

TCXO Specification *IQXT-350*

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Description

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

Frequency Parameters

Frequency 26.0MHz, 52.0MHz

Frequency Tolerance ±1.50ppm
Tolerance Condition @ 25°C ±2°C

■ Frequency Stability
±0.50ppm to ±1.50ppm
■ 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%
Absolute Maximum Supply Voltage: -0.6V to 4.6V

Operating Temperature Ranges

- -30 to 85°C
- -40 to 85°C

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.

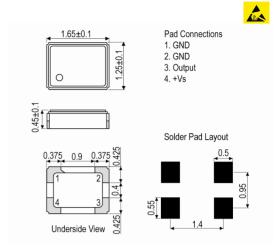
 A DC-cut capacitor is not built in to the oscillator; a 1000pF DC-cut capacitor is therefore required in the output line.

RoHS Terminations AuNi

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

for10secs.

Outline (mm)



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TCXO Specification *IQXT-350*

Ordering Information

■ *Minumum information required

Frequency*

Model*

Supply Voltage

Frequency Stability*

Operating Temperature Range*

Example:

26.0MHz IQXT-350

±0.5ppm -30 to 85C 1.8V

Compliance

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

Packaging Details

Pack Style: Cutt Cut tape

Pack Size: 100

Pack Style: Reel Tape and reel in accordance with

Pack Size: 5,000 EIA-481-D

Electrical Specification - maximum limiting values 1.80V ±5%

Frequency	Temperature Range	Stability	Current Draw	Rise and Fall Time	Duty Cycle
	°C	ppm	mA	ns	%
26.0MHz	-40 to 85	±1.50	1.5	-	-
	-30 to 85	±0.50	1.5	-	-
52.0MHz	-40 to 85	±1.50	2	-	-
	-30 to 85	±0.50	2	-	-

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