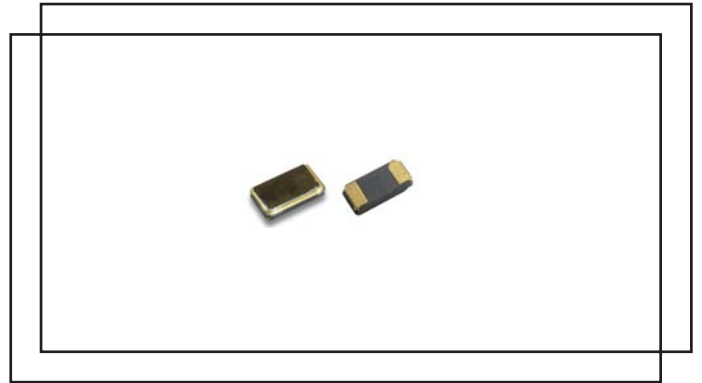


X21D smd watch crystal 32.768kHz

- # (2.0 x 1.2)mm, height 0.6mm
- # high reliability by electron sealing
- # packing: tape & reel 3000pcs/reel
- # RoHS Compliant



Electrical specification

Case style	X21D: (2.0 x 1.2)mm
Frequency	32.768kHz
Frequency tolerance	$\pm(10 \sim 100)$ ppm at +25°C
Temperature coefficient	-0.03ppm/°C ²
Storage temperature range	(-40 +85)°C standard or (-55 +125°C) on request
Operating temperature range	(-40 +85)°C
ESR	90kΩ max.
Motional capacitance	7.0fF typical
Drive level	0.5μW max.
Load capacitance	9.0pF or 12.5pF

Ordering information

The X21D smd crystals may be specified with load capacitance, frequency tolerance, frequency stability and temperature range with each parameter coded as follows....

Example X21D crystal, 32.768kHz, load 9pF, ± 20 ppm at 25°C, (-40+85)°C

TFC PART NUMBER X21D 32.768K B C L

'X21D' crystal series: X21D
 '32.768K' frequency: 32.768K = 32.768kHz
 'M' load capacitance: M = 12.5pF
 'C' frequency tolerance at +25°C: C = ± 20 ppm
 'C' temperature range: C = (-20 +70)°C

Package X21D: (2.0 x 1.2)mm, height 0.6mm
Load capacitance B: 9pF, M: 12.5pF
Frequency tolerance B: +/-10ppm, C: ± 20 ppm, E: ± 30 ppm, G: ± 50 ppm, H: ± 100 ppm
Temperature range C: (-20+70)°C, L: (-40+85)°C

X21D dimensions(mm)

