

Crystal Specification

Model: CFPX-104

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Description

Standard 5x3.2mm SMD crystal with 4 pads.
Ceramic package with a seam sealed metal lid, hermetically sealed.
Please see our CFPX-225 for a two pad alternative.

Frequency Range

■ Frequency 8.0000 to 150.0Mhz
■ Frequency Tolerance ±10ppm to ±50ppm

General Specification

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

■ Drive Level 100µW max

■ Ageing ±5ppm max per year @ 25°C

■ Shunt Capacitance (C0) 7pF max

Operating Temperature Ranges

■ -10 to 60°C

-20 to 70°C

■ -40 to 85°C

Environmental Parameters

- Drop: 75cm drop (3 times) onto hard wooden board
- Storage Temperature Range: -55 to 125°C
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information

■ Example

10.0MHz CFPX-104 50/50/-40 to 85C/10 FUND

■ Frequency*

Model*

Frequency Tolerance (@25°C)*

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Load Capacitance*

Overtone*

Packing Details

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

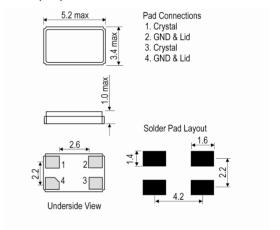
Pack Size 100

■ Pack Style: Reel Tape & 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	ESR	Vibration
		Min	Max	Range	Max	Mode
8.0 to <10.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	150Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
10.0 to <12.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	90Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
12.0 to <15.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	70Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
15.0 to <20.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	50Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
20.0 to <30.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	40Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
30.0 to <40.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	30Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
40.0 to <80.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	100Ω	3RD Overtone
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
40.0 to <52.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	20Ω	Fundamental
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		
80.0 to <150.0MHz	±10ppm to ±50ppm	±10ppm	±50ppm	-10 to 60°C	80Ω	3RD Overtone
		±15ppm		-20 to 70°C		
		±20ppm		-40 to 85°C		

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

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