



ISSUE 7; July 2012 - RoHS 2011/65/EU

Description

- 2.5 x 2mm SMD crystal
- Ceramic package with a seam sealed metal lid, hermetically sealed
- Offers lower ageing than the standard CFPX-218 package
- Please see our CFPX-218 for standard 2.5 x 2mm crystal

Frequency Range

- Frequency: 16.0 to 50.0MHz
- 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 30.0pF or Series
- Drive Level: 100 μ W max
- Ageing: $\pm 1\text{ppm}$ max per year @ 25°C
- Shunt Capacitance (C0): 5pF max

Operating Temperature Ranges

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

Environmental Parameters

- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane
- Storage Temperature Range: -40 to 90°C

Ordering Information

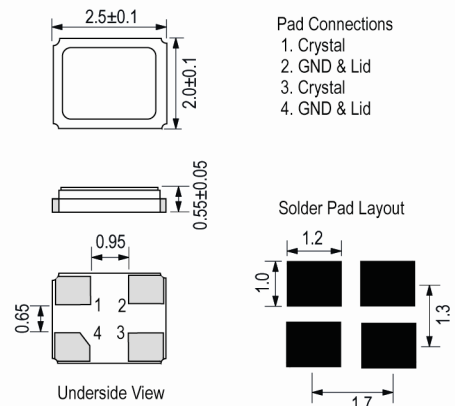
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone
- (*minimum required)
- Example
- 20.0MHz CFPX-181
- 50/50/-10 to 60C/10 FUND

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)



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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 <20.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±25ppm	±100ppm	-10 to 60°C -30 to 85°C -40 to 85°C	100Ω	Fundamental
20.0 to <30.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±25ppm	±100ppm	-10 to 60°C -30 to 85°C -40 to 85°C	80Ω	Fundamental
30.0 to <40.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±25ppm	±100ppm	-10 to 60°C -30 to 85°C -40 to 85°C	60Ω	Fundamental
40.0 to <50.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±25ppm	±100ppm	-10 to 60°C -30 to 85°C -40 to 85°C	50Ω	Fundamental

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

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