



Description

- Industry standard 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
- Model: HC49/4HSMX
- Model Issue number: 17

Frequency Parameters

- Frequency: 12.0MHz
- Frequency Tolerance @ 25°C: ± 30.00 ppm
- Frequency Stability: ± 50.00 ppm
- Operating Temperature Range: -10.00 to 60.00°C
- Overtone Order: Fundamental
- Ageing: ± 5 ppm typ per year @ 25°C

Electrical Parameters

- Load Capacitance (C_L): 30.00pF
- Shunt Capacitance (C_0): 7pF max
- Drive Level: 500 μ W max
- ESR: 40 Ω max

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

Compliance

- RoHS Status: Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

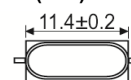
Packaging

- Pack Type: Reel: Tape & reel in accordance with EIA-481-D
- Pack Size: 1,000
- Alternative packing option available

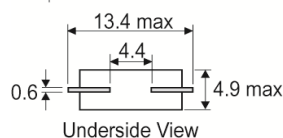
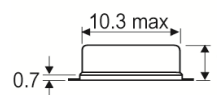
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Outline (mm)



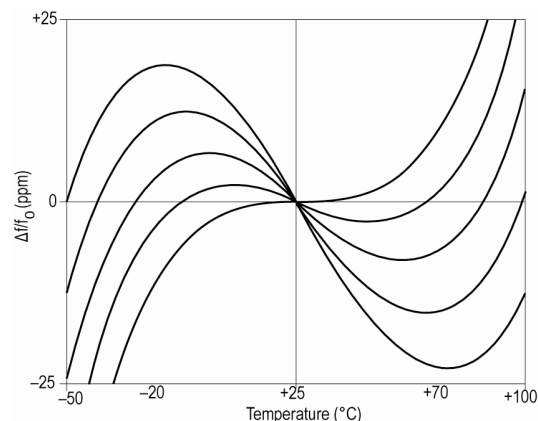
- * Package Height Options
- | | |
|--------------|------------|
| HC49/4HSMX | 4.3mm max |
| HC49/3.5HSMX | 3.7mm max |
| HC49/3HSMX | 3.1mm max |
| HC49/2.5HSMX | 2.85mm max |



Solder Pad Layout



Typical Frequency vs Temperature Curves



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