



ISSUE 4; October 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: 16.0 to 50.0MHz
- Frequency Stability: $\pm 15.00\text{ppm}$
- 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 μ W 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

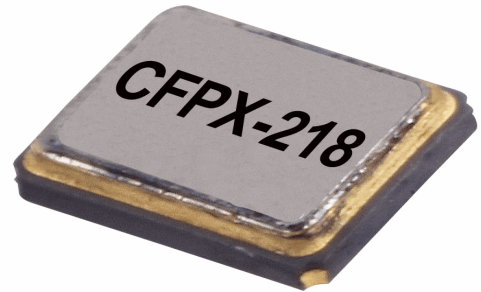
- Storage Temperature Range: -55 to 125°C
- Drop: 100cm drop (3 times) onto hard wooden board
- Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz-2000Hz), 1.52mm amplitude, 20mins in 3 mutually perpendicular planes (total 4hrs)

Ordering Information

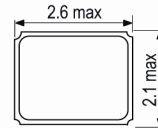
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone (*minimum required)
- Example
20.0MHz CFPX-218
20/20/-40 to 85C/16 FUND

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

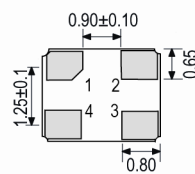


Outline (mm)

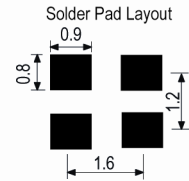


Pad Connections

- Crystal
- GND
- Crystal
- GND



Underside View



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			
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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