

TCXO Specification IQXT-350

ISSUE 1; August 2016

Description

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

Frequency Parameters

■ Frequency 19.2MHz to 52.0MHz

■ Frequency Tolerance ±1.50ppm
 ■ Tolerance Condition @ 25°C ±2°C
 ■ Frequency Stability ±0.50ppm

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%
 Absolute Maximum Supply Voltage: -0.6V to 4.6V

Operating Temperature Ranges

- -40 to 85°C
- -30 to 85°C

Output Details

■ Output Compatability
 Drive Capability
 Clipped Sine
 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.

Ordering Information

Minumum information required Frequency

Frequency^{*} Model*

Supply Voltage

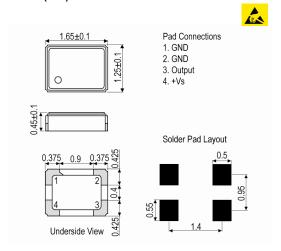
Frequency Stability*

Operating Temperature Range*

Example:

19.2MHz IQXT-350 ±0.5ppm -30 to 85C 1.8V

Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200 France: 0800 901 383 Germany: 0800 1808 443 USA: +1.760.318.2824 Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com



TCXO Specification *IQXT-350*

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: 2,000 EIA-481-D

■ Pack Style: Cutt Cut tape

Pack Size: 1

Electrical Specification - maximum limiting values 1.80V ±5%

Frequency	Temperature Range	Stability	Current Draw	Rise and Fall Time	Duty Cycle
	°C	ppm	mA	ns	%
19.2MHz	-30 to 85	±0.50	1.5	-	-
26.0MHz	-40 to 85	±0.50	1.5	-	-
38.4MHz	-30 to 85	±0.50	1.7	-	-
52.0MHz	-40 to 85	±0.50	1.7	-	-

France: 0800 901 383

USA: +1.760.318.2824

This document was correct at the time of printing; please contact your local sales office for the latest version. Click to view latest version on our website.