

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/SMD,HC-49US1/SMD
频率范围 Frequency Range(MHz)	AT Fundamental	3.579~35.000MHz
	BT Fundamental	20.000~60.000MHz
	3 rd Overtone	30.000~90.000MHz
振动模式 Vibration Mode	Vibration Mode	AT/BT cut,Fundamental,3 rd Overtone
调整频差 (ppm) Frequency Tolerance (at 25°C)	Frequency Tolerance (at 25°C)	± 3 ~ ± 50ppm
温度频差 (ppm) Frequency Stability Over Temperature Range	Frequency Stability Over Temperature Range	See Table 1
储存温度 (°C) Storage Temperature Range	Storage Temperature Range	-40°C ~ + 85°C
等效电阻 (Ω) Equivalent Series Resistance	Equivalent Series Resistance	See Table 2
静态电容 (pF) Shunt Capacitance	Shunt Capacitance	7.0 pF Max
负载电容 (pF) Load Capacitance	Load Capacitance	5-50pF or Series Resonance
绝缘电阻 (MΩ) Insulation Resistance	Insulation Resistance	≥ 500M Ω //DC100V ± 10V
激励功率 (μ W) Drive Level	Drive Level	0.01 μ W ~ 1000 μ W
老化率 (ppm/y) Aging	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 03	±5ppm 05	±7ppm 07	±10ppm 10	±15ppm 15	±20ppm 20	±30ppm 30	±50ppm 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/SMD (2L, 3L), HC-49US₁/SMD (2L, 3L)

■ Equivalent Series Resistance (ESR) (Table 2)

Freq. Range (MHz)	Mode of Oscillation	ESR (Ω 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 rd Overtone	70

- **Options Available**

Options Available	Item
V	Tape & reel packing/ammo packing
V	3 rd in line lead base;3 rd lead centred on the base of 49US/SMD
V	Laser marking
V	Special C _r or C _o requirement
V	Special ESR

■ **Dimension (Unit: mm)**

