

CRYSTAL UNITS

HC-49S SMD

ACTUAL SIZE: 

49LN SERIES



APPLICATIONS

- ▶ Computers, Modems, Microprocessors
- ▶ Automotive And Industrial
- ▶ Wireless Applications

FEATURES

- ▶ Metal Welded Package
- ▶ High Shock Resistance
- ▶ Excellent Frequency Aging Stability
- ▶ RoHS Compliant

Specification

MODEL

FREQUENCY

FREQUENCY RANGE (Fundamental)	MHz	3.500 ~ 40.000
FREQUENCY RANGE (3rd Overtone)	MHz	24.000 ~ 80.000
FREQUENCY TOLERANCE (25°C)	ppm	± 30 Or Specify
FREQUENCY STABILITY (Ref to 25°C)	ppm	± 30 Or Specify

ENVIRONMENTAL CONDITION

OPERATING TEMPERATURE RANGE	°C	- 20 ~ + 70 Or Specify
STORAGE TEMPERATURE RANGE	°C	- 55 ~ + 125
AGING / YEAR	ppm	± 5

ELECTRICAL SPECIFICATIONS

TEST CIRCUIT		S&A 250B With π Fixture
LOAD CAPACITANCE	pF	SERIES, 6pF to 47pF, or Specify
DRIVE LEVEL	uW	10, 50, 100, 500, 1000 or special requirement
EQUIVALENT SERIES RESISTANCE	Ω	See Table
INSULATION RESISTANCE	Ω	More than 500M Ω at DC 100V
SHUNT CAPACITANCE	pF	7.0 Max.

*Specification subject to change without notice.

Equivalent Series Resistance (Ω)

Frequency Range	Mode of Operation	ESR
3.500 ~ 3.999	Fundamental	200 Ω Max.
4.000 ~ 4.999	Fundamental	120 Ω Max.
5.000 ~ 5.999	Fundamental	90 Ω Max.
6.000 ~ 7.999	Fundamental	80 Ω Max.
8.000 ~ 11.999	Fundamental	60 Ω Max.
12.000 ~ 14.999	Fundamental	40 Ω Max.
15.000 ~ 19.999	Fundamental	35 Ω Max.
20.000 ~ 40.000	Fundamental	25 Ω Max.
24.000 ~ 29.999	3rd Overtone	120 Ω Max.
30.000 ~ 39.999	3rd Overtone	80 Ω Max.
40.000 ~ 80.000	3rd Overtone	60 Ω Max.

Dimension(mm)

49MN / 49LN SERIES

