



For immediate release

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Product News

NEW LOW-FREQUENCY SMT CRYSTAL USES TINY TUNING FORK INSIDE

- 32.768 KHz for real time clocks
- Tape & reel for high volume
- Low cost
- Small size

Miami FL, February 15, 1999 - Raltron Electronics Corp. here announces a new surface mount crystal for use in clock radios, wrist watches, timers, computers, telecomm systems and other applications which generate, use and display real time in seconds, minutes, hours and days



Quartz crystals ordinarily generate much higher frequencies. In order to generate the standard 32.768 KHz for convenient divide-by-60 countdowns, Raltron has shaped the internal crystal into a little tuning fork. This new tuning-fork crystal is hermetically sealed in an SMT package and designated Model RSM-200

New Model RSM-200 Tuning Fork Crystal features accuracy of ± 30 ppm at 25 deg C. It has an equivalent series resistance of 35 K ohms max, a load capacitance of 12.5 pF max, shunt capacitance of only 2.0 pF max, and a drive level of 10 uW maximum. Operating temperature range is spec'ed from -10 deg C to +60 deg C.

Surface mount pinout is on 5.6 mm centers. Profile height is a mere 3.3 mm; footprint on the board is only 9.1 mm x 4.0 mm maximum. For automatic insertion, units are conveniently tape-and-reel packaged in lots of 1,000.

New Model RSM-200 Tuning Fork Crystals are priced at only 55¢ each in OEM lots of 10,000. Delivery is quoted at 8 - 10 weeks ARO.

Established in 1983, Raltron Electronics Corp. offers a wide variety of time, frequency and resistive components for computer logic, radio, telecommunications and consumer electronics including quartz crystals and oscillators, filters, ceramic resonators and resistive networks for through-hole and SMT uses.

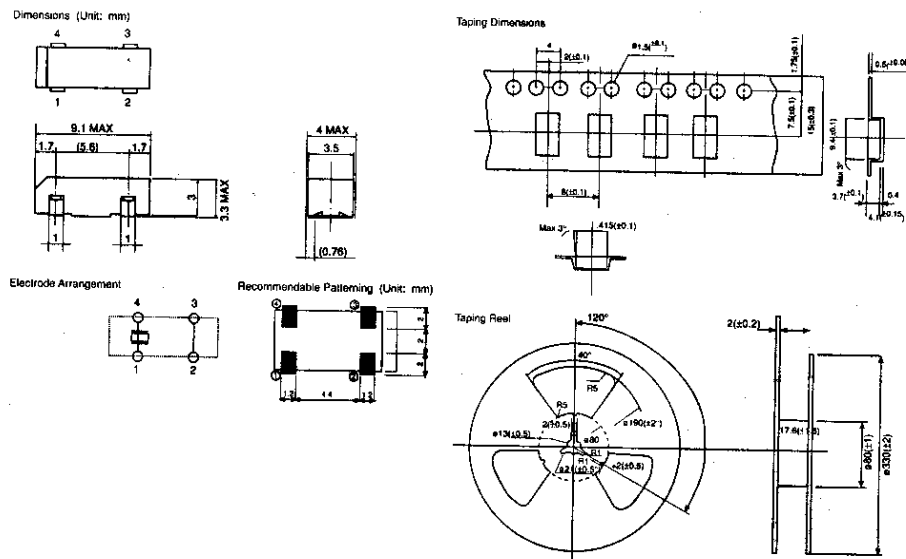
• Features

1. Small plastic surface mount package.
2. Taping specifications available for auto insertion.
3. High reliability and reflow soldering is possible.

• Specifications

Item	Specifications
Normal Frequency	32.768 KHz
Frequency Tolerance	± 30 ppm (at +25°C
Turnover Temperature	25°C + 4°C
Parabolic Curvature Constant	-0.034 +0.006 ppm/°C)
Equivalent Series Resistance	35 K Ω max.
Load Capacitance	12.5 pF max.
Shunt Capacitance	2.0 pF max.
Drive Level	10 μ W max.
Operating Temperature Range	-10 °C- +60 °C

- **Package Tape & Reel:** Min. 1000 PCS/REEL



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