



## Quartz Crystal Specification

IQD Part No. + Packaging: LFX TAL017146Reel

Würth Part No. 830017146



### 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  $\pm 30.00$ ppm
- Tolerance Condition @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Stability  $\pm 50.00$ ppm
- Operating Temperature Range -10.00 to 60.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5$ ppm typ per year @ 25°C

### Electrical Parameters

- Load Capacitance (CL) 30.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 500 $\mu$ W max
- ESR 40.00 $\Omega$  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°C

### Manufacturing Details

- RoHS Terminations SnAgCu or Sn
- RoHS Reflow Temp 260degC 10s

### Compliance

- RoHS Status (2011/65/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

### USEFUL LINKS

#### Toolbox:

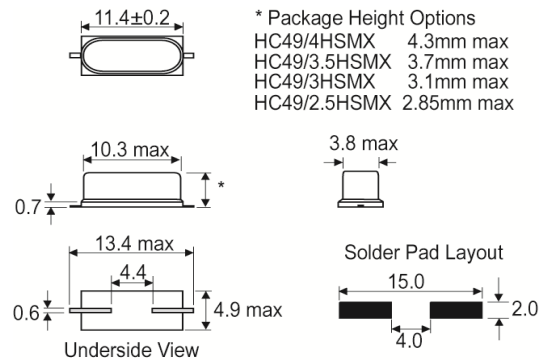
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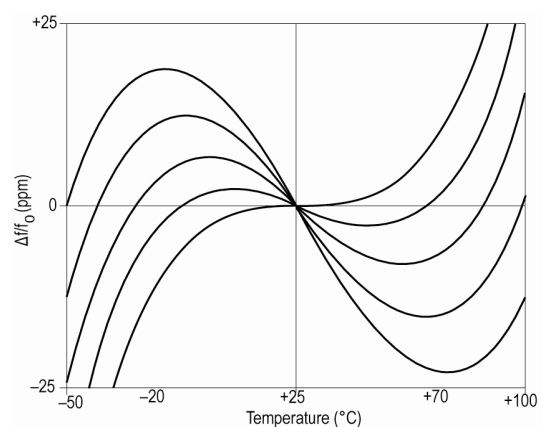
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### Outline (mm)



### Typical Frequency vs Temperature Curves



### CONTACT INFORMATION:

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