

ISSUE 1; August 2016

**Description**

- Standard 2 x 1.6mm SMD crystal.  
Ceramic package with a seam sealed metal lid, hermetically sealed.

**Frequency Parameters**

- Frequency 20.0MHz to 50.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Frequency Stability  $\pm 10.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing  $\pm 3\text{ppm}$  max per year @ 25°C
- Note 2: For other frequency / specification combinations, please contact our sales offices

**Electrical Parameters**

- Load Capacitance (CL) 8.0pF to 30.0pF
- Shunt Capacitance (C0) 3pF max
- Drive Level 100µW max
- Note 1: ESR values for reference only. The final spec shall be confirmed for each frequency after sample production

**Operating Temperature Ranges**

- 0 to 50°C
- 10 to 60°C
- 20 to 70°C
- 10 to 70°C
- 40 to 85°C

**Environmental Parameters**

- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: -55 to 125°C

**Ordering Information**

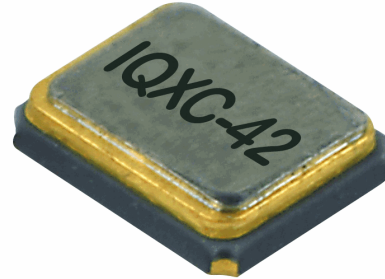
- Frequency\*
- Model\*
- Frequency Tolerance (@25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone
- Example:  
30.0MHz IQXC-42  
30/50/-40 to 85C/16 FUND

**Compliance**

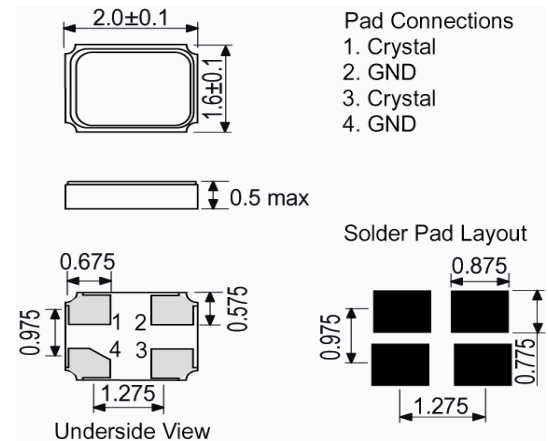
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**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	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±15 ±15 ±20	Fundamental	120
24.0MHz	29.999999MHz	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±15 ±15 ±20	Fundamental	100
30.0MHz	37.999999MHz	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±15 ±15 ±20	Fundamental	80
38.0MHz	50.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±15 ±15 ±20	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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