

Oscillator Specification

Part No. + Packaging: LFTCX0063709BULK

Description

■ Temperature compensated crystal oscillator (TCXO)

Model IQXT-200-1-B

■ Model Issue number

Frequency Parameters

Frequency 10 0MHz ■ Frequency Tolerance @ 25°C ±0.50ppm Frequency Stability ±0.28ppm

 Operating Temperature Range -20.00 to 70.00°C

±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

■ 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 @

 Frequency Tolerance (measurement referenced to frequency) observed with TA=25°C, Vs=3.3V and within 30 days after ex-works):

■ Ageing: TA=25°C, Vs=3.3V and after 1hr of operation.

Electrical Parameters

Supply Voltage 3.30V Supply Voltage Tolerance ±5%

Current Draw 10.00mA max

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

Output Details

 Output Compatability **HCMOS** Output Load 15pF ■ Rise and Fall time (10% - 90%) 8ns max **Duty Cycle** 45/55% max 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:

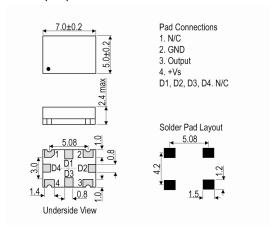
HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010 Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010

Sales Office Contact Details:

UK: +44 (0)1460 270200 France: +33 (0)5 34 50 91 18 Germany: +49 (0) 30 408 192 300 USA: +1 408.273.4530



Outline (mm)



Email: info@iqdfrequencyproducts.com Web: www.igdfrequencyproducts.com

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Manufacturing Details

■ 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

This document is correct at the time of printing; please contact your local office for the latest version.

Sales Office Contact Details:

UK: +44 (0)1460 270200 Germany: +49 (0) 30 408 192 300 France: +33 (0)5 34 50 91 18 USA: +1 408.273.4530 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com