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 SMT TCXO
MtronPTI P/N M6164S039

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F_O		10.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
Frequency Stabilities						
Frequency vs. Temperature	$\Delta F/F$			1.0	ppm	$(F_{MAX}-F_{MIN})/2$
Aging		-5.0		+5.0	ppm	10 years
Frequency vs. Supply	F_{VS}		± 0.02	± 0.1	ppm	For 5% voltage change
Frequency vs. Load	F_L		± 0.02	± 0.1	ppm	For 5% load change
Output						
Output Type		Clipped Sine Wave				
Output Load		10kΩ || 10*pF*				
Output Level	V_{OUT}	0.8			V_{pk-pk}	
Tristate Function		Logic "1", or floating, output Enabled. Logic "0", output Disabled.				Pad 8
Startup Time	T_{SU}			10	ms	
Additional Specifications						
SSB Phase Noise (Under Static Conditions)			-101		dBc/Hz	@ 10Hz Offset
			-123			@ 100Hz Offset
			-145			@ 1kHz Offset
			-155			@ 10kHz Offset
			-155			@ 100kHz Offset
G-sensitivity			1.3		ppb/g	
Supply Voltage & Power Consumption						
Operating Voltage	V_{DD}	3.135	3.3	3.465	V_{DC}	
Operating Current	I_{DD}			4.0	*mA*	

Environmental & Mechanical Requirements:

Operating Temperature	T_A	-40		+85	°C	
Storage Temperature	T_S	-55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sine wave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Solderability	Per MIL-STD-202, Method 208, except steam aging is not required					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	5.0 x 7.0 x 2.0mm, 10-pad Ceramic Leadless Chip Carrier. RoHS Compliant.					

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Mechanical, Marking and Layout Information:

Pad	Function
1	N/C
2	N/C
3	N/C
4	Ground/Case
5	Output
6	N/C
7	N/C
8	Tristate
9	$+V_{DD}$
10	N/C

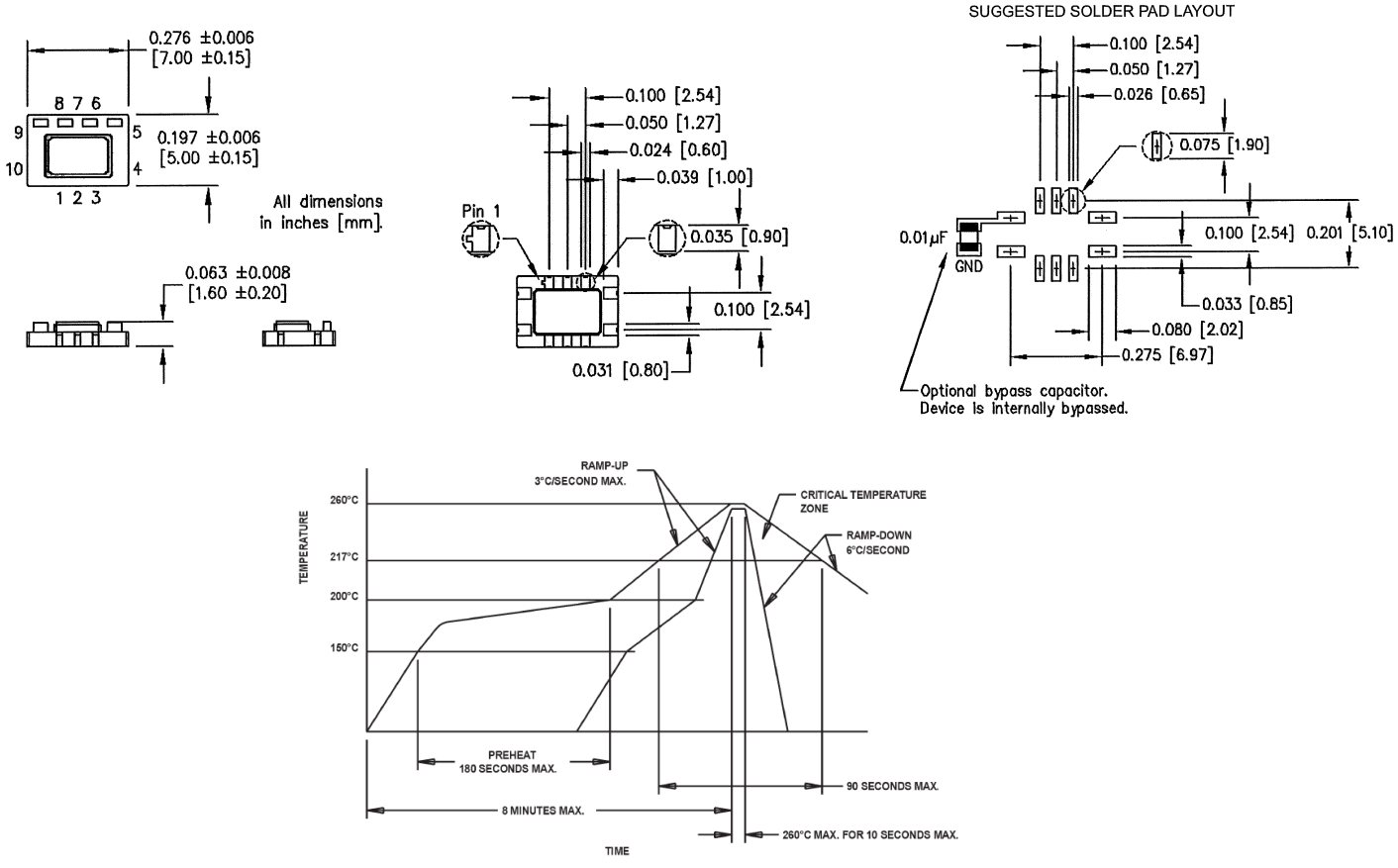

Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
05/09/17	0	MM	Original Release.