

# ESD/ESL SERIES

## END-STACKABLE TYPE

### 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 plastics.
- Twin contacts designed to ensure stable contact.
- Gold plated contact to ensure low contact resistance and tin plated terminals to prevent contamination during soldering.



## SPECIFICATIONS

### 1. ELECTRICAL

Contact rating	
Switching	25mA, 24VDC
Non-switching	100mA, 50VDC
Contact resistance	
Initial:	50m ohm Max.
After Life test:	100m ohm Max.
Insulation Resistance	1000M ohm Min. at 100VDC
Dielectric strength	500VDC Min. for 60 seconds
Capacitance between adjacent switches	5pF Max.

### 2. MECHANICAL AND ENVIRONMENTAL

Temperature rating	
Operating	-25°C to +70°C
Storage	-40°C to +85°C
Operating force	800g Max.
Mechanical life	2000 Operations
Humidity	95% RH, 40°C for 96 Hrs.
Vibration	Per MIL-STD-202F, Method 204D
Solderability	After flux 230 ± 5°C for 5 ± 0.5 seconds, 95% coverage.
Resistance to soldering heat	260 ± 5°C for 5 ± 1sec.
Reflow soldering heat for SMT type (reference only)	Reflow zone 230 ± 5°C for 30 seconds

## PART NUMBERING SYSTEM

ESD 1 08 L

Actuator, sealing and rows spacing options:

L : Low Profile Actuator

E: Extended Actuator

LT: Top Tape Sealed &amp; Low Profile Actuator

LC: Tape &amp; Reel Package, product without Top Sealed

LD: Tape &amp; Reel Package, product with Top Sealed

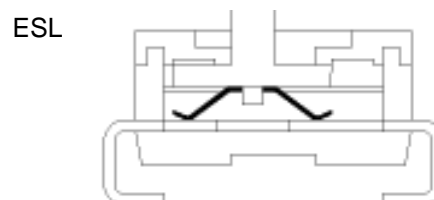
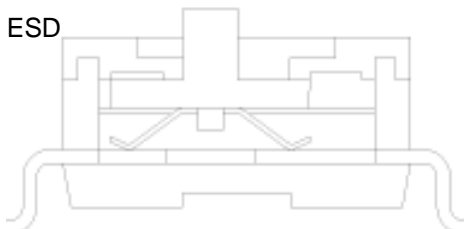
Number of positions: 1,2,3,4,5,6,7,8,9,10,12

Contact form: SPST

Series name; ESD: Surface mounting „S“ type (Gull Wing)

ESL Surface mounting „L“ type (T-Bend)

## CONSTRUCTION

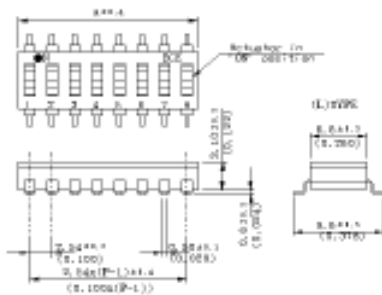


## DIMENSIONS AND CIRCUITRY

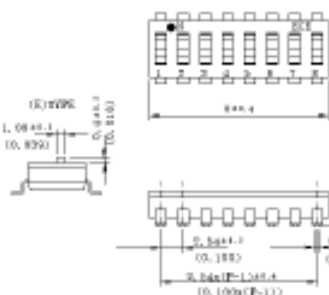
Dimension A	ESD/ESL										
Positions	1	2	3	4	5	6	7	8	9	10	12
<b>A</b>	2.5 (0.098)	5.04 (0.198)	7.58 (0.299)	10.12 (0.398)	12.66 (0.498)	15.20 (0.598)	17.74 (0.698)	20.28 (0.798)	22.82 (0.898)	25.36 (0.998)	30.43 (1.198)

Unit: mm (inch)

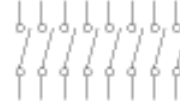
### ESD



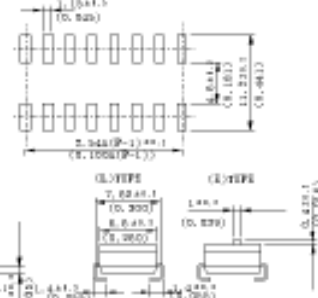
### ESL



### CIRCUIT DIAGRAM

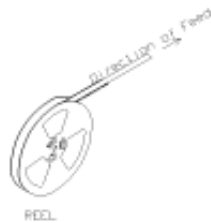
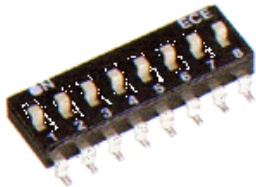


### P.C.B. PATTERN (TOP VIEW)



## OPTIONS

1. Special marking and case color available.
2. Extended Actuator

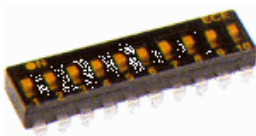


For 1P-6P Direction of feed →

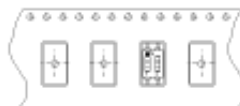


Pin	Pin of 20P
1P	1000
2P	1000
3P	1000
4P	1000
5P	1000
6P	1000
7P	1000
8P	1000
9P	1000
10P	1000
11P	1000
12P	1000

### 3. Top Tape Sealed



For 1P-12P Direction of feed →



For 1P-12P Direction of feed →

