



# CFPX-180

SURFACE MOUNT  
QUARTZ CRYSTALS

ISSUE 3; 8 AUG 2008



### Delivery Options

- Please contact our sales office for current leadtimes

### Holder Style

- CFPX-180 surface mount crystals are encapsulated in a ceramic package with a seam sealed metal lid

### General Specifications

- Load Capacitance ( $C_L$ ): 16pF standard
- Drive Level: 100 $\mu$ W max
- Ageing:  $\pm 5$ ppm max per year @ 25°C
- Co: 7pF max

### Packaging

- CFPX-180 surface mount crystals are available packaged loose as bulk pack or on tape and reel

### Standard Frequency Tolerances and Stability

- $\pm 10$ ppm to  $\pm 50$ ppm

### Operating Temperature Range

- -10 to 60°C

### Storage Temperature Range

- -30 to 85°C

### Environmental

- Shock: MIL-STD-202F, Method 213B (1/2 sine, 1000G, 0.5ms)
- Vibration: MIL-STD-202F, Method 204D, Test Condition D 20G ( freq range 10-2000Hz, 4 hrs in X, Y & Z axes, total 12hrs )

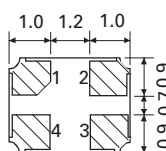
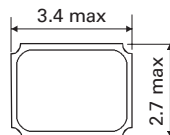
### Marking includes

- Frequency

### Minimum Order Information Required

- Frequency + Holder + Frequency Tolerance @ 25°C + Frequency Stability + Operating Temperature Range + Circuit Condition + Overtone Order

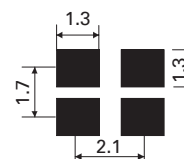
### Outline in mm



### Pad Connections

1. Crystal
2. N/C
3. Crystal
4. N/C

### Solder pad layout





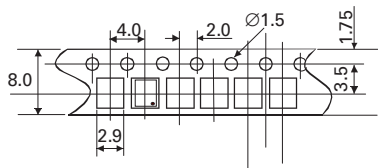
Electrical Specification - maximum limiting values

Frequency Range	Frequency Tolerance @ 25°C ±2°C	Operating Temperature Range	Frequency Stability Available Over Operating Temperature Range		ESR max.	Vibration Mode
			Minimum	Maximum		
13.0 to <16.0MHz	±10ppm to ±50ppm	-10 to 60°C	±10ppm	±50ppm	150Ω	Fundamental AT Cut
16.0 to 50.0MHz					100Ω	

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**Note.** For any other frequencies / specification combinations, please contact our sales office.

Outline in mm - Tape



Outline in mm - Reel

