

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: 100µW 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

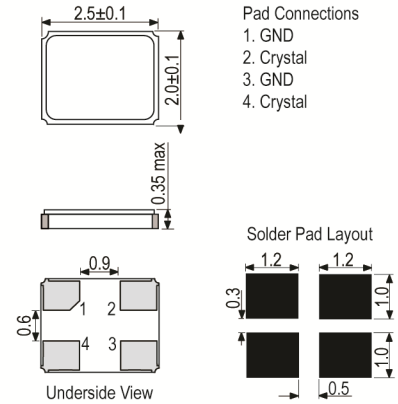
**Compliance**

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

**Packaging Details**

- 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
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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