

#### Applications

#### Features

- Industrial Control Consumers.
- Dimensions:11.5 x 4.50 x3.68 mm.
- Frequency range:3.2768~64MHz
- Through hole type crystal units.
- A great number of standard frequencies.

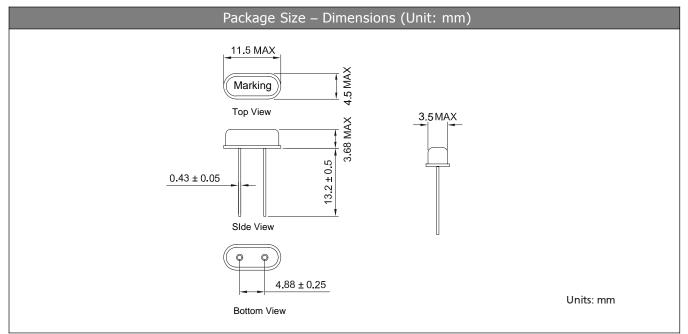
# Specifications

Standard Frequency	3.2768~64 MHz		
Vibration Mode	AT Fundamental		
Load Capacitance	12pF, 20pF, or specify		
Frequency Tolerance (at 25 $^\circ \!\! \mathbb{C}$ )	±10ppm, ±20ppm, or specify		
Frequency Versus Temperature Characteristics	±20ppm, or specify		
Operating Temperature	-20~+70℃,-40~+85℃,or specify		
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	<b>40</b> 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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# CRYSTAL UNIT HC-49US DIP

## Solder ability

Dip terminals in RMA flux for  $5\pm 0.5$  seconds. Under room temperature. Dip terminals in a  $260\pm 5^{\circ}$ C solder bath for  $5\pm 0.5$  seconds. The solder shall leave an undipped terminal length of 2 mm at their base .

## **Resistance to Soldering Heat**

Dip terminals in a  $260\pm5^{\circ}$ C solder bath for  $10\pm0.5$  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.