

ISSUE 2; April 2016

Description

- Replacement for the 3SMX Standard 6 x 3.5mm crystal Available in a 2 or 4 pad package Ceramic package with a seam sealed metal lid, hermetically sealed
- -A A 2 pad
- Variant A is a 2 pad version
- -B B 4 pad
- Variant B is a 4 pad version

Frequency Parameters

- | | |
|-----------------------|---------------------------|
| ■ Frequency | 8.0MHz to 133.0MHz |
| ■ Frequency Tolerance | ±10.00ppm to ±100.00ppm |
| ■ Frequency Stability | ±15.00ppm to ±100.00ppm |
| ■ Ageing | ±3ppm max per year @ 25°C |

Electrical Parameters

- | | |
|--------------------------|------------------|
| ■ Load Capacitance (CL) | 10.0pF to 30.0pF |
| ■ Shunt Capacitance (C0) | 7pF max |
| ■ Drive Level | 100µW max |

Operating Temperature Ranges

- 0 to 50°C
- -10 to 60°C
- -20 to 70°C
- -40 to 85°C

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Drop Test: Unit dropped from height of 100cm onto hard wooden plate (>30mm thickness), three times. JIS-C-0044
- Vibration: MIL-STD-883F: 2007.3 Frequency range 20 to 2000Hz, peak amplitude 1.52mm, peak acceleration 20G, 20min/axis X, Y & Z, total test time 4 hrs

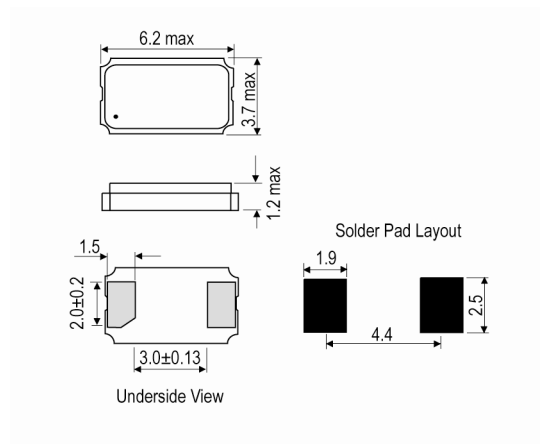
Ordering Information

- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example
10.0MHz CFPX-228-B
50/50/-40 to 85C/10 FUND

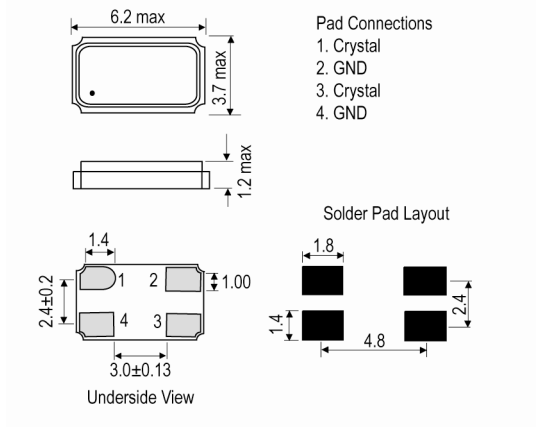
Compliance

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

Outline (mm) -A = A 2 pad



Outline (mm) -B = B 4 pad



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Email: info@iqdfrequencyproducts.com
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Packaging 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
- Pack Style: Cutt In tape, cut from a reel
Pack Size: 1

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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	10.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	150
10.000001MHz	12.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	80
12.000001MHz	15.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	60
15.000001MHz	20.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	50
20.000001MHz	30.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	40
30.000001MHz	40.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	30
40.0MHz	52.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	3rd Overtone	100
40.000001MHz	52.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	Fundamental	20
52.000001MHz	80.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	3rd Overtone	80
80.000001MHz	133.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±15 ±20 ±20 ±30	3rd Overtone	70

*Stability Maximum values ±100ppm

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