



ISSUE 7; April 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 12.0000 to 67.0Mhz
- 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 μ 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

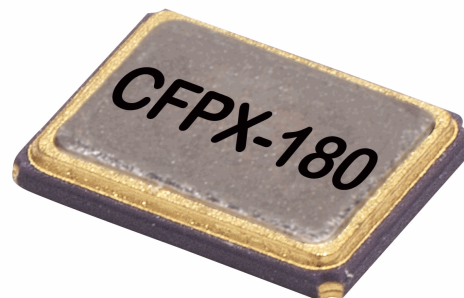
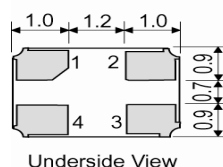
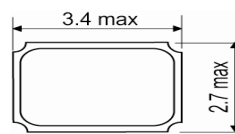
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Storage Temperature Range: -55 to 125°C
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information

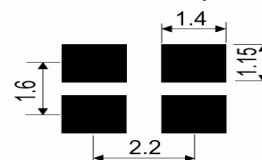
- Example
20.0MHz CFPX-180
50/50/-40 to 85C/16 FUND
- Frequency*
Model*
Frequency Tolerance (@25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone

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:**

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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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