

ISSUE 15; July 2016

Description

Industry standard leaded package
 Resistance welded, hermetically sealed in an inert
 atmosphere, glass to metal seals on leads
 Variants available include but are not limited to 3L = a centre mounted third leg grounds the can
 Low profile versions available please contact our sales offices
 for details

Please see our HC49/4HSMX for a SMD alternative

2 Leg design

Frequency Parameters

■ Frequency 3.2MHz to 100.0MHz
■ Frequency Tolerance ±10.00ppm to ±100.00ppm
■ Tolerance Condition @ 25°C

Frequency Stability ±15.00ppm to ±500.00ppm
 Ageing ±5ppm typical per year at 25°C

Ageing: ±1ppm available on request

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

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

Ordering Information

■ Frequency*

Model*

Frequency Tolerance (@ 25°C)*

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Load Capacitance*

Overtone*

(*minimum required)

Example

10.0MHz HC49/4H

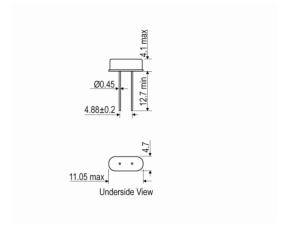
50/50/-40 to 85C/10 FUND

Compliance

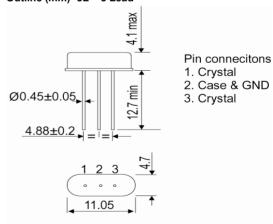
RoHS Status (2011/65/EU)
 REACh Status
 MSL Rating (JDEC-STD-033):
 Compliant
 Not Applicable



Outline (mm)



Outline (mm) -3L = 3 Lead



Sales Office Contact Details:

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Quartz Crystal Specification HC49/4H

Packaging Details

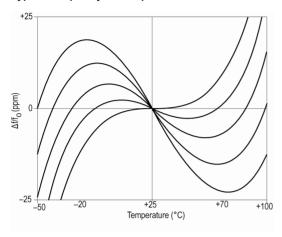
■ Pack Style: Reel Tape & reel in accordance with EIA-468-C

Pack Size: 1,000

Pack Style: Bulk Loose in Bulk pack

Pack Size: 100

Typical Frequency vs Temperature Curves





Quartz Crystal Specification **HC49/4H**

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
	max	°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	40.0MHz	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.