

## SPECIFICATION FOR HIGH OPERATING TEMPERAURE SMT OSCILLATOR MtronPTI P/N M2052S004

### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency Range	F <sub>O</sub>		7.500000		MHz	
Frequency Stability	ΔF/F	-250		+250	ppm	Includes initial calibration tolerance and deviation over operating temperature.
Operating Temperature	T <sub>A</sub>	-40		+200	°C	
Storage Temperature	T <sub>S</sub>	-55		+200	°C	
Operating Voltage	V <sub>DD</sub>	TBD	1.8	TBD	V	
Operating Current	I <sub>DD</sub>		TBD		mA	
Output Type		HCMOS/TTL Compatible				
Output Load				15/2	pF/TTL	
Symmetry (duty cycle)	T <sub>DC</sub>	40		60	%	Ref to ½ V <sub>DD</sub>
Logic "1" Level	V <sub>OH</sub>	90% V <sub>DD</sub>			V	HCMOS load
Logic "0" Level	V <sub>OL</sub>			10% V <sub>DD</sub>	V	HCMOS load
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>			TBD	nS	From 10% to 90% V <sub>DD</sub> . Frequency dependent.
Random Jitter			5	12	pS	RMS (1-Sigma)
Tri-State Function		Logic "1", or floating, Enables Output Logic "0" Disables Output to a High-Z				Pad 1

### Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition E (1000 g's, 0.5 ms duration, ½ sinewave)
Vibration	Per MIL-STD-202, Method 204, Condition D (10-2000 Hz at 20 g's)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	5 X 7 X 1.9 mm leadless ceramic. RoHS compliant.

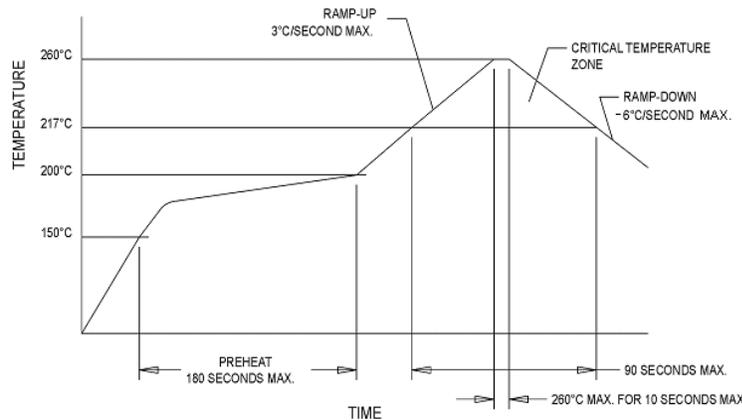
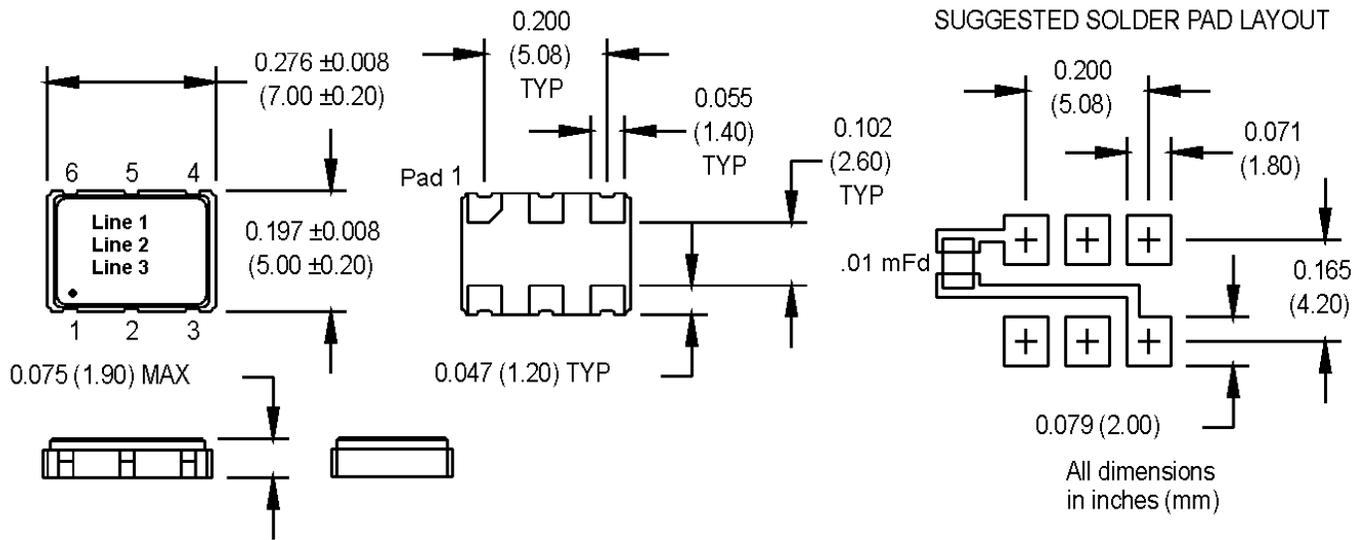
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### Dimensions, Marking, and Pin Out Information:

Pad	Function
1	Tri-state
2	No Internal Connection
3	Ground
4	Output
5	No Internal Connection
6	+V <sub>DD</sub>

Part Marking	
Line 1	M2052S004
Line 2	7M5000
Line 3	M yyww

Legend	
yy	Year
ww	Work week



### DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
2/21/13	0	MM	Original release.