



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 Life2,000 operations min. per switch, 24 VDC, 25 mA
 Non-Switching Rating100 mA, 50 VDC
 Switching Rating25 mA, 24 VDC
 Contact Resistance50 milliohms max. at initial
100 milliohms max. after life test
 Insulation Resistance.....100 megohms min.
 Dielectric Strength500 VAC/minute
 Capacitance5 pf max. between adjacent closed switch
 CircuitSingle pole single throw

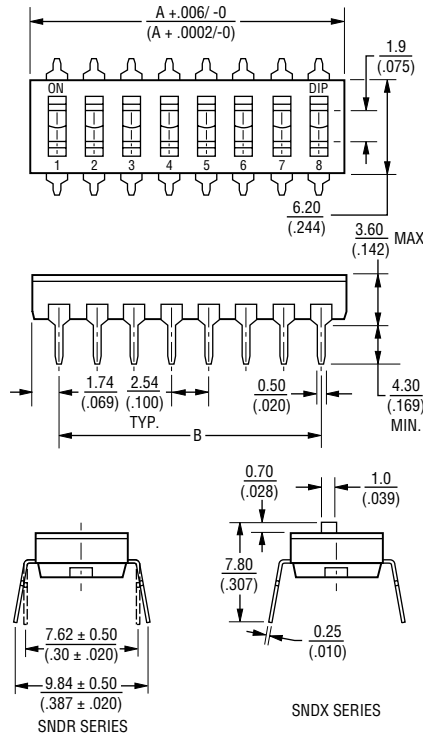
Environmental Characteristics

Mechanical Life ..2,000 operations per switch
 Operation Force1,000 g max.
 Stroke1.0 mm
 Operating Temp. Range.....-20 °C to +85 °C
 Storage Temperature-40 °C to +85 °C
 Vibration TestMIL-STD-202F, Method 201A
 Frequency10-55-10 Hz/minute
 DirectionsX,Y,Z, three mutually perpendicular directions
 Time2 hours each direction.
 Shock TestMIL-STD-202F, Method 213B, Condition A
 Gravity50 G (peak value), 11 msec
 Direction & Times.....6 sides and 3 times in each direction.
 High reliability

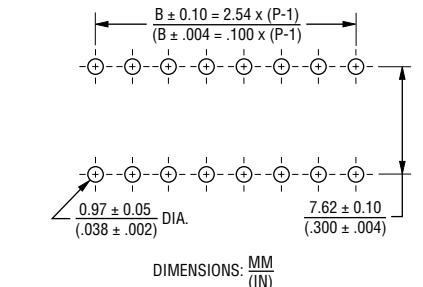
Physical Characteristics

Base and Cover MaterialsUL94V-0 high-temperature thermoplastic PPS
 ColorBlack
 Actuator MaterialsUL94V-0 nylon thermoplastic
 ColorWhite
 Contact MaterialsAlloy copper
 Terminal MaterialsBrass
 Contact Plating Materials3 micro inches gold plating over 40 micro inches nickel
 Terminal Plating MaterialsGold
 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

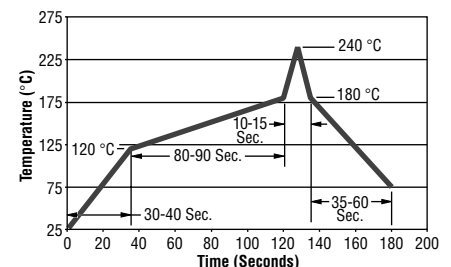
Terminal Type _____

- 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

