

ISSUE 8; April 2022

Description

- 6 x 3.5mm SMD crystal
Available in 2 or 4 pad design
Ceramic package with a resin sealed ceramic lid, hermetically sealed.
Not recommended for new designs
For alternative see model CFPX-228
- A A 2 pad
- 2 Pad device
- B B 4 pad
- 4 Pad device

Frequency Parameters

- Frequency 9.0MHz to 67.0MHz
- Frequency Tolerance $\pm 30.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Frequency Stability $\pm 50.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 5\text{ppm max @ } 25^\circ\text{C}$

Electrical Parameters

- Load Capacitance (CL) 10.0pF to 75.0pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 100 μW max

Operating Temperature Ranges

- 10 to 60°C

Environmental Parameters

- 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)
- Storage Temperature Range: -40 to 85°C

Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow 260degC 10s

Ordering Information

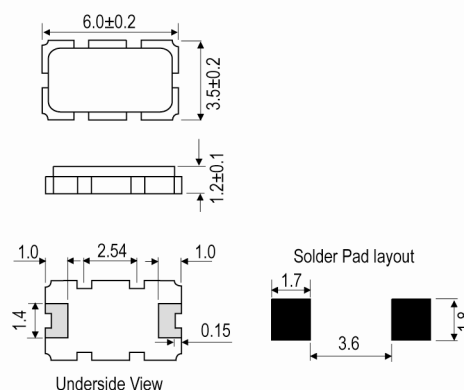
- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example
20.0MHz 3SMX-A
50/50/-10 to 60C/10 FUND

Compliance

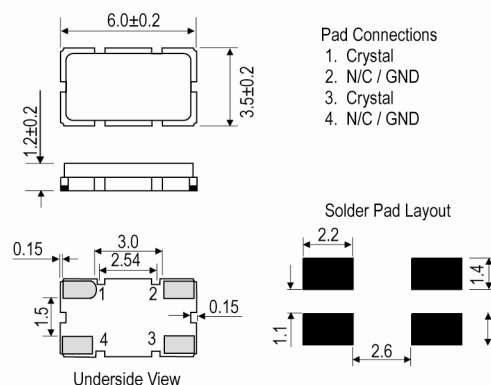
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 2



Outline (mm) -A = A 2 pad



Outline (mm) -B = B 4 pad



Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

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

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
9.0MHz	11.999999MHz	-10 to 60	±50	Fundamental	80
12.0MHz	15.999999MHz	-10 to 60	±50	Fundamental	60
16.0MHz	50.0MHz	-10 to 60	±50	Fundamental	40
40.0MHz	67.0MHz	-10 to 60	±50	3rd Overtone	70

*Stability Maximum values ±100ppm

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