

RoHS
Compliant



Applications

Smartphone, Wave Clock, Mobile Communications, Automotive, etc.

Features

- 2012 size ultra miniature and lightweight with a low profile of 0.6mm
- High precision and reliability
- High reliable environmental performance
- Automatic mounting and reflow soldering

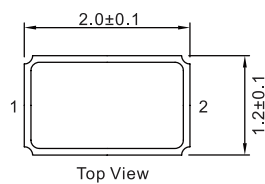
Specifications

Frequency Range	: 32.768 kHz
Frequency Tolerance	: +20ppm
Load Capacitance	: 6pF, 7pF, 9pF, 12.5pF, or specify
Operating Temperature Range	: -40°C to +85°C, or specify
Storage Temperature Range	: -55°C to +125°C
Drive Level	: 0.5μW Max.
Turnover Temperature	: ±25°C±5°C
Parabolic Coefficient	: $(-0.035 \pm 0.01) \times 10^{-6}/^{\circ}\text{C}^2$
Shunt Capacitance	: 1.3pF Typ.
Aging (at 25°C)	: +3ppm at first year

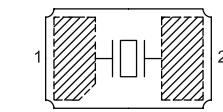
Fundamental

32.768kHz	: 90kΩ Max.
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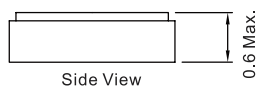
Dimensions



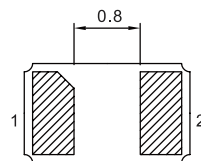
Top View



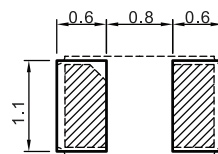
Top View Crystal Connection



Side View



Bottom View



Top View Suggested Layout

Dimensions : Millimetres

Part Number Table

Description	Part Number
Crystal, 32.768KHz, 12.5PF, 2.0mm × 1.2mm	MPJK-7R-32.768K-12.5-20-90-C

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