

## MINIATURE TUNING FORK CRYSTAL

The TFX-02 is the miniature SMD tuning fork crystal. Ceramic package and metal lid assures extreme accuracy and high reliability by EBS (Electron Beam Sealing). This package is very popular among with high volume, high-end consumer products such as DSC, DVC and Mobile phones.

### □ FEATURES

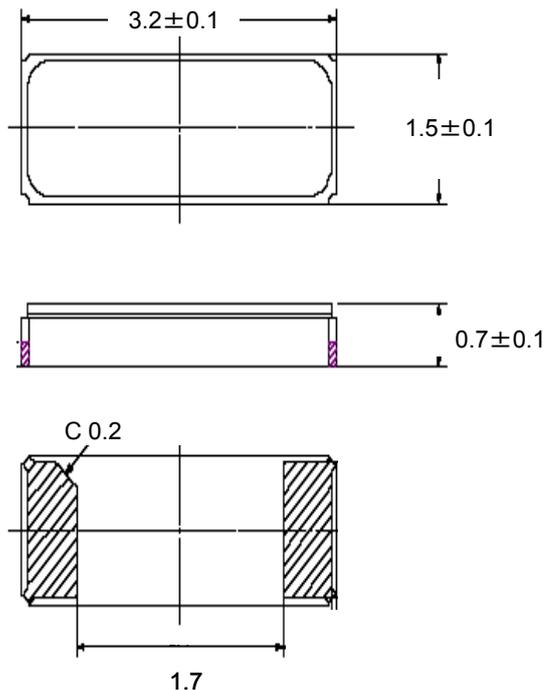
- Miniature package, 3.2 x 1.5 x 0.8 mm max.
- Rugged, resistance to shock and vibration.
- Ideally suited for automated pick-and-place assembly.
- Complied with RoHS / PB Free.

### □ STANDARD SPECIFICATIONS

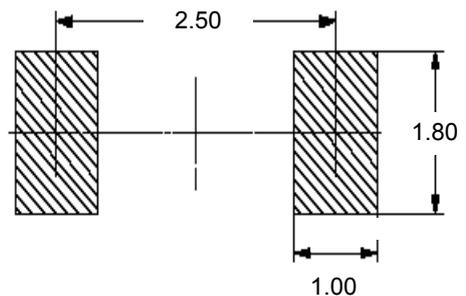
Part Number	TFX-02
Dimension	3.2 x 1.5 x 0.7
Nominal Frequency at 25°C	32.768 kHz
Frequency Tolerance	±20 ppm max. @ 0.1μW drive level (NOTE)
Turnover Temperature	25°C ± 5°C
Temperature Characteristics	-0.03 ±0.01 ppm / °C <sup>2</sup> Typical
Load Capacitance	12.5 pF (NOTE)
Series Resistance	70 KΩ max. @ 0.1μW drive level
Motional Capacitance	3.5 fF typ.
Drive Level	0.1±0.01μW (0.5μW max.)
Aging	±5 ppm per year
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-55 to +125°C

NOTE: Please consult us for tight tolerance and different load capacitance.

### □ OUTLINE DRAWINGS Dimensions in mm. Do not scale.



### □ SUGGESTED SOLDER PAD



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