

ISSUE 2; March 2016

Description

- 7 x 5mm SMD crystal.
Available in a 2 or 4 pad package.
Ceramic package with a seam sealed metal lid, hermetically sealed.
Suitable for Industrial applications qualified to AEC-Q200.
Please see our 12SMX for standard stock alternative.
- -A 2 pad
- 2 Pad version
- -B 4 pad
- 4 Pad version

Frequency Parameters

- Frequency 6.0MHz to 80.0MHz
- Frequency Tolerance $\pm 10.00\text{ppm}$ to $\pm 50.00\text{ppm}$
- 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
- Shunt Capacitance (C0) 7pF max
- Drive Level 50µW standard

Operating Temperature Ranges

- -40 to 85°C
- -20 to 125°C

Environmental Parameters

- Storage Temperature Range: -40 to 150°C

Ordering Information

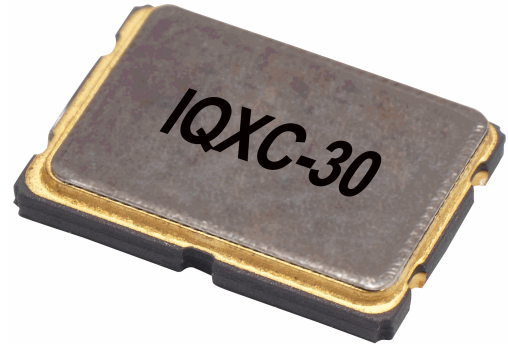
- Frequency*
Model*
Variant*
Frequency Tolerance (@25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone*
- Example
10.0MHz IQXC-30-B
30/50/-40 to 85C/8 FUND
- Qualified to AEC-Q200

Compliance

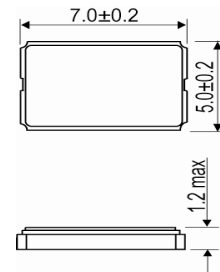
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

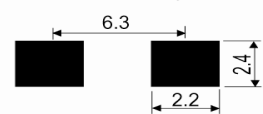
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 100



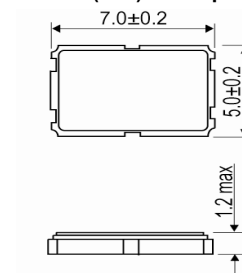
Outline (mm) -A = 2 pad



Solder Pad Layout



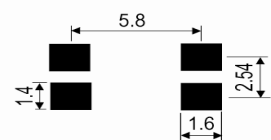
Outline (mm) -B = 4 pad



Pad Connections

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

Solder Pad Layout



Sales Office Contact Details:

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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
6.0MHz	8.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	150
8.000001MHz	9.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	100
9.000001MHz	11.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	60
11.000001MHz	40.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	40
26.0MHz	80.0MHz	-20 to 125 -40 to 85	±50 ±15	3rd Overtone	100

*Stability Maximum values ±100ppm

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