

Part No. + Packaging: LFTVX0063708BULK

Description

 Temperature compensated voltage controlled crystal oscillator (TCVCXO)

(1000)	
Model	IQXT-200-4-B
Model Issue number	1
Frequency Parameters	
Frequency	20.0MHz
 Frequency Tolerance @ 25°C 	±0.50ppm
Frequency Stability	±0.28ppm
Operating Temperature Range	-20.00 to 70.00°C

- Operating Temperature Range
- 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=10k Ω //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	
Current: TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF		

±10ppm to ±15ppm

1.65V ±1.65V

Frequency Adjustment

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

Output Details

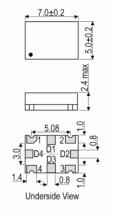
- Output Compatability **Clipped Sine** Output Load 10kΩ//10pF
- Output Level: 0.8V pk-pk min

Noise Parameters

- Phase Noise (@ 10MHz typ):
 - -90dBc/Hz @ 10Hz
 - -115dBc/Hz @ 100Hz
 - -135dBc/Hz @ 1kHz
 - -145dBc/Hz @ 10kHz
 - -148dBc/Hz @ 100kHz
 - -150dBc/Hz @ 1MHz



Outline (mm)







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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: Bulk	Loose in bulk pack
Pack Size	1

Alternative packing option available

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