



ISSUE 9; October 2012 - RoHS 2011/65/EU

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: 8.0 to 150.0MHz
- Frequency Stability: ±10.00ppm
- 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

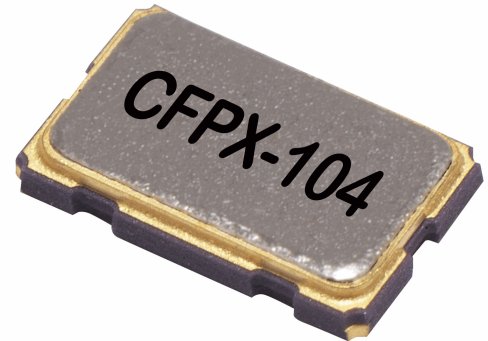
- Storage Temperature Range: -55 to 125°C
- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information

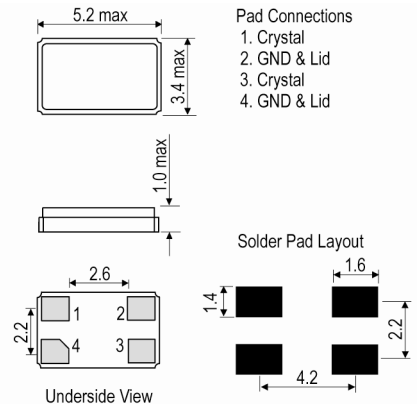
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example
10.0MHz CFPX-104
50/50/-40 to 85C/10 FUND

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)



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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 <150.0MHz | ±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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