


Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXV-51
- Model Issue number 2

Frequency Parameters

- Frequency 31.250MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing Ageing $\pm 3\text{ppm max (@ } 25^\circ\text{C)}$

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 15.000mA

Frequency Adjustment

- Pulling $\pm 100\text{ppm min}$
- Control Voltage $1.65\text{V} \pm 1.35\text{V}$
- Input Impedance $100\text{k}\Omega \text{ min}$
- Linearity: $\pm 10\%$ max

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 8.0ns max
- Duty Cycle $45/55\%$
- VoH: $>90\%$ of Vs
- VoL: $<10\%$ of Vs
- Start Up Time: 10ms max

Output Control

- Standby Operation:
Logic '1' ($>70\%$ Vs) to pad 2 enables oscillator output
Logic '0' ($<30\%$ Vs) to pad 2 disables oscillator output: when disabled the oscillator output goes to the high impedance state
No connection pad 2 enables oscillator output

Noise Parameters

- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

Environmental Parameters

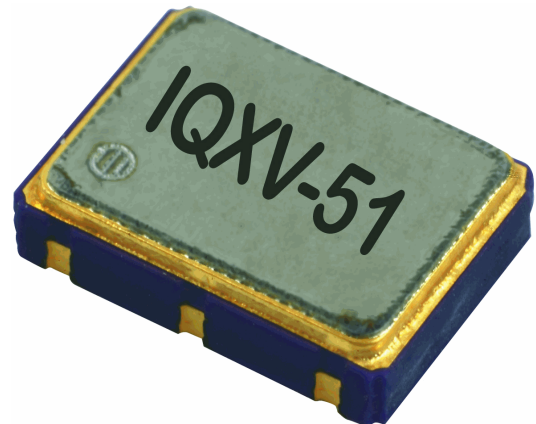
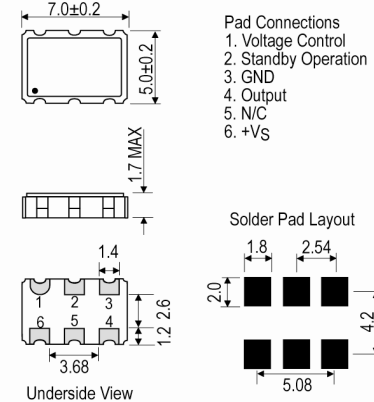
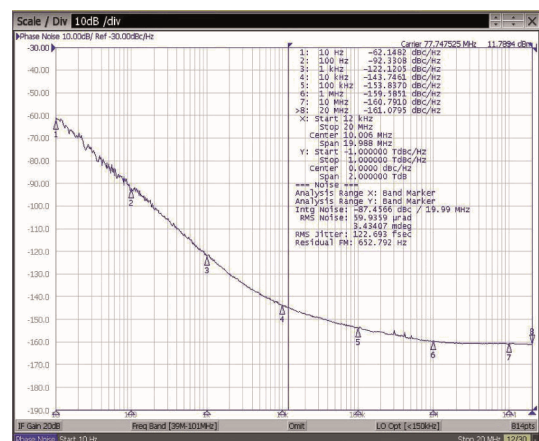
- Storage Temperature Range: -55 to 125°C
- Drop: $1.2\text{m drop (3 times)}$ onto a hard surface
- Vibration: $1.5\text{mm amplitude, } 10\text{-}55\text{-}10\text{Hz, full sine wave, } 2\text{mins in 3 mutually perpendicular planes, duration 2hrs in each plane}$

Compliance

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

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: $1,000$


Outline (mm)

Typical Phase Noise Plot @ 77.76MHz

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- *Alternative packing option available*

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