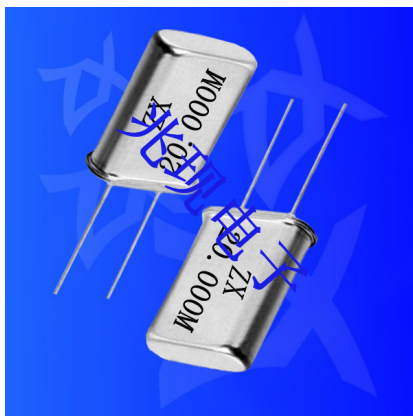


\ Z-49/U Thru-hole Crystal Unit



{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-49/U
Frequency Range	1.500 ~ 160.000 MHz
Frequency Tolerance at 25 °C ±2 °C	±10 ~ ±30 ppm (TYP.)
Frequency Stability Over Operating Temp Range	±10 ~ ±30 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	500M min / DC 100V ±15V
Oscillation Mode	Fundamental, 3rd & 5th overtone
Measure Instrument	S&A 250B

Equivalent Series Resistance(ESR) VS Frequency:

Frequency (MHz)	Oscillation Mode	""\ ZHC-49/U
1.5 ~ 1.99	Fundamental	700 max.
2.0 ~ 2.99	Fundamental	500
3.0 ~ 3.19	Fundamental	300
3.2 ~ 3.99	Fundamental	150
4.0 ~ 4.49	Fundamental	90
4.5 ~ 4.99	Fundamental	70
5.0 ~ 6.99	Fundamental	50
7.0 ~ 9.99	Fundamental	35
10.0 ~ 36.0	Fundamental	25
20.0 ~ 24.99	3rd overtone	45
25.0 ~ 100.0	3rd overtone	40
70.0 ~ 160.0	5rd overtone	70

Dimensions (mm):

