

HC-49US/SMD (4.0mm)

HC-49US/SMD (3.0mm)

■ 产品特性 Feature

- “AT”Strip Blank Technology
- Cost Effective
- High Stability With Temperature
- Space Saving Design
- Wide Frequency Range
- Excellent Reliability
- Low Profile
- Excellent Aging Characteristics



■ 部品编码指南 Part Number Guide

SZJF	4.000M	9S	18	1	10	L	T&R
Frequency	Package Type	Load Capacitance	Mode of Oscillation	Frequency Tolerance(25°C)	Available Option	Package Option	
	9U:HC-49/U 9T:HC-49/T 9S:HC-49/S OU:HC-50/U	SR: Series 18:18pF	1:Fundamental 3:3 rd Overtone 5:5 th Overtone	10:± 10ppm 30:± 30ppm	L:Cut Lead I: Insulator Tab G:Gull Wing J:Jacket X:Others,Pls Specify	B:Bulk T&R:Tape & Reel	

■ 技术 Specifications

Type 盒型	HC-49US/SMD (4.0mm), HC-49US/SMD (3.0mm)	
标称频率 Frequency range(MHz)	AT Fundamental	3.579 ~ 35MHz
	BT Fundamental	20 ~ 40MHz
	3rd Overtone	25 ~ 90 MHz
振动模式	Vibration Mode	AT/BT cut, Fundamental, 3rd Overtone
调整频差 (ppm)	Frequency Tolerance (at 25°C)	± 5ppm ~ ± 50ppm
温度频差 (ppm)	Frequency Stability Over Temperature Range	See Table 1
储存温度 (°C)	Storage Temperature Range	-40°C to ± 85°C
等效电阻 (Ω)	Equivalent Series Resistance	See Table 2
静电容 (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 μ w ~ 1000 μ w
老化率 (ppm/y)	Aging	± 2ppm/year, ± 3ppm/year, ± 5ppm/year,

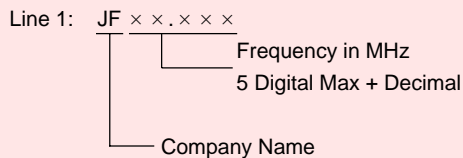
■ 温度频差 Frequency Stability Over Temperature Range (AT cut) (Table 1)

Temperature Range	± 3	± 5	± 7	± 10	± 15	± 20	± 30	± 50
	1	2	3	4	5	6	7	8
-10 - 60°C	A Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-20 - 60°C	B	Δ	Δ	Δ	Δ	Δ	Δ	Δ
0 - 70°C	C	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-10 - 70°C	D	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-20 - 70°C	E	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-30 - 60°C	F		Δ	Δ	Δ	Δ	Δ	Δ
-20 - 85°C	G			Δ	Δ	Δ	Δ	Δ
-30 - 70°C	H			Δ	Δ	Δ	Δ	Δ
-30 - 85°C	I			Δ	Δ	Δ	Δ	Δ
-40 - 85°C	J				Δ	Δ	Δ	Δ
-40 - 90°C	K					Δ	Δ	Δ
-40 - 105°C	L						Δ	Δ

■ 等效电阻 Equivalent Series Resistance (ESR) (Table 2)

Freq. Range (MHz)	Mode of Oscillation	ESR(Ω Max)
3.570 - 3.999	AT Fundamental	150
4.000 - 4.999	AT Fundamental	130
5.000 - 5.999	AT Fundamental	120
6.000 - 7.999	AT Fundamental	100
8.000 - 8.999	AT Fundamental	80
10.000 - 14.999	AT Fundamental	60
15.000 - 35.000	AT Fundamental	40
20.000 - 40.000	BT Fundamental	40
25.000 - 90.000	3rd Overtone	70

■ 产品标识 Marking specifications



■ 其它选项 Options Available

Options Available	Item
V	Tape & Reel Packing
V	Centre Third Lead on Top
V	Laser Marking
V	HC-49US SMD with Jacket (Metal Jacket Package)
V	Special Height for HC49US
V	Special C ₁ or C ₀ Requirement
V	Special ESR

■ 外形尺寸 Dimension(Unit: mm)

