IQD Frequency Products

Incorporating IQD FOQ GmbH

VCXO Specification

Part No. + Packaging: ***LFVCXO056310REEL***

Description

- LVPECL output Voltage Controlled Crystal Oscillator
  Ceramic package with a hermetically sealed metal lid
- Model IQXV-32
- Model Issue number 1

Frequency Parameters

- Frequency 122.880MHz
- Frequency Tolerance @ 25°C INCLUSIVE
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing: ±3ppm max per year

Electrical Parameters

- Supply Voltage 3.3V
- Supply Voltage Tolerance ±5%
- Current Draw 100.00mA max

Frequency Adjustment

- Pulling ±100ppm min
- Control Voltage Details 1.65V ±1.35V
- Input Impedance (pin1) >2MΩ
- Linearity: ±10% max

Output Details

- Output Compatability LVPECL
- Output Load 50Ω in VS-2.0V
- Rise and Fall time (10% - 90%) 1ns max
- Duty Cycle 45/55% max
- VoH: VS-1.025V max
  VoL: VS-1.620V max

Output Control

- Tri-State Function (pin2):
  Enable: >70% VS or no connection
  Disable: <30% VS
- Start Up Time: 10ms max

Noise Parameters

- Phase Jitter (12kHz to 20MHz): 4ps max

Environmental Parameters

- Shock: MIL-STD-202, Method 213
- Vibration: MIL-STD-883, Method 2007
- Storage Temperature Range: -55 to 125°C

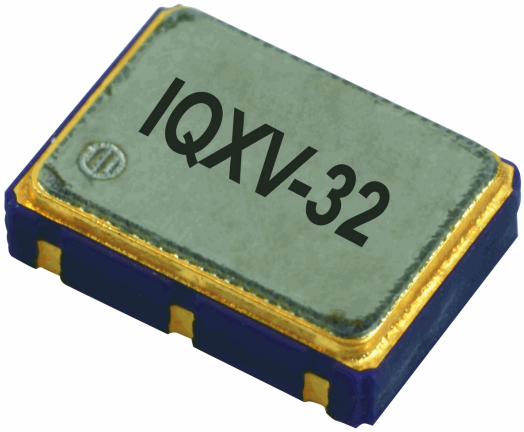
Compliance

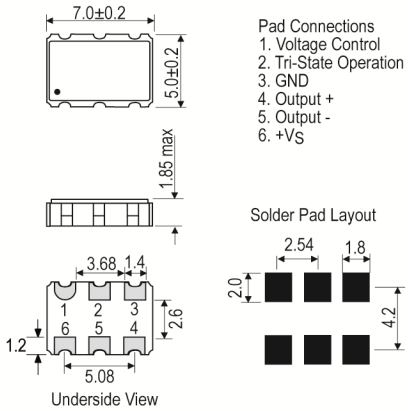
- RoHS Status Compliant
- REACh Status Compliant

Packaging

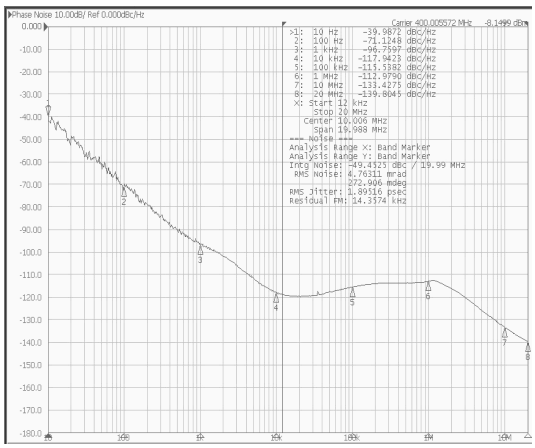
- Pack Type: Reel Tape and Reel in accordance with EIA-481D
  Pack Size 1,000
- Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.





Typical Phase Noise Plot



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