

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 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
- ESR ****See Technical Notes****

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

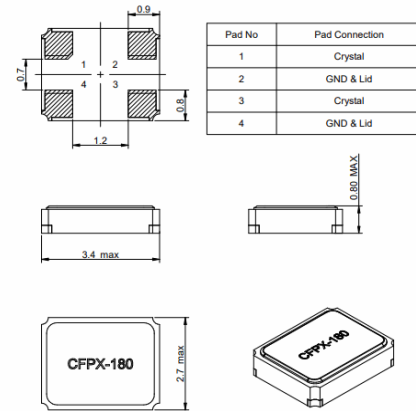
- Tape & reel in accordance with EIA-481
- Quantities below the standard reel size to be supplied on cut tape
- Standard Pack Quantity: 3,000

Technical Notes

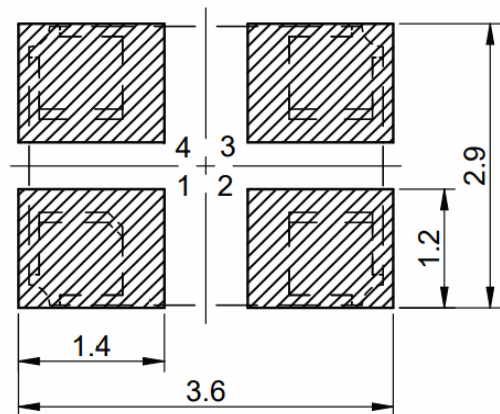
- ESR: 500 Ohms max
- Ageing: $\pm 2\text{ppm}$ max in 1st year at 25°C,
 $\pm 1\text{ppm/yr}$ max thereafter for 15 years
- Shunt Capacitance C0: 3.5pF max



Outline (mm)



Recommended Solder Pad Layout



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