

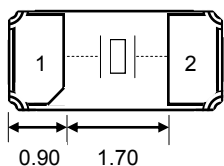
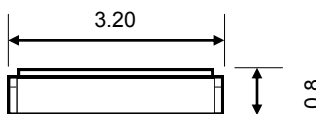
MINIATURE CERAMIC SMD TUNING FORK CRYSTAL (3.2 x 1.5 x 0.8mm)
FEATURES:

- SMALLEST CERAMIC SMD PACKAGE TUNING FORK
- EXCELLENT HEAT RESISTANCE
- -40°C TO 85°C OPERATING TEMPERATURE

RoHS
Compliant

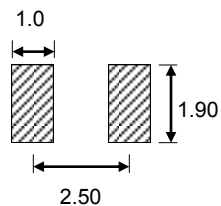


MODEL	CS31
FREQUENCY	32.768KHz
FREQUENCY TOLERANCE @ 25°C	± 20ppm max.
FREQUENCY STABILITY	-0.034ppm ± 0.006 ppm / °C ²
OPERATING TEMPERATURE	-40°C to 85°C
TURN OVER TEMPERATURE	25°C ± 5°C
STORAGE TEMPERATURE	-55°C to 125°C
LOAD CAPACITANCE	STD: 12.5pF, (see below for other options)
SHUNT CAPACITANCE	1.6pF typical
MOTIONAL CAPACITANCE	0.0036pF typical
ESR	80KΩ max.
INSULATION RESISTANCE	500MΩ min. @ 100VDC ± 15VDC
DRIVE LEVEL	0.1uW typical, 1.0uW max
AGING	± 3.0ppm max. @ 25°C ± 3°C
SHOCK	± 5.0ppm max.
VIBRATION	± 5.0ppm max.

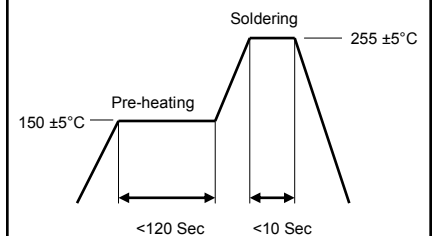
PACKAGE DIMENSIONS


Unit : mm

Pin Configuration	
1	Xtal
2	Xtal

SOLDER PATTERN


Unit :mm

REFLOW PROFILE

PART NUMBERING GUIDE

CS31 - 32.768K - 12.5 - TR

Frequency
32.768KHz

Load Capacitance
9: 9pF
12.5: 12.5pF

Other Options
TR: Tape and reel