

# CRYSTAL UNIT

## HC-49US DIP



### Applications

- Industrial Control Consumers.

### Features

- Dimensions: 11.5 x 4.50 x 3.68 mm.
- Frequency range: 3.2768~64MHz
- Through hole type crystal units.
- A great number of standard frequencies.

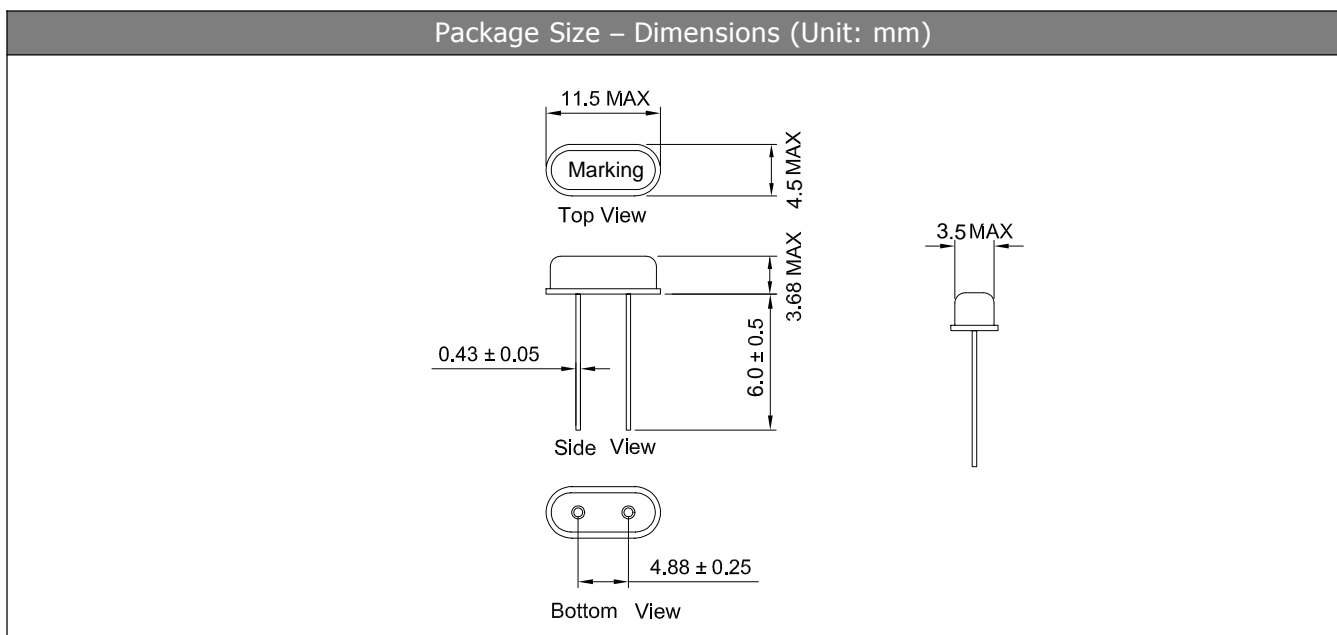
## Specifications

|  |                                    |
|--|------------------------------------|
| Standard Frequency                           | 3.2768~64 MHz                      |
| Vibration Mode                               | AT Fundamental                     |
| Load Capacitance                             | 12pF, 20pF, or specify             |
| Frequency Tolerance (at 25 °C)               | ±10ppm, ±20ppm, or specify         |
| Frequency Versus Temperature Characteristics | ±20ppm, or specify                 |
| Operating Temperature                        | -20~+70 °C, -40~+85 °C, or specify |
| Storage Temperature                          | -40~+85 °C or specify              |
| Shunt Capacitance                            | 7 pF Max.                          |
| Level of Drive                               | 1~500µW Max. (100µW typical)       |
| Aging (at 25 °C)                             | ±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  $5 \pm 0.5$  seconds. Under room temperature. Dip terminals in a  $260 \pm 5^\circ\text{C}$  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  $260 \pm 5^\circ\text{C}$  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.

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