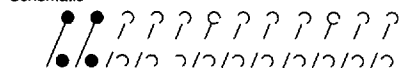


- **PROVEN WASHABLE DESIGN—NO BOOTS, CAPS OR TAPE REQUIRED—OPEN BASE DESIGN ALLOWS CLEANERS TO FLUSH THROUGH—NEW CLOSED BASE MODELS ALSO AVAILABLE**
- **HIGH TEMPERATURE MATERIALS (UL 94V-0) WITHSTANDS SOLDERING AND CLEANING TEMPERATURES AND PROCESSES**
- **SLIDE ACTUATORS WITH POSITIVE DETENT—PREVENT ACCIDENTAL ACTUATION**
- **RELIABLE WIPING CONTACT MECHANISM**
- **TIN-LEAD ALLOY COATS ALL SIDES OF TERMINALS FOR JOINT INTEGRITY**

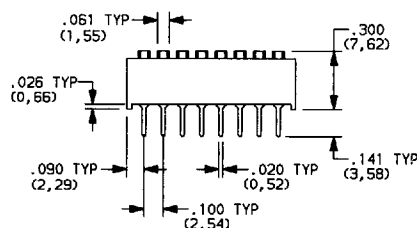
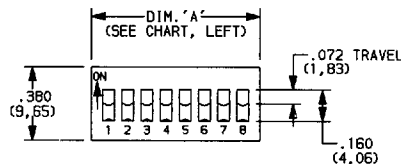
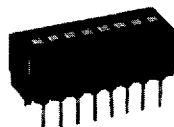
WITH OPEN BASE

PART NO.	NO. POS.	DIM. 'A'
BD01	1	.180 (4,57)
BD02	2	.280 (7,11)
BD03	3	.380 (9,65)
BD04	4	.480 (12,19)
BD05	5	.580 (14,73)
BD06	6	.680 (17,27)
BD07	7	.780 (19,81)
BD08	8	.880 (22,35)
BD09	9	.980 (24,89)
BD10	10	1.080 (27,43)
BD12	12	1.280 (32,51)

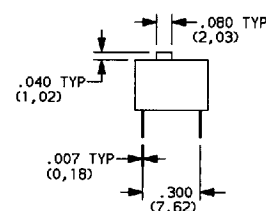
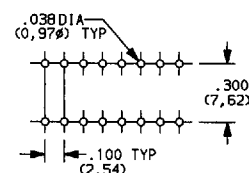
Schematic



SPST



PC MOUNTING



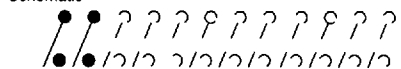
Part No. Shown: BD08

WITH CLOSED BASE & EPOXY TERMINAL SEAL

(SUITABLE FOR BOTTOM WASH CLEANING METHODS ONLY)

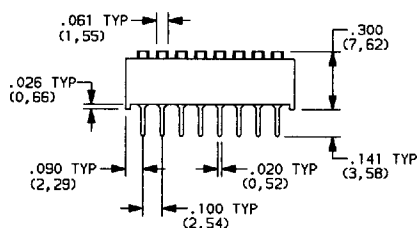
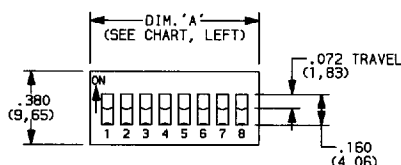
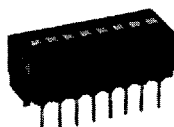
PART NO.	NO. POS.	DIM. 'A'
BD02E	2	.280 (7,11)
BD04E	4	.480 (12,19)
BD05E	5	.580 (14,73)
BD06E	6	.680 (17,27)
BD08E	8	.880 (22,35)
BD10E	10	1.080 (27,43)
BD12E	12	1.280 (32,51)

Schematic

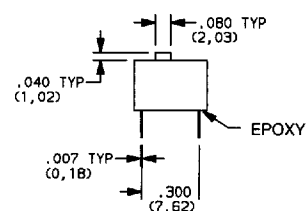
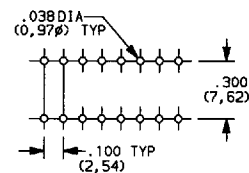


SPST

NEW



PC MOUNTING



Part No. Shown: BD08E



SPECIFICATIONS

SWITCH FUNCTION: SPST- 1 thru 12 position available (except position 11).

CONTACT RATING:
 Carry: 100 mA max. @ 50 V DC.
 Switch: 100 mA max @ 5 V DC or 25 mA max. @ 25 V DC.

MECHANICAL & ELECTRICAL LIFE: 10,000 make-and-break cycles at full load, each circuit.

CONTACT RESISTANCE: Below 50 milliohms typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 10^9 ohms min.

DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between adjacent terminals.

CAPACITANCE: 5 pF max. between adjacent terminals.

STORAGE & OPERATING TEMPERATURE: -40°C to 85°C.

SHOCK: Withstands 20g 11 ms sawtooth waveform with no contact opening greater than 10 microseconds.

VIBRATION: No contact opening greater than 10 microseconds and no contact closure when exposed to vibration .06 in DA or 5g, whichever is less, from 10 to 55 Hz, and 10g from 55 to 500 Hz.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Switches supplied in rigid dispensing tubes. Switch position 1 denotes pin no. 1. All switch actuators in 'OFF' position standard.

MATERIALS

CASE & COVER: Glass filled polyester (PBT), flame retardant (UL 94V-0).

ACTUATOR: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0).

CONTACTS: WE#1 over palladium silver over nickel over phosphor bronze.

TERMINALS: Phosphor bronze, with tin-lead alloy over nickel plate.

TERMINAL SEAL: Epoxy.

NOTE: Specifications and materials listed above are general specifications. Specifications available for specific and custom switches, consult factory.

INSTALLATION, SOLDERING & CLEANING

All BD Series DIP Switches can be hand soldered or machine soldered without the use of boots, caps, tapes or special attention. Open base washable models have unique design, allowing solvent cleaners and water/detergent solutions to flush and clean the electrical contacts of contaminants and fluxes. Closed base models with epoxy terminal sealing recommended for no-wash or bottom-wash assembly methods only. For best results, follow these recommendations:

- 1) Wave soldering recommended at 500° F solder temperature.
- 2) Hand solder using 30 watt small tip iron controlled at 500° F, 10 sec. max./terminal.
- 3) Open base washable models—clean flux using forced rinse, high agitation or triple bath cleaning method. DO NOT mask or cover switch in any way during cleaning. Switch is designed for easy solvent flush out.
- 4) Closed base models with epoxy terminal seal—recommended for no-wash or bottom-wash assembly methods only.
- 5) All switch actuators must be in 'OFF' position during soldering and cleaning processes.