

Features

- 0.6 mm High for Compact Circuit Boards
- Grounded Case for Low Noise Applications
- Seam Sealed for a Reliable Environmental Performance
- T&R Packaging for Automatic Mounting
- Applications: Smartphone, RTC, Communications, Automotive, Smart Meter, IoT
- RoHS Compliant & Pb Free


Standard Specifications

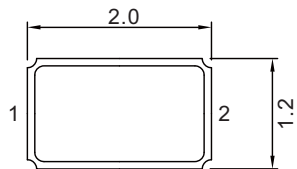
Type	7R Series SMD Crystal
Frequency Range	32.768 kHz
Frequency Tolerance	±10ppm, ±20ppm
Load Capacitance	6pF, 7pF, 9pF, 12.5pF
Operating Temperature Range	-40 to +85°C, -55 to +125°C, or specify
Storage Temperature Range	-55 to +125°C
Drive Level	0.5μW Max.
Turnover Temperature	±25°C±5°C
Parabolic Coefficient	$(-0.03±0.01)×10^{-6}/°C^2$
Shunt Capacitance	1.3pF Typ.
Aging (at 25°C)	±3ppm at first year
Packing Unit	3000pcs./Reel

Equivalent Series Resistance
Fundamental

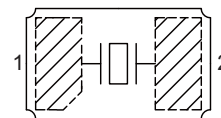
32.768 kHz | 70kΩ, 90kΩ Max.

Dimensions

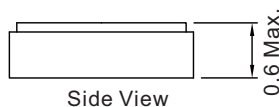
Units: mm Tolerance: ±0.1



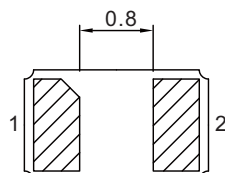
Top View



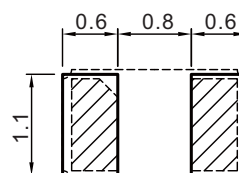
Top View Crystal Connection



Side View



Bottom View



Top View Suggested Layout