



ISSUE 8; January 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 8.0000 to 150.0Mhz
- 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

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

Ordering Information

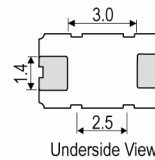
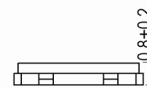
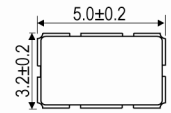
- Note: For other frequency/specification combinations please contact our sales offices
- Frequency*
Model*
Frequency Tolerance (@25°C)
Frequency Stability (over operating temperature range)
Operating Temperature Range
Load Capacitance*
Fundamental or Overtone AT cut*
(*minimum required)
- Example
20.0MHz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

Packing Details

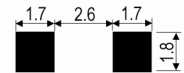
- Pack Style: **Bulk** Loose in bulk pack
Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
Pack Size 1,000
- Alternative packing options available



Outline (mm)



Solder Pad Layout



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Electrical Specification - maximum limiting values

Frequency Range	Frequency Tolerance @ 25°C ±2°C	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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