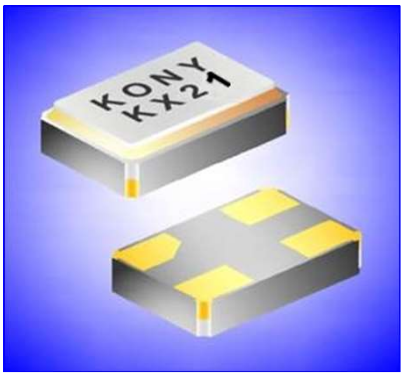
SPECIFICATION OF CRYSTAL UNIT

KX21 Series

Quartz Crystal Unit



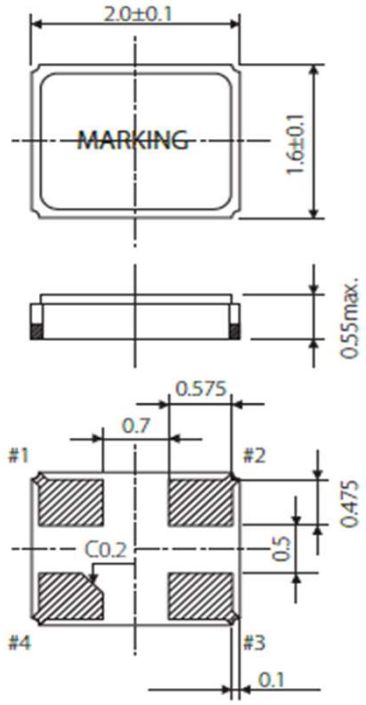
◆ Features

-. High Frequency Range
-. Miniature SMD Crystal
-. Seam Sealed
-. AT-cut

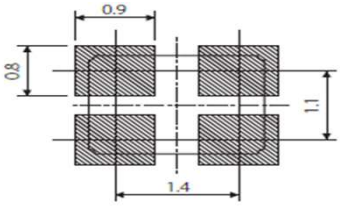
◆ Options

-. Tapping & Reel
-. Contour size : 2.0mm X 1.6mm

◈ Dimension(mm)



◈ Recommended Land pattern



◈ Standard Specification

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

PARAMETERS	KX21
Frequency Range	16.0000MHz ~ 60.0000MHz
Frequency Tolerance @ 25°C±3°C	± 20ppm (Typ.)
Stability Over Operating Temperature Range (in reference to 25°C)	± 30ppm (Typ.)
Operating Temperature Range	-40 °C ~ 85 °C -40 °C ~ 125 °C (50ppm)
Equivalent Series Resistance (ESR)	∗See Table
Shunt Capacitance	3pF maximum
Load Capacitance	8pF ~ Series
Drive Level	10μW (200μW max.)
Aging per year	±3ppm
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)
16.000~19.999	Fundamental	150
20.000~29.999		100
30.000~35.999		80
36.000~60.000		60

All specifications are subject to change without notice

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