

CFPX-184 32.768kHz Crystals

ISSUE 1 ; 3 MAY 2006

Delivery Options

- Please contact our sales office for current leadtimes

Holder Style

- CFPX-184 surface mount crystals are encapsulated in a ceramic package with a sealed metal lid.

General Specification

- Load Capacitance (CL): 12.5pF standard (C)
9pF available (B)

Standard Frequency Tolerance

- $\pm 20\text{ppm}$ @25°C

Turnover Temperature

- 25°C $\pm 5^\circ\text{C}$

Operating Temperature Range

- -40 to 85° C

Storage Temperature Range

- -55 to 125°C

E.S.R.

- 70k Ω max

Shunt Capacitance (Co)

- 1.6pF typ.

Static Capacitance (C1)

- 3.6fF typ.

Drive Level

- 1.0 μW max

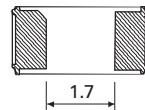
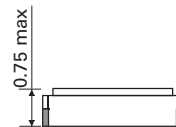
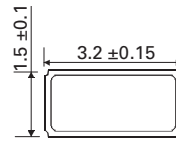
Ageing per year @25°C $\pm 3^\circ\text{C}$, First year

- $\pm 3.0\text{ppm}$ max

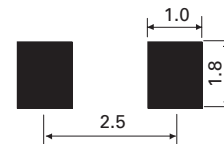
Environmental Specification

- Thermal Shock : 100 cycles of -40 to 85°C over duration of 30 mins. $\Delta f/f_0 = \pm 10\text{ppm}$
- Shock: Unit dropped from height of 150cm onto concrete, three times : $\Delta f/f_0 = \pm 10\text{ppm}$
- Vibration : 10 to 60Hz, 1.5mm amplitude for 2-3 mins in each of three mutually perpendicular planes. Total duration 2 hrs. $\Delta f/f_0 = \pm 5\text{ppm}$

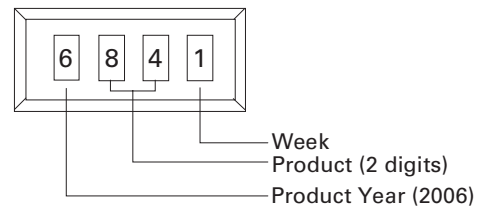
Outline in mm



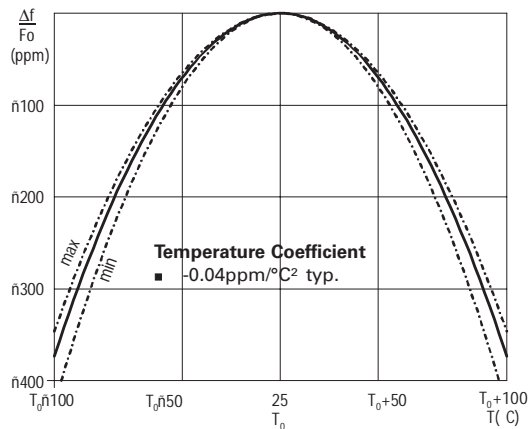
Recommended Solder Pad Layout.



Marking



Frequency Temperature Curve



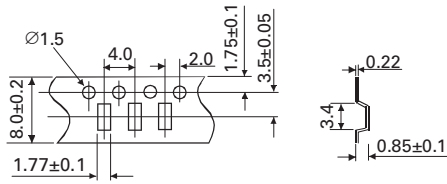
Reflow Profile (IR Reflow)

- 260°C max x 10 sec. Max. x 2 times

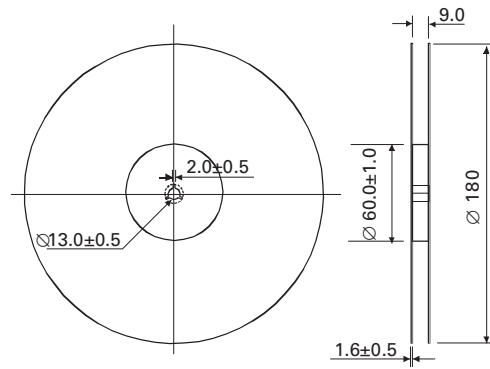
Minimum Ordering Information Required

- Frequency + Model Number + Load

Tape in mm



Reel in mm



Qty per reel 3000pcs