

ISSUE 17; July 2016

Description

- Industry standard low cost SMD version of the HC49/4H 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
Low profile versions available please contact our sales offices for details
Stock parts available

Frequency Parameters

- Frequency 3.2MHz to 100.0MHz
- Frequency Tolerance $\pm 10.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Tolerance Condition @ 25°C $\pm 2^\circ\text{C}$
- Frequency Stability $\pm 10.00\text{ppm}$ to $\pm 500.00\text{ppm}$
- Ageing $\pm 5\text{ppm typ per year @ } 25^\circ\text{C}$

Electrical Parameters

- Load Capacitance (CL) 10.0pF to 75.0pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 500 μW max

Operating Temperature Ranges

- 10 to 60°C
- 20 to 70°C
- 30 to 80°C
- 40 to 85°C
- 55 to 105°C

Environmental Parameters

- Shock: 981m/s², 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s², 30mins in 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 125°C

Ordering Information

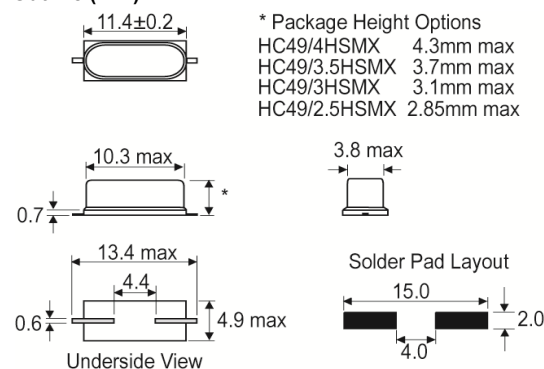
- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- (*minimum required)
- Example
10.00MHz HC49/4HSMX
50/50/-40 to 85C/10 FUND

Compliance

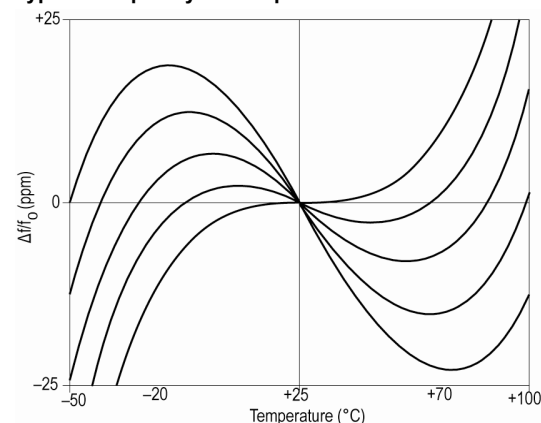
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Typical Frequency vs Temperature Curves



Sales Office Contact Details:

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Packaging Details

- Pack Style: Bulk Loose in bulk pack
 Pack Size: 100
- Pack Style: Cutt In tape, cut from a reel
 Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
 Pack Size: 1,000

Electrical Specification - maximum limiting values

| Frequency Min | Frequency Max | Temperature Range | Stability (min)* | Over Tone Order | ESR |
|---------------|---------------|--|----------------------------------|-----------------|-----|
| | | °C | ppm | | Ω |
| 3.2MHz | 3.999999MHz | -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 | ±10 ±10 ±15 ±15 ±100 | Fundamental | 300 |
| 4.0MHz | 5.499999MHz | -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 | ±10 ±10 ±15 ±15 ±100 | Fundamental | 130 |
| 5.5MHz | 7.999999MHz | -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 | ±10 ±10 ±15 ±15 ±100 | Fundamental | 60 |
| 8.0MHz | 39.999999MHz | -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 | ±10 ±10 ±15 ±15 ±100 | Fundamental | 40 |
| 26.0MHz | 100.0MHz | -10 to 60 -20 to 70 -30 to 80 -40 to 85 -55 to 105 | ±10 ±10 ±15 ±15 ±100 | 3rd Overtone | 100 |

*Stability Maximum values ±500ppm

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