

ISSUE 3; May 2018

### Description

- Hermetically sealed ceramic package with a seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and available with TS16949 release.
- A 2 pad
- B 4 pad

### Frequency Parameters

- Frequency: 8.0MHz to 125.0MHz
- Frequency Tolerance:  $\pm 10.00\text{ppm}$  to  $\pm 50.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Frequency Stability:  $\pm 50.00\text{ppm}$  to  $\pm 150.00\text{ppm}$
- Ageing:  $\pm 5\text{ppm}$  max per year @ 25°C

### Electrical Parameters

- Load Capacitance (CL): 8.0pF to 75.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 50µW typical (200µW max)

### Operating Temperature Ranges

- 40 to 85°C
- 40 to 125°C

### Environmental Parameters

- Storage Temperature Range: -45°C to Max Operating Temperature+5°C
- Qualified to AEC-Q200

### Manufacturing Details

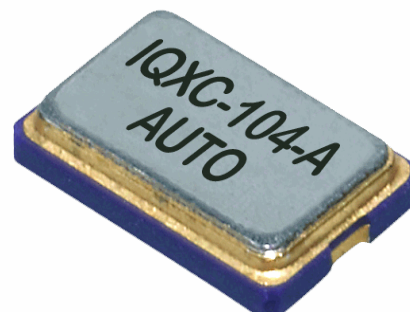
- RoHS Terminations: NiAu
- RoHS Reflow: 260°C max for 10secs max

### Ordering Information

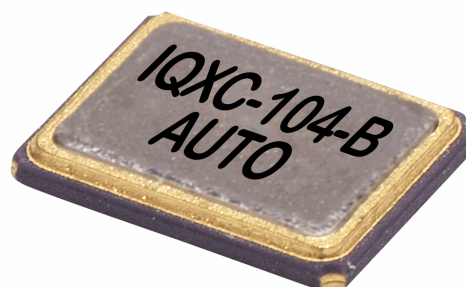
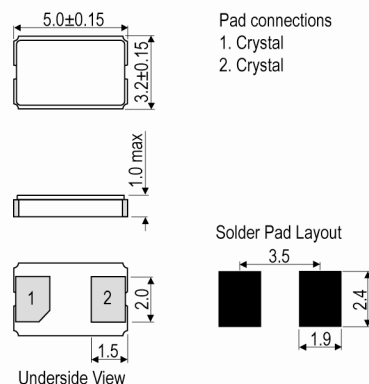
- Frequency\*
- Model\*
- Variant\*
- Frequency Tolerance (@ 25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone
- (\*minimum required)
- Example:  
20.00MHz IQXC-104 AUTO - B  
50/100/-40 to 125C/8 FUND

### Compliance

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



Outline (mm) -A = 2 pad



### Sales Office Contact Details:

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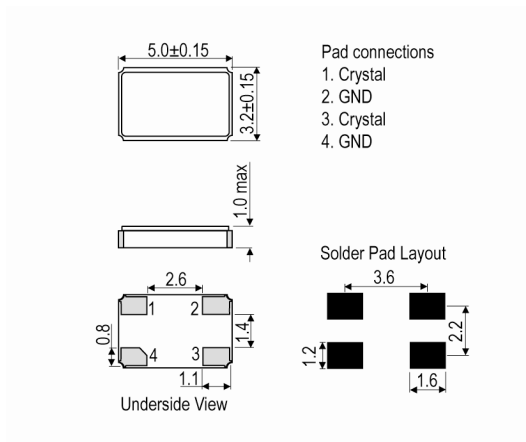
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**Packaging Details**

- Pack Style: Reel      Tape & reel in accordance with EIA-481-D  
Pack Size: 5,000
- Pack Style: Cutt      Cut tape  
Pack Size: 100
- Pack Style: Bulk      Bulk pack  
Pack Size: 100

**Outline (mm) -B = 4 pad**



**Electrical Specification - maximum limiting values**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	14.0MHz	-40 to 85 -40 to 125	±50 ±100	Fundamental	150
14.000001MHz	20.0MHz	-40 to 85 -40 to 125	±50 ±100	Fundamental	120
20.000001MHz	26.0MHz	-40 to 85 -40 to 125	±50 ±100	Fundamental	100
26.000001MHz	50.0MHz	-40 to 85 -40 to 125	±50 ±100	Fundamental	60
40.0MHz	125.0MHz	-40 to 85 -40 to 125	±50 ±100	3rd Overtone	120

\*Stability Maximum values ±150ppm

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

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