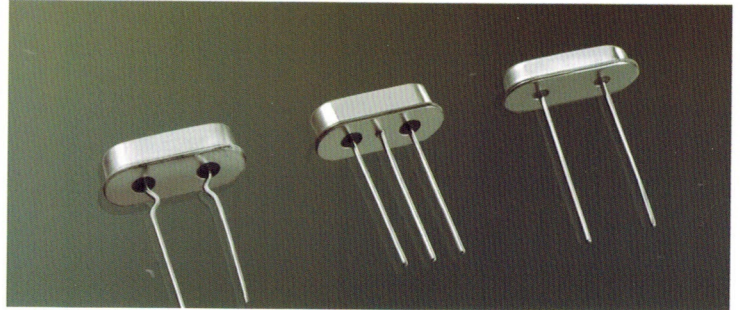


CRYSTAL RESONATOR HC-49/S

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	3.072 ~ 35.000MHz
	BT Fundamental	20.000 ~ 60.000MHz
	3rd Overtone	30.000 ~ 90.000MHz
振动模式 Vibration Mode	Vibration Mode	AT/BT cut, Fundamental, 3rd 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	≥500MΩ //DC100V ± 10V
激励功率 (μW) Drive Level	Drive Level	0.01 μW ~ 1000 μW
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	±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

■ Equivalent Series Resistance (ESR) (Table 2)

Freq.Range(MHz)	Mode of Oscillation	ESR (Ω Max)
3.072 ~ 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	Paper tape & reel packing
V	Centre third lead on top
V	Vinyl sleeve on HC-49S cover
V	3 rd 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 ₁ or C ₀ requirement
V	Special ESR

■ Dimension (Unit: mm)

