

CFPX-218 CRYSTALS

ISSUE 3; 1 NOVEMBER 2010 – RoHS 2002/95/EC

Description

- Standard 2.5 x 2mm SMD crystal
- Ceramic package with a seam sealed metal lid, hermetically sealed
- Please see our CFPX-181 for a low aging version

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 Tolerances and Stabilities

- ±10ppm to ±100ppm

Operating Temperature Ranges

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

Storage Temperature Range

- 55 to 125°C

Environmental

- 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)

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)

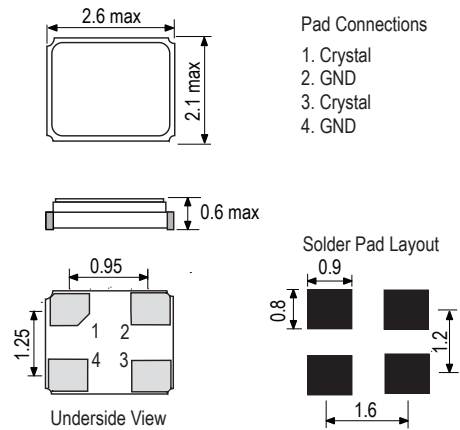
Ordering Information (*minimum required)

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

Example

- 20.0MHz CFPX-218
50/50/-40 to 85C/16 FUND

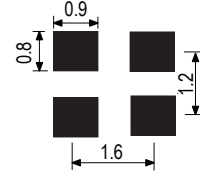
Outline (mm)



Pad Connections

- Crystal
- GND
- Crystal
- GND

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		
16.0 to <30.0MHz	±10ppm to ±50ppm	-10 to 60°C	±15ppm	±100ppm	100Ω	Fundamental AT cut
		-20 to 70°C				
		-40 to 85°C	±20ppm			
30.0 to 50.0MHz		-10 to 60°C	±15ppm		70Ω	
		-20 to 70°C				
		-40 to 85°C	±20ppm			

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

