

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

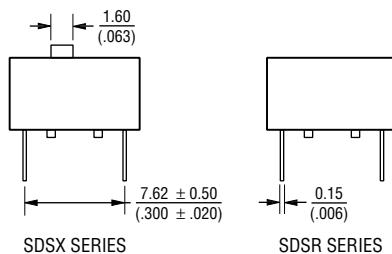
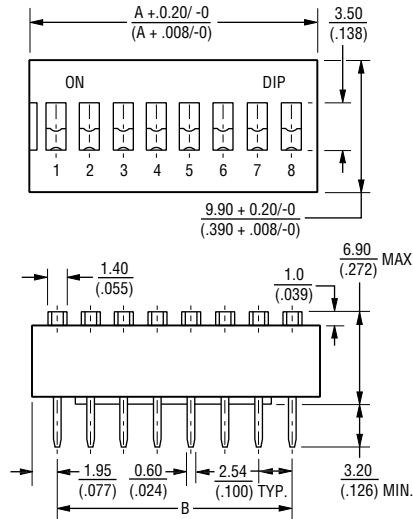
Mechanical Life...2,000 operations per switch
Operation Force800g max.
Stroke.....2.0mm
Operating Temp. Range.....-40°C to +85°C
Storage Temperature.....-40°C to +85°C
Vibration TestMIL-STD-202F,
Method 201A
Frequency10-55-10 Hz/1 minute
DirectionsX,Y,Z, three mutually
perpendicular directions
Time2 hours each direction.
High reliability
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

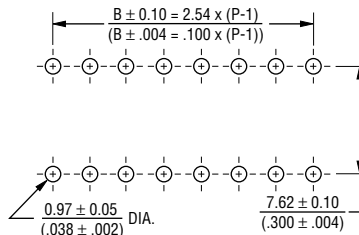
Base and Cover Materials
...UL94V-0 PBT plus glass fiber reinforced
ColorBlack base, red cover
Actuator Materials.....UL94V-0 PBT
plus glass fiber reinforced
ColorWhite
Contact MaterialsPhosphor bronze with
3 micro inches gold plating over nickel
Top Seal Materials.....Polyester film
Potting MaterialsEpoxy
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



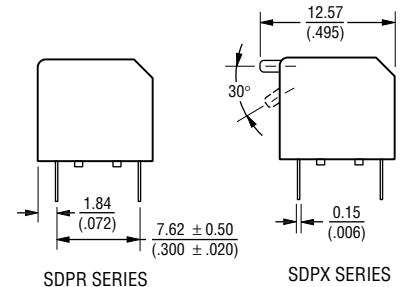
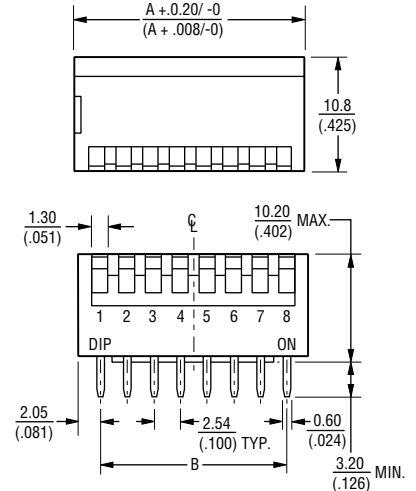
SCHEMATIC (TYP.)

2,3,4,5,6,7,8,9,10,12 POSITIONS AVAILABLE

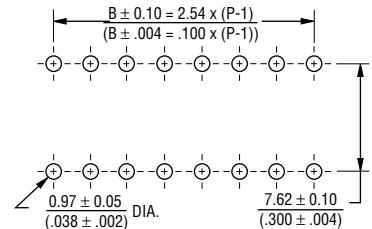


SEE FOLLOWING PAGE FOR A & B DIMENSION CHART.

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.