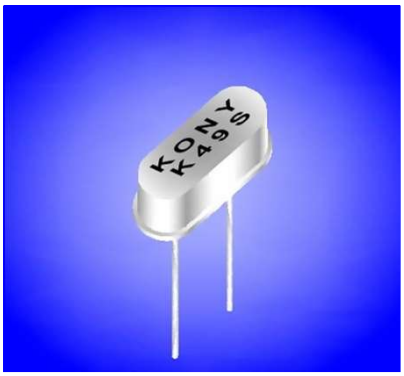
SPECIFICATION OF CRYSTAL UNIT

K49S Series

Quartz Crystal Unit



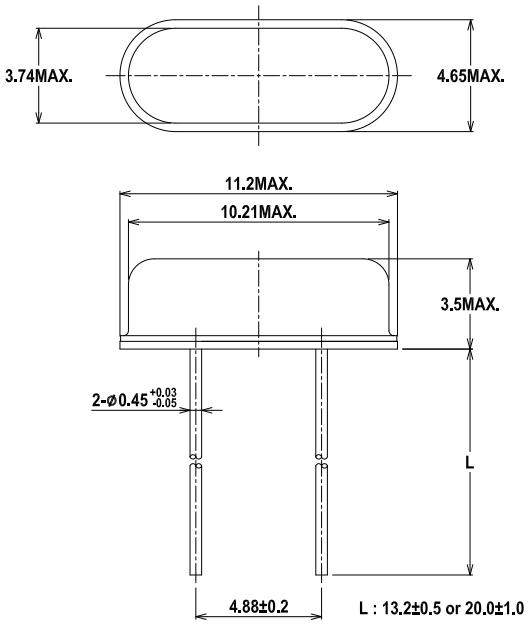
Features

-. Strip Resonator Crystal
-. Resistance Weld Seal
-. AT-cut
-. Excellent Aging
-. Available for lead (pb) – free product

Options

-. Insulating Pad
-. 3rd Lead (Bottom)
-. Custom Lead length
-. Tape or Vinyl-pack
-. 3.5mm Height Max

Dimension(mm)



Standard Specification

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

PARAMETERS	K49S
Frequency Range	3.2680MHz ~ 75.0000MHz
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 -40 °C ~ 125 °C(100ppm)
Equivalent Series Resistance (ESR)	∗See Table
Shunt Capacitance	7pF maximum
Load Capacitance	10pF ~ Series
Drive Level	25μW (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)
3.268 ~ 3.999	Fundamental	200	14.000 ~ 40.000	Fundamental	50
4.000 ~ 4.999		150	28.224 ~ 29.999	3rd Overtone	100
5.000 ~ 7.299		120	30.000 ~ 75.000		80
7.300 ~ 9.999		80			
10.000 ~ 13.999		60			

All specifications are subject to change without notice

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