

ISSUE 2; January 2016

Description

- 2.5 x 2mm SMD quartz crystal in a ceramic package with a seam sealed metal lid, hermetically sealed

Frequency Parameters

- Frequency: 16.0MHz to 90.0MHz
- 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: $\pm 5\text{ppm}$ max per year at 25°C

Electrical Parameters

- Load Capacitance (CL): 10.0pF to 30.0pF
- Shunt Capacitance (C0): 0.85pF typ
- Drive Level: 100 μW max

Operating Temperature Ranges

- 10 to 60°C

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-500Hz or acceleration 10G, 1.5mins in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)

Manufacturing Details

- Please handle with care, especially when using automatic placement equipment. Due to the low profile of the package this product has a thinner than standard ceramic base and the clearance between the quartz blank and the package lid is also less than standard. Please contact our Applications Support department for further clarification.

Ordering Information

- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range
- Load Capacitance*
- Overtone
- (*minimum required)
- Example
- 20.0MHz IQXC-67
- 50/50/-10 to 60C/8 FUND

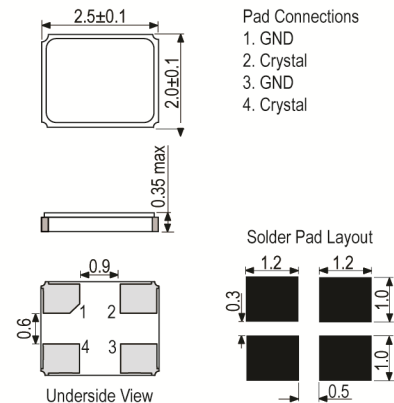
Compliance

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

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: 1,000

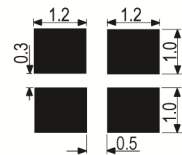
Outline (mm)



Pad Connections

1. GND
2. Crystal
3. GND
4. Crystal

Solder Pad Layout



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
16.0MHz	23.999999MHz	-10 to 60	±10	Fundamental	130
24.0MHz	29.999999MHz	-10 to 60	±10	Fundamental	80
30.0MHz	90.0MHz	-10 to 60	±10	Fundamental	60

**Stability Maximum values ±50ppm*

This document was correct at the time of printing; please contact your local sales office for the latest version.

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