



### 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 @ 25°C: ±30.00ppm
- Frequency Stability: ±50.00ppm
- Operating Temperature Range: -20.00 to 70.00°C
- Overtone Order: Fundamental
- Ageing: ±5ppm typ per year @ 25°C

### Electrical Parameters

- Load Capacitance (CL): 18.00pF
- Shunt Capacitance (Co): 7pF max
- Drive Level: 500µW max
- ESR: 40Ω 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

### Compliance

- RoHS Status: Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

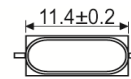
### Packaging

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

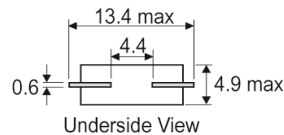
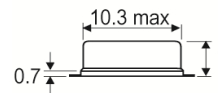
*This document is correct at the time of printing; please contact your local office for the latest version.*



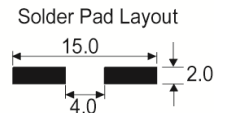
### Outline (mm)



- \* Package Height Options
- HC49/4HSMX: 4.3mm max
  - HC49/3.5HSMX: 3.7mm max
  - HC49/3HSMX: 3.1mm max
  - HC49/2.5HSMX: 2.85mm max

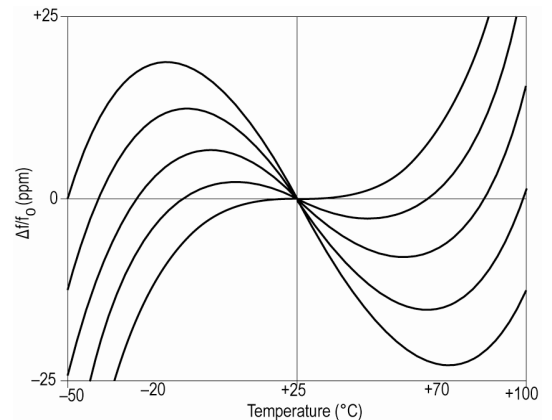


Underside View



Solder Pad Layout

### Typical Frequency vs Temperature Curves



### Sales Office Contact Details:

UK: +44 (0)1460 270200  
Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18  
USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [iqd manufacturer](#):*

Other Similar products are found below :

[LFXTAL071761CUTT](#) [LFMCXO063767BULK](#) [LFMCXO063773BULK](#) [LFOCXO063802BULK](#) [LFOCXO063809BULK](#)  
[LFTCXO063709BULK](#) [LFTCXO063710BULK](#) [LFTCXO063779BULK](#) [LFTCXO070028Cutt](#) [LFTVXO063701BULK](#)  
[LFTVXO063702BULK](#) [LFTVXO063703BULK](#) [LFTVXO063707BULK](#) [LFTVXO063791BULK](#) [LFXTAL003156](#) [LFMCXO063766BULK](#)  
[LFMCXO063771BULK](#) [LFOCXO063816BULK](#) [LFTCXO063713BULK](#) [LFTCXO063714BULK](#) [LFTCXO063716BULK](#)  
[LFTVXO063704BULK](#) [LFTVXO063705BULK](#) [LFTVXO063706BULK](#) [LFTVXO063789BULK](#) [LFTVXO063790BULK](#) [LFXTAL003113](#)  
[LFOCXO063809](#) [LFSPXO009581](#) [LFTCXO063784](#) [LFTVXO063786](#) [LFSPXO009686Bulk](#) [LFRBXO059244Bulk](#) [LFTVXO075802Cutt](#)  
[LFOCXO067293Bulk](#) [LFTCXO075792Cutt](#) [LFMCXO064079BULK](#) [LFSPXO071189](#) [LFOCXO067293](#) [LFXTAL012312BULK](#)  
[LFTCXO063780BULK](#) [LFSPXO056269CUTT](#) [LFOCXO063803BULK](#) [LFSPXO009592CUTT](#) [LFOCXO065520Bulk](#) [LFMISC070550Bulk](#)  
[LFSPXO025494Cutt](#) [LFMCXO064080BULK](#) [LFOCXO063804BULK](#) [LFSPXO019884BULK](#)