



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 155.520MHz
- Frequency Tolerance @ 25°C INCLUSIVE
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing: $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage 3.3V
- Supply Voltage Tolerance $\pm 5\%$
- 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

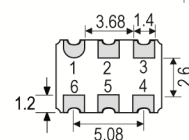
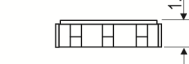
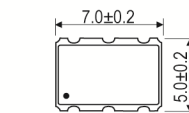
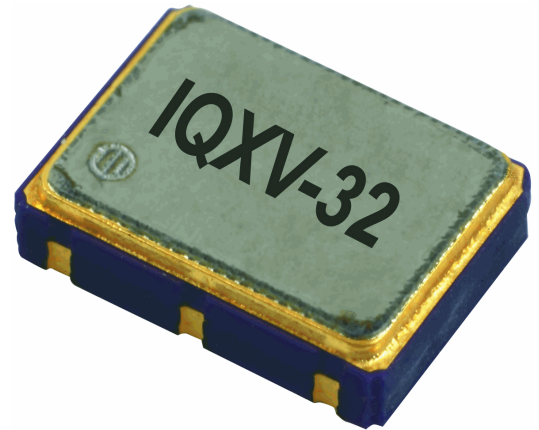
Compliance

- RoHS Status Compliant
- REACH Status Compliant

Packaging

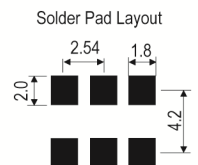
- Pack Type: Reel Tape and Reel in accordance with EIA-481D
- Pack Size 1,000
- Alternative packing option available

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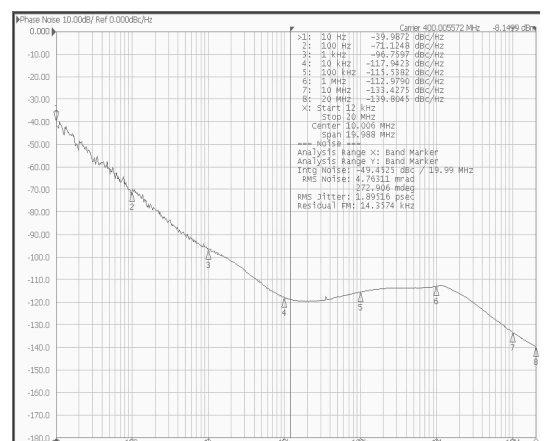
Underside View

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



Solder Pad Layout

Typical Phase Noise Plot



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