

SPECIFICATION FOR RoHS COMPLIANT LVPECL SMT OSCILLATOR MtronPTI P/N M2100S012

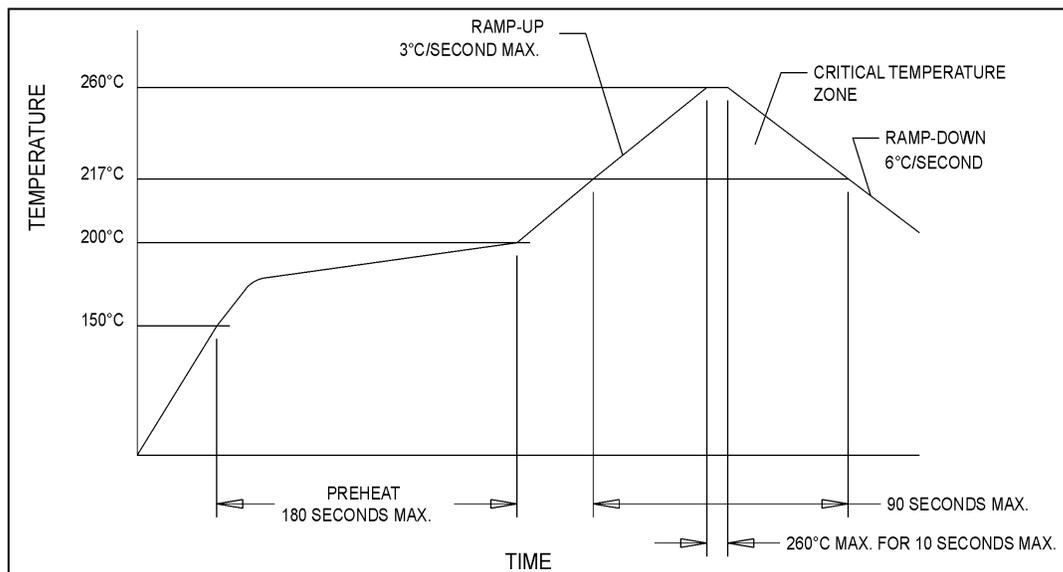
I. GENERAL & ELECTRICAL REQUIREMENTS:

1. TECHNOLOGY: 3rd Overtone Crystal – DSPLL Circuit
2. FREQUENCY: 644.531300 MHz
3. OVERALL FREQUENCY STABILITY: ± 50 ppm (Includes initial tolerance, deviation over temperature, supply voltage, shock & vibration, and. aging)
4. OPERATING TEMPERATURE RANGE: -20°C to +70°C
5. OPERATING VOLTAGE (V_{cc}): 3.3 V \pm 5%
6. OPERATING CURRENT: 125 mA max.
7. OUTPUT TYPE: Differential LVPECL Compatible
8. SYMMETRY: 45/55% ref. to V_{cc}-1.3
9. RISE/FALL TIME: 0.35 nS max. ref. to 20% to 80%
10. OUTPUT LOGIC LEVELS: V_{OL} = 1.630 V max. V_{OH} = 1.020 V min.
11. OUTPUT LOAD: 50 ohms to V_{cc}-2 V
12. PHASE JITTER (1-Sigma): 0.3 pS typical. (12 kHz to 20 MHz)
13. STARTUP TIME: 10.0 ms Max.
14. ENABLE/DISABLE FUNCTION (Pad 1): Enabled outputs = Logic “0”
 Disabled outputs = Logic “1”
15. PHASE NOISE (Typical): 10 Hz (-50 dBc/Hz), 100 Hz (-80 dBc/Hz), 1 kHz (-106 dBc/Hz), 10 kHz (-117 dBc/Hz), 100 kHz (-120 dBc/Hz), 1MHz (-130 dBc/Hz), 10MHz (-147 dBc/Hz)

II. ENVIRONMENTAL/MECHANICAL REQUIREMENTS:

1. SHOCK: MIL-STD-202, Method 213, Condition C.
2. VIBRATION: MIL-STD-202, Methods 201 & 204.
3. SOLDERABILITY: Per EIAJ-STD-002
4. HERMETICITY: 1 X 10⁻⁸ atm cc/sec min.
5. REFLOW SOLDER CONDITIONS: 260°C for 10 seconds max.
6. PACKAGE: 6- pad leadless ceramic. RoHS compliant.

III. REFLOW PROFILE:



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IV. DIMENSIONS:

