

Oscillator Specification

Outline (mm)

Part No. + Packaging: LFTVX0063787BULK

Description

 Temperature compensated voltage controlled crystal oscillator (TCVCXO)

(10000)	
Model	IQXT-210-3
Model Issue number	2
Frequency Parameters	
Frequency	19.20MHz
 Frequency Tolerance @ 25°C 	±0.50ppm
Frequency Stability	±0.14ppm
 Operating Temperature Range 	-40.00 to 85.00°C
 Ageing 	±0.02ppm max per day, ±1ppm max per vear

- Supply Voltage Variation (measurement referenced to frequency) observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC=1.5V and load=15pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V and load=15pF): ±0.2ppm max
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V 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 across the operating temperature range, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V, load=15pF and temperature variable speed less than 2°C per minute.
- Ageing: TA=25°C, Vs=3.3V, VC=1.5V and after 1hr of operation.

Electrical Parameters

Supply VoltageSupply Voltage ToleranceCurrent Draw	3.3V ±5% 10.00mA max	
Current: TA=25°C, Vs=3.3V, VC=1.5V and load=15pF		
Frequency Adjustment		
 Pulling Control Voltage Details Linearity: ±10% max Input Impedance: 100kΩ min Slope: Positive 	±10ppm to ±15ppm 1.5V ±1.5V	
Output Details		
 Output Compatability Output Load Rise and Fall time (10% - 90%) Duty Cycle Output Low (@ Vs=3.3V, load=15pf Output High (@ Vs=3.3V, load=15pf Phase Noise (@ 10MHz typ): -90dBc/Hz @ 10Hz -115dBc/Hz @ 100Hz -135dBc/Hz @ 1kHz 	,	

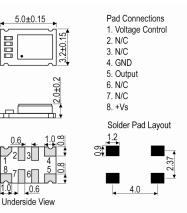
- -145dBc/Hz @ 10kHz
- -148dBc/Hz @ 100kHz -150dBc/Hz @ 1MHz

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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

Manufacturing Details

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

Compliance

- RoHS Status Compliant Compliant
- REACh Status

Packaging

- Pack Type: Bulk Pack Size
- Loose in bulk pack 1
- Alternative packing option available

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