

## **Oscillator Specification**

Part No. + Packaging: LFTVX0063787REEL

### Description

 Temperature compensated voltage controlled crystal oscillator (TCVCXO)

Model	IQXT-210-3
Model Issue number	2

- 2 **Frequency Parameters**
- Frequency
- Frequency Tolerance @ 25°C ±0.50ppm
- ±0.14ppm Frequency Stability
- -40.00 to 85.00°C Operating Temperature Range
- Ageing
  - ±0.02ppm max per day, ±1ppm max per year

19.20MHz

- Supply Voltage Variation (measurement referenced to frequency) observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC=1.5V and load=15pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V and load=15pF): ±0.2ppm max
- Frequency Tolerance (measurement referenced to frequency) observed with TA=25°C, Vs=3.3V, VC=1.5V 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 across the operating temperature range, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V, load=15pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs=3.3V, VC=1.5V 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
Current: TA=25°C, Vs=3.3V, VC=1.5V and load=15pF	
Frequency Adjustment	
<ul> <li>Pulling</li> </ul>	±10ppm to ±15ppm
<ul> <li>Control Voltage Details</li> </ul>	1.5V ±1.5V
Linearity: ±10% max	

- Input Impedance: 100kΩ min
- Slope: Positive

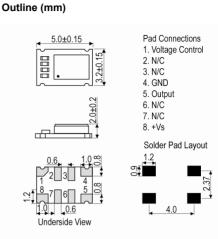
### **Output Details**

- -145dBc/Hz @ 10kHz -148dBc/Hz @ 100kHz
- -150dBc/Hz @ 1MHz

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## **Environmental Parameters**

- Shock: IEC 60068-2-27, Test Ea: 100G acceleration for 6ms, half 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
- Operable Temperature Range: -40 to 85°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

 RoHS Status
 Compliant

 REACh Status
 Compliant

## Packaging

Pack Size

- Pack Type: Reel
- Tape & reel in accordance with EIA-481-D 1.000
- 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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