

ISSUE 11; December 2024

Description

- Standard 5x3.2mm SMD crystal with four pads.
- Ceramic package with a seam sealed metal lid, hermetically sealed.
- Please see our IQXC-49 for a two pad alternative.

Frequency Parameters

- | | |
|---------------------|--------------------------|
| Frequency | 8.0MHz to 133.0MHz |
| Frequency Tolerance | ±10.00ppm to ±100.00ppm |
| Tolerance Condition | @25°C |
| Frequency Stability | ±10.00ppm to ±100.00ppm |
| Ageing | ±3ppm max per year @25°C |

Electrical Parameters

- | | |
|------------------------|-----------------|
| Load Capacitance (CL) | 8.0pF to 30.0pF |
| Shunt Capacitance (C0) | 7pF max |
| Drive Level | 100µW max |

Operating Temperature Ranges

- 10 to 60°C
- 20 to 70°C
- 40 to 85°C
- 40 to 105°C
- 40 to 125°C

Environmental Parameters

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

Manufacturing Details

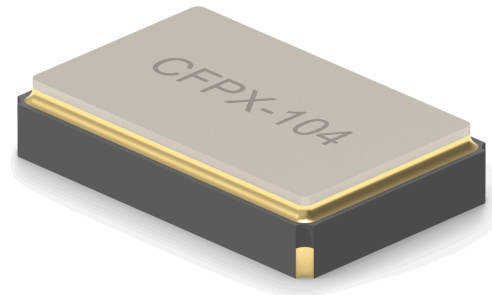
- | | |
|-------------------|--------------------------|
| RoHS Terminations | Au 0.3µm~1.0µm |
| RoHS Reflow | 260°C max for 30 seconds |

Ordering Information

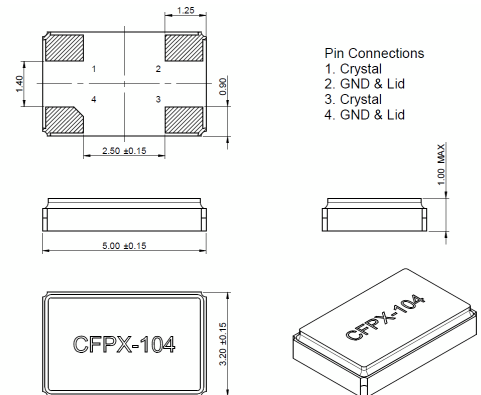
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- (*minimum required)
- Example
- 10.0MHz CFPX-104
- 50/50/-40 to 85C/10 FUND

Compliance

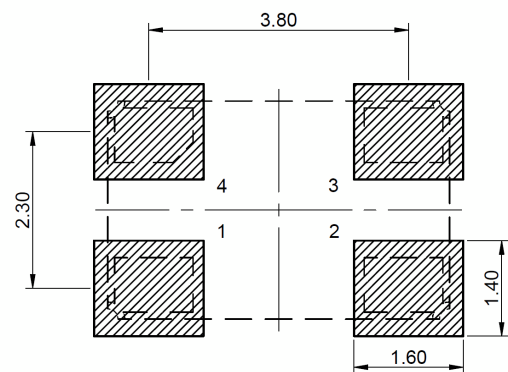
- | | |
|----------------------------|----------------|
| RoHS Status (2015/863/EU) | Compliant |
| REACH Status | Compliant |
| MSL Rating (JDEC-STD-033): | Not Applicable |



Outline (mm)



Recommended Solder Pad Layout



Sales Office Contact Details:

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Packaging Details

- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape.
Standard Pack Quantity: 1,000

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	10.0MHz	-10 to 60	±10	Fundamental	150
		-20 to 70	±10		150
		-40 to 85	±20		150
		-40 to 105	±100		150
		-40 to 125	±100		150
10.000001MHz	12.0MHz	-10 to 60	±10	Fundamental	90
		-20 to 70	±10		90
		-40 to 85	±20		90
12.000001MHz	15.0MHz	-10 to 60	±10	Fundamental	70
		-20 to 70	±10		70
		-40 to 85	±20		70
15.000001MHz	20.0MHz	-10 to 60	±10	Fundamental	50
		-20 to 70	±10		50
		-40 to 85	±20		50
20.000001MHz	30.0MHz	-10 to 60	±10	Fundamental	40
		-20 to 70	±10		40
		-40 to 85	±20		40
30.000001MHz	40.0MHz	-10 to 60	±10	Fundamental	30
		-20 to 70	±10		30
		-40 to 85	±20		30
40.0MHz	80.0MHz	-10 to 60	±10	3rd Overtone	100
		-20 to 70	±10		100
		-40 to 85	±20		100
40.000001MHz	52.0MHz	-10 to 60	±10	Fundamental	25
		-20 to 70	±10		25
		-40 to 85	±20		25
80.000001MHz	133.0MHz	-10 to 60	±10	3rd Overtone	80
		-20 to 70	±10		80
		-40 to 85	±20		80

*Stability Maximum values ±100ppm

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