

ISSUE 2; July 2019

Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with IATF-16949:2016 release. Not suitable for safety critical applications.
- -A 2 pad
- -B 4 pad

Frequency Parameters

- Frequency 10.0MHz to 70.0MHz
- Frequency Tolerance $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 15.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- 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 50 μ W standard

Operating Temperature Ranges

- -40 to 85°C
- -40 to 125°C

Environmental Parameters

- Storage Temperature Range: -40 to 150°C
- Qualified to AEC-Q200

Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow 260degC 10s

Ordering Information

- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- (*minimum required)
- Example
10.0MHz IQXC-228 AUTO - B
50/100/-40 to 125C/8 FUND

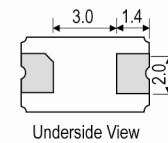
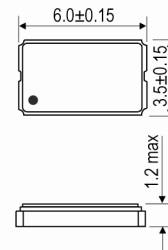
Compliance

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

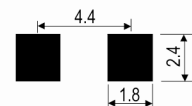
Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 100

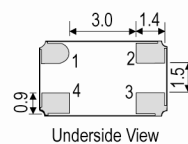
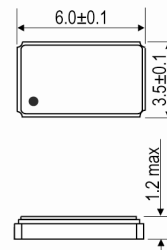
Outline (mm) -A = 2 pad



Solder Pad Layout



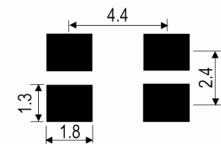
Outline (mm) -B = 4 pad



Pad Connections

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

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
10.0MHz	11.0MHz	-40 to 85 -40 to 125	±15 ±50	Fundamental	80
11.000001MHz	12.0MHz	-40 to 85 -40 to 125	±15 ±50	Fundamental	50
12.000001MHz	40.0MHz	-40 to 85 -40 to 125	±15 ±50	Fundamental	40
40.0MHz	70.0MHz	-40 to 85 -40 to 125	±15 ±50	3rd Overtone	70

*Stability Maximum values ±100ppm

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