

HC49/4H AUTO

ISSUE 2; 18 JANUARY 2012 - RoHS 2002/95/EC

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.
- Variant '-3L' have a centre third wire which grounds the case.
- Variant 'Gull-Wing' have a metal jacket for surface mounting.

General Specifications

- Load Capacitance (CL): 16pF standard
- Drive Level: 50µW standard
- Ageing: ±5ppm max per year at 25°C
- Shunt Capacitance (C0): 7pF max

Standard Frequency Tolerances

- ±10ppm to ±50ppm

Standard Frequency Stabilities

- ±15ppm to ±100ppm

Operating Temperature Ranges

- 40 to 85°C
- 40 to 125°C

Storage Temperature Range

- 40 to 150°C

Environmental

- Qualified to AEC-Q200

Packaging

- Loose in bulk pack, 100pcs per bag
- Tape and reel in accordance with EIA-468-C, 1kpcs per reel (please see Application Notes)

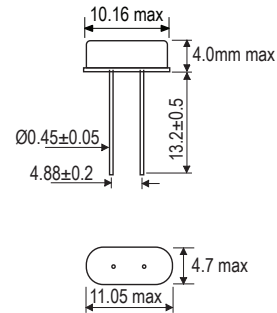
Ordering Information (*minimum required)

- Frequency*
- Model*
- Variant*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*

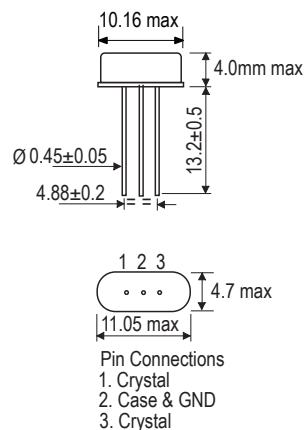
Example

- 10.00MHz HC49/4H AUTO
50/100/-40 to 125C/16 FUND

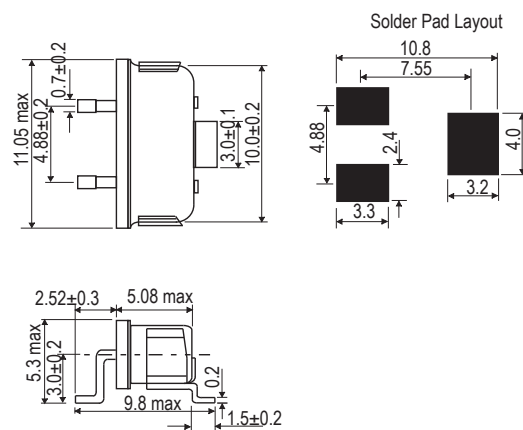
Outline (mm) Standard 2-Lead Device HC49/4H AUTO



Outline (mm) 3-Lead Device HC49/4H AUTO - 3L



Outline (mm) Gull-Wing Device HC49/4H AUTO - Gull-Wing





Electrical Specification - maximum limiting values

| Frequency Range | Frequency Tolerance @25°C ±2°C | Operating Temperature Range | Frequency Stability Available Over Operating Temperature Range | | ESR Max | Vibration Mode |
|------------------|-----------------------------------|--------------------------------|---|---------|------------|------------------------|
| | | | Minimum | Maximum | | |
| 3.01 to 4.0MHz | ±10ppm to ±30ppm | -40 to 85°C | ±15ppm | ±50ppm | 300Ω | Fundamental AT cut |
| | ±20ppm to ±50ppm | -40 to 125°C | ±50ppm | ±100ppm | | |
| >4.0 to 5.5MHz | ±10ppm to ±30ppm | -40 to 85°C | ±15ppm | ±50ppm | 130Ω | |
| | ±20ppm to ±50ppm | -40 to 125°C | ±50ppm | ±100ppm | | |
| >5.5 to 8.0MHz | ±10ppm to ±30ppm | -40 to 85°C | ±15ppm | ±50ppm | 80Ω | |
| | ±20ppm to ±50ppm | -40 to 125°C | ±50ppm | ±100ppm | | |
| >8.0 to 40.0MHz | ±10ppm to ±30ppm | -40 to 85°C | ±15ppm | ±50ppm | 50Ω | |
| | ±20ppm to ±50ppm | -40 to 125°C | ±50ppm | ±100ppm | | |
| 26.0 to 100.0MHz | ±10ppm to ±30ppm | -40 to 85°C | ±15ppm | ±50ppm | 100Ω | 3rd Overtone AT cut |
| | ±20ppm to ±50ppm | -40 to 125°C | ±50ppm | ±100ppm | | |

Note. For any other frequencies / specifications please contact our sales offices

