



### 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: 20.0MHz
- Frequency Tolerance @ 25°C: ±30.00ppm
- Frequency Stability: ±50.00ppm
- Operating Temperature Range: -10.00 to 60.00°C
- Overtone Order: Fundamental
- Ageing: ±5ppm typ per year @ 25°C

### Electrical Parameters

- Load Capacitance (CL): 30.00pF
- Shunt Capacitance (Co): 7pF max
- Drive Level: 500µW max
- ESR: 40Ω max

### Environmental Parameters

- Shock: 981m/s<sup>2</sup>, 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s<sup>2</sup>, 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

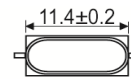
### Packaging

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

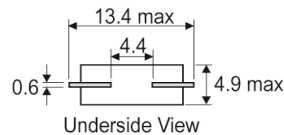
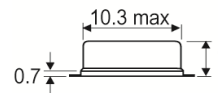
*This document is correct at the time of printing; please contact your local office for the latest version.*



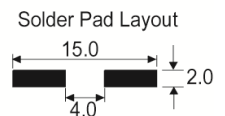
### Outline (mm)



- \* 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

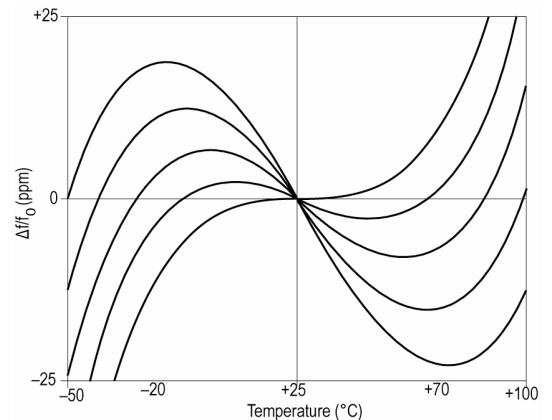


Underside View



Solder Pad Layout

### Typical Frequency vs Temperature Curves



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