

ISSUE 1; July 2016

Description

- Voltage controlled crystal oscillator in a ceramic package with a hermetically sealed metal lid



Frequency Parameters

- Frequency: 4.0MHz to 54.0MHz
- Frequency Stability: $\pm 20.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Ageing (@ 25°C): $\pm 3\text{ppm}$ max

Electrical Parameters

- Supply Voltage: 2.5V $\pm 5\%$

Frequency Adjustment

- Pulling: $\pm 50\text{ppm}$ min
- Control Voltage: 1.25V $\pm 1.25\text{V}$
- Input Impedence: 5M Ω min
- Linearity: 10% max

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

- Output Compatability: HCMOS
- Drive Capability: 15pF max
- Start Up Time: 10ms max

Output Levels

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

Noise Parameters

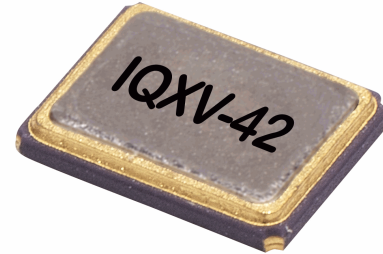
- Period Jitter (pk-pk): 100ps max
- Period Jitter (one sigma): 25ps max

Environmental Parameters

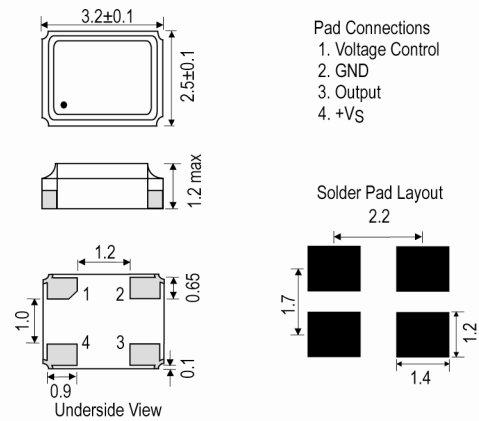
- Storage Temperature Range: -55 to 125°C
- Drop: 1.2m drop (3 times) onto a hard surface
- Vibration: 1.5mm amplitude, 10-55-10Hz, full sine wave, 2mins in 3 mutually perpendicular planes, duration 2hrs in each plane

Ordering Information

- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Pullability
- (*minimum required)
- Example
- 10.0MHz IQXO-42
- HCMOS $\pm 50\text{ppm}$ -40 to 85C 2.5V $\pm 50\text{ppm}$ min



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

Compliance

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

Packaging Details

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

Electrical Specification - maximum limiting values 2.5V \pm 5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
4.0MHz	54.0MHz	0 to 70	\pm 20.0	7	10	45/55%
		-40 to 85	\pm 50.0	7	10	45/55%

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