

ISSUE 3; April 2017

### 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: 32.768kHz
- Frequency Tolerance:  $\pm 20.00\text{ppm}$
- Tolerance Condition: @ 25°C  $\pm 5^\circ\text{C}$
- Ageing:  $\pm 3\text{ppm}$  max in 1st year @ 25°C

### Electrical Parameters

- Load Capacitance (CL): 12.5pF
- Shunt Capacitance (C0): 1.05pF typical
- Drive Level: 1 $\mu\text{W}$  max

### 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

### Ordering Information

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

### Compliance

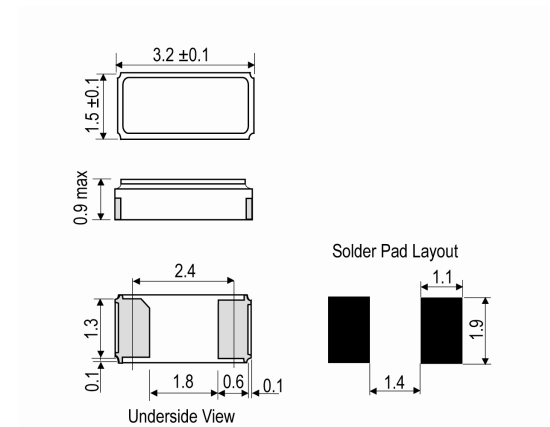
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

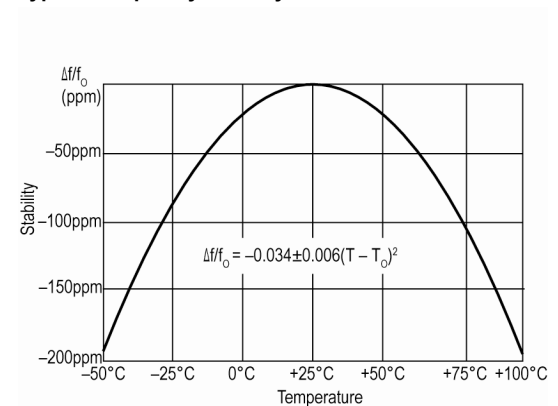
- Pack Style: Reel: Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- Pack Style: Cutt: In tape, cut from a reel  
Pack Size: 1



### Outline (mm)



### Typical Frequency Stability Characteristics



### Sales Office Contact Details:

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

Electrical Specification - maximum limiting values

Frequency	Temperature Range	Stability	Over Tone Order	ESR
	°C	ppm		Ω
32.768000kHz	-40 to 85	-	Fundamental	80,000

---

**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)