

Part No. + Packaging: LFTVX0063707REEL

Description

 Temperature compensated voltage controlled crystal oscillator (TCVCXO)

Model	IQXT-200-4-B
Model Issue number	1

Frequency ParametersFrequency19.20MHzFrequency Tolerance @ 25°C±0.50ppmFrequency Stability±0.28ppmOperating Temperature Range-20.00 to 70.00°C

- Ageing
- Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC=1.65V and load=10kΩ//10pF): ±0.1ppm max

±0.02ppm max per day, ±1ppm

max per year

- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF): ±0.1ppm max
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and within 30 days after ex-works): ±0.5ppm
- Short Term Stability (@ 25°C after 10mins power on): 5E-10/s typ @ 10MHz
- Frequency Stability: TA varied from -20°C to 70°C, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V, load=10kΩ//10pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs= 3.3V, VC=1.65V and after 1hr of operation.

Electrical Parameters

 Supply Voltage 	3.3V
 Supply Voltage Tolerance 	±5%
 Current Draw 	10.00mA max

±10ppm to ±15ppm

1.65V ±1.65V

Current: TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF

Frequency Adjustment

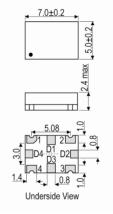
- Pulling
- Control Voltage Details
- Linearity: ±10% max
- Input Impedance: 100kΩ min
- Slope: Positive

Output Details

- Output Compatability
 Output Load
 Clipped Sine
 10kΩ//10pF
- Output Level: 0.8V pk-pk min
- Phase Noise (@ 10MHz typ):
- -90dBc/Hz @ 10Hz
- -115dBc/Hz @ 100Hz
- -135dBc/Hz @ 1kHz
- -145dBc/Hz @ 10kHz
- -148dBc/Hz @ 100kHz
- -150dBc/Hz @ 1MHz



Outline (mm)







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

Part No. + Packaging: LFTVX0063707REEL

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

Manufacturing Details

- Moisture Sensitivity Level: 2
- Maximum Reflow Temperature: 260°C (30secs max)

Compliance	
 RoHS Status 	Compliant
 REACh Status 	Compliant
Packaging	
Pack Type: Reel	Tape & reel in accordance with EIA-481-D
Pack Size	600
 Alternative packing option available 	

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