

CFPX-155 CRYSTALS

ISSUE 4; 19 JANUARY 2009 – RoHS 2002/95/EC

Holder Style

- Plastic moulded package

General Specification

- Load Capacitance (CL): 12.5pF standard
7pF optional
- Drive Level: 1.0µW max
- Ageing: per year @25°C ±3°C, ±3ppm max in 1st yr
- ESR: 65kΩ max
- Shunt Capacitance (C0): 0.8pF typ
- Static Capacitance (C1): 1.9fF typ

Packaging

- Loose in bulk pack or tape and reel

Standard Frequency Tolerance

- ±20ppm @25°C

Operable Temperature Range

- 40 to 85° C

Storage Temperature Range

- 55 to 125°C

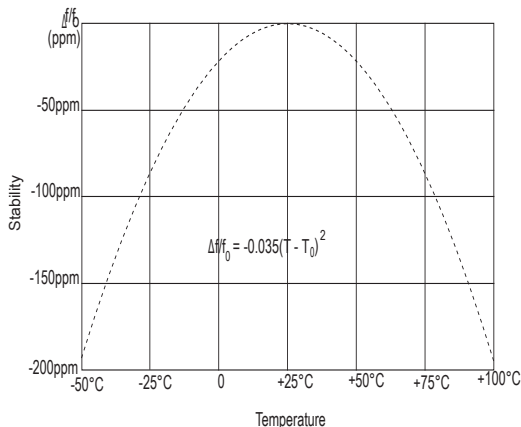
Environmental Specification

- Thermal Shock: 20 cycles of -25 to 80°C over duration of 30 mins. $Df/f_0 = \pm 10\text{ppm}$
- Drop: Unit dropped three times from a height of 75cm onto a wooden board: $Df/f_0 = \pm 5\text{ppm}$
- Vibration: Amplitude 1.5mm over 10–60Hz, cycle time 2–3 mins in each of three mutually perpendicular planes, each for 2 hrs ($Df/f_0 = \pm 5\text{ppm}$)

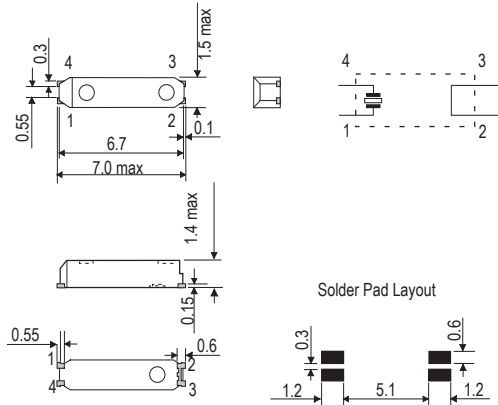
Minimum Ordering Information Required

- Frequency + Holder + Circuit Condition

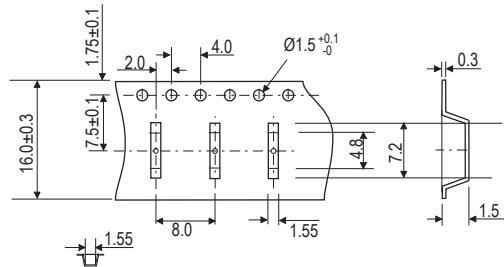
Typical Frequency Stability Characteristic



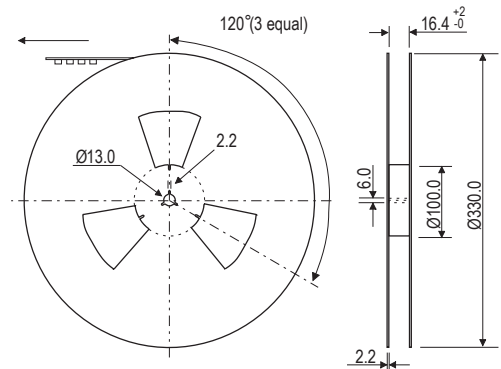
Outline (mm)



Tape (mm)



Reel (mm)



Electrical Specifications – maximum limiting values

| Frequency Range | Frequency Tolerance @25°C ±2°C | Operating Temperature Range | Typical Frequency Stability Coefficient | ESR | Vibration |
|-----------------|-----------------------------------|--------------------------------|--|------|-------------|
| 32.7680kHz | ±20ppm | -40 to 85°C | -0.035/°C ² | 65kΩ | Fundamental |