

# CFPX-188 CRYSTALS

ISSUE 5; 1 NOVEMBER 2010 – RoHS 2002/95/EC

## Description

- Low profile 2 x 1.6mm SMD crystal
- Ceramic package with a seam sealed metal lid, hermetically sealed
- Please see our IQXC-42 for standard 2 x 1.6mm crystals

## General Specifications

- Load Capacitance (CL): 10pF to 30pF or Series
- Drive Level: 100µW max
- Ageing: ±3ppm max per year at 25°C
- Shunt Capacitance (C0): 5pF max

## Standard Frequency Tolerance and Stability Range

- ±10ppm to ±50ppm

## 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)

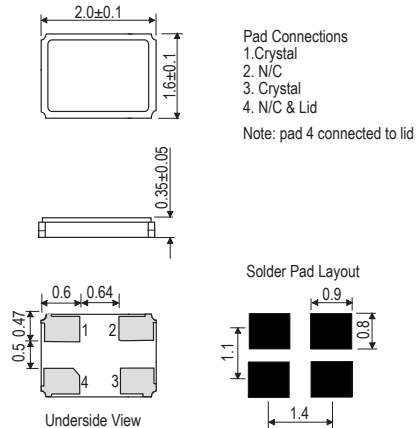
## Ordering Information (\*minimum required)

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

## Example

- 20.0MHz CFPX-188  
50/50/-10 to 60C/10 FUND

## Outline (mm)



## 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		
20.0 to <24.0MHz	±10ppm to ±50ppm	-10 to 60°C	±10ppm	±50ppm	120Ω	Fundamental AT cut
24.0 to <30.0MHz					100Ω	
30.0 to <38.0MHz					80Ω	
38.0 to 50.0MHz					60Ω	

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