



ISSUE 1; July 2013 - RoHS 2011/65/EU

Description

- Standard 2 x 1.6mm SMD crystal.
Ceramic package with a seam sealed metal lid, hermetically sealed.
Please see our CFPX-188 for a low profile 2 x 1.6mm crystal.

Frequency Range

- Frequency: 20.0 to 50.0MHz
- Frequency Stability: $\pm 10.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Frequency Tolerance: $\pm 10\text{ppm}$ to $\pm 100\text{ppm}$

General Specification

- Load Capacitance (CL): 8.0pF to 30.0pF or Series
- Drive Level: 100 μ W max
- Ageing: $\pm 3\text{ppm}$ max per year @ 25°C
- Shunt Capacitance (C0): 3pF max

Operating Temperature Ranges

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

Frequency Parameters

- Note 2: For other frequency / specification combinations, please contact our sales offices

Electrical Parameters

- Note 1: ESR values for reference only. The final spec shall be confirmed for each frequency after sample production

Environmental Parameters

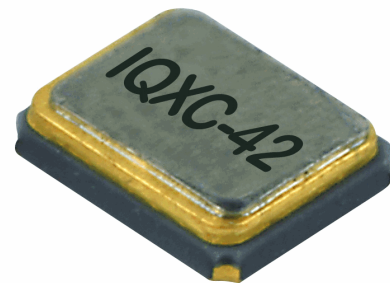
- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: -55 to 125°C

Ordering Information

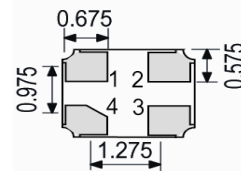
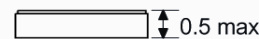
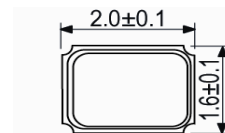
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- Example:
30.0MHz IQXC-42
30/50/-40 to 85C/16 FUND

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
Pack Size: 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
Pack Size: 1,000
- Alternative packing options available



Outline (mm)

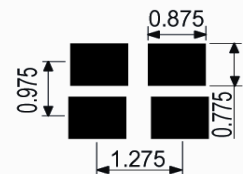


Underside View

Pad Connections

- Crystal
- GND
- Crystal
- GND

Solder Pad Layout



Sales Office Contact Details:

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Electrical Specification - maximum limiting values

Frequency Range (Note 2)	Frequency Tolerance	Stability		Temperature Range	ESR max (Note 1)	Vibration Mode
		Min	Max			
20.0 to <24.0MHz	±10ppm to ±100ppm	±10ppm ±15ppm ±20ppm ±30ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -40 to 85°C	120Ω	Fundamental
24.0 to <30.0MHz	±10ppm to ±100ppm	±10ppm ±15ppm ±20ppm ±30ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -40 to 85°C	100Ω	Fundamental
30.0 to <38.0MHz	±10ppm to ±100ppm	±10ppm ±15ppm ±20ppm ±30ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -40 to 85°C	80Ω	Fundamental
38.0 to <50.0MHz	±10ppm to ±100ppm	±10ppm ±15ppm ±20ppm ±30ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -40 to 85°C	60Ω	Fundamental

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

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