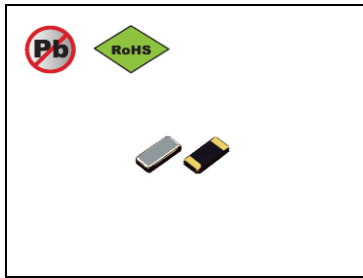


KS161

32.768kHz Crystal



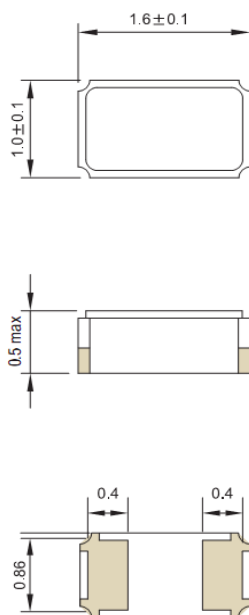
■ TUNING FORK SMD TYPE 1.6x1.0mm

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

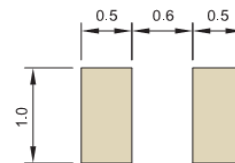
■ Standard Specification

Nominal Frequency	32.768KHz
Motional resistance (ESR)	90k Ω 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°C to $+85^\circ\text{C}$ -40°C to $+105^\circ\text{C}$
Storage temperature range	-55°C to $+125^\circ\text{C}$
Level of drive(DL)	0.5 μW Max
Shunt Capacitance (C0)	1.2pF Typ
Aging (Initial first year)	$\pm 3\text{ppm}$ Max
Insulation Resistance (DC 100V)	500M Ω Min

■ Dimensions (mm)



• Recommended Soldering Pattern



• Internal connection

