

ETD/ETA/ETS SERIES TRI-STATE TYPE



■ FEATURES

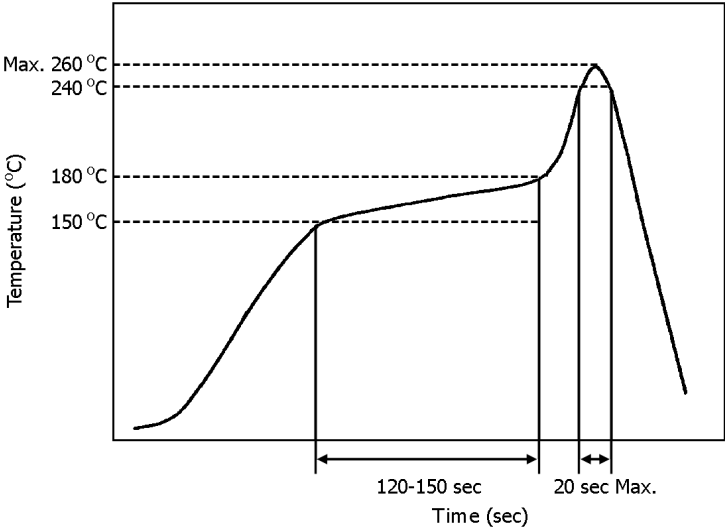
- With three state (1, open, 0) setting function, especially suitable for encoding/decoding of tri-state encoder/decoder integrated circuit to obtain more security codes than traditional two-state (1,0) operation. For instance, 9 bits with tri-state gets 19,683 (3^9) codes, while two-state has 512 (2^9) codes, gains 38 times more codes with a ECE tri-state DIP Switch.
- Bottom sealed to ensure free of flux immersion during wave soldering.
- All plastics are UL 94V-0 grade fire retardant.
- Gold plated contact to ensure low contact resistance and Tin plated terminals to prevent contamination during soldering.
- Twin contacts designed to ensure stable contact.
- Ideal for coding tele-communication, transceiving, remote control and burglar alarm systems which use integrated circuits with tri-state coding systems.

■ SPECIFICATIONS

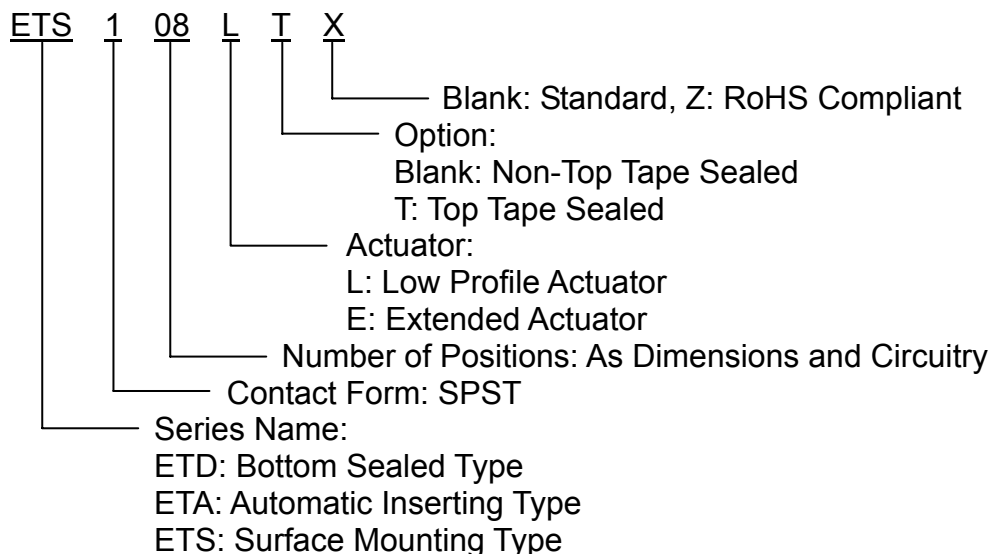
1.ELECTRICAL

● 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.	

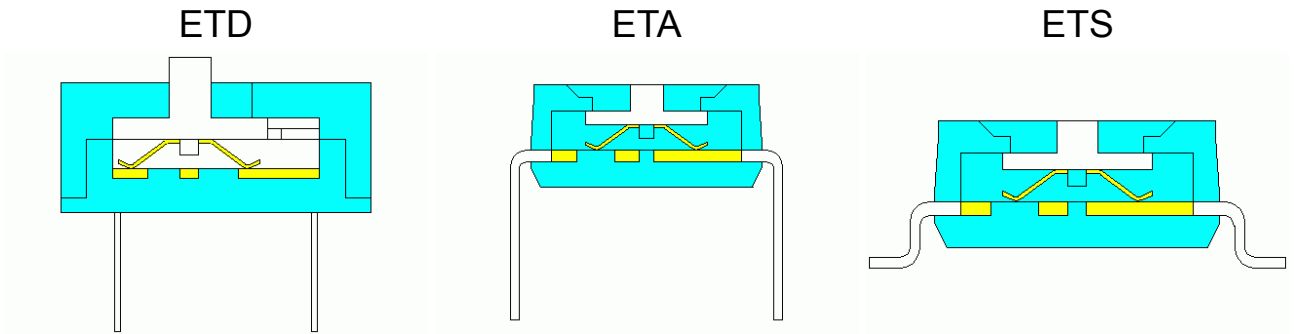
2.MECHANICAL and ENVIRONMENTAL

● Temperature rating	operating	-25°C to +70°C
	storage	-40°C to +85°C
● Operation force	800g Max.	
● Mechanical life	2000 operations	
● Humidity	95% RH, 40°C for 96 Hrs.	
● Vibration	Per MIL-STD-202F, method 204D.	
● Solderability (for through hole type)	after flux 230±5°C for 5±0.5 seconds, 95% coverage	
● Resistance to soldering heat (for through hole type)	260±5°C for 5±1 seconds.	
● Reflow soldering heat for SMT type (reference only)	 <p>The graph shows Temperature (°C) on the y-axis and Time (sec) on the x-axis. The temperature profile starts at a low point, rises to 150°C, then to 180°C, and finally peaks at 240°C. The time spent at 150°C is 120-150 seconds, and the time spent at the peak of 240°C is 20 seconds maximum. The maximum temperature is 260°C.</p>	

■ PART NUMBERING SYSTEM



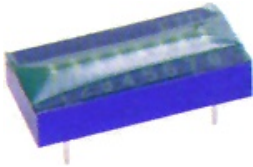
CONSTRUCTION



OPTIONS

1. Tape Sealed

ETDxxxET



ETSxxxLT

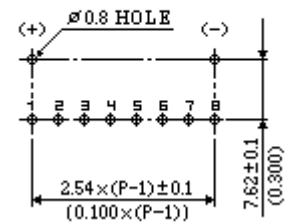


ETAxxxLT



2. Reverse P.C.B. LAYOUT available

P.C.B. LAYOUT
(TOP VIEW)

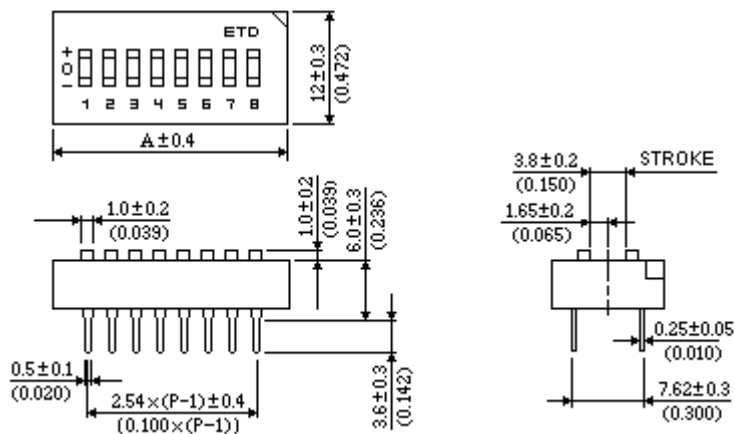


DIMENSIONS AND CIRCUITRY

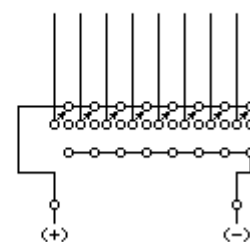
DIMENSION A **ETD**

Positions	4	5	6	7	8	9	10
A	15.30 (0.602)	17.84 (0.702)	20.38 (0.802)	22.92 (0.902)	25.46 (1.002)	28.00 (1.102)	30.54 (1.202)

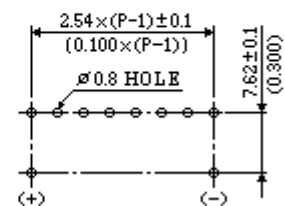
Unit:mm(inch)



CIRCUIT DIAGRAM



P.C.B. LAYOUT
(TOP VIEW)

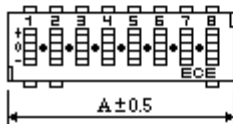


DIMENSION A

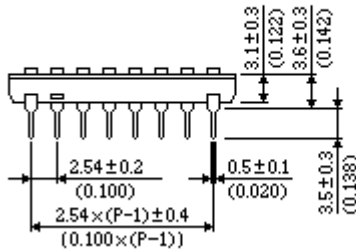
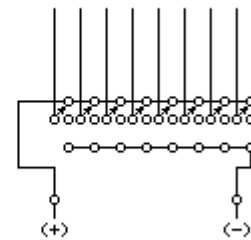
ETA

Positions	2	3	4	5	6	7	8	9	10	12
A	6.88 (0.263)	9.22 (0.363)	11.76 (0.463)	14.30 (0.563)	16.84 (0.663)	19.38 (0.763)	21.92 (0.863)	24.46 (0.963)	27.00 (1.063)	32.08 (1.263)

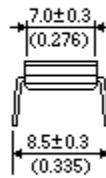
Unit:mm(inch)



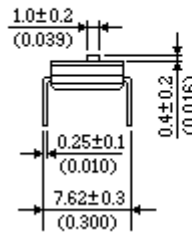
CIRCUIT DIAGRAM



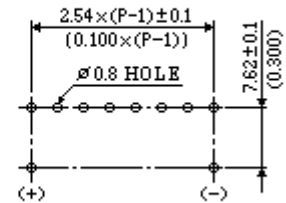
(L) TYPE



(E) TYPE



P.C.B. LAYOUT (TOP VIEW)

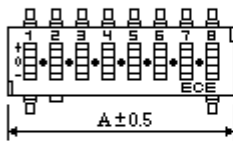


DIMENSION A

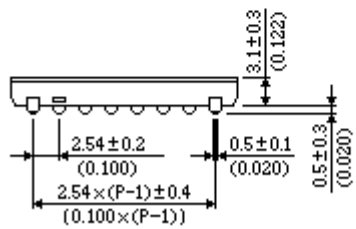
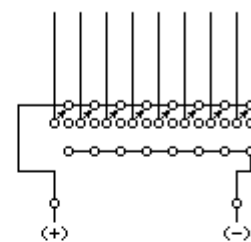
ETS

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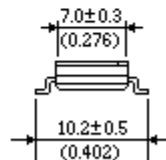
Unit:mm(inch)



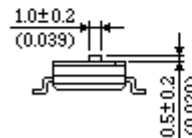
CIRCUIT DIAGRAM



(L) TYPE



(E) TYPE



P.C.B. LAYOUT (TOP VIEW)

