

SPECIFICATION FOR LVPECL SMT OSCILLATOR MtronPTI P/N M2100S057

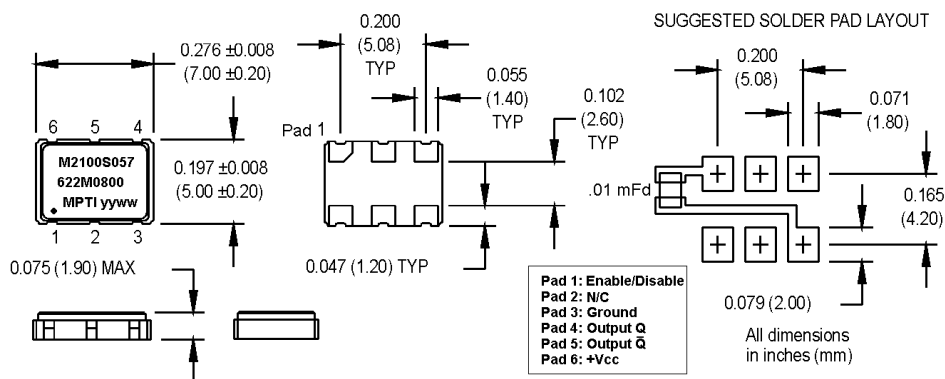
I. GENERAL & ELECTRICAL REQUIREMENTS:

1. FREQUENCY OF OPERATION: 622.080000 MHz
2. OVERALL FREQUENCY STABILITY: ± 20 ppm max. (Includes initial tolerance, deviation over temperature, supply voltage, shock & vibration, and aging)
3. OPERATING TEMPERATURE RANGE: 0°C to $+85^{\circ}\text{C}$
4. OPERATING VOLTAGE (V_{cc}): $3.3\text{ V} \pm 0.165\text{ V}$
5. OPERATING CURRENT: 105 mA max.
6. OUTPUT TYPE: Differential LVPECL Compatible
7. SYMMETRY: 45/55% ref. to 50% of waveform.
8. RISE/FALL TIME: 0.55 nS max. ref. to 20% to 80%
9. OUTPUT LOGIC LEVELS: $V_{OL} = V_{cc} - 1.63\text{ V}$ max. $V_{OH} = V_{cc} - 1.02\text{ V}$ min.
10. OUTPUT LOAD: 50 ohms to V_{cc} -2 VDC
11. PHASE JITTER: 1.5 pS max. (Integrated from 12 kHz to 20 MHz)
12. ENABLE/DISABLE FUNCTION (Pad 1): Enabled outputs = Logic "1", Disabled outputs = Logic "0"
13. PHASE NOISE (Typical): 10 Hz -50 dBc/Hz , 100 Hz -80 dBc/Hz , 1 kHz -100 dBc/Hz
10 kHz -118 dBc/Hz , 100 kHz -121 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: 1×10^{-8} atm cc/sec min.
5. MAXIMUM SOLDERING CONDITIONS: See figure 1
6. PACKAGE: 6- pad leadless ceramic. RoHS 6/6 compliant.

III: DIMENSIONS:



IV. DATA SHEET REVISION TABLE:

Date	Rev.	PCN	Details of Revision
8/17/07	0	N/A	Original release.