

ISSUE 17; October 2015

Description

 Industry standard low cost SMD version of the HC49/4H 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

Low profile versions available please contact our sales offices for details

Stock parts available

Frequency Parameters

Frequency

3.2MHz to 100.0MHz

Frequency Tolerance

10.00ppm to ±100.00ppm

25°C ±2°C

Frequency Stability

415.00ppm to ±500.00ppm

±5ppm typ per year @ 25°C

Electrical Parameters

Load Capacitance (CL)
 Shunt Capacitance (C0)
 Drive Level
 10.0pF to 75.0pF
 7pF max
 500µW max

Operating Temperature Ranges

- 0 to 50°C
- -10 to 60°C
- -20 to 70°C
- -30 to 80°C
- -40 to 85°C
- -55 to 105°C

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

Ordering Information

■ Frequency* Model*

Frequency Tolerance (@ 25°C)*

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Load Capacitance*

Overtone*

(*minimum required)

Example

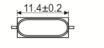
10.00MHz HC49/4HSMX 50/50/-40 to 85C/10 FUND

Compliance

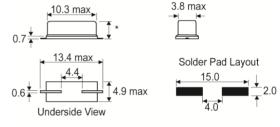
RoHS Status (2011/65/EU)
 REACh Status
 MSL Rating (JDEC-STD-033):
 Compliant
 Not Applicable



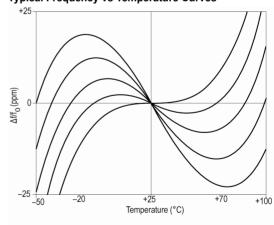
Outline (mm)



* 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



Typical Frequency vs Temperature Curves



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Quartz Crystal Specification HC49/4HSMX

Packaging Details

■ Pack Style: R250 Tape & reel of 250pcs

Pack Size: 250

■ Pack Style: R500 Tape & reel of 500pcs

Pack Size: 500

■ Pack Style: Bulk Loose in bulk pack

Pack Size: 100

■ Pack Style: Cutt In tape, cut from a reel

Pack Size: 100

■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 1,000

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (min)*	Over Tone Order	ESR
		°C	ppm		Ω
3.2MHz	3.999999MHz	0 to 50	±15	Fundamental	300
		-10 to 60	±20		
		-20 to 70	±20		
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±100		
4.0MHz	5.499999MHz	0 to 50	±15	Fundamental	130
		-10 to 60	±20		
		-20 to 70	±20		
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±100		
5.5MHz	7.999999MHz	0 to 50	±15	Fundamental	60
		-10 to 60	±20		
		-20 to 70	±20		
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±100		
8.0MHz	39.999999MHz	0 to 50	±15	Fundamental	40
		-10 to 60	±20		
		-20 to 70	±20		
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±100		
26.0MHz	100.0MHz	0 to 50	±15	3rd Overtone	100
		-10 to 60	±20		
		-20 to 70	±20		
		-30 to 80	±25		
		-40 to 85	±30		
		-55 to 105	±100		

^{*}Stability Maximum values ±500ppm

This document was correct at the time of printing; please contact your local sales office for the latest version. Click to view latest version on our website.

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