

**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 13

**Frequency Parameters**

- Frequency 13.560MHz
- Frequency Tolerance  $\pm 30.00$ ppm
- Tolerance Condition @25°C
- Frequency Stability  $\pm 30.00$ ppm
- Operating Temperature Range -20.00 to 70.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5$ ppm max per year @25°C

**Electrical Parameters**

- Load Capacitance (CL) 10.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 100µW max
- ESR 120.00Ω max

**Environmental Parameters**

- Storage Temperature Range: -55 to 125°C
- Shock: 1500g, 0.5ms, 3 times in each of the 3 mutually perpendicular planes.
- Vibration: MIL-STD-883F, 20g (20Hz~2000Hz), 1.52mm amplitude, 20 minutes in 3 mutually perpendicular planes, 4 cycles.

**Manufacturing Details**

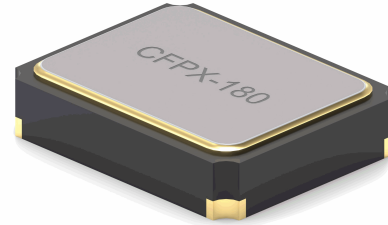
- RoHS Terminations NiAu
- RoHS Reflow Temp 260°C max over 10 seconds

**Compliance**

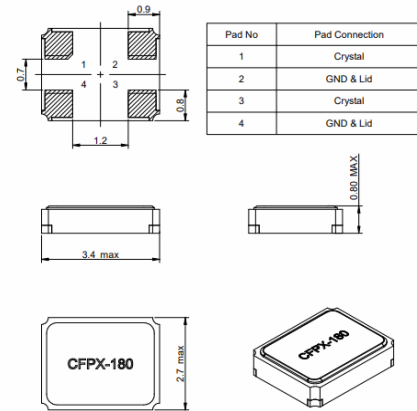
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

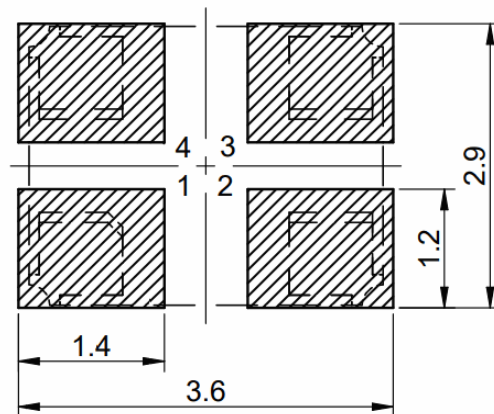
- Tape & reel in accordance with EIA-481  
Quantities below the standard reel size to be supplied on cut tape  
Standard Pack Quantity: 3,000



**Outline (mm)**



**Recommended Solder Pad Layout**



**Sales Office Contact Details:**

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