



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:  $\pm 10.00\text{ppm}$
- Frequency Tolerance:  $\pm 10\text{ppm}$  to  $\pm 50\text{ppm}$

### General Specification

- Load Capacitance (CL): 10.0pF to 75.0pF or Series
- Drive Level: 100 $\mu$ W max
- Ageing:  $\pm 5\text{ppm}$  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

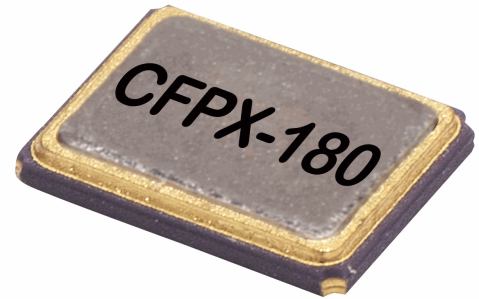
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

### Ordering Information

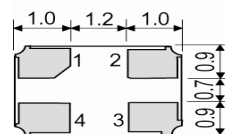
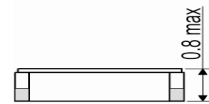
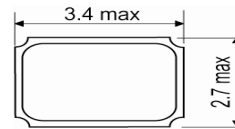
- Frequency\*
- Model\*
- Frequency Tolerance (@25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone
- Example  
20.0MHz CFPX-180  
50/50/-40 to 85C/16 FUND

### 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)

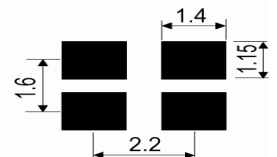


Underside View

### Pad Connections

- Crystal
- GND
- Crystal
- GND

### Solder Pad Layout



### Sales Office Contact Details:

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**Electrical Specification - maximum limiting values**

Frequency Range	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*

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