

TCVCXO Specification

Part No. + Packaging: LFTVX0079050Reel

Description

- IQXT-205-2-18 is a 2.0 x 1.6mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator (VCTCXO) in a hermetically sealed package.
- Model

IQXT-205-2-18

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- Model Issue number
- Developed frequencies: 16.2, 16.368, 16.369, 19.2, 20.0, 24.0, 25.0, 26.0, 27.456, 28.925, 28.974, 30.0, 32.0, 33.6, 38.4, 48.0, 50.0 and 52.0MHz

Frequency Parameters

- 16.3690MHz Frequency
- **Frequency Tolerance Max** ±1.50ppm
- **Tolerance Condition** @ 25°C ±2°C
- Frequency Stability ±0.50ppm
- **Operating Temperature Range** -30.00 to 85.00°C
- Ageing ±1ppm max per year @ 25°C ±3°C
- Frequency Tolerance: Referred to nominal frequency before reflow soldering.
- Supply Voltage Variation: @ $\pm 5\%$ change for ± 0.5 ppm stability: ± 0.1 ppm max @ ±5% change for ±2.0ppm stability: ±0.2ppm max
- Load Variation: @ $\pm 10\%$ change for ± 0.5 ppm stability: ± 0.1 ppm max @ ±10% change for ±2.0ppm stability: ±0.2ppm max
- Short Term Stability (Allan variance): ±1ppb max (Tau = 0.1s)
- IR Reflow Resistance (ref to frequency before reflow): ±1ppm
- max

Electrical Parameters

- Supply Voltage
- Current Draw Max
- 1.8V ±5% 1.500mA
- Absolute Maximum Ratings: Supply Voltage: -0.6V to 4.6V Control Voltage: -0.6V to Vs+0.6V

Frequency Adjustment

- Pulling ±8ppm min to ±13ppm max
- Control Voltage 0.9V ±0.8V
 - Slope: Positive

Output Details

- **Output Compatibility Clipped Sine**
- Drive Capability 10kΩ//10pF
- Output: DC coupled
- Output Level: 0.8V pk-pk min
- Start Up Time (90% of V pk-pk): 2ms max
- Start Up Time (within ±0.5ppm): 2ms max

Noise Parameters

- Phase Noise (typ): -135dBc/Hz @ 1kHz
- Harmonic Distortion: -5.0dBc max

Environmental Parameters

Storage Temperature Range: -40 to 85°C

Sales Office Contact Details:

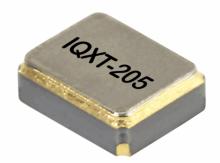
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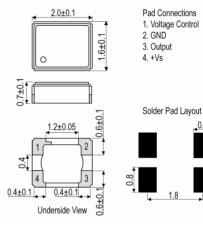
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0.6



Outline (mm)





Manufacturing Details

- RoHS Terminations
- RoHS Reflow Temp

NiAu +250°C ±10°C for 10 sec max

Compliance

- RoHS Status (2011/65/EU)
 Compliant
- REACh Status
 Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D Pack Size: 3,000
- Alternative packing option available

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