Quartz Crystal Specification
CFPX-56

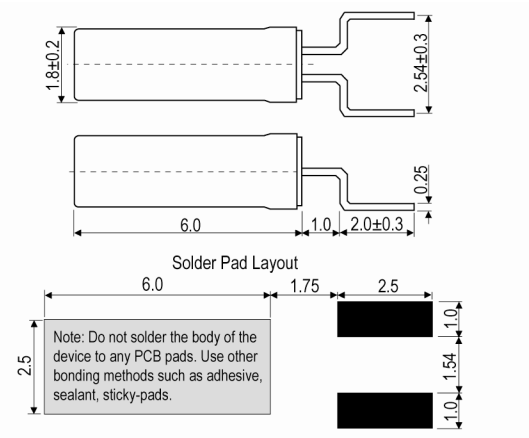
ISSUE 6; September 2016

Description

- 2 x 6mm watch crystal with pre-formed legs to make a SMD package. Suitable for real time clock applications.



Outline (mm)



Frequency Parameters

Frequency	32.768kHz
Frequency Tolerance	±20.00ppm
Tolerance Condition	@ 25°C
Ageing	±5ppm max in 1st year

Electrical Parameters

Load Capacitance (CL)	6.0pF to 12.5pF
Shunt Capacitance (C0)	1.6pF typical
Drive Level	1.0µW max

- Motional Capacitance (C1) 3.2fF typ
- Frequency Stability Coefficient: -0.034ppm/°C² ±0.006ppm/°C²

Operating Temperature Ranges

- -40 to 85°C

Environmental Parameters

- High Temperature Storage: 85°C for 24hrs
- Drop: 75cm drop (3 times) onto hard wooden board
- Storage Temperature Range: -40 to 85°C

Manufacturing Details

- Suitable for reflow soldering at 245°C max for 10sec max x 1 cycle
- Note: Do not solder the body of the device to any PCB pads. Use other bonding methods such as adhesive, sealant, sticky-pads.

Ordering Information

- Frequency*
  Model*
  Frequency Tolerance @25°C
  Load Capacitance*
- Example
  32.768kHz CFPX-56
  20/-/-/12.5

Compliance

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

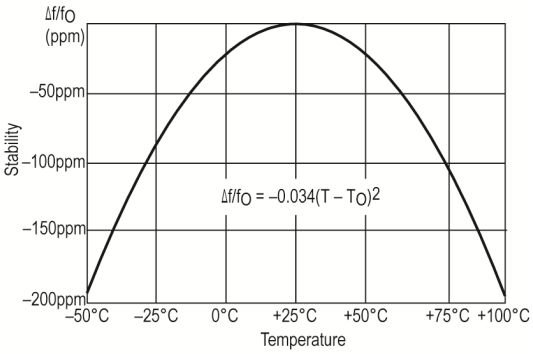
Packaging Details

- Pack Style: Bulk — Loose in bulk pack
  Pack Size: 100
- Pack Style: Reel — Tape & reel in accordance with EIA-481-D
  Pack Size: 3,000

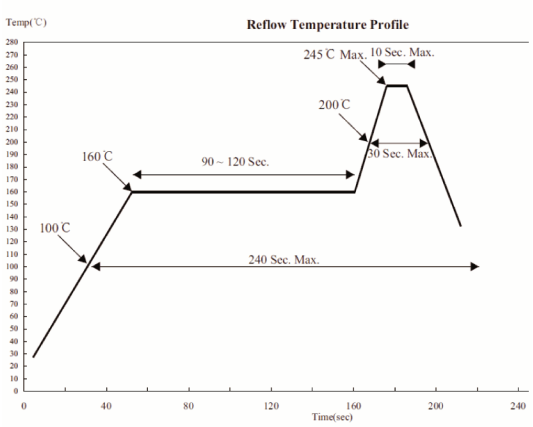
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Typical Frequency Stability Characteristics



Reflow Temperature Profile



Electrical Specification - maximum limiting values

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

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