

**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 17

**Frequency Parameters**

- Frequency 20.0MHz
- Frequency Tolerance  $\pm 30.00\text{ppm}$
- Tolerance Condition @ 25°C  $\pm 2^\circ\text{C}$
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range -10.00 to 60.00°C
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm typ per year @ } 25^\circ\text{C}$

**Electrical Parameters**

- Load Capacitance (CL) 16.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level 500µW max
- ESR 40.00Ω max

**Environmental Parameters**

- Shock: 981m/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
- RoHS Terminations
- RoHS Reflow Temp 260°C max for 10s max

**Compliance**

- RoHS Status (2015/863/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



**Outline (mm)**



**Typical Frequency vs Temperature Curves**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: 0800 1808 443

France: 0800 901 383  
USA: +1.760.318.2824

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 [Crystals](#) category:*

*Click to view products by [IQD](#) manufacturer:*

Other Similar products are found below :

[MC405 32.0000K-R3:PURE SN](#) [7A-40.000MAAE-T](#) [MP1-8.0](#) [99-BU](#) [9B-15.360MBBK-B](#) [PTX-A2JM-10.000M](#) [9C-7.680MBBK-T](#) [H10S-12.000-18-EXT-TR](#) [AB-11.0592MHZ](#) [R38-32.768-12.5-5PPM-NPB](#) [BTD1062E05A-513](#) [C711980XFAS30XX](#) [21U15A-21.4MHZ](#) [RTX-781DF1-S-20.950](#) [LFX TAL066198Cutt](#) [9C-14.31818MBBK-T](#) [A-11.000MHZ-27](#) [SPT2A-.032768B](#) [SPT2A.032768G](#) [SSPT7F-9PF20-R](#) [FX325BS-38.88EEM1201](#) [MP-1-25.000MHZ-3L](#) [MP-1-6.000MHZ](#) [LFX TAL065253Cutt](#) [LFX TAL066431Cutt](#) [XT9S20ANA14M7456](#) [XT9SNLANA16M](#) [646G-24-2](#) [7A-24.576MBBK-T](#) [7B-30.000MBBK-T](#) [7A-14.31818MBBK-T](#) [6526-202-1501](#) [BTJ120E02C](#) [SG636PCE-20.000MC](#) [ABM3B-10.000MHZ-K-T](#) [3404](#) [CM315D32768EZFT](#) [C1E-24.000-7-2020-R](#) [C1E-19.200-12-1530-X-R](#) [C1E-16.000-12-1530-X-R](#) [ABM11-16.000MHZ-9-B1U-T](#) [FL5000014](#) [EUCA18-3.1872M](#) [425F35E027M0000](#) [17196](#) [MS3V-T1R-32.768kHz-7pF-20PPM-TA-QC-Au](#) [VXM7-1C1-16M000](#) [MS1V-T1K-32.768kHz-10pF-20PPM-TA-QC-Au](#) [MS3V-T1R-32.768kHz-9pF-20PPM-TA-QC-Au](#) [ECS-80-18-30-JGN-TR](#)