

Oscillator Specification

Part No. + Packaging: LFTCX0063712BULK

A CONTRACTOR

Description

■ Temperature compensated crystal oscillator (TCXO)

■ Model IQXT-200-1-B

■ Model Issue number 1

Frequency Parameters

■ Frequency
■ Frequency Tolerance @ 25°C
■ Frequency Stability
±0.28ppm

■ Operating Temperature Range -20.00 to 70.00°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=15pF): ±0.1ppm max

 Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V and load=15pF): ±0.1ppm max

 Frequency Stability: TA varied from -20°C to 70°C, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, load=15pF 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 3.3VSupply Voltage Tolerance ±5%

■ Current Draw 10.00mA max

Current: TA=25°C, Vs=3.3V and load=15pF

Output Details

Output Compatability
Output Load
Rise and Fall time (10% - 90%)
Buty Cycle
Output Low (@ Vs=3.3V, load=15pF): 0.4V max
Output High (@ Vs=3.3V, load=15pF): 2.4V 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, 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:

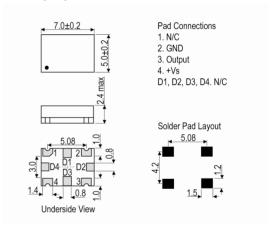
HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010 Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010

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Outline (mm)



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Moisture Sensitivity Level: 2

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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