

CFPX-201 CRYSTALS

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Description

- Standard 4 x 2.5mm SMD crystal
- Ceramic package with a seam sealed metal lid, hermetically sealed
- Often used in Bluetooth, ZigBee and similar RF applications

General Specifications

- Load Capacitance (C_L): 9pF standard
- Drive Level: 100 μ W max
- Ageing: ± 1 ppm max per year at 25°C
- Shunt Capacitance (C_0): 5pF max

Standard Frequency Tolerance and Stability Ranges

- ± 10 ppm to ± 50 ppm

Operating Temperature Range

- 10 to 60°C

Storage Temperature Range

- 40 to 90°C

Environmental

- 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

Packaging

- Loose in bulk pack, 100pcs per bag
- Tape and reel in accordance with EIA-481-D, 1kpcs per reel (please see pages 372 & 373)

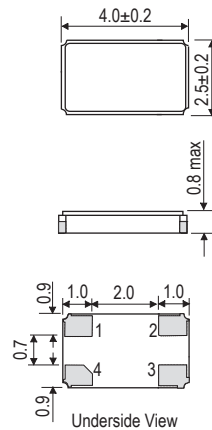
Ordering Information (*minimum required)

- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*

Example

- 20.0MHz CFPX-201
50/50/-10 to 60C/10 FUND

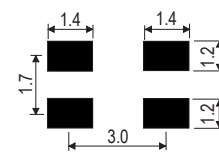
Outline (mm)



Pad Connections

- Crystal
- GND & Lid
- Crystal
- GND & Lid

Solder Pad Layout





Electrical Specifications – maximum limiting values

Frequency Range	Frequency Tolerance @25°C ±2°C	Operating Temperature Range	Frequency Stability Available Over Operating Temperature Range		ESR Max	Vibration Mode
			Minimum	Maximum		
12.0 to <13.0MHz	±10ppm to ±50ppm	-10 to 60°C	±10ppm	±50ppm	100Ω	Fundamental AT cut
		-20 to 70°C	±15ppm			
		-40 to 85°C	±20ppm			
13.0 to <19.0MHz		-10 to 60°C	±10ppm		80Ω	
		-20 to 70°C	±15ppm			
		-40 to 85°C	±20ppm			
19.0 to <40.0MHz		-10 to 60°C	±10ppm		60Ω	
		-20 to 70°C	±15ppm			
		-40 to 85°C	±20ppm			
40.0 to 50.0MHz	-10 to 60°C	±10ppm	50Ω			
	-20 to 70°C	±15ppm				
	-40 to 85°C	±20ppm				

Note: For any other frequency / specification combinations, please contact our sales offices

