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.

■ APPLICATIONS

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

■ SPECIFICATIONS

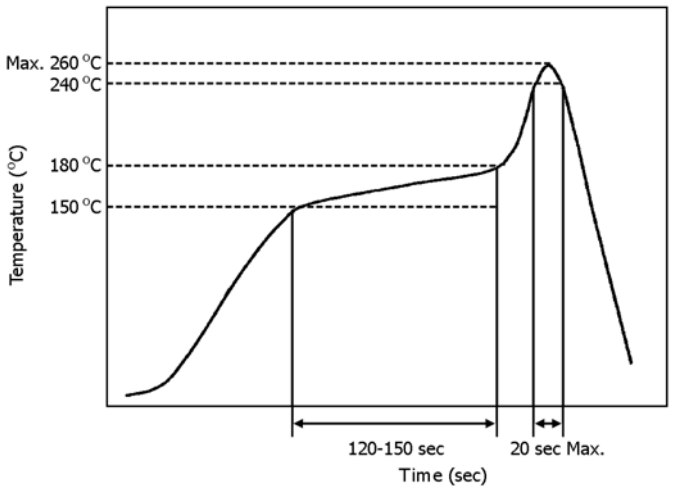
1.ELECTRICAL

● 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	-25℃ to +70℃
	storage	-40℃ to +85℃
● Operation force		800g Max.
● Mechanical life		2000 operations
● Humidity		95% RH, 40℃ for 96 Hrs.
● Vibration		Per MIL-STD-202F, method 204D.

● Reflow soldering heat for SMT type (reference only)



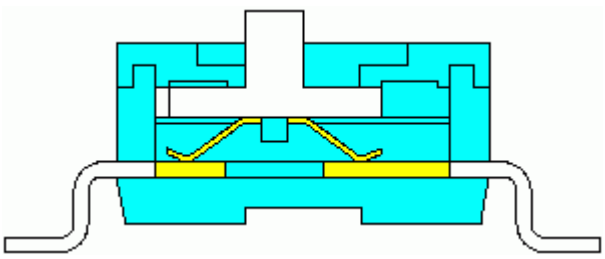
■ PART NUMBERING SYSTEM

ESD 1 08 L X

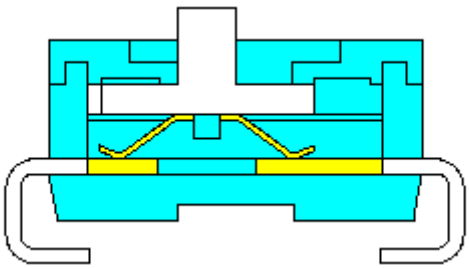
- X: Blank: Standard; Z: RoHS Compliant
- L: Actuator, Sealing and Rows Spacing Options:
  - L : Low Profile Actuator
  - E : Extended Actuator
  - LT : Top Tape Sealed & Low Profile Actuator
  - LC : Tape & Reel Package,product without Top Tape Sealed
  - LD : Tape & Reel Package,product with Top Tape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

■ CONSTRUCTION

ESD

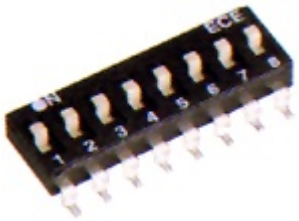


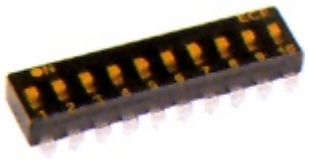
ESL



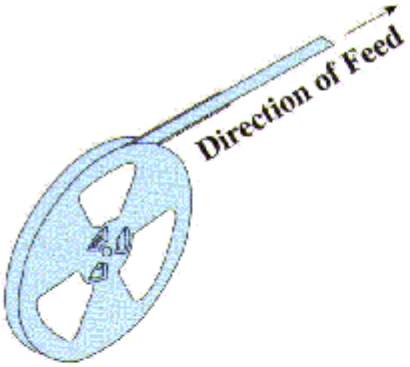
■ OPTIONS

1.Special marking and case color available
2.Extended Actuator
3.Top Tape Sealed

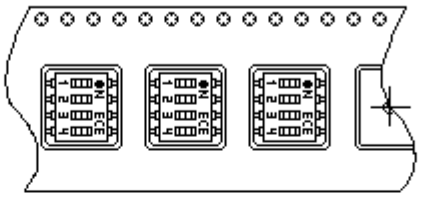




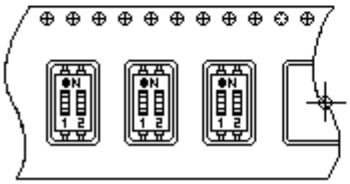
4.Tape & Reel Packaging (per EIA STANDARD)



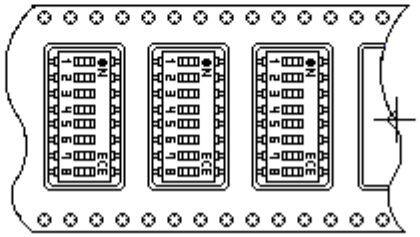
For 3P-6P
Direction of feed



For 1P-2P
Direction of feed



For 7P-12P
Direction of feed



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

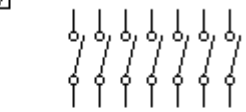
(ESL series: 1 pole switch is unavailable)

■ DIMENSIONS AND CIRCUITRY

DIMENSION A Unit:mm(inch) **ESD**

Positions	1	2	3	4	5	6	7	8	9	10	12
A	2.50 (0.098)	5.04 (0.198)	7.58 (0.298)	10.12 (0.398)	12.66 (0.498)	15.20 (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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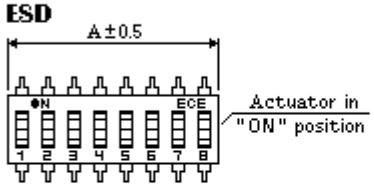
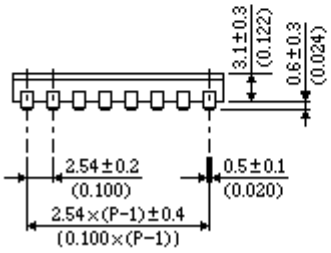
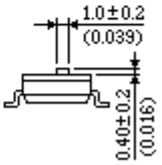




(E) TYPE



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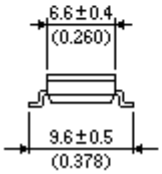
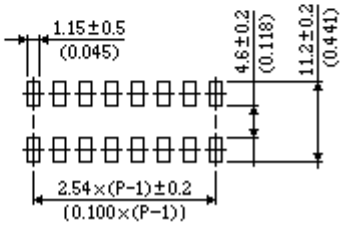


P.C.B LAYOUT (TOP VIEW)



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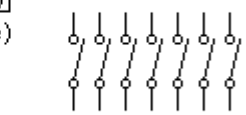
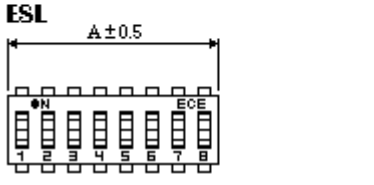
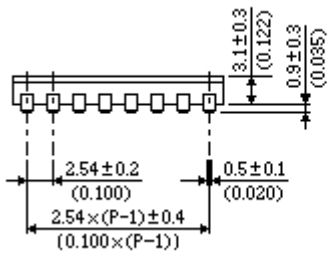


ESL





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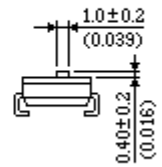

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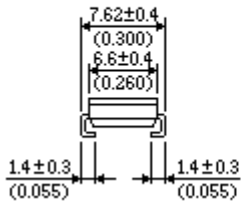
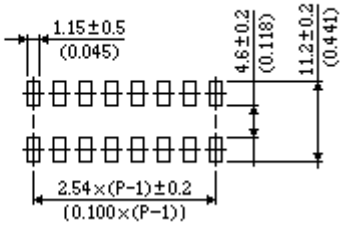
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