

ISSUE 5; November 2019

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 Parameters

■ Frequency
■ Frequency Tolerance
±20.00ppm
■ Tolerance Condition
② 25°C ±5°C

■ Ageing ±3ppm max in 1st year @ 25°C

Electrical Parameters

Load Capacitance (CL)
Shunt Capacitance (C0)
Drive Level
6.0pF to 12.5pF
1.05pF typical
1µW max

 Load Capacitance: 12.5pF (std), other values are available such as 6pF, 7pF and 9pF

Operating Temperature Ranges

-40 to 85°C

Environmental Parameters

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

Manufacturing Details

RoHS Terminations
NiAu

RoHS Reflow
260°C max for 10s max

Ordering Information

Frequency* Model*

Frequency Tolerance (@ 25°C)*

Load Capacitance* (*minimum required)

Example

32.7680kHz CFPX-217

20/-/-/12.5

Compliance

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

Packaging Details

Pack Style: Reel Tape & reel in accordance with EIA-481-D

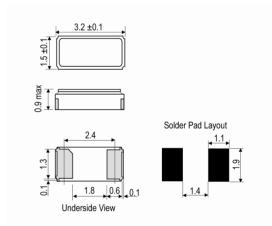
Pack Size: 3,000

Pack Style: Cutt In tape, cut from a reel

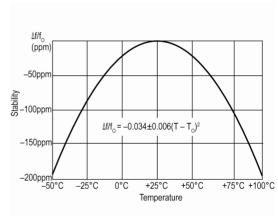
Pack Size: 100



Outline (mm)



Typical Frequency Stability Characteristics



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Quartz Crystal Specification **CFPX-217**

Electrical Specification - maximum limiting values

Frequency	Temperature Range	Stability	Over Tone Order	ESR
	°C	ppm		Ω
32.768000kHz	-40 to 85	-	Fundamental	70,000