


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 $\pm 1.50\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 2.50\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 1\text{ppm}$ max per year @ 25°C
- Supply Voltage Variation (@ $\pm 5\%$ change): $\pm 0.2\text{ppm}$ max
- Load Variation (@ $\pm 5\%$ change): $\pm 0.2\text{ppm}$ max

Electrical Parameters

- Supply Voltage 3.3V $\pm 5\%$
- Current Draw 2.000mA

Output Details

- Output Compatibility Clipped Sine
- Drive Capability 10k Ω //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 $\pm 150\text{mm}$ 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

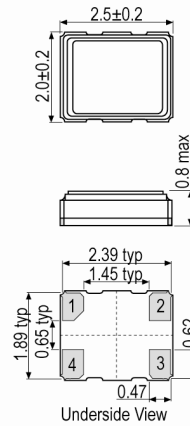
- Note: please connect a 10nF decoupling capacitor as close as possible between +Vs and GND
- RoHS Terminations
- RoHS Reflow Temp 260°C max for 10sec max

Compliance

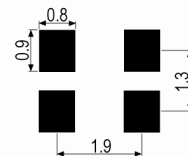
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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

Outline (mm)

Pad Connections

1. GND
2. GND
3. Output
4. +Vs

Solder Pad Layout

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com



TCXO Specification

Part No. + Packaging: *LFTCXO0078374Reel*

- *Alternative packing option available*

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

France: 0800 901 383
USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[IQD Frequency Products:](#)

[LFTCX0078374Reel](#)