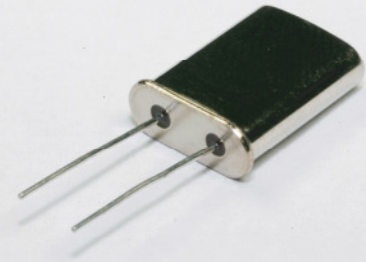


# CRYSTAL UNIT

## HC-49/U, HC-49/T

- HC-49/U package
- AT cut available
- Resistance weld seal
- Tape and reel, insulator tab, 3rd lead, and custom lead length options available
- Pb-free and RoHS compliance



HC-49/U

### HC TYPE

#### ELECTRICAL SPECIFICATIONS

|   |   |
|---|---|
| Frequency Range   | 1.8432 to 85.000MHz                               |
| Operating Temperature Range                             | -10 to +60°C(STD), -20 to +70°C, or Specify       |
| Storage Temperature Range                               | -40 to +85°C                                      |
| Frequency Tolerance (at 25°C)                           | ± 15, ± 30, ± 50ppm(STD), or Specify              |
| Frequency stability<br>Over Operating Temperature Range | See Table1 in page 4<br>± 30, ± 50(STD), ± 100ppm |
| Load Capacitance(CL)                                    | 18pF(STD), Custom CL≥10pF or Series Resonant      |
| Drive Level   | 0.01 to 2,000μW                                   |
| Shunt Capacitance(Co)                                   | 7.0pF max.  |
| Aging (at 25°C)   | ± 5.0ppm/year max.                                |
| Insulation Resistance                                   | 500MΩ min. at 100V <sub>DC</sub>                  |

#### EQUIVALENT SERIES RESISTANCE(ESR)

| Frequency Range(MHz) | ESR(Ω MAX.) | Mode of Oscillation | Package           |
|----------------------|-------------|---------------------|-------------------|
| 1.8432 ~ 1.999       | 600         | Fundamental         | HC-49/U & HC-49/T |
| 2.000 ~ 2.999        | 500         | Fundamental         | HC-49/U & HC-49/T |
| 3.000 ~ 3.499        | 150         | Fundamental         | HC-49/U & HC-49/T |
| 3.500 ~ 3.999        | 120         | Fundamental         | HC-49/U & HC-49/T |
| 4.000 ~ 4.999        | 100         | Fundamental         | HC-49/U & HC-49/T |
| 5.000 ~ 5.999        | 80          | Fundamental         | HC-49/U & HC-49/T |
| 6.000 ~ 6.999        | 60          | Fundamental         | HC-49/U & HC-49/T |
| 7.000 ~ 7.999        | 50          | Fundamental         | HC-49/U & HC-49/T |
| 8.000 ~ 9.999        | 40          | Fundamental         | HC-49/U & HC-49/T |
| 10.000 ~ 12.999      | 30          | Fundamental         | HC-49/U & HC-49/T |
| 13.000 ~ 30.000      | 25          | Fundamental         | HC-49/U & HC-49/T |
| 24.000 ~ 29.999      | 60          | 3rd Overtone        | HC-49/U & HC-49/T |
| 30.000 ~ 85.000      | 40          | 3rd Overtone        | HC-49/U & HC-49/T |

#### MECHANICAL DIMENSIONS

