TCXO Specification

Part No. + Packaging: ***LFTCXO078374Reel***

Description

- Temperature Compensated Crystal Oscillator (TCXO) in a 2.5x2.0mm surface mount package.
- Model IQXT-183-1
- Model Issue number 1

Frequency Parameters

- Frequency 26.0MHz
- Frequency Tolerance ±1.50ppm
- Tolerance Condition @ 25°C
- Frequency Stability ±2.50ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±1ppm max per year @ 25°C
- Supply Voltage Variation (@ ±5% change): ±0.2ppm max
- Load Variation (@ ±5% change): ±0.2ppm max

Electrical Parameters

- Supply Voltage 3.3V ±5%
- Current Draw 2.000mA

Output Details

- Output Compatibility Clipped Sine
- Drive Capability 10kΩ//10pF
- Output: DC cut clipped sine
  Note: for AC coupling, connect a 10nF capacitor in the output line.
- Output Levels: 0.8V pk-pk min

Output Control

- Start Up Time (90% of V pk-pk): 3ms max

Noise Parameters

- Phase Noise: -130dBc/Hz typ @ 1kHz

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Drop Test (JIS-C-60068-2-31:2013): dropped 2 times from a height of 1500mm ±150mm onto concrete or steel plate.
- Vibration (MIL-STD-883K, Method 2007.3): amplitude 1.5mm, acceleration 20g, frequency 20Hz-2000Hz-20Hz/1 cycle in X, Y and Z axis. Cycle 4 times, sweep time 4min

Manufacturing Details

- Note: please connect a 10nF decoupling capacitor as close as posible between +Vs and GND
- RoHS Terminations
- RoHS Reflow Temp 260°C max for 10sec max

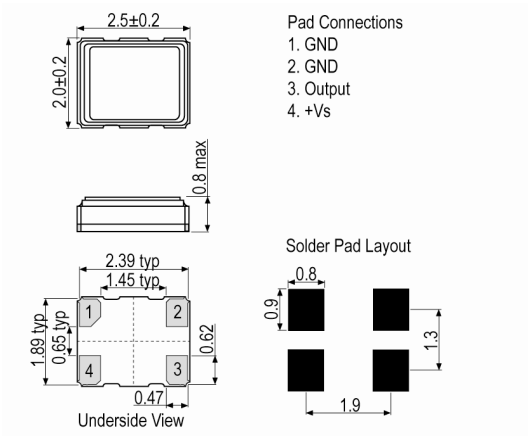
Compliance

- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000

Outline (mm)



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- *Alternative packing option available*

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