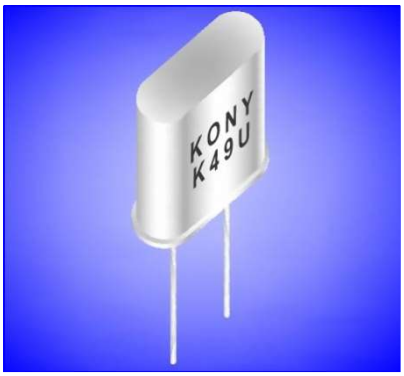
SPECIFICATION OF CRYSTAL UNIT

K49U Series

Quartz Crystal Unit



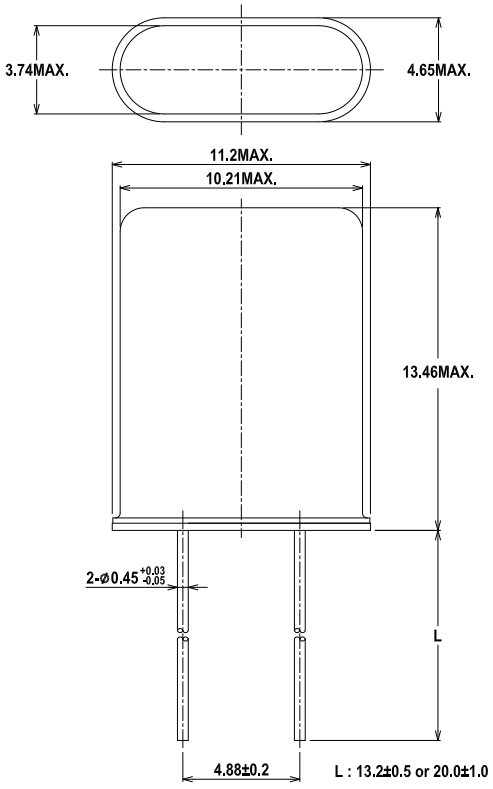
Feature

-. Wide Frequency Range
-. Resistance Weld Seal
-. Excellent Aging
-. AT-cut

Options

-. Insulating Pad
-. 3rd Lead(Top or Bottom)
-. Custom Lead length
-. Tape or Vinyl-pack or box
-. 13.46mm Height Max

Dimension(mm)



Standard Specification

(Nominal frequency referenced to frequency at 25 ℃±2 ℃)

PARAMETERS	K49U
Frequency Range	1.8432MHz ~ 200.0000MHz
Frequency Tolerance @ 25°C±3°C	± 30ppm (Typ.)
Stability Over Operating Temperature Range (in reference to 25°C)	± 50ppm (Typ.)
Operating Temperature Range	-40 °C ~ 85 °C
Equivalent Series Resistance (ESR)	∗See Table
Shunt Capacitance	7pF maximum
Load Capacitance	10pF ~ Series
Drive Level	100μW (1000μW max.)
Aging per year	±5ppm
Insulation Resistance	500 Megaohms Minimum at 100V_{DC}
•Tighter tolerances, stabilities & operating temperature ranges available	

Nominal Frequency & ESR

Frequency Range (MHz)	Mode	Max. ESR (Ω)	Frequency Range (MHz)	Mode	Max. ESR (Ω)
1.8432 ~ 1.999	Fundamental	700	6.0000 ~ 7.999	Fundamental	40
2.0000 ~ 2.399		500	8.0000 ~ 9.999		35
2.4000 ~ 2.999		300	10.0000 ~ 12.999		30
3.0000 ~ 3.199		200	13.0000 ~ 17.999		25
3.2000 ~ 3.499		150	18.0000 ~ 35.328		20
3.5000 ~ 3.999		120	24.0000 ~ 125.000	3rd Overtone	40
4.0000 ~ 4.399		100	85.0000 ~ 200.000	5th Overtone	60
4.4000 ~ 4.999		80	150.0000 ~ 200.000	7th Overtone	100
5.0000 ~ 5.999		50			

All specifications are subject to change without notice

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