

BOURNS®

Features

- Normal open contact system
- Low contact resistance
- High reliability
- Self-clean on contact area

Applications

- PC interface boards
- LANs
- Auto dialing systems
- Remote controlled systems

SDS/SDP/SDA Series Slide DIP Switch

Electrical Characteristics

Electrical Life2,000 operations min. per switch, 24VDC, 25mA
 Non-Switching Rating100mA, 50VDC
 Switching Rating25mA, 24 VDC
 Contact Resistance (@ current 100mA)50 milliohms max. at initial 100 milliohms max. after life test
 Insulation Resistance at 500VDC ±15V.....100 megohms min. between adjacent terminals
 Dielectric Strength500VDC/minute
 Capacitance5pF max. between adjacent terminals
 CircuitSingle pole single throw

Environmental Characteristics

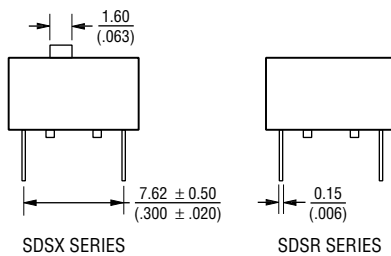
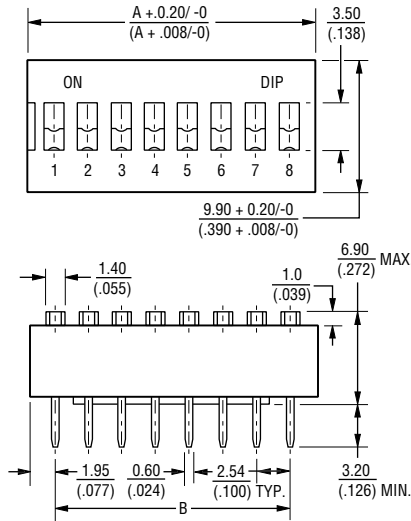
Mechanical Life...2,000 operations per switch
 Operation Force800g max.
 Stroke.....2.0mm
 Operating Temp. Range.....-40°C to +85°C
 Storage Temperature.....-40°C to +85°C
 Vibration TestMIL-STD-202F, Method 201A
 Frequency10-55-10 Hz/1 minute
 DirectionsX,Y,Z, three mutually perpendicular directions
 Time2 hours each direction.
 Shock TestMIL-STD-202F, Method 213B, Condition A
 Gravity50G (peak value), 11 msec
 Direction & Times.....6 sides and 3 times in each direction.
 High reliability

Physical Characteristics

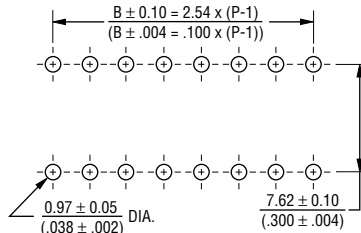
Base and Cover Materials
 ..UL94V-0 PBT plus glass fiber reinforced
 ColorBlack base, red cover
 Actuator Materials.....UL94V-0 PBT plus glass fiber reinforced
 ColorWhite
 Contact MaterialsPhosphor bronze with 3 micro inches gold plating over nickel
 Top Seal Materials.....Polyester film
 Potting Materials.....Epoxy
 Wave Soldering Process*
Recommended solder temp. at 260°C (500°F) max., 5 sec.
 Hand Soldering Process*
Use a soldering iron of 30 watts or less, controlled at 320°C (608°F) for approx. 2 sec. while applying solder
 Cleaning Process*
Flux clean using force rinse, high agitation or triple bath cleaning method. Freon TF or TE give excellent results.
 When vapor methods are used, do not subject the switch to solvents at temperatures above 51°C (125°F).
 Standard Packaging
IC tubes/all poles in the "off" position

Product Dimensions

SDS Series



RECOMMENDED PCB LAYOUT

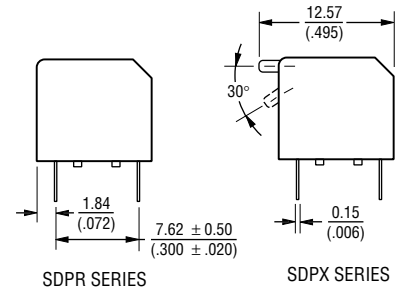
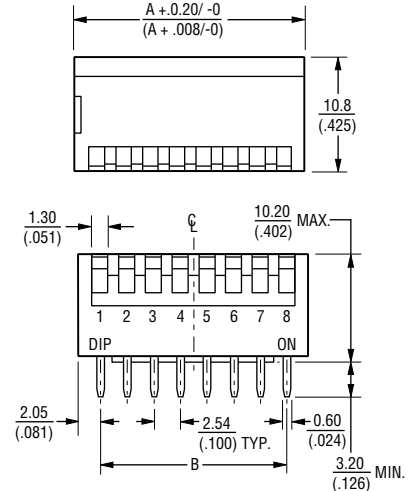


SCHEMATIC (TYP.)
 2,3,4,5,6,7,8,9,10,12 POSITIONS AVAILABLE

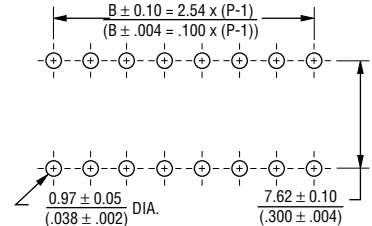


SEE FOLLOWING PAGE FOR A & B DIMENSION CHART.

SDP Series



RECOMMENDED PCB LAYOUT



SCHEMATIC (TYP.)
 2,3,4,5,6,7,8,9,10,12 POSITIONS AVAILABLE



SEE FOLLOWING PAGE FOR A & B DIMENSION CHART.

DIMENSIONS: $\frac{MM}{(IN)}$

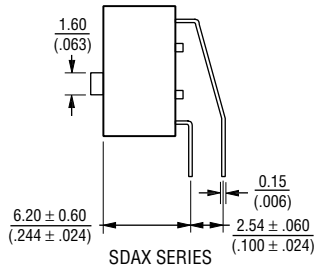
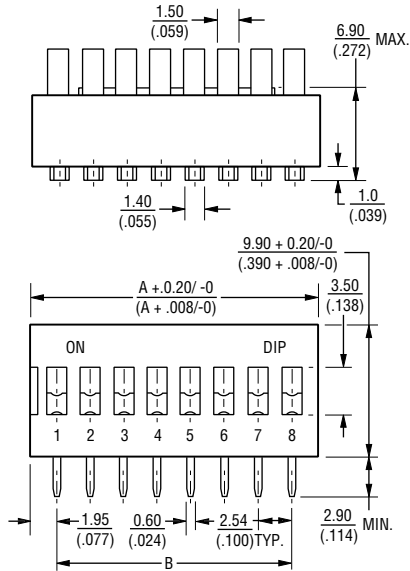
*For best results, keep all switch contacts in their "off" position for all operations.

SDS/SDP/SDA Series Slide DIP Switch

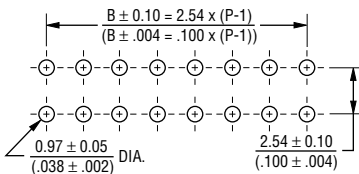


Product Dimensions

SDA Series



RECOMMENDED PCB LAYOUT



SCHEMATIC (TYP.)

2,3,4,5,6,7,8,10,12 POSITIONS AVAILABLE



SDS/SDP/SDA Series Dimensions

POSITIONS	DIM. A	DIM. B
12	31.84	27.94
10	26.76	22.86
9	24.22	20.32
7	21.68	17.78
7	19.14	15.24
6	16.60	12.70
5	14.06	10.16
4	11.52	7.62
3	8.98	5.08
2	6.44	2.54

How to Order

Model _____

Type _____

- S = Standard
- A = Right Angle Type
- P = Piano Type

Actuator _____

- X = Raised Actuator
- R = Recessed Actuator

Number of Positions _____

- 2 = 2 Positions
- 3 = 3 Positions
- 4 = 4 Positions
- 5 = 5 Positions
- 6 = 6 Positions
- 7 = 7 Positions
- 8 = 8 Positions
- 9 = 9 Positions
- 10 = 10 Positions
- 12 = 12 Positions

Cover Color _____

- R = Red

Switch Function _____

(Piano type ONLY - Type "P")

- X = Push Down "On"
- U = Push Down "Off"

Seal _____

- X = Standard (Not Sealed)
- T = Top Tap Sealed