

Part No. + Packaging: LFTCX0063716REEL

#### Description

Ageing

Temperature compensated crystal oscillator (TCXO)

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Model	IQXT-200-2-B
Model Issue number	1
Frequency Parameters	
Frequency	20.0MHz

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

# **Electrical Parameters**

- Supply Voltage 3.30V
- Supply Voltage Tolerance +5% Current Draw 10.00mA max
- Current: TA=25°C, Vs=3.3V and load=10kQ//10pF

## **Output Details**

- Output Compatability **Clipped Sine**  Output Load 10kΩ//10pF
- Output Level: 0.8V pk-pk min

#### **Noise Parameters**

- Phase Noise (@ 10MHz typ):
  - -90dBc/Hz @ 10Hz
  - -115dBc/Hz @ 100Hz
  - -135dBc/Hz @ 1kHz
  - -145dBc/Hz @ 10kHz
  - -148dBc/Hz @ 100kHz -150dBc/Hz @ 1MHz
- **Environmental Parameters**
- 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

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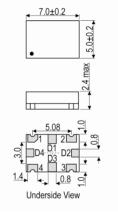
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## Outline (mm)









# Manufacturing Details

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

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Compliance	
<ul> <li>RoHS Status</li> </ul>	Compliant
REACh Status	Compliant
Packaging	
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.

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