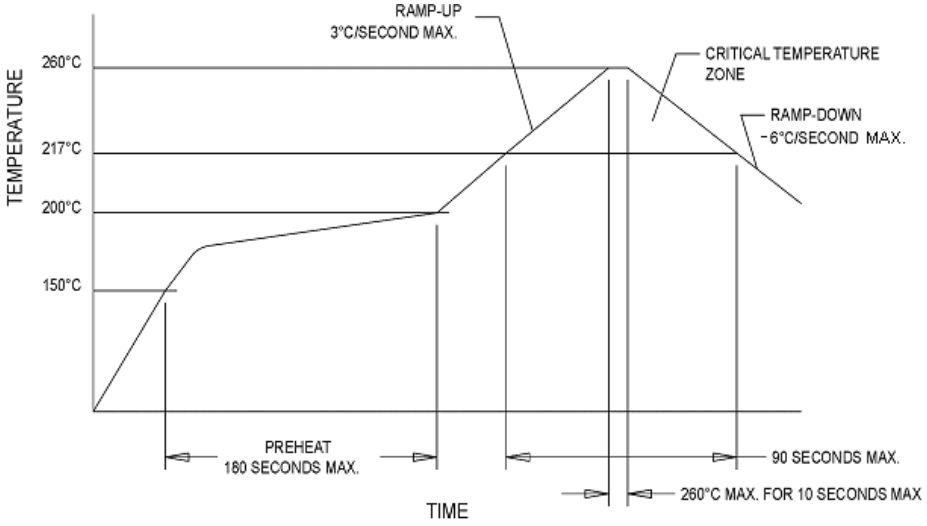


Figure 1



Datasheet Revision Table:

Date	Rev.	PCN	Details of Revision
2/4/13	B	N/A	Added absolute max ratings
9/27/11	A	N/A	Removed RoHS compliant symbol. Parts solder tinned in Sn/Pb solder. (MM)
10/6/04	0	N/A	Original release.