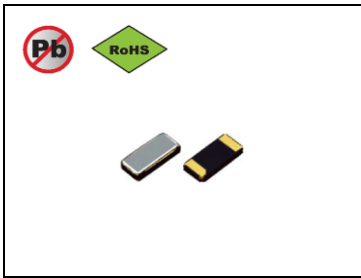


# KS212

# 32.768kHz Crystal



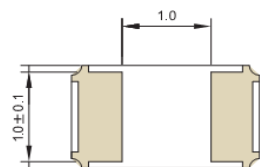
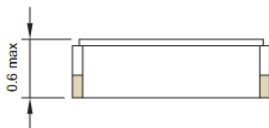
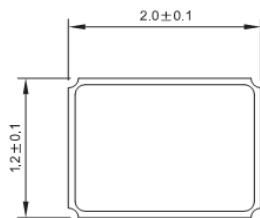
### ■ TUNING FORK SMD TYPE 2.0x1.2mm

- Miniature Ceramic Surface Mount package
- 32.768kHz Frequency Reference
- Frequency Tolerance  $\pm 20\text{ppm}$  (STD),  $\pm 10\text{ppm}$  available
- Extended temperature  $-40^\circ\text{C}$  to  $+105^\circ\text{C}$  available
- Applications : Industrial applications, Mobile Communications, Wireless applications

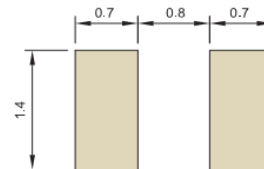
### ■ Standard Specification

Nominal Frequency	32.768KHz
Motional resistance (ESR)	90k $\Omega$ Max
Load capacitance (CL)	6pF, 7pF, 9pF, 12.5pF or please specify
Frequency tolerance (25°C)	$\pm 20\text{ppm}$ (std) or please specify
Turnover Temperature	$25^\circ\text{C} \pm 5^\circ\text{C}$
Temperature coefficient	$-0.035\text{ppm}/^\circ\text{C}^2$ Typ
Operating temperature range	$-40^\circ\text{C}$ to $+85^\circ\text{C}$ $-40^\circ\text{C}$ to $+105^\circ\text{C}$
Storage temperature range	$-55^\circ\text{C}$ to $+125^\circ\text{C}$
Level of drive(DL)	0.5 $\mu\text{W}$ Max
Shunt Capacitance ( C0 )	1.5pF Typ
Aging (Initial first year)	$\pm 3\text{ppm}$ Max
Insulation Resistance (DC 100V)	500M $\Omega$ Min

### ■ Dimensions (mm)



### • Recommended Soldering Pattern



### • Internal connection

