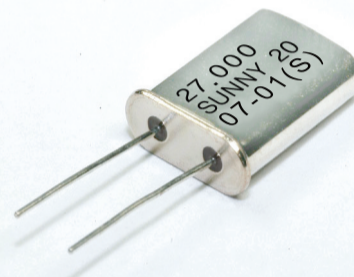


CRYSTAL UNIT

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 Over Operating Temperature Range	See Table1 in page 4 ± 30, ± 50(STD), ± 100ppm
Load Capacitance(CL)	18pF(STD), Custom CL≥10pF or Series Resonant
Drive Level	100 μW (1000 μW max.)
Shunt Capacitance(Co)	7.0pF max.
Aging (at 25 °C)	± 5.0ppm/year max.
Insulation Resistance	500MΩ min. at 100V _{DC}

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)

