

## Customer Part:

### 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 4.0MHz
- Frequency Tolerance  $\pm 30.00\text{ppm}$
- Tolerance Condition  $@25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-20.00$  to  $70.00^{\circ}\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm typ per year } @25^{\circ}\text{C}$

### Electrical Parameters

- Load Capacitance (CL) 20.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 500 $\mu\text{W}$  max
- ESR 130.00 $\Omega$  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  $125^{\circ}\text{C}$
- RoHS Terminations
- RoHS Reflow Temp  $260^{\circ}\text{C}$  max for 10s max

### Compliance

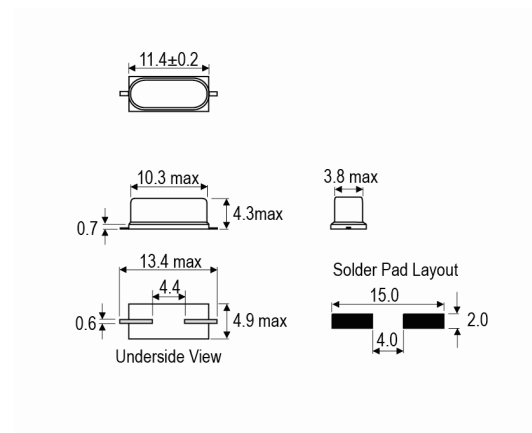
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

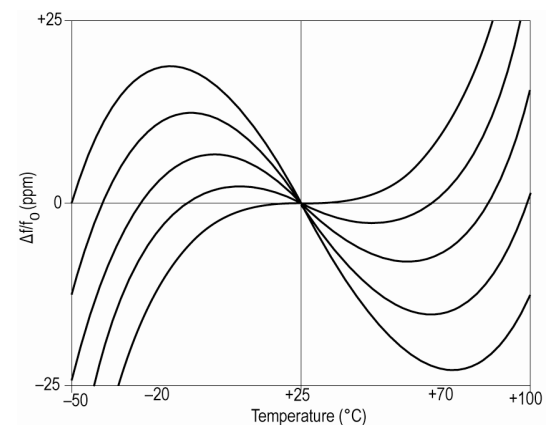
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000
- Alternative packing option available



### Outline (mm)



### Typical Frequency vs Temperature Curves



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