

## SPECIFICATION FOR SMT VCTCXO MtronPTI P/N M6030S047

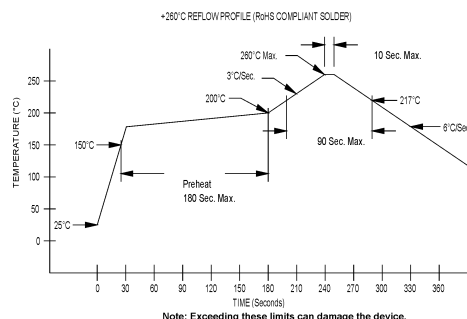
### I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 10.000000 MHz
2. INITIAL FREQUENCY TOLERANCE AT +25°C:  $\pm 1.0$  ppm max. ( $V_c = 1.5$  V)
3. FREQUENCY STABILITY OVER TEMPERATURE:  $\pm 2.5$  ppm max.
4. FREQUENCY VS. SUPPLY VOLTAGE:  $\pm 0.3$  ppm max. at +25°C.
5. FREQUENCY VS. AGING:  $\pm 1.0$  ppm/year max. at +25°C.  $\pm 3.0$  ppm max. for 10 yrs.
6. OPERATING TEMPERATURE: -20°C to +70°C
7. OPERATING VOLTAGE: 3.0 V  $\pm 5\%$
8. OPERATING CURRENT: 2 mA max.
9. OUTPUT TYPE: Clipped sine wave
10. OUTPUT LOAD: 10 K $\Omega$  || 10 pF typical.
11. OUTPUT LEVEL: 0.8 V pk-pk min.
12. ELECTRICAL TUNING RANGE (Pin 1):  $\pm 7$  ppm to  $\pm 15$  ppm.
13. TUNING VOLTAGE ( $V_c$ ) (Pad 1): 0.5 V to 2.5 V, 1.5 V for center frequency. Positive slope.
14. PHASE NOISE (Typ.): 10 kHz -145 dBc/Hz

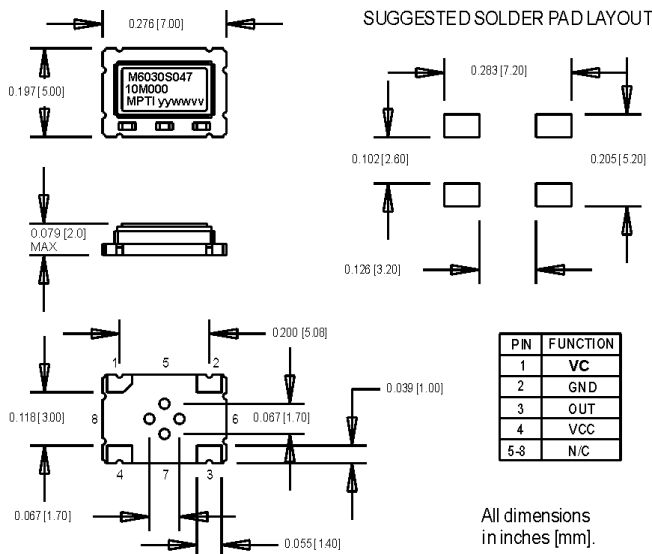
### II. ENVIRONMENTAL & PHYSICAL REQUIREMENTS:

1. SHOCK: Per MIL-STD-202, Method 213, Condition C
2. VIBRATION: Per MIL-STD-202, Method 201 & 204
3. SOLDERABILITY: Per EIAJ-STD-002
4. STORAGE TEMPERATURE: -40°C to +85°C
5. MAXIMUM SOLDERING CONDITIONS: See figure 1
6. PACKAGE: 5.0 X 7.0 X 2.0 mm SMT. RoHS compliant.

Figure 1



### III. DIMENSIONS:



### IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
11/12/07	0	N/A	Original release.
4/7/08	A	N/A	Changed Max. Height to 2.0mm. Supersedes 11/12/07 release.