

ISSUE 2; March 2016

**Description**

- 5 x 3.2mm SMD crystal.  
Available in a 2 or 4 pad package.  
Ceramic package with a seam sealed metal lid, hermetically sealed.  
Suitable for Industrial applications qualified to AEC-Q200.  
Please see our CFPX-104 for standard stock alternative.
- -A 2 pad
- 2 Pad version
- -B 4 pad
- 4 Pad version

**Frequency Parameters**

- Frequency 12.0MHz to 32.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$  to  $\pm 50.00\text{ppm}$
- Frequency Stability  $\pm 15.00\text{ppm}$  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) 7pF max
- Drive Level 50µW standard

**Operating Temperature Ranges**

- -40 to 85°C
- -20 to 125°C

**Environmental Parameters**

- Storage Temperature Range: -40 to 150°C
- Qualified to AEC-Q200

**Ordering Information**

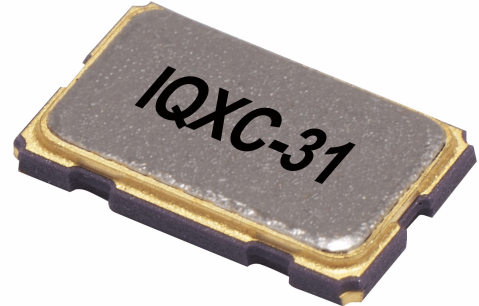
- Frequency\*
- Model\*
- Variant\*
- Frequency Tolerance (@25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone
- (\*minimum required)
- Example  
20.0MHz IQXC-31-B  
30/50/-40 to 85C/8 FUND

**Compliance**

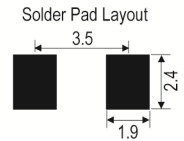
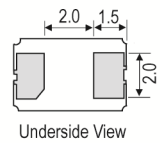
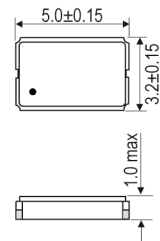
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JEDEC-STD-033): Not Applicable

**Packaging Details**

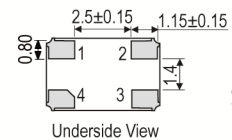
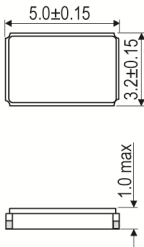
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000



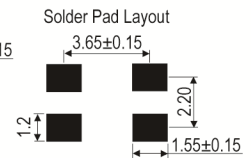
**Outline (mm) -A = 2 pad**



**Outline (mm) -B = 4 pad**



- Pad Connections
1. Crystal
  2. GND & Lid
  3. Crystal
  4. GND & Lid



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

**Electrical Specification - maximum limiting values**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
12.0MHz	19.999999MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	150
20.0MHz	32.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	100

\*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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