



## \ Z-49SMD Thru-hole Crystal Unit



### {Features}

- Low cost
- Industry standard package
- High reliability and stability crystal
- Wide frequency range and calibration tolerances available
- Rohs compliant / Pb free

### Application of Crystal:

- Best choice for mother board
- USB
- LAN card
- Router
- Switch



### Electrical Specification:

Model	\ Z-49SMD
Frequency Range	3.570 ~ 100.000 MHz
Frequency Tolerance at 25°C± 2°C	± 20 ~ ± 50 ppm (TYP.)
Frequency Stability Over Operating Temp Range	± 10 ~ ± 50 ppm (TYP.)
Operating Temp Range	-10°C~ +60°C, -20°C~ +70°C or customer requirement
Load Capacitance	8 pF ~ 32 pF, series or special
Shunt Capacitance	7 pF Max.
Drive Level	0.1uW ~ 1000uW(TYP.: 100uW)
Insulation Resistance	500MΩ min / DC 100V± 15V
Oscillation Mode	Fundamental, 3rd overtone
Measure Instrument	S&A 250B

### Equivalent Series Resistance(ESR) VS Frequency:

Frequency (MHz)	Oscillation Mode	\ Z-49SMD
3.57 ~ 3.79	Fundamental	180Ω max.
3.8 ~ 4.49	Fundamental	150Ω
4.5 ~ 5.99	Fundamental	120Ω
6.0 ~ 7.99	Fundamental	100Ω
8.0 ~ 9.99	Fundamental	80Ω
10.0 ~ 11.99	Fundamental	70Ω
12.0 ~ 15.99	Fundamental	60Ω
16.0 ~ 19.99	Fundamental	50Ω
20.0 ~ 39.99	Fundamental	40Ω
26.0 ~ 39.99	3rd overtone	100Ω
40.0 ~ 70.0	3rd overtone	80Ω
70.0 ~ 100.0	3rd overtone	100Ω

**Dimensions (mm):**

