

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

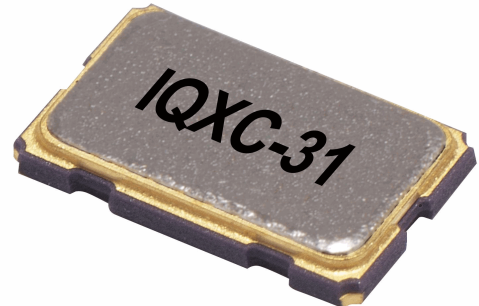
- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- (*minimum required)
- Example
20.0MHz IQXC-31-B
30/50/-40 to 85C/8 FUND

Compliance

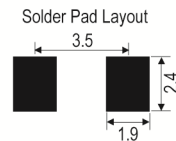
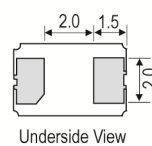
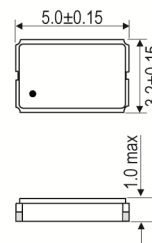
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

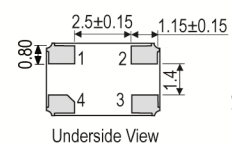
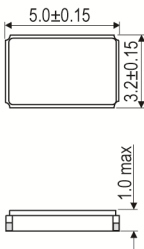
- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000



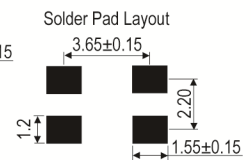
Outline (mm) -A = 2 pad



Outline (mm) -B = 4 pad



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



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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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