

DIP —

- *Traditional full profile DIP switch*
- *Extended actuator for easy actuation*
- *Open bottom construction allows for solder washing without the need for tape seal*
- *RoHS compliant*

- *Address switch for industrial controls*
- *Logic switching for computers and peripherals*
- *Function controlling for numerous applications*

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

Carry: 100 mA max. @ 50 V DC.

Switch: 100 mA max. @ 5 V DC or 25 mA max. @ 25 V DC.

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

INSULATION RESISTANCE: 10^9 ohms min.

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

CAPACITANCE: 5pF 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 in full-tube quantities only; this may effect order quantity. Number of switches per tube varies with model. Switch position 1 denotes pin number 1. All switch actuators in 'OFF' position, standard.

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: Gold over nickel over phosphor bronze.

TERMINALS: Matte-tin over nickel over phosphor bronze.

Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

BD08

Technical drawing of a mechanical part, likely a valve or actuator component, showing two views: a top view and a side view. The top view shows a rectangular base with a series of vertical pins or actuators. Dimensions include .380 (9,65) for the base height, .072 (1,83) for the pin height, and .0072 (0,18) for the pin spacing. The side view shows the profile of the pins, with dimensions like .026 (0,66) for the base width, .090 (2,29) for the pin height, and .100 TYP. (2,54) for the pin spacing. A large diagonal line is drawn across the drawing, possibly indicating a section line or a break.

PART NUMBER	NO.POS.	DIM. 'A'	QUANTITY PER TUBE
BD01	1	.180 (4,57)	115
BD02	2	.280 (7,11)	74
BD03	3	.380 (9,65)	54
BD04	4	.480 (12,19)	43
BD05	5	.580 (14,73)	35
BD06	6	.680 (17,27)	30
BD07	7	.780 (19,81)	26
BD08	8	.880 (22,35)	23
BD09	9	.980 (24,89)	21
BD10	10	1.080 (27,43)	19
BD12	12	1.280 (32,51)	16

Schematic

SPST



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

BD Series Standard Profile DIP Switches

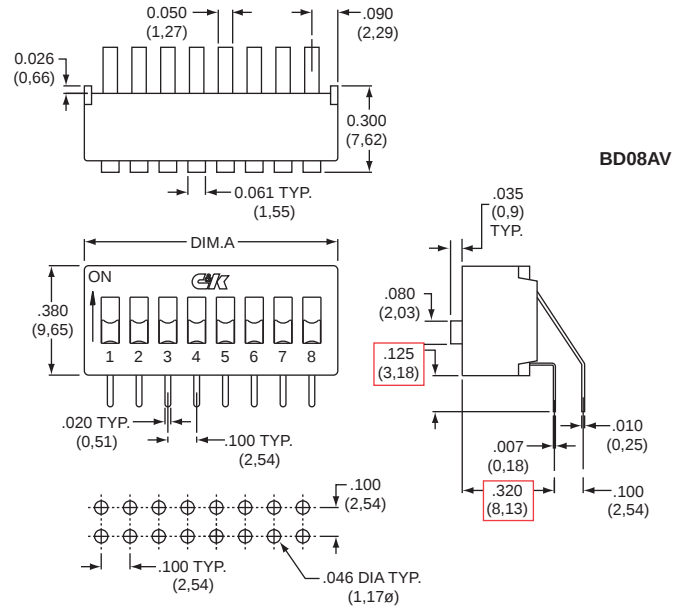
Open Base and AV Right Angle Terminal Style

PART NUMBER	NO.POS.	DIM. 'A'	QUANTITY PER TUBE
BD02AV	2	.280 (7,11)	72
BD03AV	3	.380 (9,65)	52
BD04AV	4	.480 (12,19)	42
BD05AV	5	.580 (14,73)	35
BD06AV	6	.680 (17,27)	29
BD07AV	7	.780 (19,81)	26
BD08AV	8	.880 (22,35)	23
BD09AV	9	.980 (24,89)	20
BD10AV	10	1.080 (27,43)	18
BD12AV	12	1.280 (32,51)	15

Schematic

SPST

NOTE: Box dimensions show difference between AV and AV2 terminal styles.



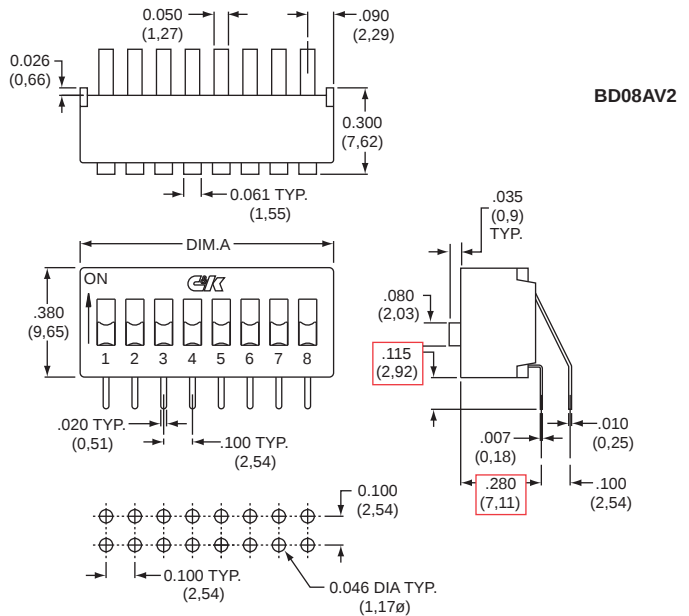
Open Base and AV2 Right Angle Terminal Style

PART NUMBER	NO.POS.	DIM. 'A'	QUANTITY PER TUBE
BD02AV2	2	.280 (7,11)	72
BD03AV2	3	.380 (9,65)	52
BD04AV2	4	.480 (12,19)	42
BD05AV2	5	.580 (14,73)	35
BD06AV2	6	.680 (17,27)	29
BD07AV2	7	.780 (19,81)	26
BD08AV2	8	.880 (22,35)	23
BD09AV2	9	.980 (24,89)	20
BD10AV2	10	1.080 (27,43)	18
BD12AV2	12	1.280 (32,51)	15

Schematic

SPST

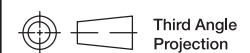
NOTE: Box dimensions show difference between AV and AV2 terminal styles.



Installation, Soldering and Cleaning

All BD Series Standard Profile DIP Switches can be hand soldered or machine soldered without the use of boot, 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 the contaminants and fluxes. For best results, follow these directions:

- 1) Wave soldering recommended at 500° F (260°C) solder temperature.
- 2) Hand solder using 30 watt small tip iron controlled at 500° F (260°C), 10 seconds 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) All switch actuators must be in 'OFF' position during soldering and cleaning processes.



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

