

**ISSUE 2; April 2016**

**Description**

- Standard 5 x 3.2mm SMD crystal with 2 pads in a ceramic package, hermetically sealed with a seam sealed metal lid

**Frequency Parameters**

- Frequency: 8.0MHz to 150.0MHz
- Frequency Tolerance:  $\pm 10.00\text{ppm}$  to  $\pm 50.00\text{ppm}$
- Tolerance Condition: @ 25°C  $\pm 3^\circ\text{C}$
- Frequency Stability:  $\pm 10.00\text{ppm}$  to  $\pm 50.00\text{ppm}$
- Ageing:  $\pm 3\text{ppm}$  max per year @ 25°C

**Electrical Parameters**

- Load Capacitance (CL): 8.0pF to 30.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 100 $\mu\text{W}$  max

**Operating Temperature Ranges**

- 0 to 50°C
- 10 to 60°C
- 20 to 70°C
- 10 to 70°C
- 40 to 85°C

**Environmental Parameters**

- Storage Temperature Range: -55 to 125°C
- Drop: 100cm drop (3 times) onto hard wooden board
- Vibration: MIL-STD-883F, Method 2007.3: 20G (20Hz-2000Hz), 1.52mm amplitude, 20mins in 3 mutually perpendicular planes (total 4hrs)

**Ordering Information**

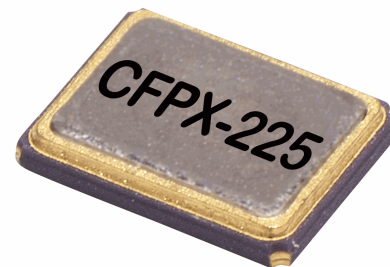
- Frequency\*
- Model\*
- Frequency Tolerance (@ 25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone\*
- (\*minimum required)
- Example  
10.0MHz CFPX-225  
50/50/-40 to 85C/10 FUND

**Compliance**

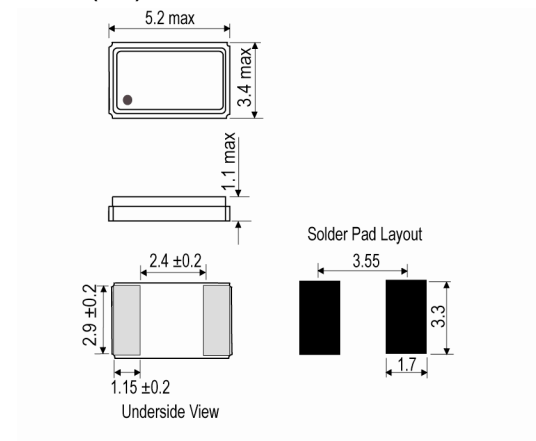
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 1
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000



**Outline (mm)**



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	10.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	150
10.000001MHz	12.0MHz	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	90
12.000001MHz	15.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	70
15.000001MHz	20.0MHz	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	50
20.000001MHz	30.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	40
30.000001MHz	40.0MHz	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	30
40.0MHz	80.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	3rd Overtone	100
40.000001MHz	52.0MHz	0 to 50 -10 to 70 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	Fundamental	20
80.000001MHz	150.0MHz	0 to 50 -10 to 60 -20 to 70 -40 to 85	±10 ±10 ±10 ±25	3rd Overtone	80

\*Stability Maximum values ±50ppm

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