

SPA Series Single In-line Package Switches



DIP

Features/Benefits

- **Thin Single In-line Packaging** saves PCB space
- **Retention feature** holds part to PCB prior to soldering
- **Available in vertical or right angle models**
- **High pressure contact system** does not require tape sealing
- **RoHS compliant**

Typical Applications

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



How To Order

Complete part numbers for SPA Series standard profile SIP Switches are shown on pages I-21 thru I-22.

Specifications

CONTACT RATING:

Carry: 100 mA

Switching: 10 mA

MECHANICAL AND ELECTRICAL LIFE: 1,000 cycles min.

CONTACT RESISTANCE: 50 mΩ max. @ 20 V DC 10mA.

INSULATION RESISTANCE: 100 MΩ min. @ 100 V DC.

DIELECTRIC STRENGTH: 1 minute @ 300 V AC.

CAPACITANCE: 5pF max. between adjacent terminals.

OPERATING TEMPERATURE: -30°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

OPERATING FORCE: 4 Newtons

SOLDERABILITY: Dip & look solderability testing per C&K spec.
#448. Unplated edges of terminals permitted.

PACKAGING: Switches supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantity. Numbers of switches per tube varies with model.

Materials

BASE: PPS (UL94V-0).

COVER: PBT (UL94V-0).

ACTUATOR: 4/6 Nylon (UL 94V-0).

MOVABLE CONTACT: Beryllium copper alloy, gold over nickel plate.

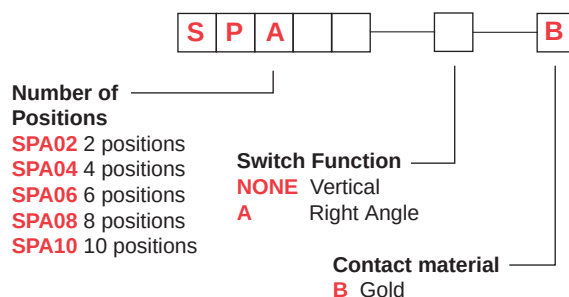
FIXED CONTACT: Copper alloy, gold over nickel plate.

CLIP: Phosphor bronze wire. Phosphor bronze, Tin over nickel plate.

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

How To Order

Our easy Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.



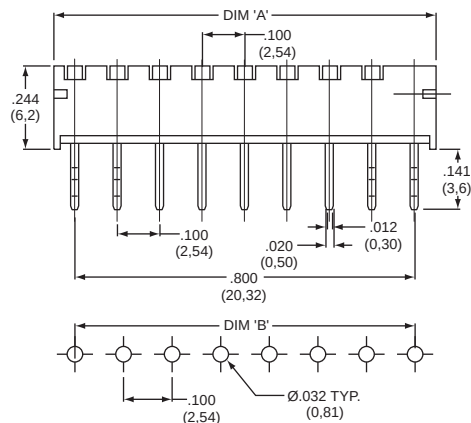
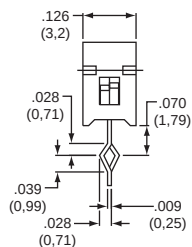
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

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Vertical



SPA08B



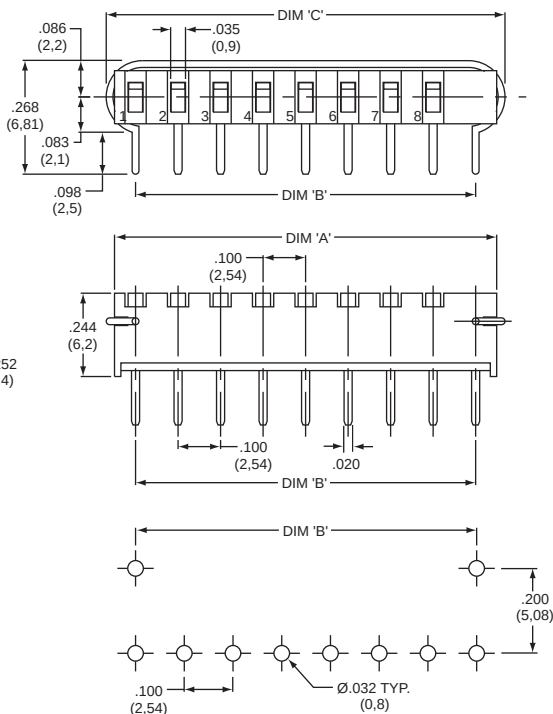
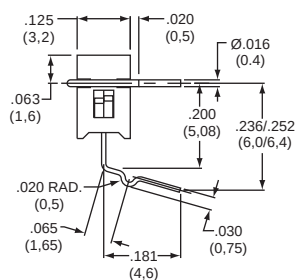
ROHS PART NUMBER	NO. POS.	DIM. 'A'	DIM. 'B'	QUANTITY PER TUBE
SPA02B	2	.342 (8,68)	.200 (5,08)	50
SPA04B	4	.542 (13,76)	.400 (10,16)	30
SPA06B	6	.742 (18,84)	.600 (15,24)	25
SPA08B	8	.942 (23,92)	.800 (20,32)	20
SPA10B	10	1.142 (29,00)	1.000 (25,40)	15

Schematic

SPST



SPA08AB



ROHS PART #	NO. POS.	DIM. 'A'	DIM. 'B'	QUANTITY DIM. 'C'	PER TUBE
SPA02AB	2	.342 (8,68)	.200 (5,08)	.339 (8,6)	50
SPA04AB	4	.542 (13,76)	.400 (10,16)	.540 (13,7)	30
SPA06AB	6	.742 (18,84)	.600 (15,24)	.736 (18,7)	25
SPA08AB	8	.942 (23,92)	.800 (20,32)	.937 (23,8)	20
SPA10AB	10	1.142 (29,00)	1.000 (25,40)	1.138 (28,9)	15

Schematic

SPST