



27th Annual Product of the Year Awards

From the thousands of products introduced in 2002, the editors of *Electronic Products* have chosen the most outstanding. The selections are based on significant advances in technology or its application, a decided innovation in design, or a substantial gain in price-performance. As usual, picking winners was made difficult by the many impressive products announced during the year. Here is a product by Cardinal Components chosen as a 2002 award winner.

Programmable oscillators flex their reconfigurability

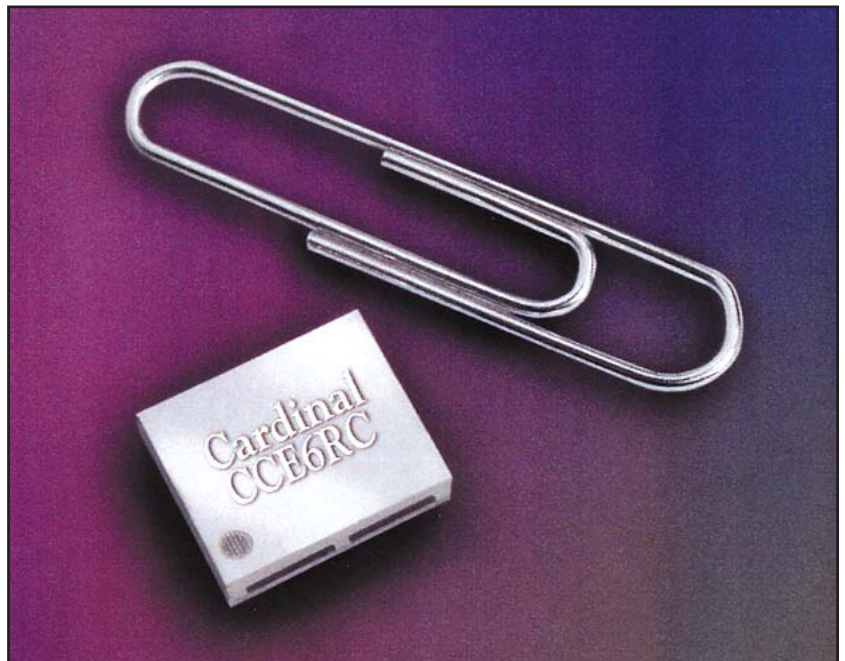
The engineering need for oscillators to be more flexible continues to grow. With many applications—such as CATV, adaptable networks, wireless hubs, and cellular base stations—using multiple oscillators on one board, engineers are increasingly requiring the flexibility to change frequencies in-circuit on the fly.

The MIPO multifrequency in-circuit reconfigurable programmable oscillators were introduced this past September (see *Electronic Products*, Sept. 2002, p. 74) as the first of their kind to address this need. The parts can be reconfigured in-circuit an infinite number of times using the I²C interface—a feature never before available in a quartz timing product.

In addition, the oscillators consume less than 50% of the power of traditional devices, while reducing board space by 30% and component count from six to one. Operating from a 3.3-V supply, the family has a frequency range from 200-kHz to 200-MHz CMOS and 100 to 400-MHz PECL.

(Less than \$6 ea/prod qty—available now.)

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Cardinal Components' MIPO oscillators