

# HC-49/U Thru-hole TYPE



## Application of Crystal

- ▶ Best choice for mother board
- ▶ USB
- ▶ LAN card
- ▶ Router
- ▶ Switch

## Features

- ▶ Low cost
- ▶ Industry standard package
- ▶ High reliability and stability crystal
- ▶ Wide frequency range and calibration tolerances available
- ▶ RoHS compliant / Pb free



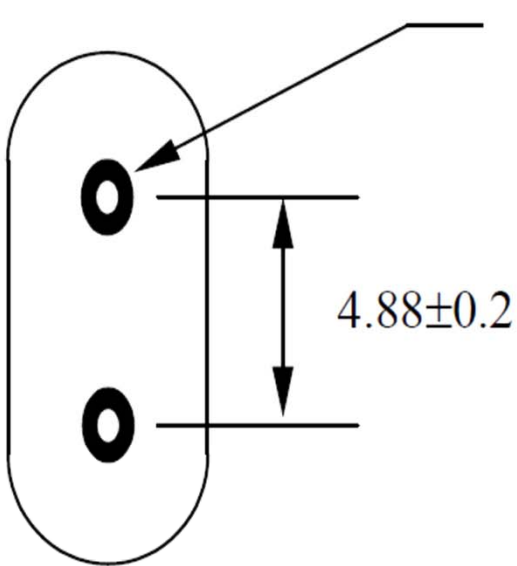
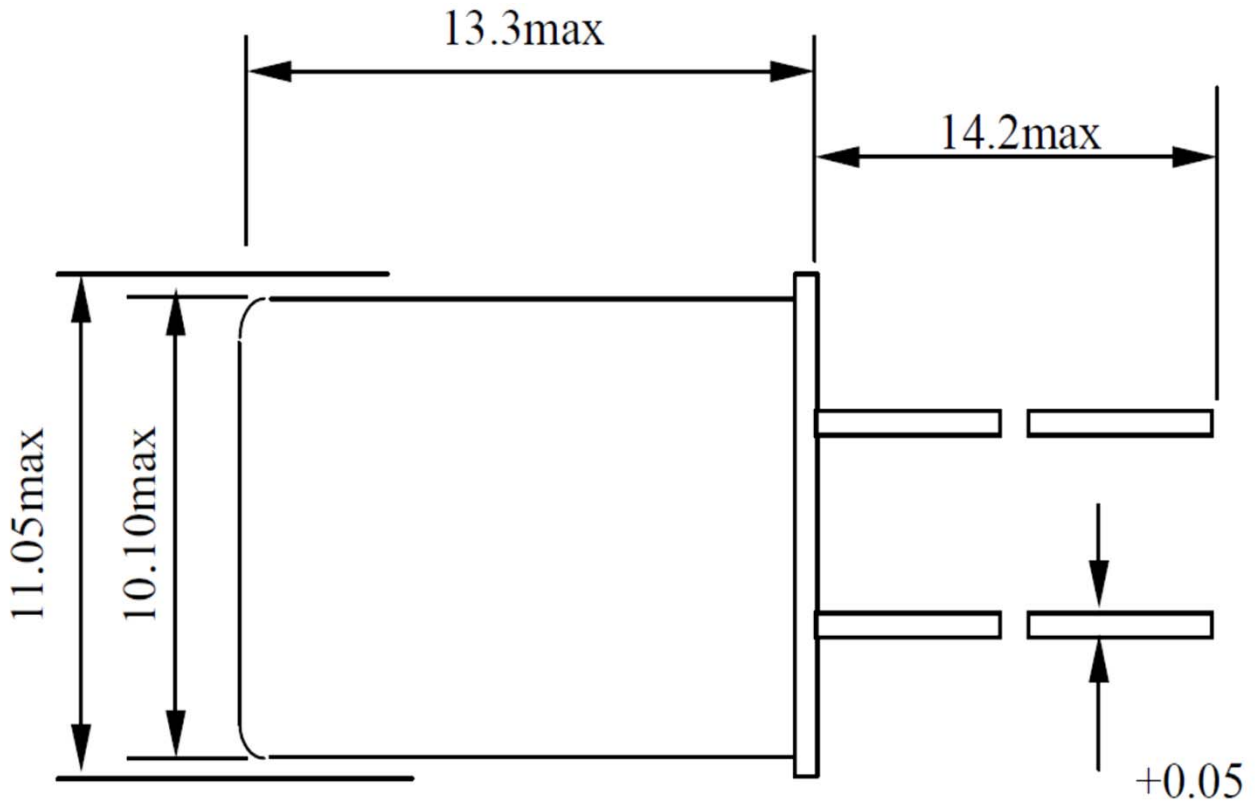
## Electrical Specification

NO	Model	HC-49/U Thru-hole TYPE
1	Frequency Range	1.500 ~ 160.000 MHz
2	Frequency Tolerance at 25°C±2°C	±10 ~ ±30 ppm (TYP.)
3	Frequency Stability Over Oper Temp Range	±10 ~ ±30 ppm (TYP.)
4	Operating Temp Range	-10°C~ +60°C, -20°C~ +70°C or customer requirement
5	Load Capacitance	8 pF ~ 32 pF, series or special
6	Shunt Capacitance	7 pF Max.
7	Drive Level	0.1uW ~ 1000uW(TYP.: 100uW)
8	Insulation Resistance	500MΩ min / DC 100V±15V
9	Oscillation Mode	Fundamental, 3rd & 5th overtone
10	Measure Instrument	S&A 250B

## Equivalent Series Resistance(ESR) VS Frequency

NO	Frequency (MHz)	Oscillation Mode	HC-49/U Thru-hole TYPE
1	1.5 ~ 1.99	Fundamental	700Ω max.
2	2.0 ~ 2.99	Fundamental	500Ω
3	3.0 ~ 3.19	Fundamental	300Ω
4	3.2 ~ 3.99	Fundamental	150Ω
5	4.0 ~ 4.49	Fundamental	90Ω
6	4.5 ~ 4.99	Fundamental	70Ω
7	5.0 ~ 6.99	Fundamental	50Ω
8	7.0 ~ 9.99	Fundamental	35Ω
9	10.0 ~ 36.0	Fundamental	25Ω
10	20.0 ~ 24.99	3rd overtone	45Ω
11	25.0 ~ 100.0	3rd overtone	40Ω
12	70.0 ~ 160.0	5rd overtone	70Ω

Dimensions (mm):



Glass Insulator

