

ISSUE 2; March 2016

Description

- Industry standard package SMD crystal.
Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads. Lead wires are mounted onto a plastic former to create a gull wing mount. Suitable for Industrial applications qualified to AEC-Q200. Please see our HC49/4HSMX for standard stock alternative.

Frequency Parameters

- Frequency: 3.01MHz to 100.0MHz
- 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): 16.0pF
- 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
- Qualified to AEC-Q200

Ordering Information

- Frequency*
Model*
Frequency Tolerance (@25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone*
- Example
10.0MHz IQXC-33
30/50/-40 to 85C/16 FUND

Compliance

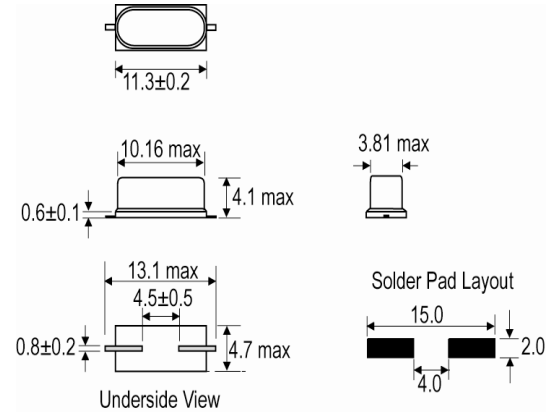
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

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)



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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
3.01MHz	4.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	300
4.000001MHz	5.5MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	130
5.500001MHz	8.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	80
8.000001MHz	40.0MHz	-20 to 125 -40 to 85	±50 ±15	Fundamental	50
26.0MHz	100.0MHz	-20 to 125 -40 to 85	±50 ±15	3rd Overtone	100

*Stability Maximum values ±100ppm

*This document was correct at the time of printing; please contact your local sales office for the latest version.
[Click to view latest version on our website.](#)*

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