

ISSUE 1; April 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  $\pm 100.00\text{ppm}$  @ 25°C
- 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**

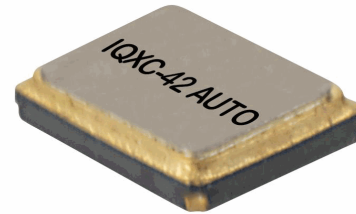
- Frequency\*
- Model\*
- Frequency Tolerance (@ 25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone
- (\*minimum required)
- Example  
20.0MHz IQXC-42 AUTO  
50/100/-40 to 85C/16 FUND

**Compliance**

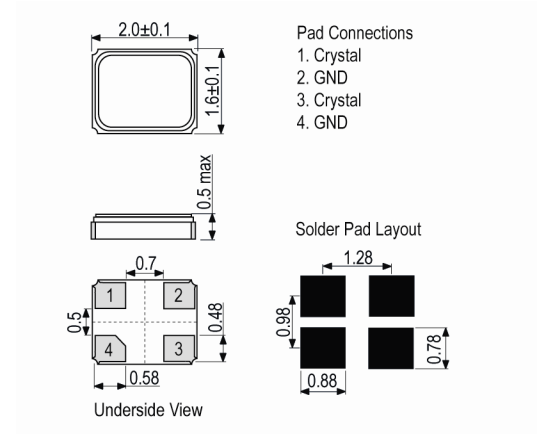
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**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
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100



**Outline (mm)**



**Sales Office Contact Details:**

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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

*This document was correct at the time of printing; please contact your local sales office for the latest version.*  
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