

TCVCXO Specification

Part No. + Packaging: LFTVX0073008Reel

Description

- Surface mount Voltage Controlled Temperature Compensated Crystal Oscillator (VCTCXO) in a miniature 1.6 x 1.2mm surface mount package.
- Model
- Model Issue number

IQXT-351 1

26.0MHz

Frequency Parameters

- Frequency
- **Frequency Tolerance**
 - ±1.50ppm **Tolerance Condition** @ 25°C ±2°C
- **Frequency Stability** ±0.50ppm
- **Operating Temperature Range** Ageing

-30.00 to 85.00°C ±1ppm max per year @ 25°C ±3°C

- Developed Frequencies: 26.0MHz and 52.0MHz
- Supply Voltage Variation (±5% change @ 25°C): ±0.1ppm max
- Load Variation (±10% change @ 25°C): ±0.1ppm max
- IR Reflow Resistance (referred to frequency before reflow): ±1ppm max

Electrical Parameters

- 1.8V ±5% Supply Voltage Current Draw 1.500mA
- Absolute Maximum Supply Voltage: -0.6V to 4.6V

Frequency Adjustment

Pullina

±8ppm to ±13ppm

- Control Voltage 0.9V ±0.8V
- Absolute Maximum Control Voltage: -0.6V to Vs+0.6V
- Slope: Positive

Output Details

- **Output Compatibility**
- **Clipped Sine** 10kΩ//10pF
- Drive Capability Output Voltage Level: 0.8V pk-pk min
- Output: DC coupled
- Start Up Time (Vout ≥ 90%Vpk-pk): 2ms max

Noise Parameters

- Harmonic distortion: -5.0dBc max
- Phase Noise @ 25°C: -135dBc/Hz @ 1kHz typ

Environmental Parameters

Storage Temperature Range: -40 to 85°C

Manufacturing Details

- **Reflow Process** Preheating: 170°C±10°C for1 to 2 minutes. Maximum reflow: 250°C±10°C for10secs.
- A DC-cut capacitor is not built in to the oscillator; a 1000pF DC-cut capacitor is therefore required in the output line. AuNi
- **RoHS** Terminations
- **RoHS Reflow Temp** Maximum reflow: 250°C±10°C for

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Outline (mm)

Pad Connections 1. Voltage Control 2. GND 3. Output 4. +Vs



Underside View



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Compliance

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

Packaging Details

- Pack Style: Reel Tape and reel in accordance with Pack Size: 1,000 EIA-481-D
- Alternative packing option available

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