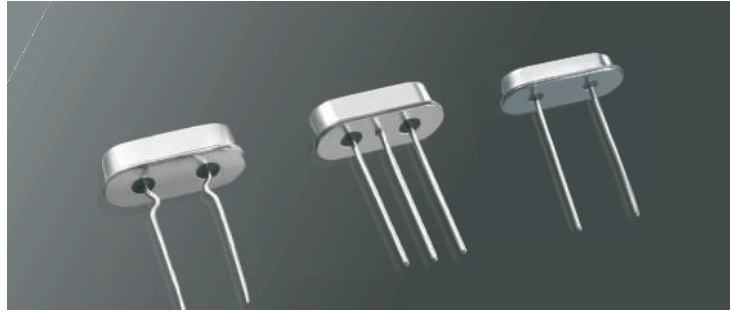




## Features

“AT” Strip Blank Technology  
Cost Effective  
High Stability with Temperature  
Wide Frequency Range  
Excellent Reliability  
Low Profile  
Excellent Aging Characteristics



## Specifications

Type		HC-49US(3.5mm),HC-49US1(2.5mm)
频率范围 Frequency Range(MHz)	AT Fundamental	3.579~35.000MHz
	BT Fundamental	20.000~60.000MHz
	3rd Overtone	30.000~90.000MHz
振动模式	Vibration Mode	AT/BT cut,Fundamental,3rd Overtone
调整频差 (ppm)	Frequency Tolerance (at 25°C)	±3~±50ppm
温度频差 (ppm)	Frequency Stability Over Temperature Range	See Table 1
储存温度 (°C)	Storage Temperature Range	-40°C ~ +85°C
等效电阻 (Ω)	Equivalent Series Resistance	See Table 2
静态电容 (pF)	Shunt Capacitance	7.0 pF Max
负载电容 (pF)	Load Capacitance	5~50pF or Series Resonance
绝缘电阻 (MΩ)	Insulation Resistance	≥500MΩ //DC100V±10V
激励功率 (μW)	Drive Level	0.01 μW~1000 μW
老化率 (ppm/y)	Aging	±2ppm/year, ±3ppm/year, ±5ppm/year

All specifications subject change without notice.

## Frequency Stability over Temperature Range (AT cut) (Table 1)

Temperature Range		±3ppm	±5ppm	±7ppm	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
		03	05	07	10	15	20	30	50
0~+50°C	A	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-5~+55°C	B	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-10~+60°C	C	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-20~+70°C	D	/	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-30~+85°C	E	/	/	Δ	Δ	Δ	Δ	Δ	Δ
-40~+85°C	F	/	/	/	/	Δ	Δ	Δ	Δ
-40~+105°C	G	/	/	/	/	Δ	Δ	Δ	Δ

# HC-49US (2L, 3L), HC-49US<sub>1</sub>(2L, 3L)

## ■ Equivalent Series Resistance (ESR) (Table 2)

Freq.Range(MHz)	Mode of Oscillation	ESR ( $\Omega$ Max)
3.570 ~ 3.999	AT.Fund	150
4.000 ~ 4.999	AT.Fund	120
5.000 ~ 5.999	AT.Fund	100
6.000 ~ 7.999	AT.Fund	90
8.000 ~ 9.999	AT.Fund	80
10.000 ~ 14.999	AT.Fund	60
15.000 ~ 35.000	AT.Fund	40
20.000 ~ 40.000	BT.Fund	40
30.000 ~ 90.000	3 <sup>rd</sup> Overtone	70

## ■ Options Available

Options Available	Item
V	Paper tape & reel packing
V	Centre third lead on top
V	Vinyl sleeve on HC-49S cover
V	3 <sup>rd</sup> in line lead base
V	Insulator both for 2 leads and 3 leads
V	Lead cut/Customer lead length options available
V	Laser marking
V	HC-49US with Jacket (metal jacket package)
V	Special C <sub>1</sub> or C <sub>0</sub> requirement
V	Special ESR

## ■ Dimension (Unit: mm)

