

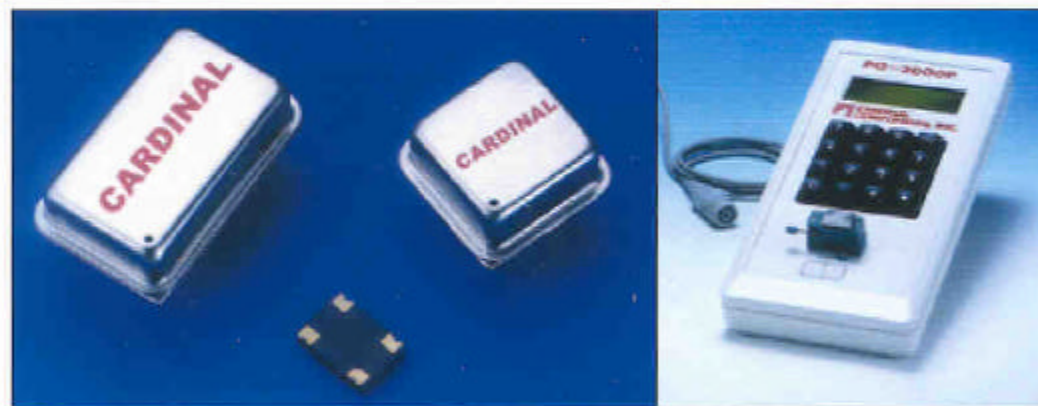


25th Annual Product of the Year Awards

From the thousands of products introduced in 2000, 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 2000 award winner.

CPP series programmable oscillator

Instantly programmable oscillators eliminate specification hassles



(a)

(b)

Introduced last year, the CPP Series field instantly programmable oscillator (FIPO) (see *Electronic Products*, May 2000, p. 91) offered to significantly reduce the design cycle by allowing manufacturers to produce, instantly, their own sealed, custom oscillators in house or in the field. Ideal for use in prototypes, early stage design, and unexpected design problems, the CPP Series allows designers to program an oscillator to the specification they require in seconds—a dramatic time savings compared to the weeks or months it could previously take to create a custom oscillator.

The FIPOs are based on CPP Series oscillator blanks, which can be programmed—with no programming skills necessary—within seconds with the PG-2000P standalone field oscillator programmer or the PG2000 PC-based programmer. The FIPO oscillators can be reprogrammed to correct errors or to reuse the same part for two separate applications with different frequency and/or output characteristics.

The oscillators offer frequencies from 1.0 to 133.0 MHz with 6 digits of accuracy. Operating voltage is 3, 3.3, and 5 V, and temperature range is 0° to 70°C and -40° to 85°C. Features in-

The CPP-2000 (a) is offered as the industry's first field instantly programmable oscillator, which can be set to a user-specified frequency in seconds using the PG-2000P programmer (b).

clude a frequency stability of 35 and 75 ppm, CMOS/TTL output, a tristate enable/disable, and output control (sync and async).

The Series PG-2000P standalone programmer is used to program 4-pin oscillators in the field. The self-contained portable unit, which does not require an additional PC or frequency counter, includes an internal TCXO frequency reference.

Oscillator blanks are available in full-size 14-pin DIPs, half-size 8-pin DIPs, 5 x 7 ceramic SMD, and plastic SMD packages. (From \$1.10 ea/50,000; PG-2000P, \$1,799—available now.)

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