

ISSUE 4; April 2021

### Description

- Plastic moulded surface mount watch crystal

### Frequency Parameters

- Frequency: 32.768kHz
- Frequency Tolerance:  $\pm 20.00\text{ppm}$
- Tolerance Condition: @ 25°C  $\pm 2^\circ\text{C}$
- Ageing:  $\pm 3\text{ppm}$  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: 1.0 $\mu\text{W}$  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

### Manufacturing Details

- RoHS Terminations: Matte Sn
- RoHS Reflow: 260°C max for 5sec max

### Ordering Information

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

### Compliance

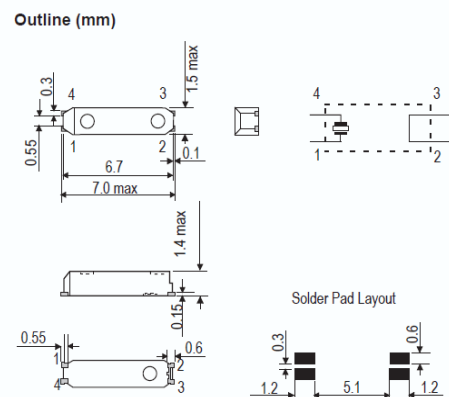
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

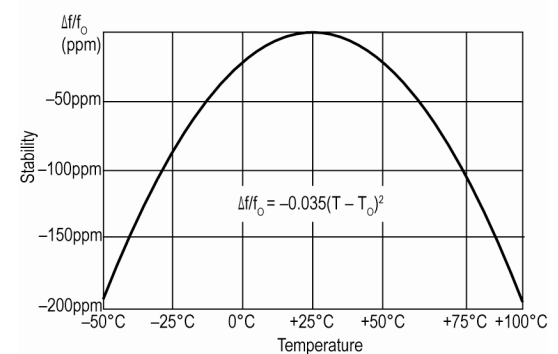
- Pack Style: Reel: Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- Pack Style: Cutt: In tape, cut from a reel  
Pack Size: 100



### 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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