

Part No. + Packaging: **LFVCX0056310BULK**

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 $\pm 100\text{ppm min}$
- Control Voltage Details $1.65\text{V} \pm 1.35\text{V}$
- Input Impedance (pin1) $>2\text{M}\Omega$
- Linearity: $\pm 10\%$ max

Output Details

- | | |
|--|----------------|
| ■ Output Compatibility | 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

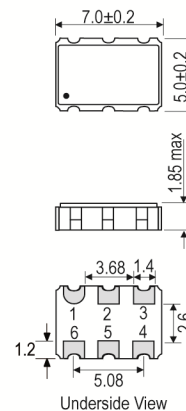
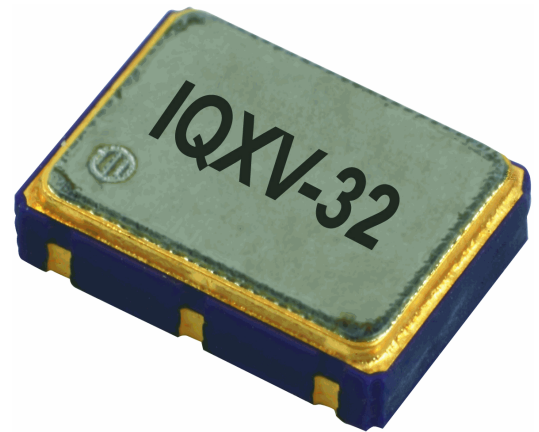
Compliance

- | | |
|----------------|-----------|
| ■ RoHS Status | Compliant |
| ■ REACH Status | Compliant |

Packaging

- Pack Type: Bulk Loose in bulk pack
Pack Size 1
- Alternative packing option available

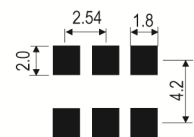
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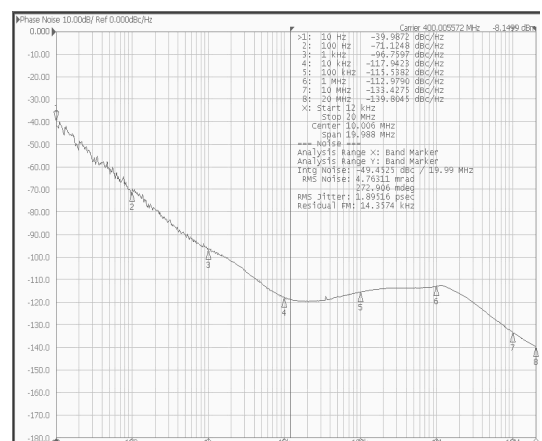
Pad Connections

1. Voltage Control
2. Tri-State Operation
3. GND
4. Output +
5. Output -
6. +V_S

Solder Pad Layout



Typical Phase Noise Plot

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