



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 $\pm 10\text{ppm}$ to $\pm 50\text{ppm}$

General Specification

- Load Capacitance (CL) 10.0pF to 30.0pF or Series
- Drive Level 100 μW max
- Ageing $\pm 3\text{ppm}$ 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

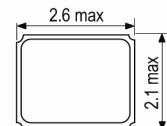
Environmental Parameters

- 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

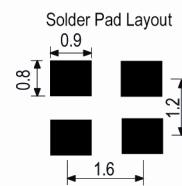
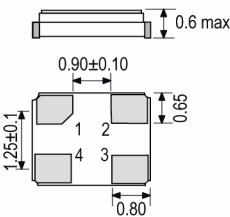
- Example 20.0MHz CFPX-218
- 20/20/-40 to 85C/16 FUND
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- (*minimum required)

Outline (mm)



Pad Connections

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



Underside View

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

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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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