





#### Description

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

Model IQXT-351Model Issue number 1

# Frequency Parameters

Frequency
 Frequency Tolerance
 Tolerance Condition
 Frequency Stability
 Operating Temperature Range
 52.0MHz
 ±1.50ppm
 ±0.50ppm
 -30.00 to 85.00°C

Ageing ±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**

Supply Voltage 1.8V ±5%
 Current Draw 2.000mA
 Absolute Maximum Supply Voltage: -0.6V to 4.6V

#### **Frequency Adjustment**

Pulling ±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
■ Drive Capability 10kΩ//10pF

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

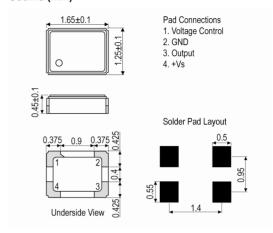
Preheating: 170°C±10°C for1 to 2 minutes. Maximum reflow: 250°C±10°C for10secs.

A DC-cut capacitor is not built in to the oscillator; a 1000pF
 DC-cut capacitor is therefore required in the output line.

RoHS Terminations AuNi

■ RoHS Reflow Temp Maximum reflow: 250°C±10°C for

#### Outline (mm)



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# **TCVCXO Specification**

Part No. + Packaging: LFTVXO073010Reel

#### Compliance

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

### **Packaging Details**

■ Pack Style: Reel Tape and reel in accordance with

Pack Size: 3,000 EIA-481-D

Alternative packing option available

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