

Part No. + Packaging: LFTVX0063701REEL

Description

 Temperature compensated voltage controlled crystal oscillator (TCVCXO)

| Model | IQXT-200-3-B |
|----------------------------|--------------|
| Model Issue number | 1 |
| Frequency Parameters | |
| Frequency | 10.0MHz |
| Frequency Tolerance @ 25°C | ±0.50ppm |

- ±0.28ppm Frequency Stability
- -20.00 to 70.00°C Operating Temperature Range
- Ageing
 - ±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, VC=1.65V and load=15pF): ±0.1ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=15pF): ±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=15pF 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=15pF | |

Frequency Adjustment

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

Output Details

±10ppm to ±15ppm

1.65V ±1.65V

- -135dBc/Hz @ 1kHz
- -145dBc/Hz @ 10kHz
- -148dBc/Hz @ 100kHz

-150dBc/Hz @ 1MHz

Sales Office Contact Details:

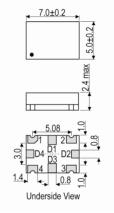
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Outline (mm)







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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: Reel | Tape & reel in accordance with EIA-481-D |
| Pack Size | 600 |
| Alternative packing option available | |

Alternative packing option available

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