

Oscillator Specification

Part No. + Packaging: LFTCX0063782REEL

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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

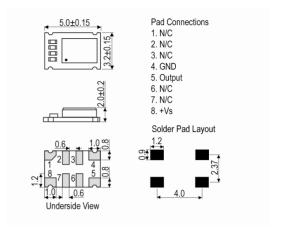
 Shock: IEC 60068-2-27, Test Ea: 100G acceleration for 6ms, half sinewave, in 3 mutually perpendicular planes

 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

Outline (mm)



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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 CompliantREACh Status Compliant

Packaging

Pack Type: Reel
Tape & reel in accordance with

EIA-481-D

Pack Size 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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