



ISSUE 9; April 2014 - RoHS 2011/65/EU

Description

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

Frequency Range

- | | |
|---------------------|-------------------------|
| Frequency | 8.0 to 133.0MHz |
| Frequency Stability | ±10.00ppm to ±100.00ppm |
| 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 @ 25°C |
| Shunt Capacitance (C0) | 7pF max |

Operating Temperature Ranges

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

Environmental Parameters

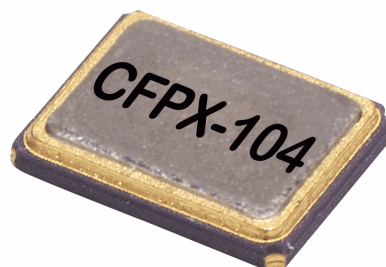
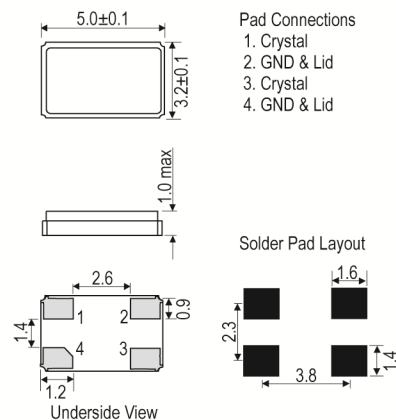
- Shock: 1500G, 0.5ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 20G (20Hz-2000Hz), 1.52mm amplitude, 20mins in 3 mutually perpendicular planes, 4 cycles
- Storage Temperature Range: -55 to 125°C

Ordering Information

- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- (*minimum required)
- Example
- 10.0MHz CFPX-104
- 50/50/-40 to 85C/10 FUND

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)****Sales Office Contact Details:**

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**Electrical Specification - maximum limiting values**

Frequency Range	Frequency Tolerance	Stability		Temperature Range	ESR Max	Vibration Mode
		Min	Max			
8.0 to <10.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	150Ω	Fundamental
10.0 to <12.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	90Ω	Fundamental
12.0 to <15.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	70Ω	Fundamental
15.0 to <20.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	50Ω	Fundamental
20.0 to <30.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	40Ω	Fundamental
30.0 to <40.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	30Ω	Fundamental
40.0 to <80.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	100Ω	3RD Overtone
40.0 to <52.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	20Ω	Fundamental
80.0 to <133.0MHz	±10ppm to ±50ppm	±10ppm ±15ppm ±20ppm	±50ppm	-10 to 60°C -20 to 70°C -40 to 85°C	80Ω	3RD Overtone

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

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