

ISSUE 4; April 2016

**Description**

- Plastic moulded surface mount watch crystal

**Frequency Parameters**

- Frequency: 32.768kHz
- Frequency Tolerance: ±20.00ppm
- Tolerance Condition: @ 25°C ±2°C
- Ageing: ±3ppm max in 1st year @ 25°C
- Operable Temperature Range: -40 to 85°C

**Electrical Parameters**

- Load Capacitance (CL): 7.0pF to 12.5pF
- Shunt Capacitance (C0): 0.8pF typ
- Drive Level: 1.0µW max
- Motional Capacitance (C1): 1.9fF typ

**Operating Temperature Ranges**

- 40 to 85°C

**Environmental Parameters**

- Storage Temperature Range: -55 to 125°C
- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-60Hz, 2-3mins in 3 mutually perpendicular planes, duration 2hrs each plane
- Thermal Shock: 20 cycles of -25°C to 80°C over a duration of 30mins

**Ordering Information**

- Frequency\*  
Model\*  
Frequency Tolerance (@ 25°C)  
Load Capacitance\*  
(\*minimum required)
- Example  
32.768kHz CFPX-155  
20/-/12.5

**Compliance**

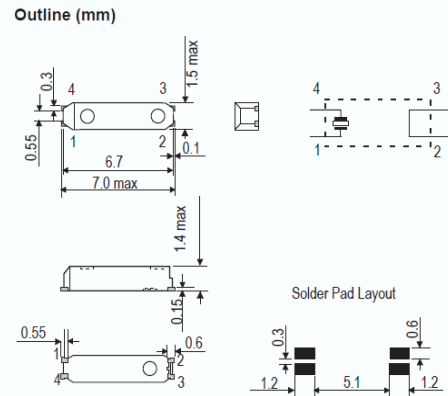
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

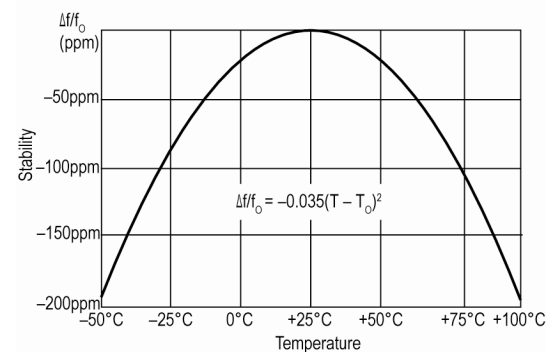
- Pack Style: Reel: Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- Pack Style: Cutt: In tape, cut from a reel  
Pack Size: 1
- Pack Style: Bulk: Loose in bulk pack  
Pack Size: 100



**Outline (mm)**



**Typical Frequency Stability Characteristic**



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**Electrical Specification - maximum limiting values**

Frequency	Temperature Range	Stability (Min)	Over Tone Order	ESR
	°C	ppm		Ω
32.768000kHz	-40 to 85	-	Fundamental	65,000

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