

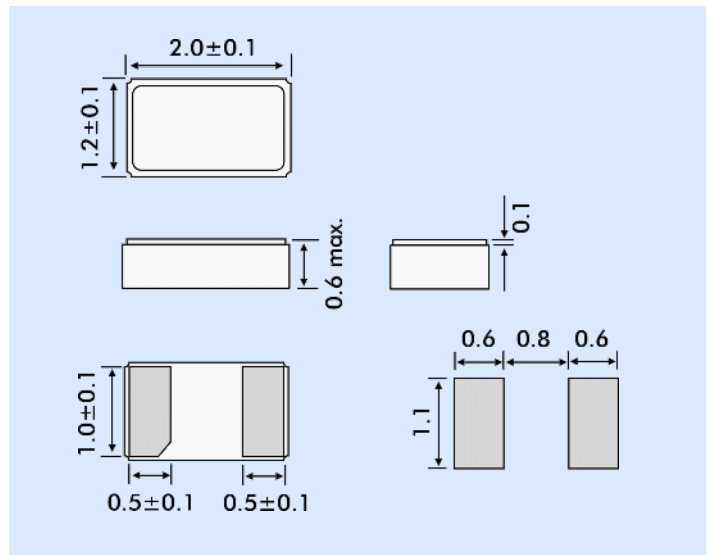
- Frequency 32.7680kHz
- Ultra-miniature package: 2.0 x 1.2 x 0.6mm
- Low mass, rugged construction
- Packaged in standard EIA tape and reel

**DESCRIPTION**

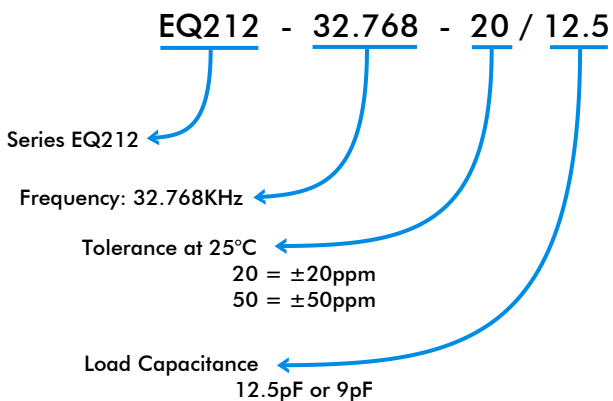
EQ212 crystals provide 32.768kHz in one of the smallest packages available. The part is designed to provide the smallest possible component size for real-time clock applications. Their miniature size and rugged construction make them ideal for battery powered, hand-held equipment.

SPECIFICATION

Nominal Frequency:	32.7680kHz
Calibration Tolerance at 25°C:	±20ppm or ±50ppm
Turnover Temperature:	+25±5°C
Temperature Coefficient:	$(-3.5 \pm 1.0) \times 10^{-8} / ^\circ\text{C}^2$
Operating Temperature Range:	-40 to +85°C
Load Capacitance (CL):	12.5pF or 9.0pF
Equivalent Series Resistance (ESR):	90kΩ max.
Drive level:	0.1μW typical 0.5μW max.
Ageing:	±5ppm per year
Insulation Resistance:	500MΩ minimum @100VDC
Crystal Cut:	X-Cut
Reflow Soldering:	10s maximum at 260°C twice or 180s at 230°C, once.
Packaging:	EIA tape and reel

OUTLINE & DIMENSIONS**ORDERING INFORMATION**

Example: EQ212-32.768-20/12.5

**STABILITY OVER TEMPERATURE**
X-Cut Crystal