



49US ,49SL ,49SSL Series: HC-49US ,HC-49SL ,HC-49SSL 49SMT ,49SSLMT Series: HC-49SMT ,HC-49SSLMT ,HC-49SSLMT SMD Type

3.000 - 80.000MHz

### SPECIFICATION

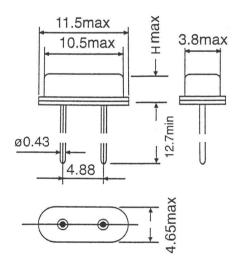
Frequency Range	3.000 - 80.000MHz
Vibration Mode	AT-Cut fundamental, third, fifth, seventh
Frequency Tolerance (25°C)	±10,±20,±30PPM
Operation Temperature	-20°C ~ +70°C
Shunt Capacitance	7pF max or Special
Load Capacitance	Series,16,20,22,30pF or Special
Drive Level	50,100,300,500,1000 μW
Insulation Resistance	500MΩ min/DC
Aging	±3,±5PPM/year

#### EQUIVALENT SERIES RESISTANCE

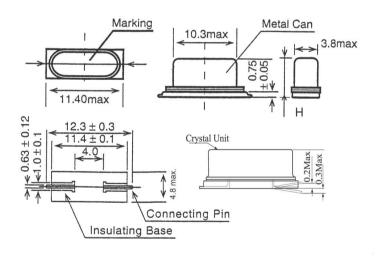
Frequency (MHz)	ESR(Ω)max
Fundamental	
3.000 - 3.799MHz	180
3.800 - 4.999MHz	150
5.000 - 5.999MHz	120
6.000 - 7.999MHz	80
8.000 - 9.999MHz	80
10.000 - 11.999MHz	50
12.000 - 15.999MHz	50
16.000 - 19.999MHz	40
20.000 - 35.000MHz	40
3rd Overtone	
26.000 - 39.999MHz	100
40.000 - 80.000MHz	80

# DIMENSIONS (mm)

## 49US & 49SL Series



# 49SM & 49SLM Series



Series	Н
49US	3.5max
49SL	2.5max
49SSL	2.0max

Series	Н
49SMT	4.2max
49SLMT	3.2max
49SSLMT	2.7max