

ISSUE 13; April 2016

## Description

- Through-hole cylinder crystal in a press-sealed metal can, suitable for real time clock applications  
Available in two sizes, 3x8mm and 2x6mm  
Please see our CFPX-56 for a SMD alternative
- 2X6 -2X6
- Leaded crystal in a press sealed metal can 2 x 6mm
- 3X8 -3X8
- Leaded crystal in a press sealed metal can 3 x 8mm

## Frequency Parameters

- Frequency 32.768kHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$  to  $\pm 20.00\text{ppm}$
- Tolerance Condition @ 25°C
- Ageing  $\pm 5\text{ppm}$  max per year @ 25°C

## Electrical Parameters

- Load Capacitance (CL) 6.0pF to 12.5pF
- Shunt Capacitance (C0) 2.5pF typ
- Drive Level 1.0 $\mu$ W max

## Operating Temperature Ranges

- 20 to 70°C

## Environmental Parameters

- Drop: 75cm drop (3 times) onto hard wooden board
- Operable Temperature Range: -40 to 85°C
- Storage Temperature Range: -40 to 85°C

## Ordering Information

- Frequency\*
- Model\*
- Variant\*
- Frequency Tolerance (@ 25°C)\*
- Load Capacitance\*  
(\*minimum required)
- Example  
32.768kHz WATCH-3x8  
20I-/12.5

## Compliance

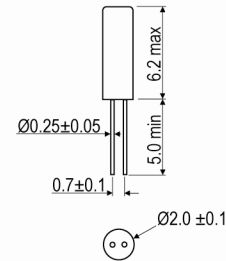
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

## Packaging Details

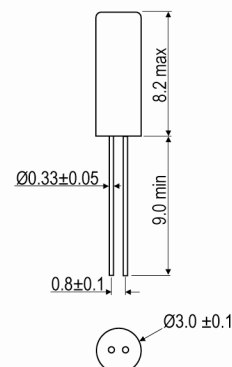
- Pack Style: Bulk Loose in bulk pack
- Pack Size: 1,000



Outline (mm) -2X6 = -2X6



Outline (mm) -3X8 = -3X8



## Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: 0800 1808 443

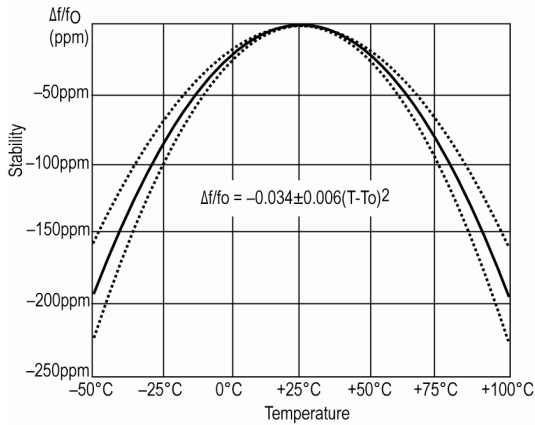
France: 0800 901 383

USA: +1.760.318.2824

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

**Typical Frequency Stability Characteristics**



**Electrical Specification - maximum limiting values**

Frequency	Temperature Range	Stability (Min)	Over Tone Order	ESR
	°C	ppm		Ω
32.768000kHz	-20 to 70	-	Fundamental	50,000

**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)