

Oscillator Specification

Part No. + Packaging: LFTCX0063782BULK

A.

Description

■ Temperature compensated crystal oscillator (TCXO)

■ Model IQXT-210-2

■ Model Issue number 2

Frequency Parameters

Frequency
Frequency Tolerance @ 25°C
Frequency Stability
±0.50ppm
±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 VoltageSupply Voltage Tolerance±5%

Current Draw 10.00mA max
Current: TA=25°C, Vs=3.3V and load=10kΩ//10pF

Output Details

Output Compatability Clipped SineOutput 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

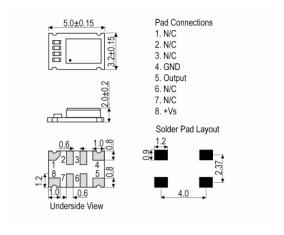
Environmental Parameters

- 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

Outline (mm)



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

Compliance

RoHS Status CompliantREACh Status Compliant

Packaging

■ Pack Type: Bulk Loose in bulk pack

Pack Size 1

Alternative packing option available

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