

Part No. + Packaging: LFTVX0063701REEL

### Description

 Temperature compensated voltage controlled crystal oscillator (TCVCXO)

Model	IQXT-200-3-B
Model Issue number	1
Frequency Parameters	
Frequency	10.0MHz
Frequency Tolerance @ 25°C	±0.50ppm

- ±0.28ppm Frequency Stability
- -20.00 to 70.00°C Operating Temperature Range
- Ageing
  - ±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, VC=1.65V and load=15pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=15pF): ±0.1ppm 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): ±0.5ppm
- 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=15pF 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**

<ul> <li>Supply Voltage</li> </ul>	3.3V
<ul> <li>Supply Voltage Tolerance</li> </ul>	±5%
<ul> <li>Current Draw</li> </ul>	10.00mA max
<ul> <li>Current: TA=25°C, Vs=3.3V, VC=1.65V and load=15pF</li> </ul>	

#### **Frequency Adjustment**

- Pulling
- Control Voltage Details
- Linearity: ±10% max
- Input Impedance: 100kΩ min
- Slope: Positive

### **Output Details**

±10ppm to ±15ppm

1.65V ±1.65V

- -135dBc/Hz @ 1kHz
- -145dBc/Hz @ 10kHz
- -148dBc/Hz @ 100kHz

## -150dBc/Hz @ 1MHz

# Sales Office Contact Details:

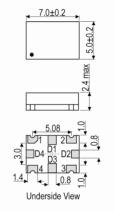
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## Outline (mm)







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### **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

## Manufacturing Details

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

Compliance	
<ul> <li>RoHS Status</li> </ul>	Compliant
<ul> <li>REACh Status</li> </ul>	Compliant
Packaging	
Pack Type: Reel	Tape & reel in accordance with EIA-481-D
Pack Size	600
<ul> <li>Alternative packing option available</li> </ul>	

Alternative packing option available

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