



ISSUE 2; February 2012 - RoHS 2011/65/EU

Description

Resistance welded, hermetically sealed metal package sealed in an inert atmosphere with glass to metal seals securing the lead wires and suitable for automotive applications. Qualified to AEC-Q200 and available with TS16949 release.

Holders suffixed '-3L' have a centre third wire which grounds the case.

Holders suffixed 'Gull-Wing' have a metal jacket for surface mounting.

Frequency Range

- Frequency 3.0 to 100.0Mhz
- Frequency Tolerance ±10ppm to ±50ppm

General Specification

- Load Capacitance (CL) 10.0pF to 75.0pF
- Drive Level 50µW standard
- Ageing ±5ppm max per year @ 25°C
- Shunt Capacitance (C0) 7pF max

Operating Temperature Ranges

- 40 to 125°C
- 40 to 85°C

Environmental Parameters

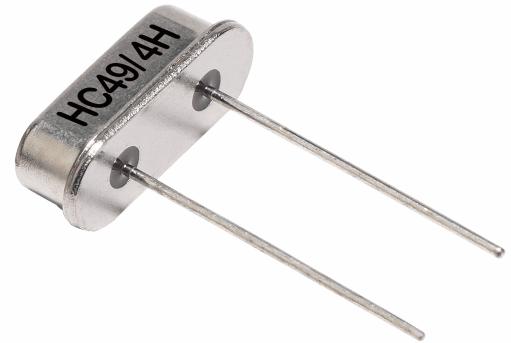
- Storage Temperature Range: -40 to 150°C
- Qualified to AEC-Q200

Ordering Information

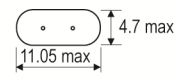
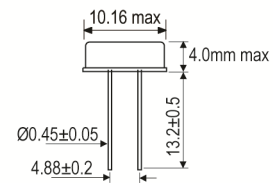
- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- (*minimum required)
- Example
10.0MHz HC49/4H AUTO
50/100/-40 to 125C/16 FUND

Packing Details

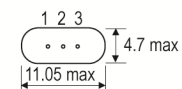
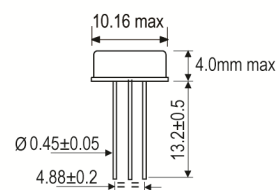
- Pack Style: **Bulk** Loose in bulk pack
Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-468-C
Pack Size 1,000
- Alternative packing options available



Outline (mm)



-3L = 3 Lead



Pin Connections
1. Crystal
2. Case & GND
3. Crystal

Sales Office Contact Details:

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Electrical Specification - maximum limiting values

Frequency Range	Frequency Tolerance @ 25°C	Stability		Temperature Range	ESR Max	Vibration Mode
		Min	Max			
3.0 to <4.0MHz	±10 to ±50ppm	±15ppm ±50ppm	±100ppm	-40 to 85°C -40 to 125°C	300Ω	Fundamental
4.0 to <5.5MHz	±10 to ±50ppm	±15ppm ±50ppm	±100ppm	-40 to 85°C -40 to 125°C	130Ω	Fundamental
5.5 to <8.0MHz	±10 to ±50ppm	±15ppm ±50ppm	±100ppm	-40 to 85°C -40 to 125°C	80Ω	Fundamental
8.0 to <40.0MHz	±10 to ±50ppm	±15ppm ±50ppm	±100ppm	-40 to 85°C -40 to 125°C	50Ω	Fundamental
26.0 to <100.0MHz	±10 to ±50ppm	±15ppm ±50ppm	±100ppm	-40 to 85°C -40 to 125°C	100Ω	3RD Overtone

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

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