# Quartz Crystal Specification

**Part No. + Packaging:** LFXTAL003166Reel

## 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:** 10.0MHz
- **Frequency Tolerance:** ±30.00ppm
- **Tolerance Condition:** @ 25°C ±2°C
- **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):** 16.00pF
- **Shunt Capacitance (C0):** 7pF max
- **Drive Level:** 500µW max
- **ESR:** 40.00Ω 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 (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**

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