



Description

- Temperature Compensated Crystal Oscillator (TCXO) in a 2.5 x 2.0mm surface mount package.
- Model IQXT-183-1
- Model Issue number 2

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

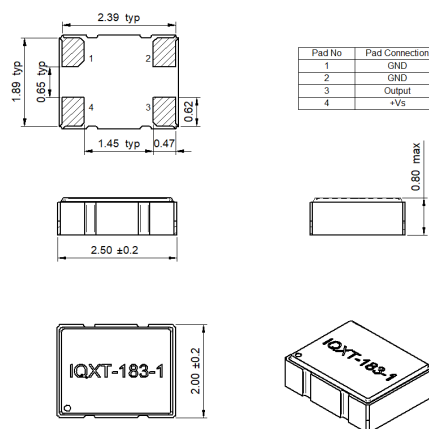
- Note: please connect a 10nF decoupling capacitor as close as possible between +Vs and GND
- RoHS Terminations
- RoHS Reflow Temp 260°C max for 10sec max

Compliance

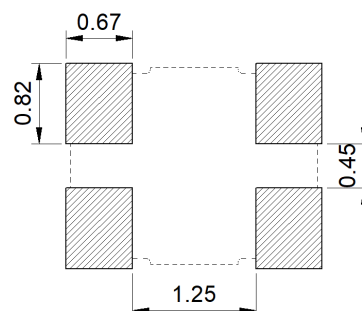
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Recommended Solder Pad Layout



Note : Please connect a bypass capacitor closely to Vcc Pad.(10nF recommended)

Sales Office Contact Details:

UK: +44 (0)1460 270200

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Packaging Details

- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape

Standard Pack Quantity: 3,000

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