



Part No. + Packaging: **LFTVX0075803Cutt**

Customer Part:

Description

 Temperature compensated voltage controlled crystal oscillator (VCTCXO) in a hermetically sealed 3.2x2.5mm SMD package.

■ Model IQXT-220-2

Model Issue number 3

Frequency Parameters

■ Frequency
■ Frequency Tolerance
■ Frequency Stability
±1.00ppm
±0.28ppm

Operating Temperature Range -40.00 to 85.00°C

Ageing ±0.02ppm max/day, ±1ppm

max/year

 Frequency Tolerance: Measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V and load=10kΩ//10pF, within 30 days after ex-works.

 Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with fref=(fmax+fmin)/2, Vs=3.3V, VC=1.5V, load=10kΩ//10pF and temperature variable speed less than 2°C/min

 Ageing: Vs, VC, TA and load constant, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V, load=10kΩ//10pF and after 1hr of operation.

 Supply Voltage Variation (measurement referenced to frequency observed TA=25°C, Vs varied from 3.13V to 3.47V, VC=1.5V and load=10kΩ//10pF): ±0.1ppm max

 Load Variation (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.5V and load change=10kΩ//10pF ±5%): ±0.1ppm max

Electrical Parameters

Supply Voltage 3.3V ±5%Current Draw 5.000mA

 Current Consumption (@ TA=25°C, Vs=3.3V, VC=1.5V and load=10kΩ//10pF): 5mA max

Frequency Adjustment

Pulling ±10ppm min to ±15ppm

max

Control Voltage 1.5V ±1.0VInput Impedance 100kΩ min

Linearity: 10% maxSlope: Positive

Output Details

Output Compatibility Clipped SineDrive Capability 10kΩ//10pF

Output Voltage Level: 0.8V pk-pk min

Noise Parameters

Phase Noise @ 25°C (F=10.0MHz, typ):

-90dBc/Hz @ 10Hz

-120dBc/Hz @ 100Hz

-140dBc/Hz @ 1kHz

-145dBc/Hz @ 10kHz

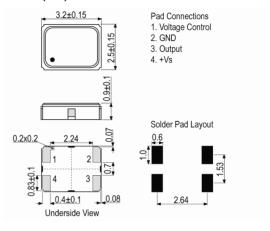
-148dBc/Hz @ 100kHz

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12.4

Outline (mm)



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Customer Part:

Environmental Parameters

- Operable Temperature Range: -40 to 85°C
- Storage Temperature Range: -55 to 105°C
- ESD Levels:

ESD Human Body Model (JEDEC JS-001-2010): Class 2: 2000V to 4000V

ESD Machine Model (JEDEC JESD22-A115C): Class B: 200V to 400V

- Shock: IEC 60068-2-27, Test Ea, Severity 50A: 100G acceleration for 6ms, half sine wave, 3 times in 3 mutually perpendicular planes.
- Vibration: IEC 60068-2-06, Test Fc: 10Hz-2000Hz, 0.75mm amplitude, 10G acceleration, 30mins per cycle, 3 times in 3 mutually perpendicular planes, test duration 2hrs.

Manufacturing Details

RoHS Terminations
RoHS Reflow Temp
Ni (1µm~9µm), Au (0.5µ~1µm)
260°C max for 30sec max

Compliance

RoHS Status (2015/863/EU)
REACh Status
MSL Rating (JDEC-STD-033):

Packaging Details

 Pack Style: Cutt Cut tape Standard Pack Quantity: 100

Alternative packing option available

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