

ISSUE 4; April 2016

Description

- 4 x 2.5mm SMD crystal in a hermetically sealed ceramic package with a seam sealed metal lid. Often used in Bluetooth, ZigBee and similar RF applications.

Frequency Parameters

- Frequency 12.0MHz to 50.0MHz
- Frequency Tolerance $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C
- Developed Frequencies: 12.0MHz, 13.0MHz, 13.560MHz, 14.318180MHz, 14.74560MHz, 16.0MHz, 16.93440MHz, 18.4320MHz, 19.66080MHz, 20.0MHz, 24.5760MHz, 25.0MHz, 26.0MHz, 27.0MHz, 27.120MHz & 29.020MHz.

Electrical Parameters

- Load Capacitance (CL) 9.0pF to 30.0pF
- Shunt Capacitance (C0) 5pF max
- Drive Level 100µW max

Operating Temperature Ranges

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

Environmental Parameters

- Storage Temperature Range: -40°C to 90°C
- Drop: 75cm drop (3 times) onto hard wooden board.
- Vibration: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane.

Ordering Information

- Frequency*
Model*
Frequency Tolerance (@ 25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone
(*minimum required)
- Example
20.0MHz CFPX-201
50/50/-10 to 60C/10 FUND

Compliance

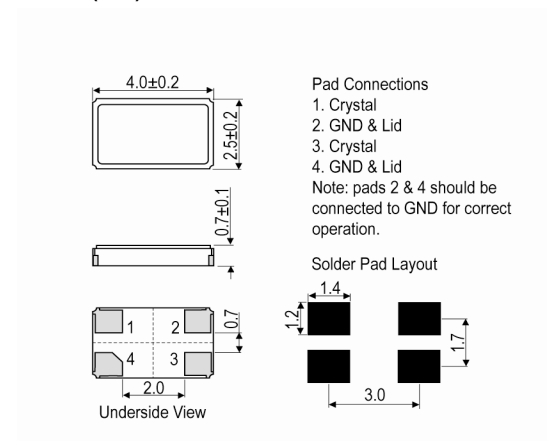
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 100



Outline (mm)



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min*)	Over Tone Order	ESR
		°C	ppm		Ω
12.0MHz	12.999999MHz	-10 to 60 -20 to 70 -40 to 85	±10 ±15 ±15	Fundamental	100
13.0MHz	18.999999MHz	-10 to 60 -20 to 70 -40 to 85	±10 ±15 ±15	Fundamental	80
19.0MHz	39.999999MHz	-10 to 60 -20 to 70 -40 to 85	±10 ±15 ±15	Fundamental	60
40.0MHz	50.0MHz	-10 to 60 -20 to 70 -40 to 85	±10 ±15 ±15	Fundamental	50

*Stability Maximum values ±50ppm

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