

Part No. + Packaging: LFTCX0073006Reel

Description

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

■ Model IQXT-350

Model Issue number1

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

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 1.700mA
Absolute Maximum Supply Voltage: -0.6V to 4.6V

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.

Compliance

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

Packaging Details

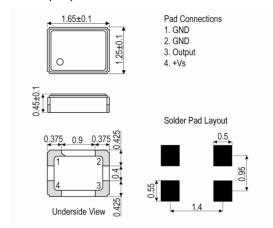
Pack Style: Reel Tape and reel in accordance with

Pack Size: 1,000 EIA-481-D

Alternative packing option available

A.

Outline (mm)



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