

SPECIFICATIONS

SWITCH FUNCTION: SPST, 1 thru 12 positions.
 CONTACT RATING: Switch : 25 mA @ 24VDC.
 Carry : 100 mA @ 50VDC.
 INSULATION RESISTANCE: 100M Ω min @ 500 VDC.
 CONTACT RESISTANCE: Initial : 50m Ω @ 2-4VDC @ 100mA.
 After Life : 100m Ω @ 2-4VDC @ 100mA.
 OPERATING LIFE: 2,000 make-and-break cycle each circuit.
 OPERATING FORCE: 1000gf max.
 TRAVEL, ACTUATOR: 2.0mm typical.

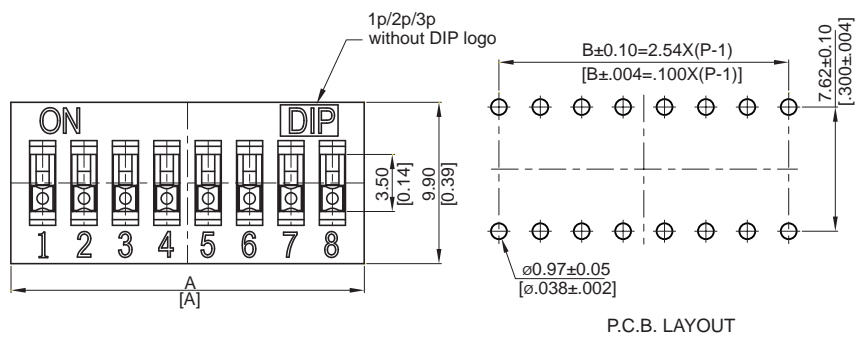
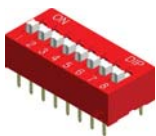
DIELECTRIC STRENGTH: 500 V RMS min @ sea level
 between adjacent terminals.
 CAPACITANCE: 5pf max. between adjacent terminals.
 TEMPERATURE RANGE: Operating/Storage : -40°C to 85°C.
 VIBRATION: To MIL-STD-202F. Method 201A.
 SHOCK: To MIL-STD-202F. Method 213B, Condition A.
 SOLDERING RECOMMENDATION: Wave : 500°F(260°C) for 5 sec
 max. Hand : 30W soldering iron @ 608°F(320°C) for 2s typical. Keep all
 switches in the "OFF" position during soldering and cleaning process.

HOW TO ORDER

Model No.	Actuator Type	Number Of Position	Color of Cover	Seal	Lead Free Solderable
NDS NDA NDP	□ = Raised Actuator R = Recessed Actuator □ = Short Key L = Long Key	01~10,12 02~10,12	□ = Red B = Blue K = Black	□ = Regular T = Top Tape Sealed	V

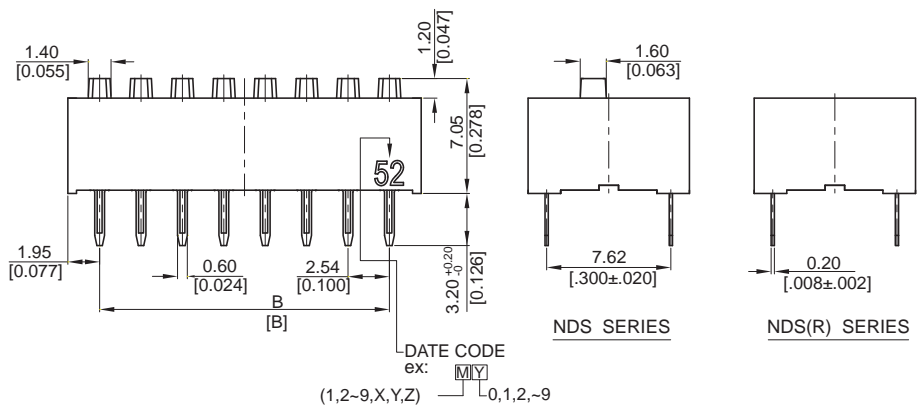
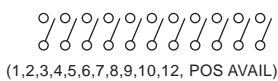
MODEL OPTIONS

1 PC PIN



NDS

SCHEMATIC(TYP.)

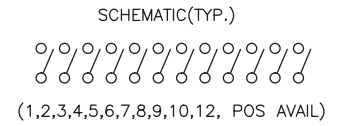
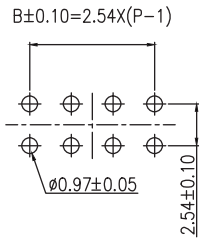
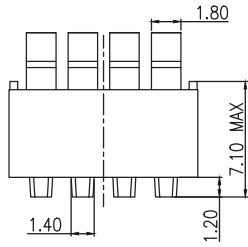
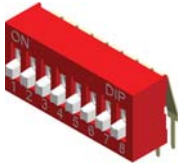


Position 1 denotes Pin NO. 1

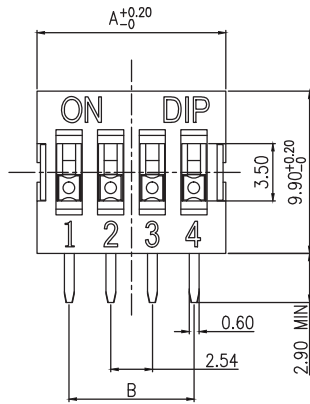
NDS NDA NDP Series

DIP Switches

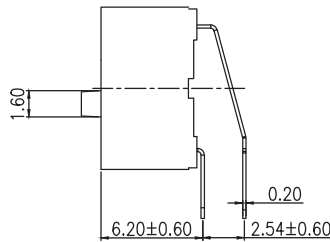
2 RIGHT ANGLE PC PIN



NDA

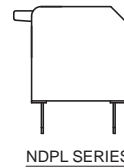
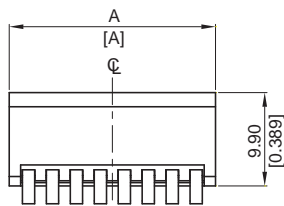
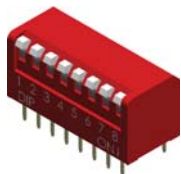


P.C.B. LAYOUT

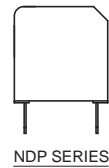


Position 1 denotes Pin NO. 1

1 PC PIN

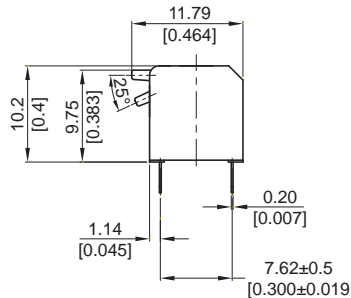
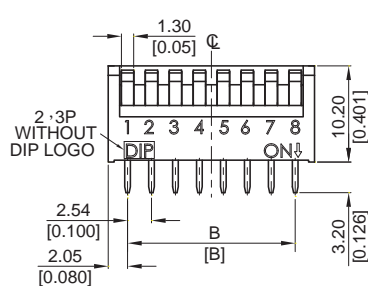


NDPL SERIES

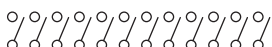


NDP SERIES

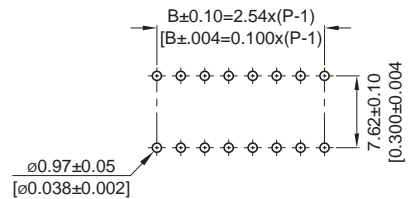
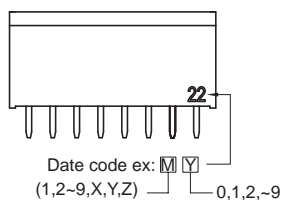
NDP



SCHEMATIC(TYP.)



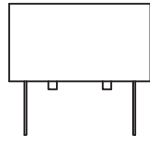
(2,3,4,5,6,7,8,9,10,12, POS AVAIL)



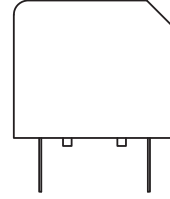
P.C.B. LAYOUT

Position 1 denotes Pin NO. 1

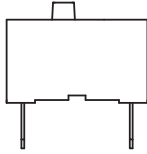
ACTUATOR OPTIONS



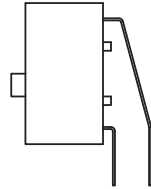
RECESSED*



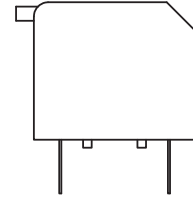
SHORT KEY
TOPSIDE "ON"



EXTENDED*



EXTENDED
TOPSIDE "OFF"



LONG KEY
TOPSIDE "ON"

NDS

NDA

NDP

NUMBER OF POSITIONS

NDS / NDA TYPE

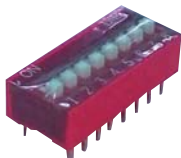
Positions	2	3	4	5	6	7	8	9	10	12
"A" Dimension	6.44 (.254)	8.98 (.354)	11.52 (.454)	14.06 (.554)	16.60 (.654)	19.14 (.754)	21.68 (.854)	24.22 (.954)	26.76 (1.054)	31.84 (1.254)
"B" Dimension	2.54 (.100)	5.08 (.200)	7.62 (.300)	10.16 (.400)	12.7 (.500)	15.24 (.600)	17.78 (.700)	20.32 (.800)	22.86 (.900)	27.94 (1.100)

NDP TYPE

Positions	2	3	4	5	6	7	8	9	10	12
"A" Dimension	6.64 (.261)	9.18 (.361)	11.72 (.461)	14.26 (.561)	16.8 (.661)	19.34 (.761)	21.88 (.861)	24.42 (.961)	26.96 (1.061)	32.04 (1.261)
"B" Dimension	2.54 (.100)	5.08 (.200)	7.62 (.300)	10.16 (.400)	12.7 (.500)	15.24 (.600)	17.78 (.700)	20.32 (.800)	22.86 (.900)	27.94 (1.100)

SEAL OPTIONS

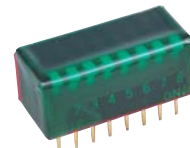
T TOP TAPE SEALED



NDS



NDA



NDP