

Quartz Crystal

Resistance Welded HC-49S Low Profile Package



FEATURE

- Standard height 3.5mm, the part is compact at about one-fourth of the HC-49/U package
- A resistance weld completely sealed type
- Good stability and high reliability
- Copes with high density mounting and is the optimum for mass production



ELECTRICAL SPECIFICATIONS

Frequency Range	3.000MHz to 100.000MHz
Oscillation mode	See below table.
Load capacitance	Series, 16pF, 20pF, 30pF, or specify
Frequency tolerance	±30PPM at 25±2°C (Typical), or specify
Equivalent series resistance	See below table
Storage temperature range	-40°C--+85°C
Operating temperature range	-20°C--+70°C (typical), -10°C--+60°C, -40°C--+85°C, or specify
Frequency Stability	±50PPM -20°C--+70°C (typical), or specify
Parallel capacitance(Co)	7PF Max
Drive level	100 μW
Insulation resistance	More than 500MΩ AT DC100V

EQUIVALENT SERIES RESISTANCE (ESR) AND OSCILLATION MODE

Frequency(MHz)	E.S.R. (Ω)	Mode	Frequency(MHz)	E.S.R. (Ω)	Mode
3.000 ~ 5.999	150 Max	Fundamental / AT	24.000 ~ 40.320	30 Max	Fundamental / AT
6.000 ~ 7.999	60 Max	Fundamental / AT	24.000 ~ 29.999	100 Max	Third Overtone / AT
8.000 ~ 15.999	50 Max	Fundamental / AT	30.000 ~ 49.999	80 Max	Third Overtone / AT
16.000 ~ 30.000	30 Max	Fundamental / AT	50.000 ~ 100.000	60 Max	Third Overtone / AT

MECHANICAL CHARACTERISTICS

Resistance to shock:	±3PPM Max ±3Ω Max, Naturally drop it 3 times on a hard wood plate from 100cm height
Resistance to vibration:	±3PPM Max ±3Ω Max

Great Marking (HK) Industry Co., Limited.

Add: Unit 27EF, the Sky Castle, North of Jingtian, Futian District, Shenzhen 518034 CHINA

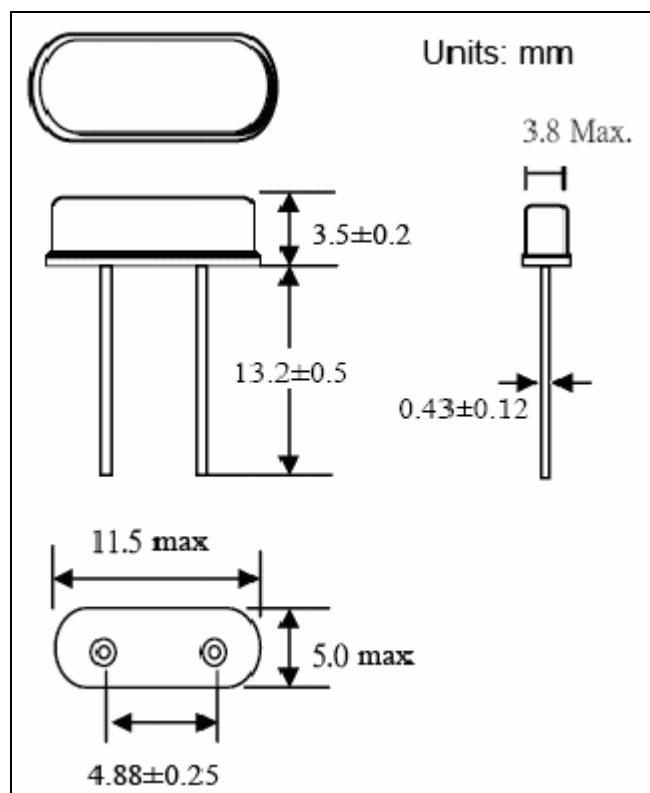
Tel: +86-755-83056036 83056901 83056902 Fax: +86-755-83056903

E-mail: sales@greatmarking.com Url: www.greatmarking.com

RELIABILITY

Aging	±3PPM Max/Year
Air tightness	
(1) Gross leak	should be immersed in hot water(90±5°C) for 5 minutes
(2) Fine leak	should be less than 5×10^{-8} at m cc/sec by helium leak detector

DIMENSION



PART NUMBER

GMK-HC-49S-	25.000	20	20	40	B	H
	Frequency 25.000 MHz	Frequency tolerance ±20ppm	Load capacitance 20pF 00: series	E.S.R.max e.g. 40Ωmax	operating temperature range A:-10-60°C B:-20-70°C C:-40-85°C	H: Normal (3.5mm) h: Low (2.5mm)