

ISSUE 1; August 2016

Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with TS16949 release.

Frequency Parameters

- Frequency 20.0MHz to 50.0MHz
- Frequency Tolerance $\pm 10.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 20.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 5\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Load Capacitance (CL) 8.0pF to 30.0pF
- Shunt Capacitance (C0) 3pF max
- Drive Level 100µW max
- Note: Non-standard Load Capacitances and Drive Levels are available - please contact an IQD Sales Office.

Operating Temperature Ranges

- -40 to 85°C
- -40 to 125°C

Environmental Parameters

- Storage Temperature Range: -55 to 150°C
- Qualified to AEC-Q200

Ordering Information

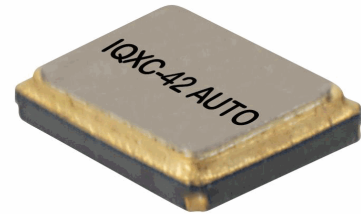
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- (*minimum required)
- Example
- 20.0MHz IQXC-42 AUTO
- 50/100/-40 to 85C/16 FUND

Compliance

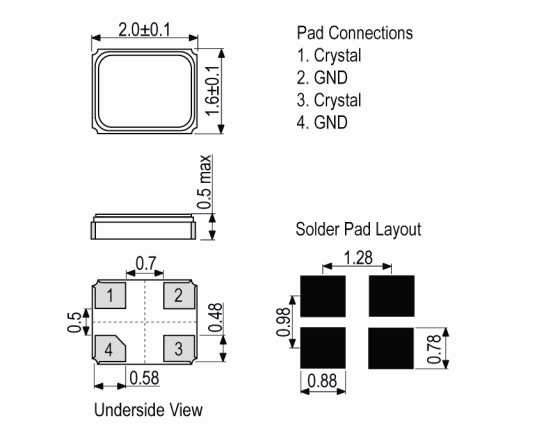
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Cutt In tape, cut from a reel
- Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: 1,000



Outline (mm)



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability* (Min)	Over Tone Order	ESR
		°C	ppm		Ω
20.0MHz	23.999999MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	120
24.0MHz	29.999999MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	100
30.0MHz	37.999999MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	80
38.0MHz	50.0MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	60

*Stability Maximum values ±100ppm

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