

Crystal Specification

Model: CFPX-218

ISSUE 4; April 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 16.0000 to 50.0Mhz
■ Frequency Tolerance ±10ppm to ±50ppm

General Specification

■ Load Capacitance (CL) 10.0pF to 30.0pF or Series

■ Drive Level 100µW max

■ Ageing ±3ppm 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

■ Drop: 100cm drop (3 times) onto hard wooden board

Storage Temperature Range: -55 to 125°C

Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz-2000Hz),
 1.52mm amplitude, 20mins in 3 mutually perpendicular planes (total 4hrs)

Ordering Information

■ Example

20.0MHz CFPX-218 20/20/-40 to 85C/16 FUND

■ Frequency*

Model*

Frequency Tolerance (@ 25°C)*

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Load Capacitance*

Overtone

(*minimum required)

Packing Details

■ Pack Style: **Bulk** Loose in bulk pack

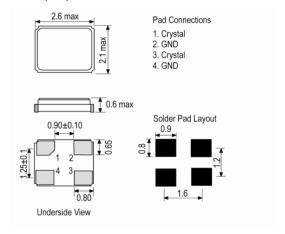
Pack Size 100

■ 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 @ 25°C	Stability		Temperature	ESR	Vibration
		Min	Max	Range	Max	Mode
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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