

**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 24.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 15.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm}$  max per year @ 25°C

**Electrical Parameters**

- Load Capacitance (CL) 9.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 100µW max
- ESR 50.00Ω 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*


**Outline (mm)**


Underside View

**Pad Connections**

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

**Solder Pad Layout**

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