

ELECTRONICS

Australia

**HIFI
NEWS**

NOVEMBER, 1975
AUST. 80c* NZ \$1.00

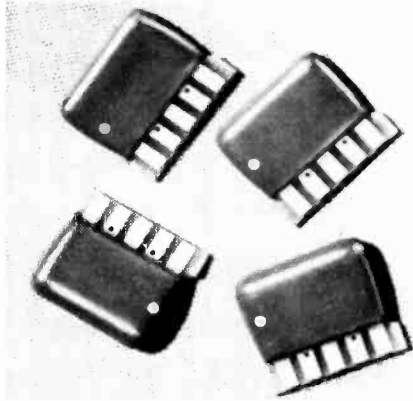
COVER:
COMPUTER FOR
PROGRAMMING
STUDY AT HOME

**TV EDUCATION
VIA SATELLITE
DATA SYSTEM
FOR THE BLIND
UNIT PROTECTS
HIFI SPEAKERS
DIGITAL ALARM
CLOCK USES LSI
EASY TO BUILD
RF Q-METER**

**SPECIAL CATALOG
SUPPLEMENT**

Balanced mixer

Designed for mass usage applications such as TV tuners, FM tuners, mobile radio and CATV converters, the Hewlett-Packard model 5082-9200 printed circuit balanced mixer covers the range from DC to 1200MHz, with a local oscillator range of 100MHz to 1200MHz. Conversion loss is 6.5dB; isolation is 45dB at 200MHz, 25dB at 900MHz. The 2nd order

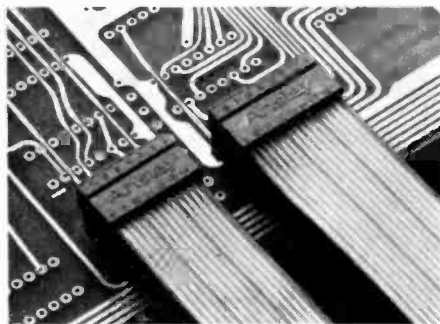


distortion intercept is +38dBm, and its 3rd order intercept is +23dBm.

The mixer contains two Schottky diodes and a PC transformer. It costs less than \$2 in 100k quantities. Hewlett-Packard Australia Pty Ltd, 31-41 Joseph Street, Blackburn, Victoria and branches in each state.

DIP connector

A new series of solderless one piece DIP plug connectors is designed for terminating flat cable to DIL sockets. Both 14 and 16-pin versions are available, from Ansley Electronics division of Thomas and Betts, PO Box 91, Brookvale NSW 2100.



Low profile relay

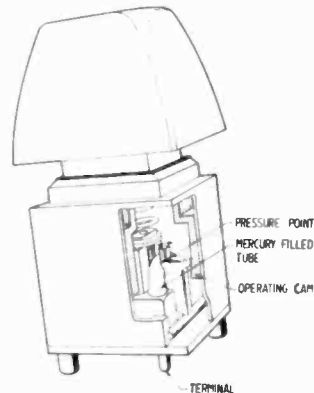
A new range of low profile PC board relays, series 1005, offer rugged construction and trouble free operation. The contacts may be wired to provide either a double make double break or SPDT configuration. Coil sensitivity is 900mW, with versions for nominal coil voltages of 6, 12, 24 and 48V DC. The contact rating

for resistive circuits is 1200VA, with a voltage rating of 240V AC or 125V DC, and a current rating of 6A. Overall size with dust cover is 35.6 x 16.5 x 10.8mm.

The relays are manufactured by Hi-C D'Italia SPA, and available in Australia from A. J. Ferguson Electronics, 29 Devlin Street, Ryde NSW 2112.

Mercury keyswitch

The new M-5 version of the well-known Mercuron keyswitch uses a small cam-operated actuator to provide more precise and reliable operation than previous versions. The switch operates in any position, is absolutely bounce free, and is rated at 200mA/24V DC with a rise time of less than 10 nanoseconds. A

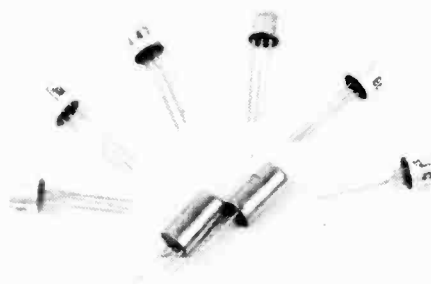


complete line of keyboards in all levels of complexity is available using the M-5 switch, which is available in either single or double pole and NC or NO versions.

Made by Mechanical Enterprises, Mercuron switches are available here from General Electronic Services of 99 Alexander St, Crows Nest, NSW 2065.

Semiconductors

Paradio Electronics announce that they are now sole Australian agents for Best Semiconductors Ltd of Hong Kong, and can offer good stocks of a wide variety of silicon transistors and diodes assembled in Hong Kong from US chips. Devices include BC147-8-9, BC157-8-9, BC327/337, BA222 and other low power devices. Trade enquiries are welcome. Paradio Electronics, of 7a Burton St, Darlinghurst, NSW 2010.



HAM RADIO ELECTRONICS BARGAIN CENTRE

323 ELIZABETH ST., MELBOURNE 677329
390 BRIDGE ROAD, RICHMOND 425174

Please allow for postage and packing when ordering by mail.

THIS MONTH'S SPECIAL

Latest military design multi-band radio, 30 transistors and diodes. With exclusive (LED) light emitting diode tuning indicator for positive station selection. Battery and electric covers all popular AM and FM bands. Frequency Range: AM 535-1605 KHz. FM 88-108 MHz. TV1 56-108 MHz. TV2 174-217 MHz. AIR-PB2 110-174 MHz and WB 162.5 MHz. Power Source: IDC 6 Volts AC 240 Volts Power Output: 350 mW (Maximum 250mW (Undistorted)). Dimension: 9 3/8 x 3 3/4 x 8 Weight: 4 1/4 lbs. (approx.) Supplied Accessories: Earphone, Batteries (4 size D). Reduced to \$49.50. P.P. \$2.50.



SCOOP PURCHASE! TRANSISTOR RADIO CIRCUIT BOARDS

IDEAL FOR HOME CONSTRUCTORS
Due to Tariff cuts on transistor radios, we can offer the items below at this price. Most are in working order but no guarantees at these prices.

THOUSANDS AVAILABLE

AM 8 TRANSISTOR CIRCUIT BOARDS All new parts. 1Fs, capacitors, resistors, etc. \$1.50 each or 3 for \$3.50.

AM/FM CIRCUIT BOARDS 10 transistors, all new. Ideal for use as FM tuner. 88-108 MHz. \$2.75 or 3 for \$7.00.

ALSO LARGE QUANTITY OF RADIOS. In various stages of manufacture. Some AC/DC models AM/FM etc. Speakers, cabinets, etc. Personal shoppers only. From \$3 each.

BRAND NEW 4-TRACK STEREO CARTRIDGE PLAYERS 2-5 Watts per channel at 8 ohms, 12V DC operation. In sealed boxes. \$15 each P.P. \$2.50.

MODEL NC-310 DE LUXE 1 WATT 3 CHANNEL

C.B. TRANSCEIVER
● WITH CALL SYSTEM
● EXTERNAL AERIAL CONNECTION

SPECIFICATIONS, NC-310

Transistors: 13
Channel Number: 3, 27.240 MHz
Clitz. Band
Transmitter Frequency Tolerance: ±0.005%
RF Input Power: 1 Watt
Tone Call Frequency: 2000 Hz
Receiver type: Superheterodyne
\$47.50 each or \$89 a pair. P.P. \$2.00.

COMMUNICATION RECEIVERS AND TRANSCEIVERS

BARLOW WADLEY XCR30 Mk II, all band coverage AM, SSB, CW reception. \$279. Reg. P.P. \$3.50.

KEM KP202 hand held 2 metre Transceiver, 2 Watts output, fitted with xtals for channels 40 and 50, repeaters 1, 2, 3 and 4. \$150. Reg. P.P. \$2.50.

KCP2 Battery Charger for KP202 with 10 rechargeable Ni-Cad batteries. \$35.



200-H. \$13.50, p.p. \$1.00

90° quadrant meter. Pocket size.

AC/V: 10V, 50V, 100V, 500V, 1000V (10,000Ω/V).

DC/V: 5V, 25V, 50V, 250V, 500V, 2500V (20,000Ω/V).

DC/A: 50mA, 2.5mA, 250mA
OHM: 60kΩ, 6MΩ
Capacitance: 100pF to .01-μF, .001μF to .1μF.

db: -20db to +22db.
Audio Output: 10V, 50V, 120V, 1000V AC

Approx. size: 4 1/2" x 3 3/4" x 1-1/8"