

Part No. + Packaging: LFTCX0077230Reel

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Description

- IQXT-225 is a 2.0 x 1.6mm SMD Temperature Compensated Crystal Oscillator (TCXO) in a hermetically sealed package with E/D on pad 1 for low power operation.
- Model IQXT-225-12
- Model Issue number
- Developed frequencies: 16.368, 16.369, 19.2, 26.0, 33.6 and 38.4MHz

Frequency Parameters

Frequency

33.60MHz

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- Frequency Tolerance Max ±1.50ppm
- Frequency Stability ±0.50ppm
- **Operating Temperature Range**
- Ageing

-30.00 to 85.00°C ±1ppm max per year @ 25°C

- ±2°C Frequency Tolerance: @ 25°C ±2°C referred to nominal frequency before reflow soldering.
- Supply Voltage Variation (@ ±5% change): ±0.1ppm max
- Load Variation (@ ±10% change): ±0.1ppm max
- Reflow Variation (at 25°C ±2°C referred to frequency before reflow): ±1ppm max, 24 hrs after reflow.

Electrical Parameters

Current Draw Max

- Supply Voltage
- 1.2V ±5% 1.700mA
- Absolute Maximum Ratings: Supply Voltage: -0.6V to 4.6V E/D Control Voltage: -0.6V to Vs+0.6V (4.6V max)

Output Details

- Output Compatibility . Drive Capability
- **Clipped Sine** 10kΩ//10pF ±10%
- Output: DC coupled Note: a 1000pF DC-cut capacitor is to be connected in the output line of the TCXO.
- Output Level: 0.8V pk-pk min
- Start Up Time: Vout ≥90% of V pk-pk: 2ms max
- Start Up Time (within ±0.5ppm): 2ms max

Output Control

Enable/Disable (pad 1):

Logic '1' (80%Vs min) or no connection to pad 1 enables the oscillator output.

Logic '0' (20%Vs max) to pad 1 disables the oscillator output, the output goes to a high impedance state. Disable current in E/D mode: 3µA max

Noise Parameters

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

Manufacturing Details

RoHS Terminations

Environmental Parameters

- **RoHS Reflow Temp**
- NiAu +250°C ±10°C for 10 sec max

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Compliance

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

Packaging Details

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

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