

### MINIATURE CERAMIC SMD TUNING FORK CRYSTAL (4.9 x 1.8x 1.0mm)

**FEATURES:**

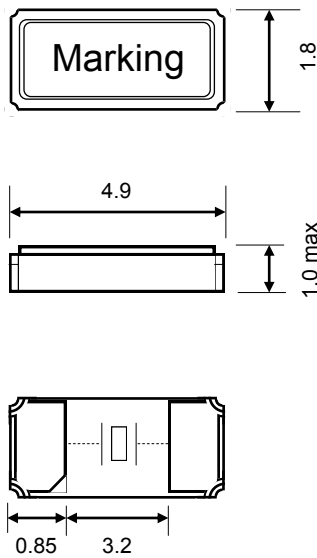
- SMALL CERAMIC SMD PACKAGE TUNING FORK
- EXCELLENT HEAT RESISTANCE
- -40°C ~ 85°C OPERATING TEMPERATURE



**■ SPECIFICATION**

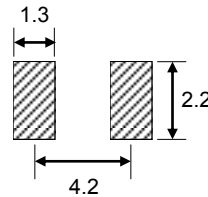
FREQUENCY RANGE	32.768kHz
FREQUENCY TOLERANCE @ 25°C	STD: ±20ppm, Option : ±10ppm available (Consult factory)
TEMPERATURE COEFFICIENT	-0.034ppm ±0.006 ppm / °C <sup>2</sup>
OPERATING TEMPERATURE RANGE	-40°C ~ 85°C
STORAGE TEMPERATURE RANGE	-55°C ~ 125°C
TURN OVER TEMPERATURE	25°C ± 5°C
LOAD CAPACITANCE	12.5pF typ. 9.0pF available
SHUNT CAPACITANCE	1.35pF typ.
MOTIONAL CAPACITANCE	0.002pF typ.
EQUIVALENT SERIES RESISTANCE	70kΩ max.
INSULATION RESISTANCE	500MΩ min. @ 100V <sub>DC</sub> ± 15V <sub>DC</sub>
DRIVE LEVEL	0.1μW typ. 1.0μW max.
AGING @ 25°C ± 3°C	±3.0ppm/ 1 <sup>st</sup> year max.
QUALITY FACTOR	20000 min.
SHOCK	±5.0ppm max.
VIBRATION	±5.0ppm max.

**■ PACKAGE DIMENSIONS**



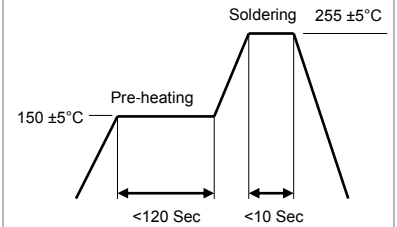
Unit : mm

**■ SOLDER PATTERN**



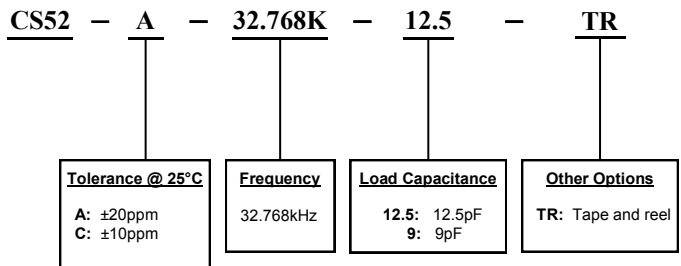
Unit : mm

**■ REFLOW PROFILE**



Note: Consult factory for detail

**■ PART NUMBERING GUIDE**



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