


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 40.960MHz
- 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 5.0V $\pm 5\%$
- Current Draw 30.00mA

Frequency Adjustment

- Pulling $\pm 100\text{ppm min}$
- Control Voltage 2.5V $\pm 2.0\text{V}$
- Input Impedance 100k Ω min
- Linearity: $\pm 10\%$ max

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns 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)


Underside View

- Pad Connections
1. Voltage Control
 2. Standby Operation
 3. GND
 4. Output
 5. N/C
 6. +Vs

Solder Pad Layout

Sales Office Contact Details:

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Packaging Details

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

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