



ISSUE 7; October 2012 - RoHS 2011/65/EU

Description

- Standard 3.2 x 2.5mm SMD crystal
- Ceramic package with a seam sealed metal lid, hermetically sealed.

Frequency Range

- | | |
|-----------------------|------------------|
| ■ Frequency | 12.0 to 67.0MHz |
| ■ Frequency Stability | ±10.00ppm |
| ■ Frequency Tolerance | ±10ppm to ±50ppm |

General Specification

- | | |
|--------------------------|----------------------------|
| ■ Load Capacitance (CL) | 10.0pF to 75.0pF or Series |
| ■ Drive Level | 100µW max |
| ■ Ageing | ±5ppm max per year @ 25°C |
| ■ Shunt Capacitance (C0) | 7pF max |

Operating Temperature Ranges

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

Environmental Parameters

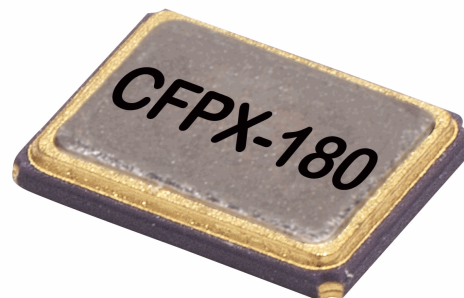
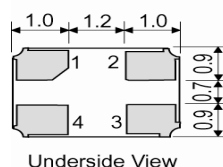
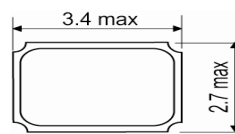
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information

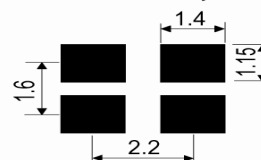
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- Example
- 20.0MHz CFPX-180
- 50/50/-40 to 85C/16 FUND

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)**

Pad Connections
1. Crystal
2. GND
3. Crystal
4. GND

Solder Pad Layout**Sales Office Contact Details:**

UK: +44 (0)1460 270200
Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18
USA: +1 (0)408.273.4530

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

**Electrical Specification - maximum limiting values**

Frequency Range	Frequency Tolerance	Stability		Temperature Range	ESR Max	Vibration Mode
		Min	Max			
12.0 to <13.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	250Ω	Fundamental
13.0 to <16.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	150Ω	Fundamental
16.0 to <30.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	100Ω	Fundamental
30.0 to <67.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-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

Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: +49 (0)7264 9145-0

France: +33 (0)5 34 50 91 18
USA: +1 (0)408.273.4530

Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com