



Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXV-56
- Model Issue number 1

Frequency Parameters

- Frequency 28.3750MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing (@ 25°C): $\pm 3\text{ppm}$ max

Electrical Parameters

- Supply Voltage 3.3V $\pm$ 5%
- Current Draw 15.00mA

Frequency Adjustment

- Pulling ±150ppm min
- Control Voltage 1.65V ±1.65V
- Input Impedence 100kΩ min
- Linearity: ±10% max

Output Details

- Output Compatability
- Drive Capability
- Rise and Fall Time
- Duty Cycle
- 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

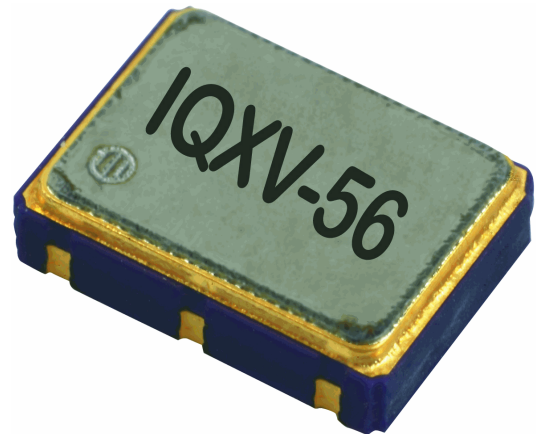
- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

Environmental Parameters

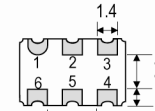
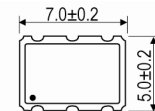
- Storage Temperature Range: -55 to 125°C
- Drop: 1.2m drop (3 times) onto a hard surface
- Vibration: 1.5mm amplitude, 10-55-10Hz, full sine wave, 2mins in 3 mutually perpendicular planes, duration 2hrs in each plane

Compliance

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



Outline (mm)

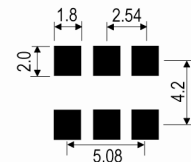


Underside View

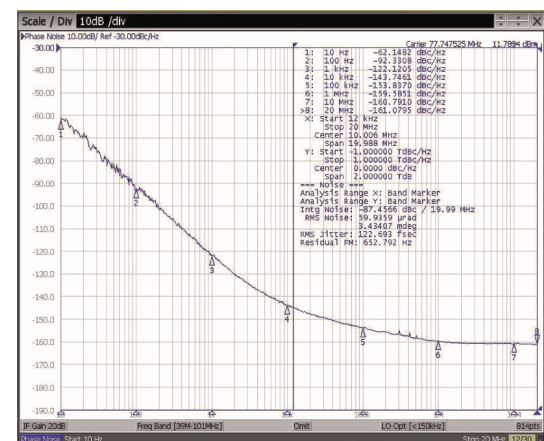
Pad Connections

1. Voltage Control
2. Standby Operation
3. GND
4. Output
5. N/C
6. +V_S

Solder Pad Layout



Typical Phase Noise Plot @ 77.76MHz

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Packaging Details

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

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