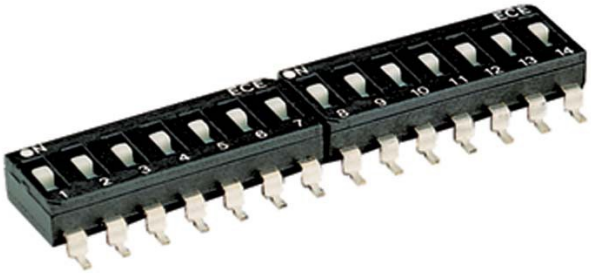
ESD/ESL SERIES
END-STACKABLE SMT TYPE



ESD

ESL

■ FEATURES

- End stackable for standard 0.1" integrated circuit pitch.
- Molded 0.3" integrated circuit packing outline allowing automatic insertion.
- Smaller size makes better heat convection during PC board reflow wave soldering.
- Top tape sealed to withstand wave soldering, board washing.
- All plastics are UL 94V-0 grade fire retardant.
- Twin contacts designed to ensure stable contact.
- Gold plated contact to ensure low contact resistance and Tin plated terminals to prevent contamination during soldering.
- RoHS Compliant
- Halogen Free series available

■ APPLICATIONS

- Numerical setting for computer terminal equipment
- Price setting for vending machines
- Programming for game machines
- Programming for industrial equipment and measuring instruments

■ SPECIFICATIONS

1.ELECTRICAL

● Contact rating	switching	25mA, 24VDC
	non-switching	100mA
● Contact resistance	initial	50mΩ Max.
	after life test	100mΩ Max.
● Insulation resistance		1000MΩ Min. at 100VDC
● Dielectric strength		500VDC Min. for 60 seconds
● Capacitance between adjacent switches 5pF Max.		

2.MECHANICAL and ENVIRONMENTAL

● Temperature rating	operating	-40℃ to +85℃
	storage	-40℃ to +85℃
● Operation force		800g Max.
● Mechanical life		2000 operations
● Humidity		95 %RH, 40℃ for 96 Hrs.
● Vibration		10Hz-55Hz-10Hz for 6 Hrs.
● Resistance to soldering heat		Solder reflow:peak temperature 260℃ Max.
● Reflow soldering process for SMT type		Reference IEC 61760

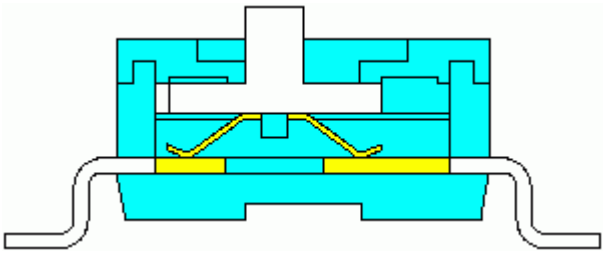
■ PART NUMBERING SYSTEM

ESD 1 08 L XX Z

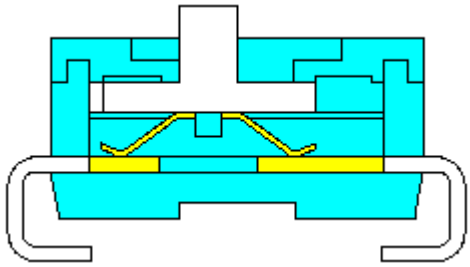
- Z: RoHS Compliant
  H: Halogen Free series
- Special Product Number
- Actuator, Sealing and Rows Spacing Options:
  L : Low Profile Actuator
  E : Extended Actuator
  LT : Low Profile Actuator,Top Tape Sealed
  LC : Low Profile Actuator,Tape & Reel Package, product without Top Tape Sealed
  LD : Low Profile Actuator,Tape & Reel Package, product with Top Tape Sealed
  EC : Extended Actuator, Tape & Reel Package, product without Top Tape Sealed
- Number of positions: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12
  (ESL series: 1 pole switch is unavailable)
- Contact form: SPST
- Series name:
  ESD: Surface mounting “S” type(Gull Wing)
  ESL: Surface mounting “L” type(T-Bend)

■ CONSTRUCTION

ESD

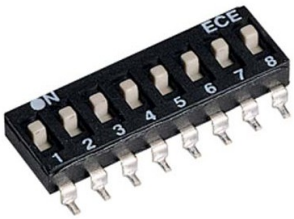


ESL

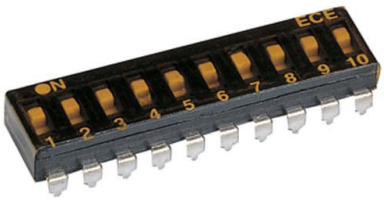


■ OPTIONS

1.Special marking is available
2.Extended Actuator

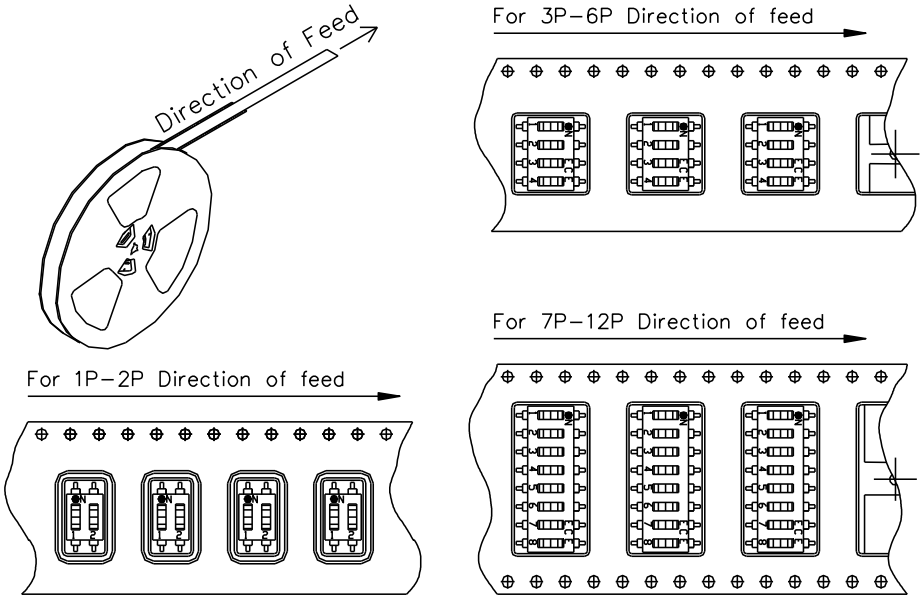


3.Top Tape Sealed



■ PACKAGING

1.Tape & Reel Packaging (per EIA STANDARD)



TYPE	No. of pcs per reel
1P	2000
2P	1300
3P	1000
4P	1000
5P	1000
6P	1000
7P	1000
8P	1000
9P	1000
10P	1000
12P	1000

(ESL series: 1 pole switch is unavailable)

■ DIMENSIONS AND CIRCUITRY

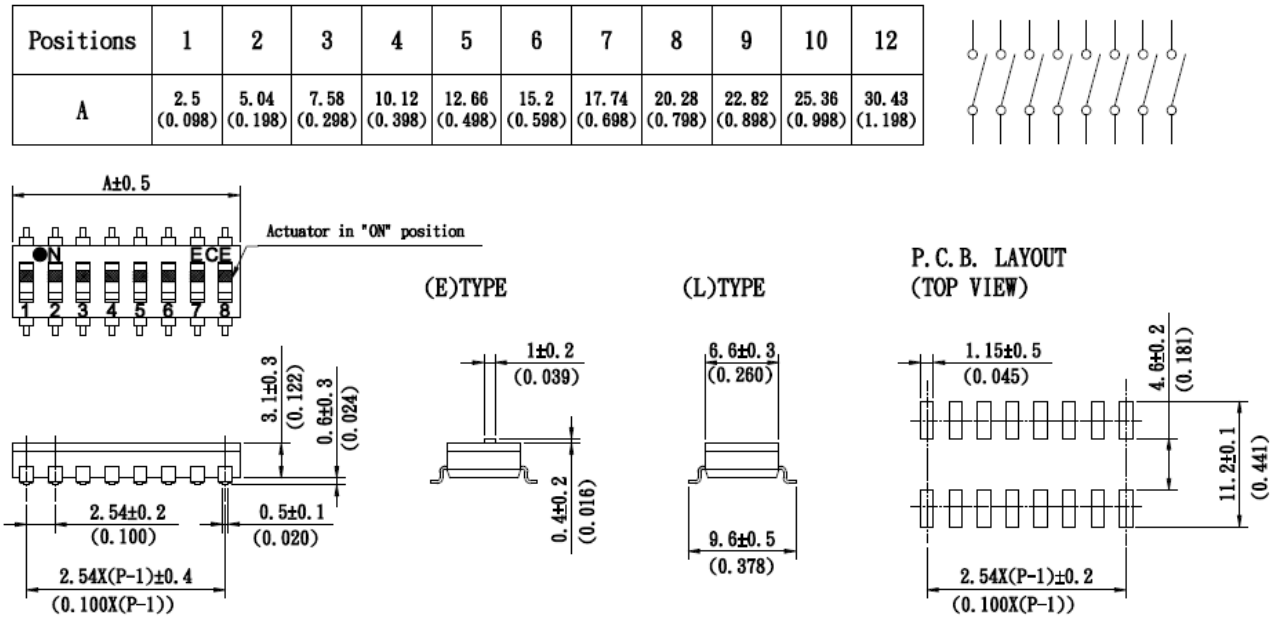
ESD SERIES

Dimension A

UNIT:mm(inch)

Positions	1	2	3	4	5	6	7	8	9	10	12
A	2.5 (0.098)	5.04 (0.198)	7.58 (0.298)	10.12 (0.398)	12.66 (0.498)	15.2 (0.598)	17.74 (0.698)	20.28 (0.798)	22.82 (0.898)	25.36 (0.998)	30.43 (1.198)

CIRCUIT DIAGRAM



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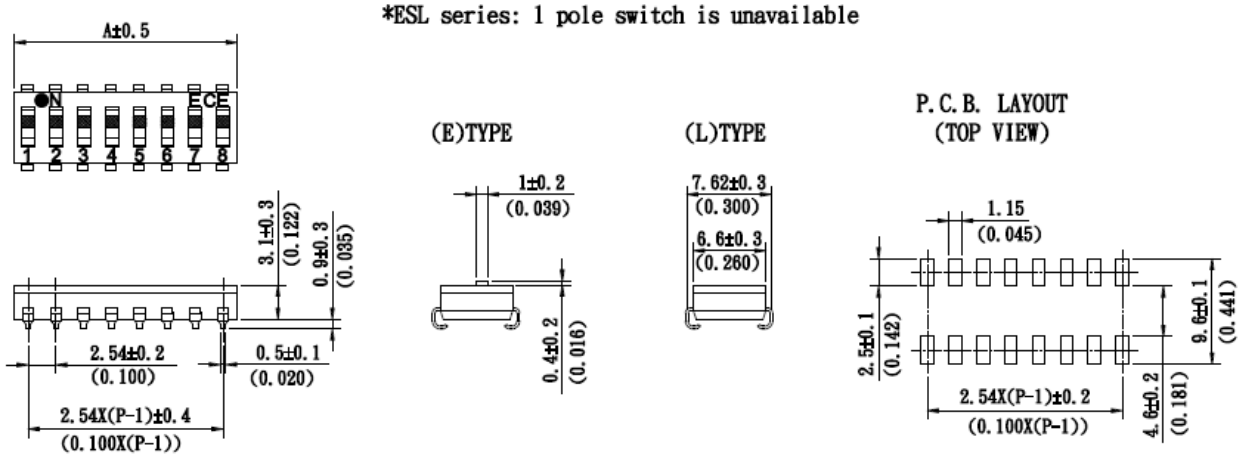
*ESL series: 1 pole switch is unavailable