

## Synthesizer provides 90 frequencies

Hughes, 500 Superior Ave., Newport Beach, CA 92663. (714) 548-0671. \$5.00 (1000 qty); stock.

The HCTR0347 is a large-scale integrated CMOS digital frequency synthesizer aimed at CB applications. The unit provides receive and transmit frequencies for 45 channels using only one crystal for a reference frequency. Included are a programmable logic array that accepts binary, BCD, or 7-segment coded inputs, a programmable frequency divider, and a phase/frequency detector. The package is a 16-pin plastic DIP.

CIRCLE NO. 356

## 'Semicustom' circuits outpace other CMOS chips

Master Logic Corp., 1623 Finch Way, Sunnyvale, CA 94087. Dr. Charlie Allen (408) 732-7777. See text.

The Master Logic 200 family of logic arrays can be tailored by the manufacturer to custom configurations, though the basic chip is standardized. These "semicustom" CMOS chips offer twice the operating speed of competing CMOS circuits. Each chip has a maximum capacity of 200 gates of random logic or approximately 50 counter stages. Prototype development from customer logic drawings to working circuits takes 8 wks and costs \$6600. Production prices range from \$7 to \$17, depending on quantity and package requirements.

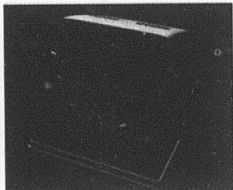
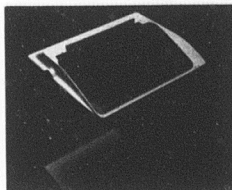
CIRCLE NO. 357

## Monolithic d/a converter covers MIL temp range

Precision Monolithics, 1500 Space Park Dr., Santa Clara, CA 95050. Don Soderquist (408) 246-9222. See text.

The DAC-06 is a monolithic, two's-complement 10-bit d/a converter. It includes a precision voltage reference, R-2R resistor network, bipolar offset circuit, and a high speed (1.5- $\mu$ s settling time) output op amp. Prices range from \$15 for Model DAC-06GX (with a monotonicity and temperature range of 8 bits and 0 to 70 C, respectively) to \$120 for the DAC06-883-AX (10 bits and -55 to +125 C). The latter version conforms to the MIL-STD-883A Class-B processing standard. The package is an 18-pin hermetic DIP. Delivery is from stock.

CIRCLE NO. 358



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