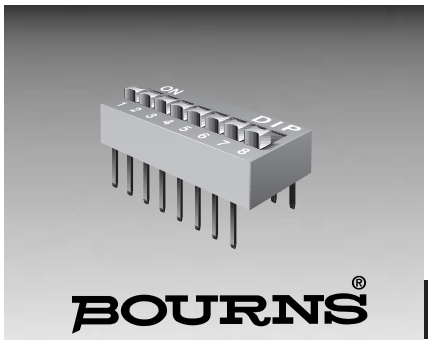


BOURNS®

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 Life .....2,000 operations min. per switch, 24VDC, 25mA
Non-Switching Rating 100mA, 50VDC
Switching Rating .....25mA, 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 Strength.....500VDC/minute
Capacitance .....5pF max. between adjacent terminals
Circuit .....Single pole single throw

Environmental Characteristics

Mechanical Life..2,000 operations per switch
Operation Force .....800g max.
Stroke.....2.0mm
Operating Temp. Range.....-40°C to +85°C
Storage Temperature .....-40°C to +85°C
Vibration Test .....MIL-STD-202F, Method 201A
Frequency .....10-55-10 Hz/1 minute
Directions .....X,Y,Z, three mutually perpendicular directions
Time.....2 hours each direction. High reliability
Shock Test .....MIL-STD-202F, Method 213B, Condition A
Gravity .....50G (peak value), 11 msec
Direction & Times.....6 sides and 3 times in each direction. High reliability

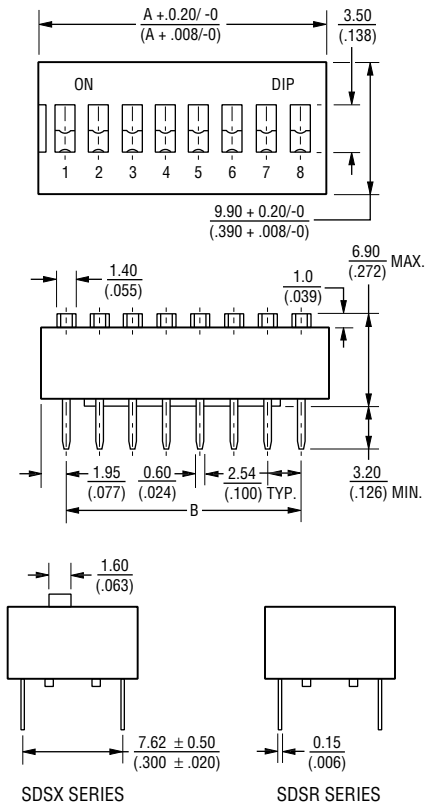
Physical Characteristics

Base and Cover Materials ..UL94V-0 PBT plus glass fiber reinforced
Color .....Black base, red cover
Actuator Materials.....UL94V-0 PBT plus glass fiber reinforced
Color .....White
Contact Materials ....Phosphor 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

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

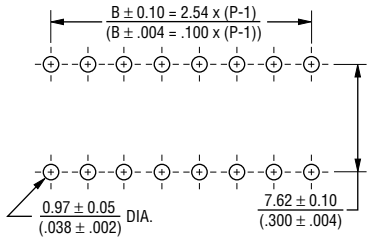
Product Dimensions

SDS Series

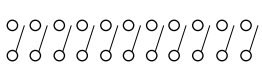


SDSX SERIES SDSR SERIES

RECOMMENDED PCB LAYOUT

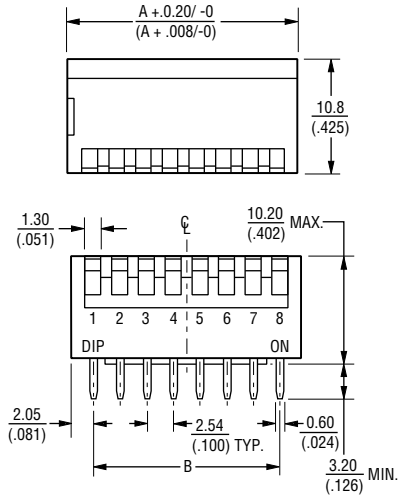


SCHEMATIC (TYP.)
2,3,4,5,6,7,8,9,10,12 POSITIONS AVAILABLE



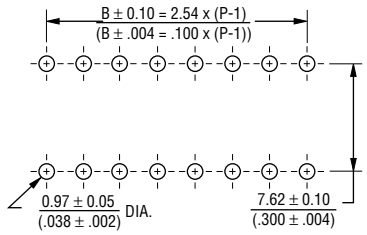
SEE FOLLOWING PAGE FOR A & B DIMENSION CHART.

SDP Series



SDPR SERIES SDPX 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: MM / (IN)