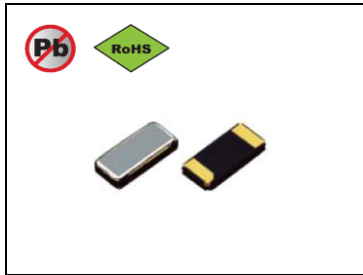


KS519

32.768kHz Crystal



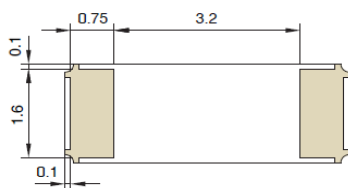
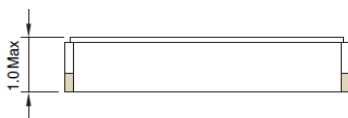
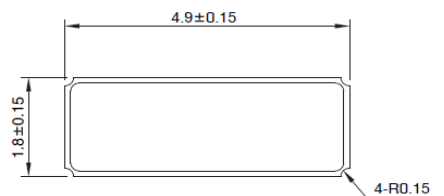
■ TUNING FORK SMD TYPE 4.9x1.8mm

- Miniature Ceramic Surface Mount package
- 32.768kHz Frequency Reference
- Frequency Tolerance ± 20 ppm standard
- Tape & Reel packaging
- Applications : Industrial applications, Mobile Communications, Wireless applications

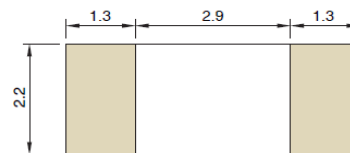
■ Standard Specification

Nominal Frequency	32.768KHz
Motional resistance (ESR)	70k Ω Max
Load capacitance (CL)	7pF, 9pF, 12.5pF or please specify
Frequency tolerance (25°C)	± 20 ppm (std) or please specify
Turnover Temperature	25°C \pm 5°C
Temperature coefficient	-0.035ppm/ $^{\circ}$ C ² Typ
Operating temperature range	-40°C to +85°C
Storage temperature range	-55°C to +125°C
Level of drive(DL)	1.0 μ W Max
Shunt Capacitance (C0)	0.9 to 1.7pF
Aging (Initial first year)	± 3 ppm Max
Insulation Resistance (DC 100V)	500M Ω Min

■ Dimensions (mm)



• Recommended Soldering Pattern



• Internal connection

