QUARTZ CRYSTAL MHZ

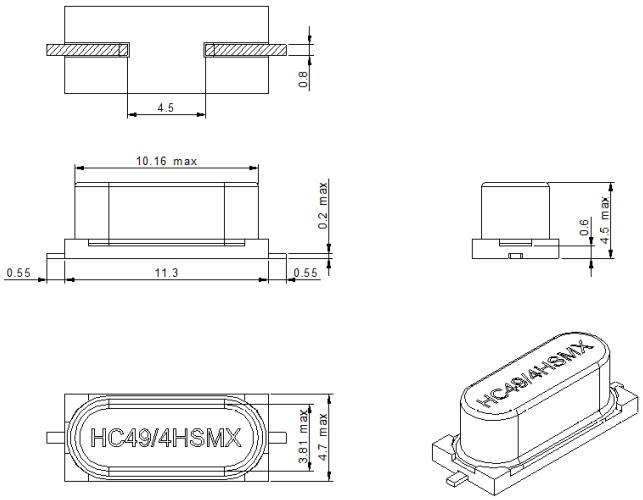
Part Number: 830050510 | HC49/4HSMX

AKA Number: LFXTAL050510

General Information

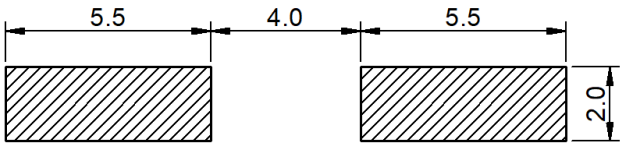
Industry standard SMD crystal.
Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads.
Lead wires are mounted onto a plastic former to create a gull wing mount.

Dimensions [mm]





Recommended Land Pattern [mm]



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Frequency Parameters

Frequency	8.0 MHz
Frequency Tolerance	± 30 ppm @25°C
Frequency Stability	± 50 ppm
Operating Temperature	-40 °C to 85 °C
Overtone Order	Fundamental
Ageing	± 5 ppm typ. per year @ 25 °C

Material Parameters

Termination Finish	Sn Ag Cu
Moisture Sensitivity Level (MSL)	Not Applicable

Manufacturing Details

Reflow: 260 °C max for 10 seconds max.

Electrical Parameters

Load Capacitance C_L	18 pF
Shunt Capacitance C_0	7 pF max.
Drive Level	500 µW max.
ESR	40 Ω max.

Environmental Parameters

Storage Temperature Range: -55 °C to 125 °C

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

Technical Standards

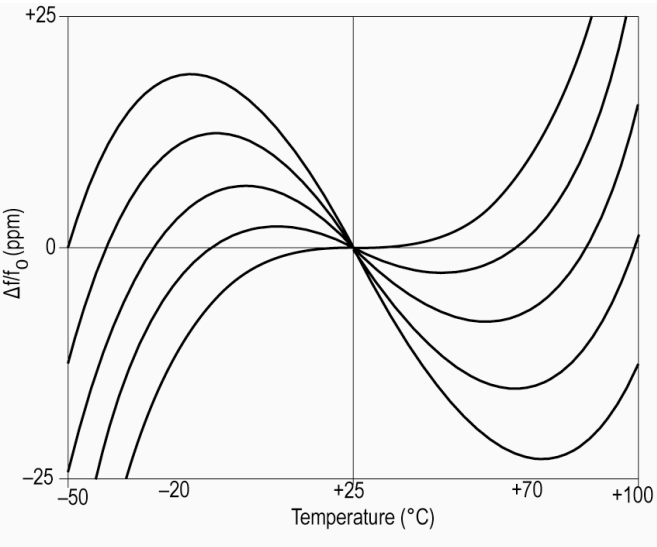
RoHS Status	2015/863/EU - Compliant
REACH Status	(EC)1907/2006 - Compliant

Packaging Details

Packaging SPQ	Tape & Reel 1000 pcs

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

Stability vs. Temperature



Company Address

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