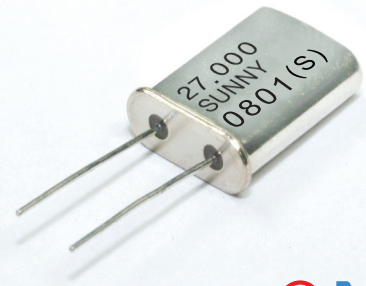


# HC TYPE

# HC-49/U

- 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



## ELECTRICAL SPECIFICATIONS

|   |  |
|---|--|
| Frequency Range   | 1.700 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   | 100μW(1000μW max.)                             |
| 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 |
|----------------------|-------------|---------------------|
| 1.700 ~ 1.999        | 600         | Fundamental         |
| 2.000 ~ 2.999        | 500         | Fundamental         |
| 3.000 ~ 3.499        | 150         | Fundamental         |
| 3.500 ~ 3.999        | 120         | Fundamental         |
| 4.000 ~ 4.999        | 100         | Fundamental         |
| 5.000 ~ 5.999        | 80          | Fundamental         |
| 6.000 ~ 6.999        | 60          | Fundamental         |
| 7.000 ~ 7.999        | 50          | Fundamental         |
| 8.000 ~ 9.999        | 40          | Fundamental         |
| 10.000 ~ 12.999      | 30          | Fundamental         |
| 13.000 ~ 30.000      | 25          | Fundamental         |
| 24.000 ~ 29.999      | 60          | 3rd Overtone        |
| 30.000 ~ 85.000      | 40          | 3rd Overtone        |

## MECHANICAL DIMENSIONS

(mm)

