

# QUARTZ CRYSTAL

## HC-49U Series

### Features

- A resistance weld completely sealed type
- High frequency stability and reliability
- Excellent aging stability
- RoHS Compliant / Pb Free



### Specifications

Holder Type	HC-49U
Frequency Range	1.8432Mhz to 200.000Mhz
Operating Temperature Range	-10°C to +60°C typical or custom-designed
Storage Temperature Range	- 40°C to +85°C typical
Frequency Tolerance (at 25°C)	±30ppm, or specify
Frequency	±50ppm, or specify
Load Capacitance	8pF ~ 32pF or Series
Drive Level	1 ~ 1000μW (100μW typical)
Shunt Capacitance	7pF Max.
Insulation Resistance	500 MΩ Mini. at DC 100V
Aging (at 25°C)	±5ppm/ year Max.

### Equivalent Series Resistance (ESR) and Mode of Operation

Frequency Range	ESR(Ω)	Mode	Frequency Range	ESR(Ω)	Mode
1.8432 ~ 2.300 Mhz	500 Max.	Fundamental	8.0001 ~ 40.000	300 Max.	Fundamental
2.3001 ~ 3.000 Mhz	400 Max.	Fundamental	24.000 ~ 80.000	50 Max.	3 <sup>rd</sup> Overtone
3.0001 ~ 5.000 Mhz	90 Max.	Fundamental	80.000 ~ 150.00	150 Max.	5 <sup>th</sup> Overtone
5.0001 ~ 8.000 Mhz	60 Max.	Fundamental			

### How to order

Series	Frequency	Operating Temp.	Load capacitance	Frequency Tol.	Package
HC49U series	2.0Mhz	1= -10°C~+60°C	16=16pF	A = ± 5ppm	B = Bulk
HC49US series	3.0Mhz	2= -20°C~+70°C	20=20pF	B = ± 10ppm	R = Tape Reel
HC49SMD series	4.000Mhz	3= -40°C~+85°C	30=30pF	C = ± 15ppm	
			32=32pF	D = ± 20ppm	
			or specify	E = ± 30ppm	

**MSC**

Remark: Specifications subject to change without prior notice. Please confirm with our sales engineer.

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### Dimensions (mm)

