



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 | 10.230MHz |
| ■ Frequency Stability | ±25.00ppm |
| ■ Operating Temperature Range | 0.00 to 70.00°C |
| ■ Ageing | Ageing ±3ppm max (@ 25°C) |

Electrical Parameters

- Supply Voltage 3.3V $\pm$ 5%
- Current Draw 10.000mA

Frequency Adjustment

- Pulling ±100ppm min
- Control Voltage 1.65V ±1.35V
- Input Impedance 100kΩ min
- Linearity: ±10% max

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 10.0ns 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

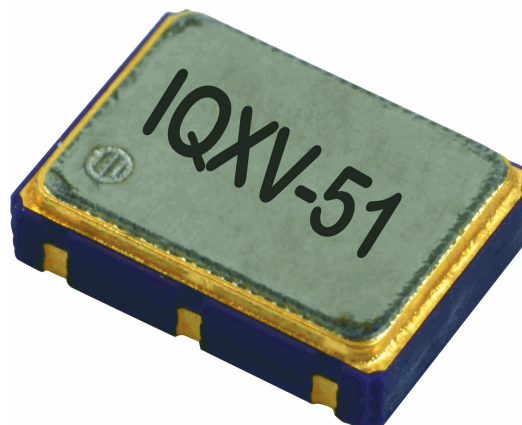
- Storage Temperature Range: -55 to 125°C
- Drop: 1.2m drop (3 times) onto a hard surface
- Vibration: 1.5mm amplitude, 10-55-10Hz, full sine wave, 2mins in 3 mutually perpendicular planes, duration 2hrs in each plane

Compliance

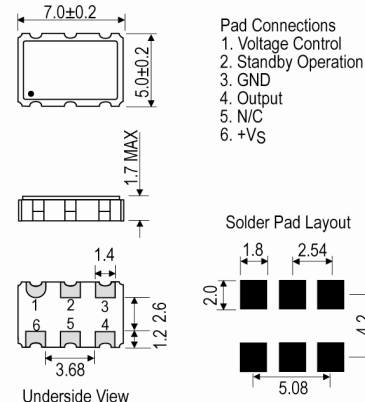
- | | |
|------------------------------|----------------|
| ■ RoHS Status (2011/65/EU) | Compliant |
| ■ REACH Status | Compliant |
| ■ MSL Rating (JDEC-STD-033): | Not Applicable |

Packaging Details

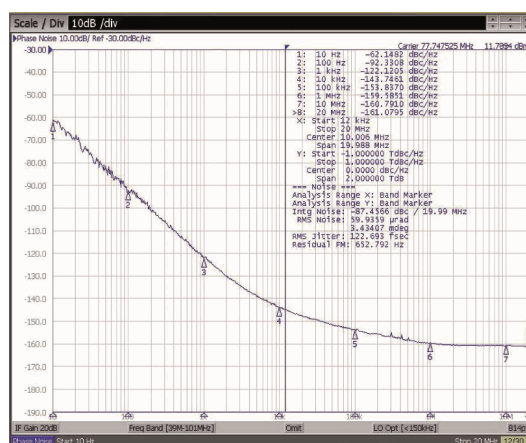
- Pack Style: Bulk Loose in bulk pack
- Pack Size: 1



Outline (mm)



Typical Phase Noise Plot @ 77.76MHz

**Sales Office Contact Details:**

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- *Alternative packing option available*

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