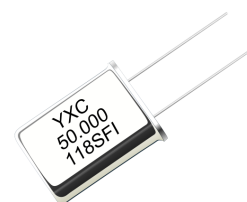


CRYSTAL UNIT

HC-49UM DIP



Applications

- Industrial Control Consumers.

Features

- Dimensions: 11.5 x 4.65 x 13.46 mm.
- Frequency range: 1.5~50MHz
- Through hole type crystal units.
- A great number of standard frequencies.

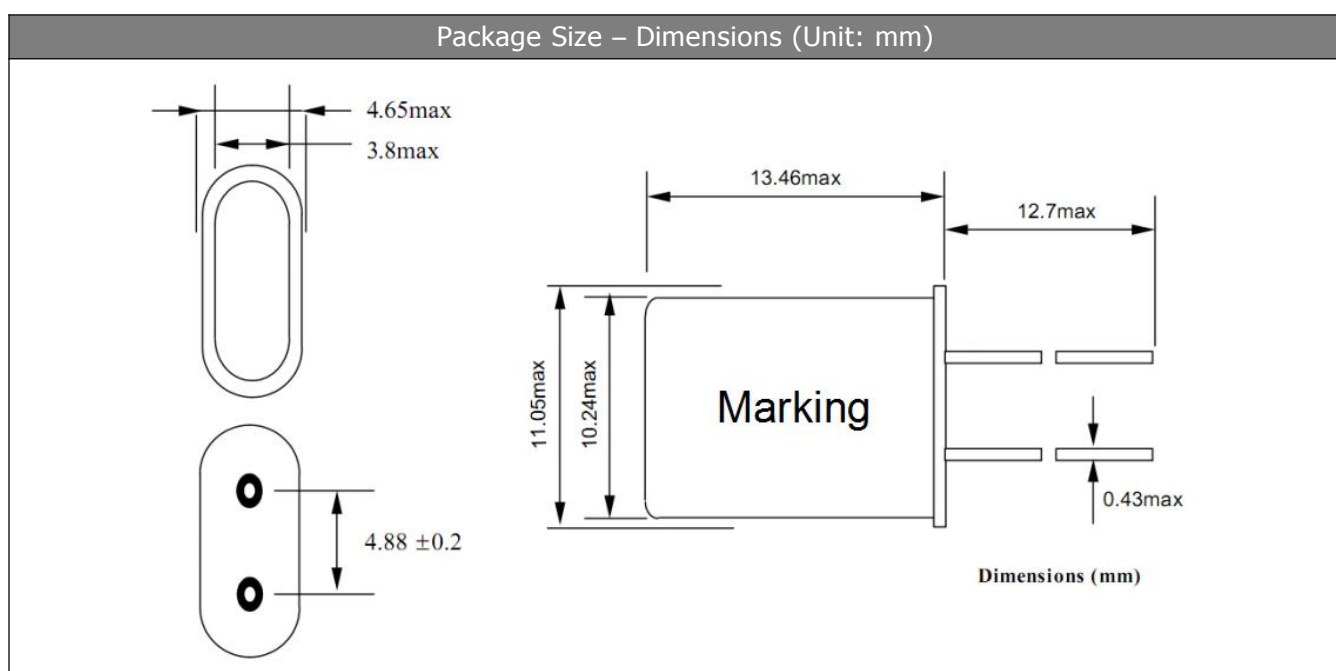
Specifications

Standard Frequency	1.5~50 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	0.1~500µW Max. (100µW typical)
Aging (at 25 °C)	±3ppm/year Max.

Equivalent Series Resistance(ESR)

Fundamental			
1.5 ~ 1.9MHz	500 Ω Max.	5 ~ 6.9 MHz	70 Ω Max.
2 ~ 2.9MHz	400 Ω Max.	7 ~ 9.9 MHz	35 Ω Max.
3.2~ 3.9 MHz	200 Ω Max.	10 ~ 29.9MHz	30 Ω Max.
4 ~ 4.9 MHz	150 Ω Max.	30 ~50 MHz	25 Ω Max.

Dimensions and Patterns [unit:mm]



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HC-49UM DIP



Solder ability

Dip terminals in RMA flux for 5 ± 0.5 seconds. Under room temperature. Dip terminals in a $260 \pm 5^\circ\text{C}$ solder bath for 5 ± 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 ± 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.