P.O. Box 630 100 Douglas Ave. Yankton, SD 57078 USA
Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709
Website: www.mtronpti.com

SPECIFICATION FOR SMT OSCILLATOR
MtronPTI P/N M2015S076

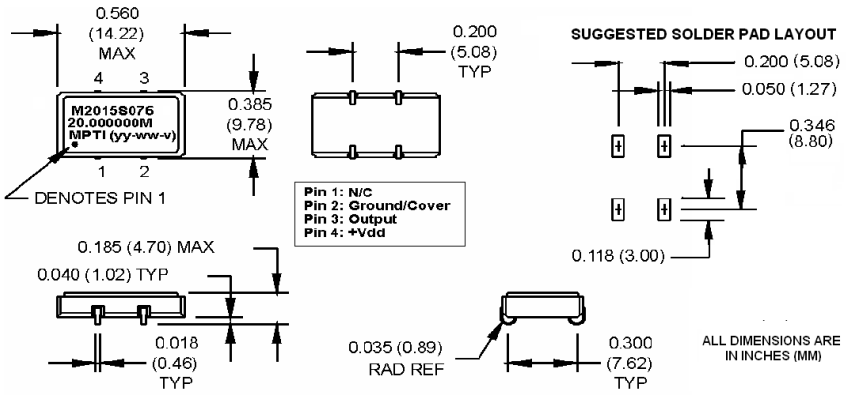
I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 20.000000MHz
2. FREQUENCY STABILITY
   All Causes: ±100ppm maximum
   (Includes initial tolerance, deviation over temperature, voltage & load variations and 10yrs. aging)
   Aging: ± 3ppm maximum 1st Year; ±2ppm/year maximum thereafter
3. OUTPUT
   Type: HCMOS Compatible
   Symmetry: 40/60% referenced to ½ V_{dd}
   Rise/Fall Time (HCMOS load): 7*nsec* maximum ref. 10% to 90%V_{dd}
   Logic Levels: V_{OL} = 10%V_{dd} maximum V_{OH} = 90%V_{dd} minimum
   Load: 50*pF* / 10LSTTL
4. RANDOM JITTER (Cycle-to-Cycle): 12*psec* RMS maximum (1 Sigma)
5. TRISTATE FUNCTION (Pad 1): Logic "high" or "floating", clock signal output
   Logic "low", output disables to high impedance state
6. POWER
   Supply Voltage (V_{dd}): +5.0V_{DC} ± 0.5V
   Current: 85*mA* maximum

II. ENVIRONMENTAL REQUIREMENTS:

1. OPERATING TEMPERATURE RANGE
   Operating: -40°C to +85°C
   Storage: -55°C to +125°C
2. SHOCK: Per MIL-STD-202, Methods 213, 10 C (100g's)
3. VIBRATION: Per MIL-STD-202, Methods 201 & 204, 10g's, 10Hz to 2000Hz.
4. THERMAL CYCLE: Per MIL-STD-883, Method 1010, B, (-55°C to +125°C, 15 min. dwell, 10 cycles)
5. HERMETICITY: Per MIL-STD-202, Method 112
6. SOLDERABILITY: Per EIAJ-STD-002
7. MAXIMUM SOLDERING CONDITIONS: See reflow profile
8. PACKAGE: 4-J lead ceramic. Hot Solder Dipped

III. DIMENSIONS:



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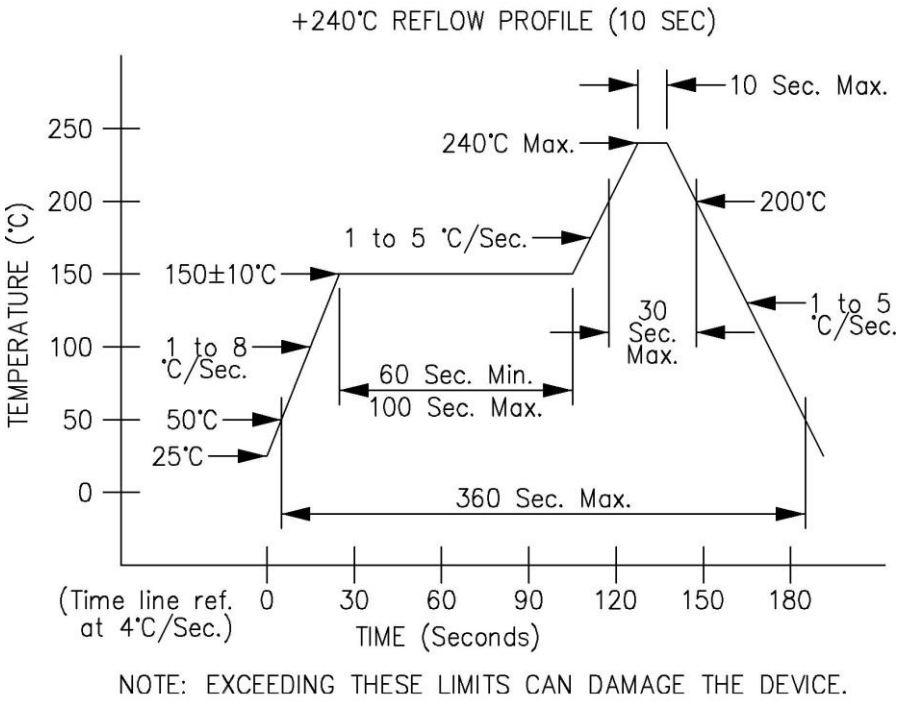
SPECIFICATION FOR SMT OSCILLATOR
MtronPTI P/N M2015S076
(Ref. NGC P/N: TBD)
Effective Date: September 26, 2008

IV. MAXIMUM SOLDERING CONDITIONS:



NOTE: EXCEEDING THESE LIMITS CAN DAMAGE THE DEVICE.

V. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
9/26/08	1	N/A	Added Appendix 1 – Avionics Screening
2/13/08	0	N/A	Original release.