

## ICs & SEMICONDUCTORS

### 10-A npn/pnp transistors have ratings to 150 W

International Rectifier, 233 Kansas St., El Segundo, CA 90245. (213) 322-3331. \$2.25 to \$4.15 (100 qty); stock

Complementary npn (2N5758-60) and pnp (2N6226-28) power transistors are rated for 10-A peak collector current and power dissipation of 150 W.  $V_{CE}$  ratings range from 100 to 140 V. Maximum dc current gain ranges from 60 for the 2N5760 and 2N6228 to 100 for the 2N5758 and 2N6226. Maximum junction temperature is 200 C for all units with a maximum thermal resistance, junction to case, of 1.7 C/W.

CIRCLE NO. 340

### Low noise amp delivers 10 V rms into 600 $\Omega$

Signetics, 811 E. Arques Ave., Sunnyvale, CA 94086. Jim Wyland (408) 739-7700. From \$1.50 (100-qty); stock.

A low-noise general-purpose op amp, the SE/NE5534, can drive 10 V (rms) into 600  $\Omega$  directly. It features a small-signal bandwidth of 10 MHz and power bandwidth of 200 kHz. Noise voltage is 4 nV/ $\sqrt{\text{Hz}}$  and the slew rate is 13 V/ $\mu\text{s}$ . In addition to the standard 5534, an improved version, the 5534A, offers an input bias current of 800 nA, maximum, an offset current of 200 nA, maximum, and a noise voltage of 4.5 nV/ $\sqrt{\text{Hz}}$ , maximum, at 1 kHz. The 5534 is internally compensated for gain equal to, or higher than, +3. Basic specifications of the 5534 include: a dc voltage gain of 100,000; an ac voltage gain of 6000 at 10 kHz; and a supply voltage range of  $\pm 3$  to  $\pm 20$  V. 8-pin DIP.

CIRCLE NO. 341

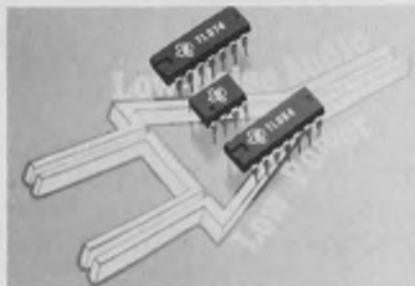
### Microwave transistor operates up to 4 GHz

Aerotech, 825 Stewart Dr., Sunnyvale, CA 94086. (408) 732-0880. \$17 (1 to 9); stock.

ABT7101 is an npn silicon-bipolar microwave transistor for low-noise and general purpose small-signal applications up to 4 GHz. The transistor is in a 100-mil hermetic stripline package. It is also available in chip form as the ABT7100. Typical noise-figure is 3.6 dB at 2 GHz and 1.9 dB at 1 GHz.

CIRCLE NO. 342

### FET input op amps offer low power and low noise



Texas Instruments, P.O. Box 5012, Dallas, TX 75222. Dale Pippenger (214) 238-2011. From \$0.47 (100-qty); stock.

Two series of bipolar/FET op amps, the TL061 series with three low-power op amps and the TL071 series with four low-noise audio op amps, add seven more models to the company's existing TL081 line of BIFET op amps. At 25 C, op amps in the TL061 low-power group require only 0.2 mA maximum supply current for each amplifier yet provide a 3.5 V/ $\mu\text{s}$  slew rate. They have the same pin-outs as TL071 and TL081 op amps, as well as being functionally equivalent. And the TL061 units can be programmed for power control by connecting pin 8 to the supply voltage. Units in the TL071 series feature harmonic distortion of 0.01%, typically, and a noise of only 18 nV/ $\sqrt{\text{Hz}}$ . Maximum supply current per amplifier for TL071 is 2.5 mA and the slew rate is 13 V/ $\mu\text{s}$ . Types TL061 and TL071 are compensated single op amps with offset control; types TL062 and TL072 are compensated dual op amps without offset control; types TL064 and TL074 are compensated quadruple op amps with LM324 type pin-outs and the TL075 is a compensated quadruple op amp with an RC 4136 type pin-out.

CIRCLE NO. 343

### Transistor series work from 70 MHz to 1 GHz

California Eastern Laboratories, One Edwards Court, Burlingame, CA 94010. (415) 342-7744. From \$0.50 (1000-qty); stock.

The NE734 series of transistors provides 70-MHz tuned-noise figures of less than 1.5 dB at 2.5 V and 0.5 mA with associated gains of 16 dB and higher. Units in the series can operate from 70 MHz to 1 GHz at bias currents from 0.5 to 20 mA. Transistors are available in T0-92, mini-mold and hermetic metal-ceramic stripline packages or as bare chips.

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