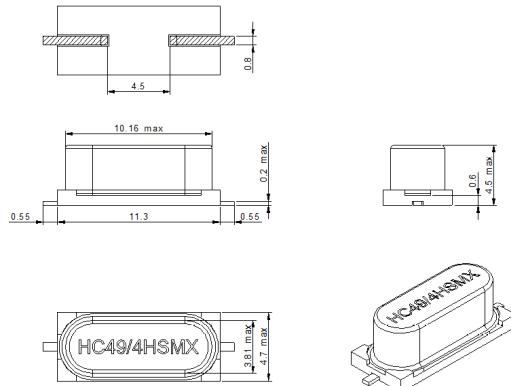


**Customer Part:****Description**

- 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 19

**Frequency Parameters**

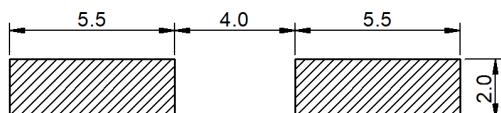
- Frequency 4.0MHz
- Frequency Tolerance  $\pm 30.00\text{ppm}$   
@25°C
- Tolerance Condition  $\pm 50.00\text{ppm}$
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range -10.00 to 60.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm typ per year}$  @25°C

**Outline (mm)****Electrical Parameters**

- Load Capacitance (CL) Series Resonant
- Shunt Capacitance (C0) 7pF max
- Drive Level 500 $\mu\text{W}$  max
- ESR 130.00 $\Omega$  max

**Environmental Parameters**

- Shock: MIL-STD-202 Method 213, Condition C, Half sine shock pulse peak acceleration of 100g, pulse duration 6ms.
- Vibration: MIL-STD-202 Method 204, 5g for 20 minutes, 12 cycles in each of the 3 orientations, 10~2000Hz
- Storage Temperature Range: -55 to 125°C

**Recommended Solder Pad Layout****Manufacturing Details**

- RoHS Terminations Sn, Ag & Cu
- RoHS Reflow Temp 260°C max for 10 seconds

**Compliance**

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

**Packaging Details**

- Tape & reel in accordance with EIA-481  
Quantities below the standard reel size to be supplied on cut tape.

Standard Pack Quantity: 1,000

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