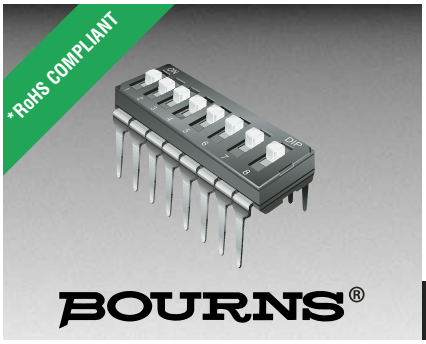


Features

- Double contacts offer high reliability
- Low contact resistance
- Self-clean on contact area
- Splay terminals allow for automatic insertion by IC insertion machine
- Straight terminals are available for manual insertion

The SND Series is currently available, although not recommended for new designs.

- RoHS compliant*

SND Series DIP Switch (Machine Insertable Type)

Electrical Characteristics

Electrical Life .....2,000 operations min. per switch, 24 VDC, 25 mA
Non-Switching Rating .....100 mA, 50 VDC
Switching Rating .....25 mA, 24 VDC
Contact Resistance
.....50 milliohms max. at initial
.....100 milliohms max. after life test
Insulation Resistance....100 megohms min.
Dielectric Strength .....500 VAC/minute
Capacitance .....5 pf max. between adjacent closed switch
Circuit .....Single pole single throw

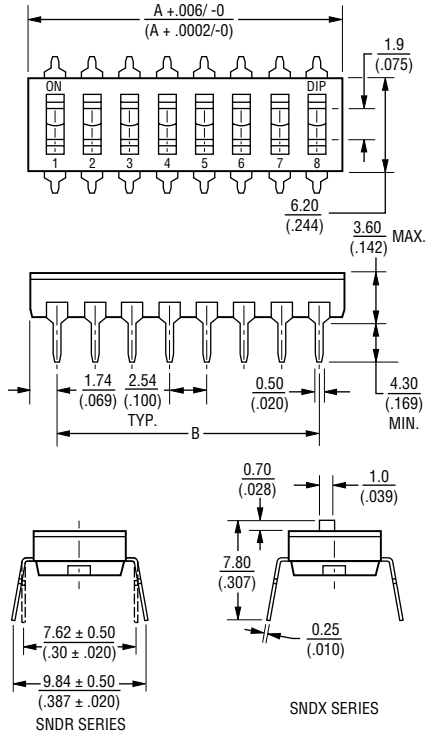
Environmental Characteristics

Mechanical Life..2,000 operations per switch
Operation Force .....1,000 g max.
Stroke .....1.0 mm
Operating Temp. Range....-20 °C to +85 °C
Storage Temperature .....-40 °C to +85 °C
Vibration Test .....MIL-STD-202F, Method 201A
Frequency .....10-55-10 Hz/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 .....50 G (peak value), 11 msec
Direction & Times.....6 sides and 3 times in each direction. High reliability

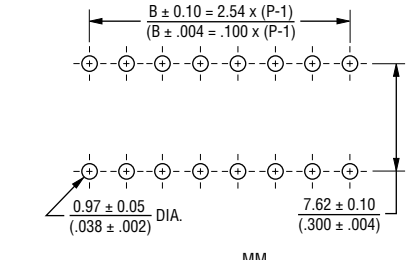
Physical Characteristics

Base and Cover Materials
.....UL94V-0 high-temperature thermoplastic PPS
Color .....Black
Actuator Materials.....UL94V-0 nylon thermoplastic
Color .....White
Contact Materials .....Alloy copper
Terminal Materials .....Brass
Contact Plating Materials
.....3 micro inches gold plating over 40 micro inches nickel
Terminal Plating Materials.....Gold
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
Standard Packaging
.....IC tubes/all poles in the "off" position

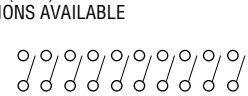
Product Dimensions



RECOMMENDED PCB LAYOUT



SCHEMATIC (TYP.)
1-12 POSITIONS AVAILABLE



SND Series Dimensions

MODEL NO.	POS.	DIM. A	DIM. B
SND-12	12	31.42 (1.237)	26.94 (1.100)
SND-10	10	26.34 (1.037)	22.86 (.900)
SND-9	9	23.80 (.937)	20.32 (.800)
SND-8	8	21.26 (.837)	17.78 (.700)
SND-7	7	18.72 (.737)	15.24 (.600)
SND-6	6	16.18 (.637)	12.70 (.500)
SND-5	5	13.64 (.537)	10.16 (.400)
SND-4	4	11.10 (.437)	7.62 (.300)
SND-3	3	8.56 (.337)	5.08 (.200)
SND-2	2	6.02 (.237)	2.54 (.100)
SND-1	1	3.48 (.137)	—

How to Order

SND X - 1 S - X

Model

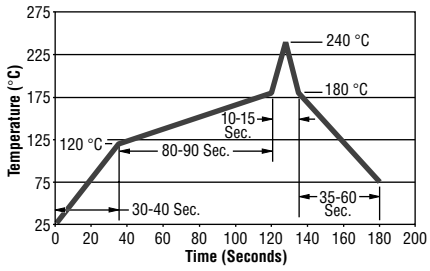
Actuator
- X = Raised Actuator
- R = Recessed Actuator

Number of Positions
- 1 = 1 Position
- 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

Terminal Type
- S = Splay (Machine Insertion Type)
- H = Straight (Manual Insertion Type)

Seal
- X = Standard (Not Sealed)
- T = Top Tape Sealed ("R" actuator only, excluding 1 position)

Reflow Soldering Profile



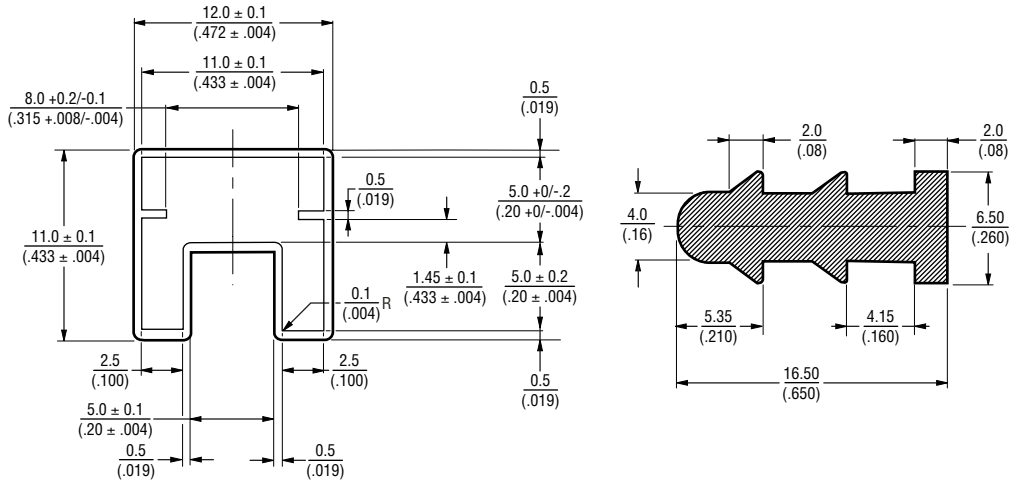
†For best results, keep all switch contacts in their "off" position for all operations.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

SND Series DIP Switch (Machine Insertable Type)

BOURNS®

Packaging Specifications



REV. 02/06

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