



ISSUE 8; July 2012 - RoHS 2011/65/EU

Description

- Quartz crystal in a ceramic package with a resin sealed ceramic lid, hermetically sealed
- Not recommended for new designs
- For alternative see model CFPX-225

Frequency Range

- | | |
|-----------------------|-----------------|
| ■ Frequency | 8.0 to 150.0MHz |
| ■ Frequency Stability | ±50.00ppm |
| ■ Frequency Tolerance | 50ppm |

General Specification

- | | |
|--------------------------|----------------------------|
| ■ Load Capacitance (CL) | 10.0pF to 75.0pF 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

Environmental Parameters

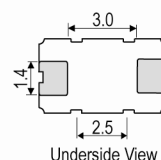
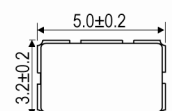
- Storage Temperature Range: -40 to 85°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Ordering Information

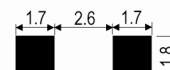
- Frequency*
- Model*
- Frequency Tolerance (@25°C)
- Frequency Stability (over operating temperature range)
- Operating Temperature Range
- Load Capacitance*
- Fundamental or Overtone AT cut*
(*minimum required)
- Example
20.0MHz 4SMX
50/50/-10 to 60C/30 FUND
- Note: For other frequency/specification combinations please contact our sales offices

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)**

Underside View

Solder Pad Layout**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 <9.0MHz	±50ppm to ±50ppm	±50ppm	±50ppm	-10 to 60°C	300Ω	Fundamental
9.0 to <10.0MHz	±50ppm to ±50ppm	±50ppm	±50ppm	-10 to 60°C	200Ω	Fundamental
10.0 to <12.0MHz	±50ppm to ±50ppm	±50ppm	±50ppm	-10 to 60°C	80Ω	Fundamental
12.0 to <16.0MHz	±50ppm to ±50ppm	±50ppm	±50ppm	-10 to 60°C	60Ω	Fundamental
16.0 to <50.0MHz	±50ppm to ±50ppm	±50ppm	±50ppm	-10 to 60°C	40Ω	Fundamental
50.0 to <150.0MHz	±50ppm to ±50ppm	±50ppm	±50ppm	-10 to 60°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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