

COMPONENTS

LEDs directly replace phone incandescents

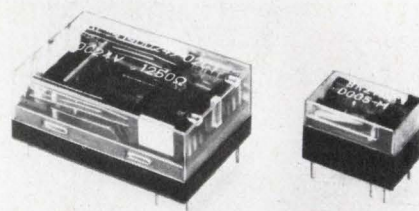
Data Display Products, P.O. Box 91072, Los Angeles, CA 90009. (213) 677-6166. \$0.80 (OEM qty.); stock to 6 wks.

The first LEDs that directly replace incandescent lights in standard telephone pushbutton sockets, type 55BS, are mounted in a short No. 5 base. They

are produced in red, amber and green. With a drive current of 20 mA, output is typically 50 mcd (red), 35 mcd (amber) and 24 mcd (green) with clear tinted encapsulation. Diffusive encapsulation also is available. A built-in resistor allows operation from 5 to 48 V dc. For ac operation over 12 V, a built-in rectifier is used. The cathode is marked with a green dot; however, units with built-in resistors are not damaged if they are operated momentarily in the wrong direction.

CIRCLE NO. 347

Relays show low profile for PC-board mounting



Impact Electrical Products, Inc., 7 Westchester Plaza, Elmsford, NY 10523. Harry Hopper (914) 592-2880. \$1.96 (1000 qty.).

Low-profile PC-board relays, less than 0.5-in. high, feature bifurcated contacts, a life of more than 1-million operations at 1 A, 30 V dc and a mechanical life of more than 30-million operations. The relays are available as DPDT and 4PDT and consume low power—approximately 0.45 W for DPDT and 0.6 W for 4PDT.

CIRCLE NO. 348

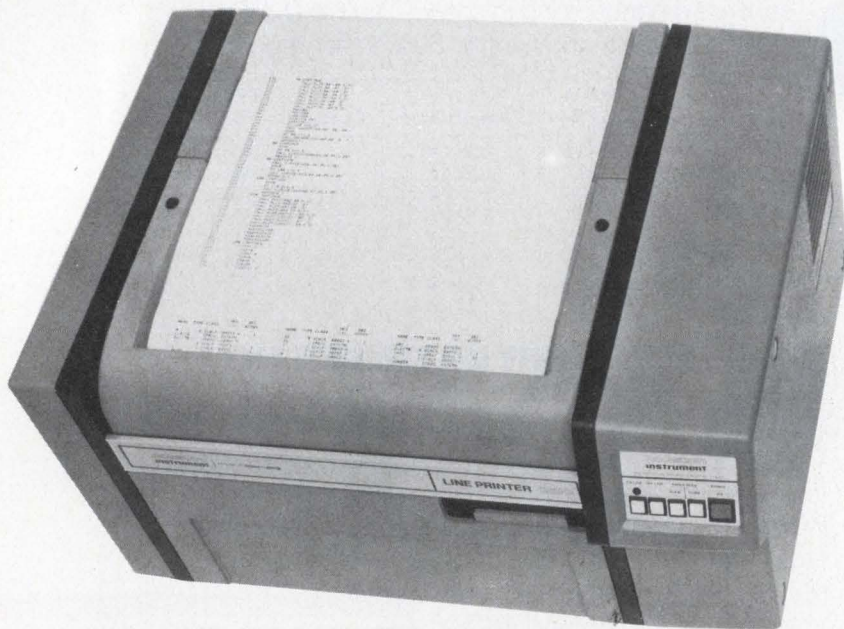
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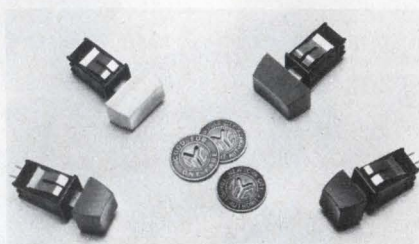
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CIRCLE NUMBER 67

Modular PB switches employ reed contacts



Dialight, 203 Harrison Pl., Brooklyn, NY 11237. (212) 497-7600. \$1.10 (1000 up); stock.

Modular pushbutton reed switches, the 541 Series, are designed for reliability and long life with electrical characteristics especially suited to interface semiconductor circuits. A reed element is hermetically sealed in a capsule to isolate contacts from contamination. For impact and vibration resistance, the switches are resiliently mounted in a high-impact glass-reinforced plastic housing, and all internal connections are welded. Electrical specifications include 50-V-dc max. at 20 mA max. of switched current, resistive load; 1000-MΩ min. insulation resistance; and initial contact resistance 0.5 Ω max., rising to no more than 1.25 Ω at the end of switch life. Contact configurations is SPST NO. Terminals are designed for PC boards, wire-wrapping or hand soldering.

CIRCLE NO. 349