

Customer Part:

Description

- Surface mount Temperature Compensated Crystal Oscillator (TCXO) in a miniature 1.6 x 1.2mm surface mount package.
- Model IQXT-350
- Model Issue number 3

Frequency Parameters

- Frequency 52.0MHz
- Frequency Tolerance $\pm 1.50\text{ppm}$
- Tolerance Condition @ 25°C $\pm 2^\circ\text{C}$
- Frequency Stability $\pm 0.50\text{ppm}$
- Operating Temperature Range -30.00 to 85.00°C
- Ageing $\pm 1\text{ppm}$ max per year @ 25°C $\pm 3^\circ\text{C}$
- Supply Voltage Variation ($\pm 5\%$ change @ 25°C): $\pm 0.1\text{ppm}$ max
- Load Variation ($\pm 10\%$ change @ 25°C): $\pm 0.1\text{ppm}$ max
- IR Reflow Resistance (referred to frequency before reflow): $\pm 1\text{ppm}$ max

Electrical Parameters

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

Output Details

- Output Compatibility Clipped Sine
- Drive Capability $10\text{k}\Omega//10\text{pF}$
- Output Voltage Level: 0.8V pk-pk min
- Output: DC coupled
- Start Up Time ($V_{\text{out}} \geq 90\%V_{\text{pk-pk}}$): 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

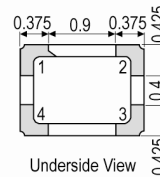
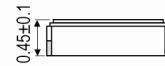
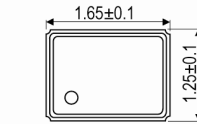
- Reflow Process
Preheating: $170^\circ\text{C} \pm 10^\circ\text{C}$ for 1 to 2 minutes.
Maximum reflow: $250^\circ\text{C} \pm 10^\circ\text{C}$ for 10secs.
- A DC-cut capacitor is not built in to the oscillator; a 1000pF DC-cut capacitor is therefore required in the output line.
- RoHS Terminations AuNi
- RoHS Reflow Temp Maximum reflow: $250^\circ\text{C} \pm 10^\circ\text{C}$ for

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

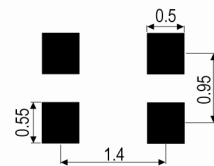


Outline (mm)



- Pad Connections**
1. GND
 2. GND
 3. Output
 4. +Vs

Solder Pad Layout



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TCXO Specification

Part No.: **LFTCXO073006**

Customer Part:

Packaging Details

- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape

Standard Pack Quantity: 5,000

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