



ISSUE 4; April 2012 - RoHS 2011/65/EU

Description

- Standard 2.5 x 2mm SMD crystal in a hermetically sealed ceramic package with a seam sealed metal lid
Please see our CFPX-181 for a low ageing version

Frequency Range

- | | |
|---------------------|--------------------|
| Frequency | 16.0000 to 50.0Mhz |
| Frequency Tolerance | ±10ppm to ±50ppm |

General Specification

- | | |
|------------------------|----------------------------|
| Load Capacitance (CL) | 10.0pF to 30.0pF or Series |
| Drive Level | 100µW max |
| Ageing | ±3ppm max per year at 25°C |
| Shunt Capacitance (C0) | 5pF max |

Operating Temperature Ranges

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

Environmental Parameters

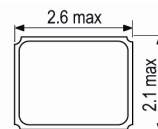
- Drop: 100cm drop (3 times) onto hard wooden board
- Storage Temperature Range: -55 to 125°C
- Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz-2000Hz), 1.52mm amplitude, 20mins in 3 mutually perpendicular planes (total 4hrs)

Ordering Information

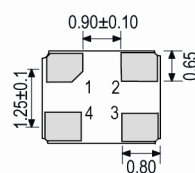
- Example
20.0MHz CFPX-218
20/20/-40 to 85C/16 FUND
- Frequency*
Model*
Frequency Tolerance (@ 25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone
(*minimum required)

Packing Details

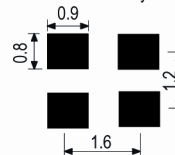
- | | |
|-------------------------|--|
| Pack Style: Bulk | Loose in bulk pack |
| Pack Size | 100 |
| Pack Style: Reel | Tape and reel in accordance with EIA-481-D |
| Pack Size | 1,000 |
- Alternative packing options available

**Outline (mm)****Pad Connections**

1. Crystal
2. GND
3. Crystal
4. GND



Underside View

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

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**Electrical Specification - maximum limiting values**

Frequency Range	Frequency Tolerance @ 25°C	Stability		Temperature Range	ESR Max	Vibration Mode
		Min	Max			
16.0 to <30.0MHz	±10ppm to ±50ppm	±15ppm ±15ppm ±20ppm	±100ppm	-10 to 60°C -20 to 70°C -40 to 85°C	100Ω	Fundamental
30.0 to <50.0MHz	±10ppm to ±50ppm	±15ppm ±15ppm ±20ppm	±100ppm	-10 to 60°C -20 to 70°C -40 to 85°C	70Ω	Fundamental

This document was correct at the time of printing; please contact your local sales office for the latest version

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