

## Customer Part:

### Description

- Standard 3.2 x 2.5mm SMD crystal in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model CFPX-180
- Model Issue number 10

### Frequency Parameters

- Frequency 8.0MHz
- Frequency Tolerance  $\pm 30.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing \*\*\*See Technical Notes\*\*\*

### Electrical Parameters

- Load Capacitance (CL) 12.00pF
- Shunt Capacitance (C0) \*\*\*See Technical Notes\*\*\*
- Drive Level 100µW max

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

### Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

### Compliance

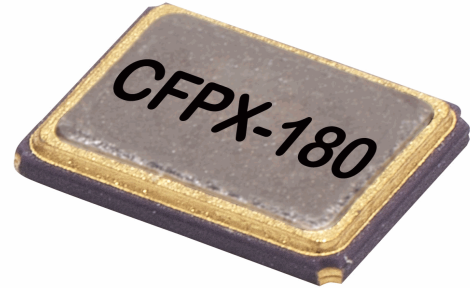
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

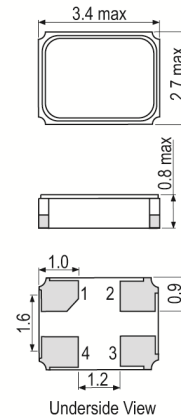
- Pack Style: RL3K Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- Alternative packing option available

### Technical Notes

- ESR: 500 Ohms max  
Ageing:  $\pm 2\text{ppm max in 1st year at } 25^{\circ}\text{C}$ ,  
 $\pm 1\text{ppm/yr max thereafter for 15 years}$   
Shunt Capacitance C0: 3.5pF max



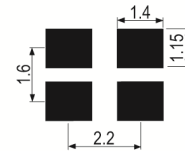
### Outline (mm)



#### Pad Connections

1. Crystal
2. GND & Lid
3. Crystal
4. GND & Lid

#### Solder Pad Layout



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