Description
- Temperature compensated crystal oscillator (TCXO)
- Model: IQXT-210-2
- Model Issue number: 2

Frequency Parameters
- Frequency: 10.0MHz
- Frequency Tolerance @ 25°C: ±0.50ppm
- Frequency Stability: ±0.14ppm
- Operating Temperature Range: -40.00 to 85.00°C
- 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 and load=10kΩ/10pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V and load=10kΩ/10pF): ±0.2ppm max
- Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, load=10kΩ/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: 3.3V
- Supply Voltage Tolerance: ±5%
- Current Draw: 10.00mA max
- Current: TA=25°C, Vs=3.3V and load=10kΩ/10pF

Output Details
- Output Compatibility: Clipped Sine
- Output Load: 10kΩ/10pF
- Output Levels: 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, 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
- Moisture Sensitivity Level: 2
Part No. + Packaging: LFTCX0063781BULK

Oscillator Specification

- Maximum Reflow Temperature: 260°C (30secs max)

Compliance
- RoHS Status: Compliant
- REACh Status: Compliant

Packaging
- Pack Type: Bulk
- Loose in bulk pack
- Pack Size: 1

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Sales Office Contact Details:

USA: +1 408.273.4530
France: +33 (0)5 34 50 91 18
Germany: +49 (0)7264 9145-62
UK: +44 (0)1460 270200
USA: +1 408.273.4530
Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com