



ISSUE 3; February 2012 - RoHS 2011/65/EU

Description

- 3.2 x 1.5mm SMD crystal in a ceramic package with a seam sealed metal lid, hermetically sealed
- Suitable for real time clock applications

Frequency Range

- Frequency 32.768kHz
- Frequency Tolerance $\pm 20\text{ppm}$

General Specification

- Load Capacitance (CL) 12.5pF
- Drive Level 1 μW max
- Ageing $\pm 3\text{ppm}$ max first year at 25°C
- Shunt Capacitance (C0) 1.05pF typical

Operable Temperature Range

- -40 to 85°C

Frequency Stability

- Typical Frequency Stability Coefficient: $-0.034/\text{°C}^2$

Environmental Parameters

- Operable Temperature Range: -40 to 85°C
- Storage Temperature Range: -55 to 125°C
- Drop: 100g dummy, 150cm drop (3 directions x 10 times) onto concrete
- Vibration: 1.5mm amplitude, 10Hz-500Hz, full sine wave or acceleration 10G, 1.5mins in 3 mutually perpendicular planes, duration 2hrs each plane

Ordering Information (*minimum required)

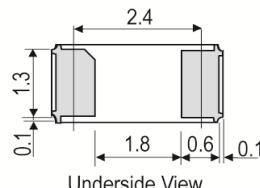
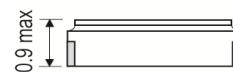
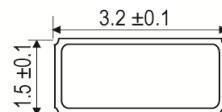
- Frequency*
Model*
- Frequency Tolerance (@ 25°C)*
- Load Capacitance*
- (*minimum required)
- Example:
32.7680kHz CFPX-217
20/-/-12.5

Packing Details

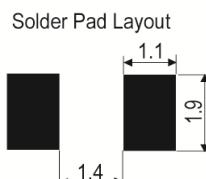
- Pack Style: Bulk Loose in bulk pack
Pack Size 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size 3,000
- Alternative packing options available



Outline (mm)



Underside View



Solder Pad Layout

Sales Office Contact Details:

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France: Opening 6th March 2012

Email: info@iqdfrequencyproducts.com

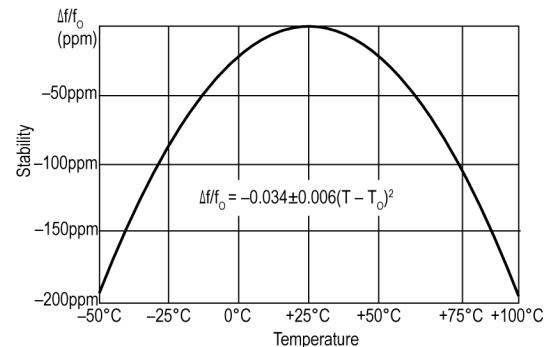
Germany: +49 (0)7264 9145-0

USA: +1 (0) 650 798 5047

Web: www.iqdfrequencyproducts.com



Typical Frequency Stability Characteristics



Electrical Specification - maximum limiting values

Frequency Range	Frequency Tolerance @ $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$	Typical Frequency Stability Coefficient	Temperature Range	ESR Max	Vibration Mode
32.768kHz	$\pm 20\text{ppm}$	-0.034ppm/ $^{\circ}\text{C}^2$	-40 to 85°C	80k Ω	Tuning Fork

This document was correct at the time of printing; please contact your local sales office for the latest version

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