

6A (HC-49U)

[10.7×4.5×13.2 mm]

Thru-hole Type

Fund. /3rd O.T. /5th O.T.

Tolerance

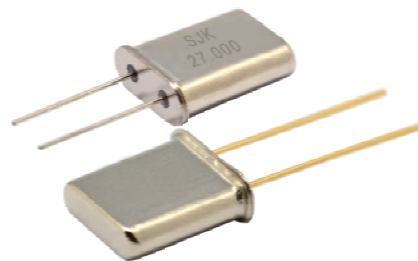
±10ppm ~ ±50ppm

Frequency Range

1MHz~150MHz

Features

- Resistance welded type crystal units
- Wide frequency range from 1MHz to 150MHz
- Lower cost and highly mass production capability
- High stability and reliability with temperature
- Ideal for large pullability application
- Applications: TV, STB, LCDM, Data communication, CPU, Memory, Cable modem, etc.
- RoHS Compliant / Pb-Free



Standard Specifications

Item / Type	HC-49U (10.7×4.5×13.2 mm)
Frequency Range	1~150 MHz(Fund. /3rd /5th)
Load Capacitance	8pF~32pF, or specify
Drive Level	100 μW typical (500 μW max.)
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm, ±30ppm, or specify
Aging	±5ppm / Year (max.)
Storage Temperature Range	-55°C~+125°C

ESR (Equivalent Series Resistance)

Fundamental		3rd Overtone		5th Overtone	
Frequency Range	E.S.R	Frequency Range	E.S.R	Frequency Range	E.S.R
1~3MHz	350 Ω max.	20~25MHz	50 Ω max.	70~100MHz	40 Ω max.
3~3.5MHz	150 Ω max.	25~30MHz	40 Ω max.	100~125MHz	60 Ω max.
3.5~4MHz	90 Ω max.	30~75MHz	40 Ω max.	125~150MHz	80 Ω max.
4~7MHz	60 Ω max.	75~100MHz	60 Ω max.		
7~15MHz	35 Ω max.				
15~30MHz	25 Ω max.				

Frequency stability Vs Operating temperature range

Temp. (°C)	ppm						
	±5	±10	±15	±20	±25	±30	±50
-10~+60	○	○	○	○	○	○	○
-20~+70	▲	○	○	○	○	○	○
-40~+85	×	▲	○	○	○	○	○

▲: Conditional

○: Available

×: Not available

6A (HC-49U)

[10.7×4.5×13.2 mm]

Thru-hole Type

Fund. /3rd O.T. /5th O.T.

Tolerance

±30ppm

Frequency Range

1MHz~150MHz

Outline Dimensions (Unit: mm)

6A (HC-49U Quartz Crystal Units)

