## CRYSTAL UNIT











# HC-49US DIP

# X49SD25MSD2SC

## **Applications**

#### **Features**

- Industrial Control Consumers.
- Dimensions:11.5 x 4.50 x3.68 mm.
- Frequency range: 25 MHz
- Through hole type crystal units.
- A great number of standard frequencies.

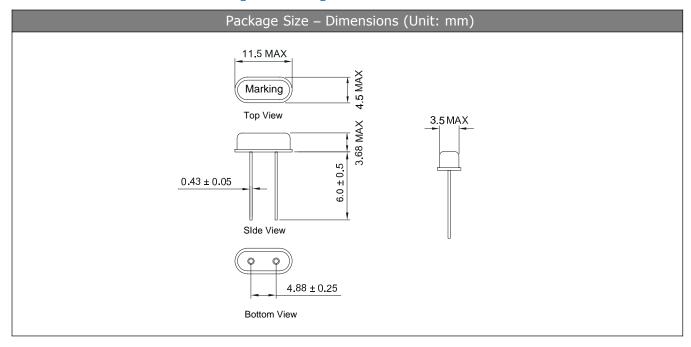
#### **Specifications**

Standard Frequency	25 MHz	
Vibration Mode	AT Fundamental	
Load Capacitance	20pF	
Frequency Tolerance (at 25 ℃ )	±20ppm	
Frequency Versus Temperature Characteristics	±20ppm, or specify	
Operating Temperature	-20~+70℃	
Storage Temperature	-40~+85℃ or specify	
Shunt Capacitance	7 pF Max.	
Level of Drive	1∼500µWMax.(100uW typical)	
Aging (at 25 ℃ )	±3ppm/year Max.	

#### Equivalent Series Resistance(ESR)

Fundamental				
3.2768 ~ 4MHz	180 Ω Max.	6 ~ 17 MHz	80 Ω Max.	
4 ~ 5MHz	120 Ω Max.	7 ~ 10 MHz	60 Ω Max.	
5 ~ 6 MHz	100 Ω Max.	10 ~ 27MHz	40 Ω Max.	
3rd Overtone				
20 ~ 25 MHz	100 Ω Max.	25 ~ 64 MHz	80 Ω Max.	

### Dimensions and Patterns [unit:mm]



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#### Solder ability

Dip terminals in RMA flux for  $5\pm0.5$  seconds. Under room temperature. Dip terminals in a  $260\pm5^{\circ}\text{C}$  solder bath for  $5\pm0.5$  seconds. The solder shall leave an undipped terminal length of 2 mm at their base .

#### Resistance to Soldering Heat

Dip terminals in a 260 $\pm$ 5°C solder bath for 10 $\pm$ 0.5 seconds. The solder shall leave an undipped terminal length of 2 mm at their base.

#### **Packing**

Deposit 200 pieces of the quartz crystal units in a polyethylene bag, and pack enough bags in a packing case to make a 10,000 pieces package. The packing format may be subject to change by quantity.