



Description

- Temperature compensated voltage controlled crystal oscillator (TCVCXO)

Model IQXT-200-4-B

Model Issue number 1

Frequency Parameters

- Frequency 12.80MHz
- Frequency Tolerance @ 25°C ± 0.50 ppm
- Frequency Stability ± 0.28 ppm
- Operating Temperature Range -20.00 to 70.00°C
- Ageing ± 0.02 ppm max per day, ± 1 ppm max per year
- Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC=1.65V and load=10k Ω //10pF): ± 0.1 ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=10k Ω //10pF): ± 0.1 ppm max
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and within 30 days after ex-works): ± 0.5 ppm
- Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @ 10MHz
- Frequency Stability: TA varied from -20°C to 70°C, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V, load=10k Ω //10pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs= 3.3V, VC=1.65V and after 1hr of operation.

Electrical Parameters

- Supply Voltage 3.3V
- Supply Voltage Tolerance $\pm 5\%$
- Current Draw 10.00mA max
- Current: TA=25°C, Vs=3.3V, VC=1.65V and load=10k Ω //10pF

Frequency Adjustment

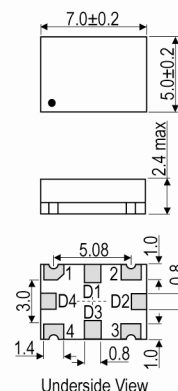
- Pulling ± 10 ppm to ± 15 ppm
- Control Voltage Details 1.65V ± 1.65 V
- Linearity: $\pm 10\%$ max
- Input Impedance: 100k Ω min
- Slope: Positive

Output Details

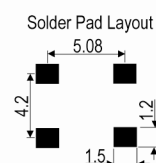
- Output Compatibility Clipped Sine
- Output Load 10k Ω //10pF
- Output Level: 0.8V pk-pk min
- Phase Noise (@ 10MHz typ):
 - 90dBc/Hz @ 10Hz
 - 115dBc/Hz @ 100Hz
 - 135dBc/Hz @ 1kHz
 - 145dBc/Hz @ 10kHz
 - 148dBc/Hz @ 100kHz
 - 150dBc/Hz @ 1MHz



Outline (mm)



Pad Connections
1. Voltage Control
2. GND
3. Output
4. +Vs
D1, D2, D3, D4. N/C



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Part No. + Packaging: **LFTVX0063706REEL**

- Shock: IEC 60068-2-27, Test Ea: 100G acceleration for 6ms, sinewave, in 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc: 10Hz-2000Hz, 0.75mm amplitude, 10G acceleration, 30mins per cycle, in 3 mutually perpendicular planes, test duration 2hrs
- Storage Temperature Range: -55 to 105°C
- ESD Level:
 HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010
 Machine Model. Class B: 200V to 400V, JEDEC JS-001-2010

- Moisture Sensitivity Level: 2
- Maximum Reflow Temperature: 260°C (30secs max)

■ RoHS Status	Compliant
■ REACH Status	Compliant

■ Pack Type: Reel	Tape & reel in accordance with EIA-481-D
Pack Size	600
■ Alternative packing option available	

This document is correct at the time of printing; please contact your local office for the latest version.

Web: www.iqdfrequencyproducts.com