



Customer Part:

Description

 IQXT-205-2-18 is a 2.0 x 1.6mm SMD Voltage Controlled Temperature Compensated Crystal Oscillator (VCTCXO) in a hermetically sealed package.

■ Model IQXT-205-2-18

Model Issue number1

Frequency Parameters

Frequency
Frequency Tolerance Max
Tolerance Condition
Frequency Stability
Operating Temperature Range
19.20MHz
±1.50ppm
25°C ±2°C
±0.50ppm
-30.00 to 85.00°C

■ Ageing ±1ppm max per year @ 25°C

±3°C

 Frequency Tolerance: Referred to nominal frequency before reflow soldering.

Supply Voltage Variation:

@ ±5% change for ±0.5ppm stability: ±0.1ppm max @ ±5% change for ±2.0ppm stability: ±0.2ppm max

Load Variation:

@ ±10% change for ±0.5ppm stability: ±0.1ppm max @ ±10% change for ±2.0ppm stability: ±0.2ppm max

Short Term Stability (Allan variance): ±1ppb max (Tau = 0.1s)

IR Reflow Resistance (ref to frequency before reflow): ±1ppm

Electrical Parameters

Supply Voltage 1.8V ±5%Current Draw Max 1.500mA

 Absolute Maximum Ratings: Supply Voltage: -0.6V to 4.6V Control Voltage: -0.6V to Vs+0.6V

Frequency Adjustment

Pulling ±8ppm min to ±13ppm max

■ Control Voltage 0.9V ±0.8V

Slope: Positive

Output Details

Output Compatibility Clipped SineDrive Capability 10kΩ//10pF

Output: DC coupled

Output Level: 0.8V pk-pk min

Start Up Time (90% of V pk-pk): 2ms max

Start Up Time (within ±0.5ppm): 2ms max

Noise Parameters

Phase Noise (typ): -135dBc/Hz @ 1kHz

Harmonic Distortion: -5.0dBc max

Environmental Parameters

Storage Temperature Range: -40 to 85°C

Manufacturing Details

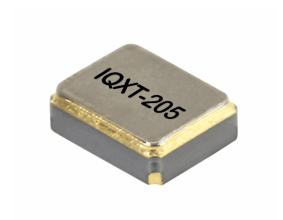
RoHS Terminations
NiAu

■ RoHS Reflow Temp +250°C ±10°C for 10 sec max

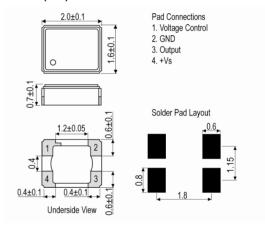
Sales Office Contact Details:

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Outline (mm)



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VCTCXO Specification

Part No. + Packaging: LFTVX0079051Reel

Customer Part:

Compliance

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

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481 Standard Pack Quantity: 3,000
- Alternative packing option available

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