VCXO Specification

Part No. + Packaging: ***LFVCXO058507Bulk***

Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXV-50
- Model Issue number 1

Frequency Parameters

- Frequency 40.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range 0.00 to 70.00°C
- Ageing (@ 25°C): ±3ppm max

Electrical Parameters

- Supply Voltage 5.0V ±5%
- Current Draw 20.00mA

Frequency Adjustment

- Pulling ±100ppm min
- Control Voltage 2.5V ±2.0V
- Input Impedence 100kΩ min
- Linearity: ±10% max

Output Details

- Output Compatability HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 8.0ns max
- Duty Cycle 45/55%
- 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

Output Levels

- VoH: >90% of Vs
  VoL: <10% of Vs

Noise Parameters

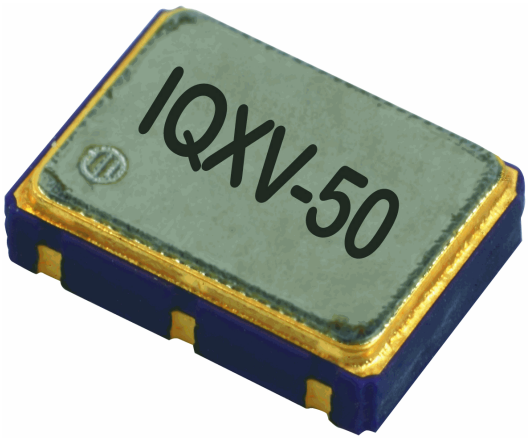
- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

Environmental Parameters

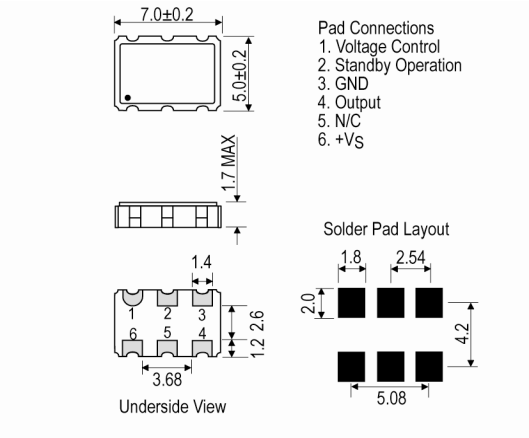
- Storage Temperature Range: -55 to 125°C
- Vibration: 1.5mm amplitude, 10-55-10Hz, full sine wave, 2mins in 3 mutually perpendicular planes, duration 2hrs in each plane
- Drop: 1.2m drop (3 times) onto a hard surface

Compliance

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



Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200
France: 0800 901 383
Email: info@iqdfrequencyproducts.com
Germany: 0800 1808 443
USA: +1.760.318.2824
Web: www.iqdfrequencyproducts.com

Packaging Details

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

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443
France: 0800 901 383
USA: +1.760.318.2824
Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com