



**PRODUCTS**

**Crystal Unit (Through Hole)**

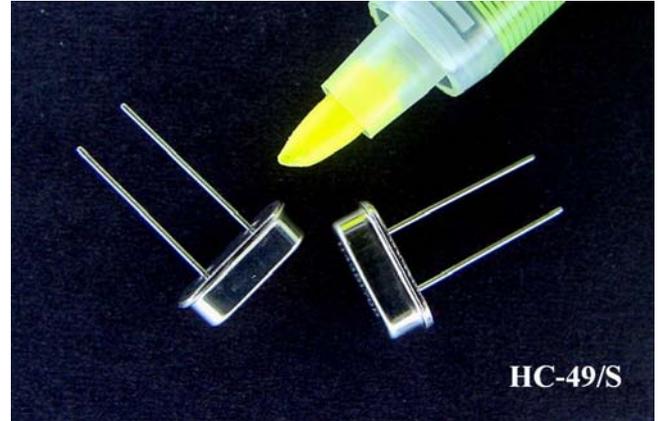
**Typical Applications:**

- Set-Top Box
- PCs
- Microcontrollers and Processors
- Consumer Electronic

**HC-49/S  
(S Series)**

**Part Number: S-Freq-CL**

**Example: S-4.000-18**



HC-49/S

**Specification**

HC-49/S

Part No.	Example
S-Freq-CL	S-4.000-18

Specification	HC-49/S
Frequency Range	3.5 to 66.0MHz
Mode of Oscillation	Fundamental / 3rd Overtone / 5th Overtone
Tolerance at 25°C	±10ppm to ±50ppm
Temperature Stability	±10ppm to ±50ppm
Operating Temperature Range	-10°C to +60°C / -40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Load Capacitance	8 to 32pF / Series
ESR	* See Table Below
Drive Level	100µW Max.
Aging	±5ppm/year Max.

\* HC-49/S ESR Table

Oscillation Mode	Frequency Range (MHz)	ESR (Ohm)
Fundamental	3.5 to 3.9	200 Max.
	4.0 to 7.9	150 Max.
	8.0 to 11.9	70 Max.
	12.0 to 40.0	50 Max.
3rd Overtone	24.0 to 30.0	40 Max.
5rd Overtone	30.0 to 66.0	80 Max.

**Dimension**

(Unit: mm)

