





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 number 1

Developed frequencies: 16.2, 16.368, 16.369, 19.2, 20.0, 24.0, 25.0, 26.0, 27.456, 28.925, 28.974, 30.0, 32.0, 33.6, 38.4, 48.0, 50.0 and 52.0MHz

Frequency Parameters

Frequency
 Frequency Tolerance Max
 Tolerance Condition
 Frequency Stability
 Operating Temperature Range
 52.0MHz
 ±1.50ppm
 25°C ±2°C
 ±0.50ppm
 -30.00 to 85.00°C

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+3.C

±1ppm max per year @ 25°C

±3°C

 Frequency Tolerance: Referred to nominal frequency before reflow soldering.

Supply Voltage Variation:

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

Electrical Parameters

■ Supply Voltage 1.8V ±5%
■ Current Draw Max 2.000mA

 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

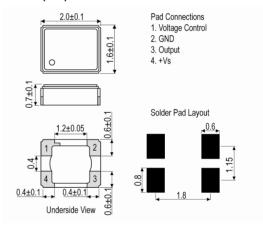
Phase Noise (typ): -135dBc/Hz @ 1kHz
 Harmonic Distortion: -5.0dBc max

Environmental Parameters

Storage Temperature Range: -40 to 85°C



Outline (mm)



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TCVCXO Specification

Part No. + Packaging: LFTVX0079055Cutt

Customer Part:

Manufacturing Details

■ RoHS Terminations NiAu

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

Compliance

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

Packaging Details

■ Pack Style: Cutt Cut tape

Pack Size: 100

Alternative packing option available

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