

MINIATURE CERAMIC SMD TUNING FORK CRYSTAL (1.6 x 1.0 x 0.5mm)

FEATURES:

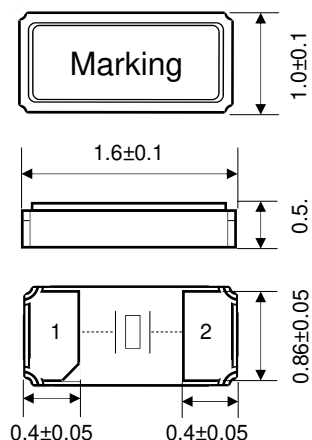
- EXCELLENT AGING CHARACTERISTICS
- ULTRATHIN THICKNESS 0.5MM
- REFLOW IS POSSIBLE, RoHS COMPLIANT AND LEAD FREE



■ SPECIFICATION

FREQUENCY RANGE	32.768kHz
FREQUENCY TOLERANCE @ 25°C ± 3°C	±20ppm, ±50ppm
TEMPERATURE COEFFICIENT	-0.045 ppm / °C ² max.
OPERATING TEMPERATURE RANGE	-40°C ~ +85°C
STORAGE TEMPERATURE RANGE	-40°C ~ +85°C
TURN OVER TEMPERATURE	25°C ± 5°C
LOAD CAPACITANCE	12.5pF, 9.0pF
SHUNT CAPACITANCE	2.0pF max.
EQUIVALENT SERIES RESISTANCE	90kΩ max.
INSULATION RESISTANCE	500MΩ min. @ 100V _{DC} ±15V _{DC}
DRIVE LEVEL	0.1μW
AGING @ 25°C ± 3°C	±3 ppm max. for 1 st year

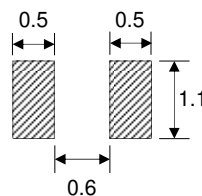
■ PACKAGE DIMENSIONS



Unit : mm

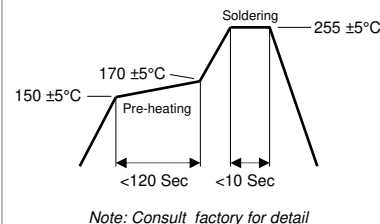
Pin Configuration	
1	Xtal
2	Xtal

■ SOLDER PATTERN



Unit :mm

■ REFLOW PROFILE



■ PART NUMBERING GUIDE

CS1610 - A - 32.768K - - TR

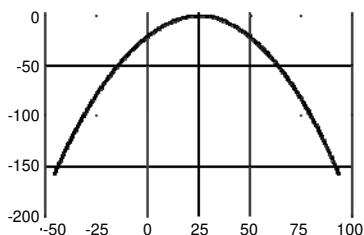
Tolerance @ 25°C
A: ±20ppm
B: ±50ppm

Frequency
32.768kHz

Load Capacitance
Blank: 12.5pF
9: 9pF

Other Options
TR: Tape and reel

■ TEMPERATURE COEFFICIENT



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