

ISSUE 2; January 2024

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 Rev D.
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

- 20 to 125°C
- 40 to 85°C

Environmental Parameters

- Storage Temperature Range: -40 to 150°C

Ordering Information

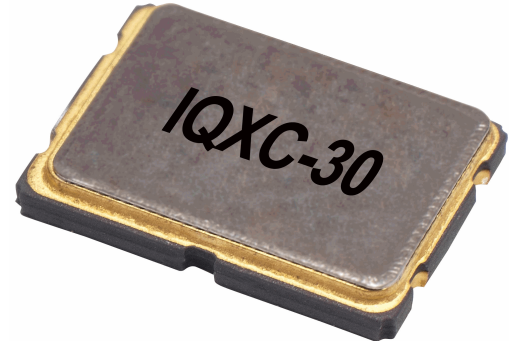
- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example
10.0MHz IQXC-30-B
30/50/-40 to 85C/8 FUND
- Qualified to AEC-Q200 Rev D

Compliance

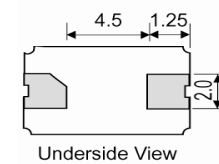
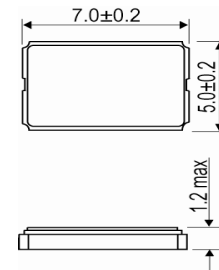
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

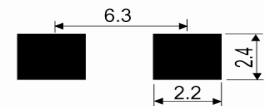
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Cutt Supplied on cut tape
Pack Size: 100



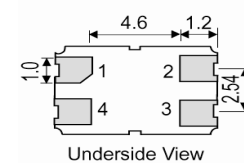
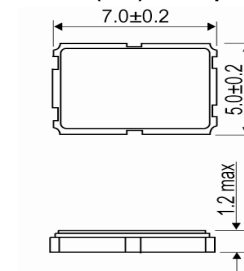
Outline (mm) -A = 2 pad



Solder Pad Layout



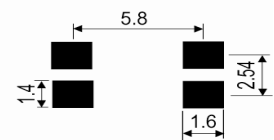
Outline (mm) -B = 4 pad



Pad Connections

- Crystal
- GND
- Crystal
- 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
6.0MHz	8.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	150 150
8.000001MHz	9.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	100 100
9.000001MHz	11.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	60 60
11.000001MHz	40.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	40 40
26.0MHz	80.0MHz	-20 to 125 -40 to 85	±50 ±15	3rd Overtone	100 100

*Stability Maximum values ±100ppm

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