

ETD/ETA/ETS SERIES TRI-STATE TYPE



ETD



ETA



ETS

FEATURES

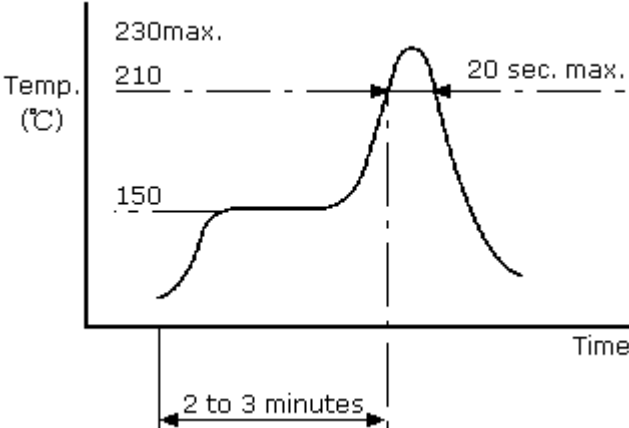
- With three state (1, open, 0) setting function, especially suitable for encoding/decoding of tri-state encoder/decoder integrated circuit to obtain more security codes than traditional two-state (1,0) operation. For instance, 9 bits with tri-state gets 19,683 (3^9) codes, while two-state has 512 (2^9) 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

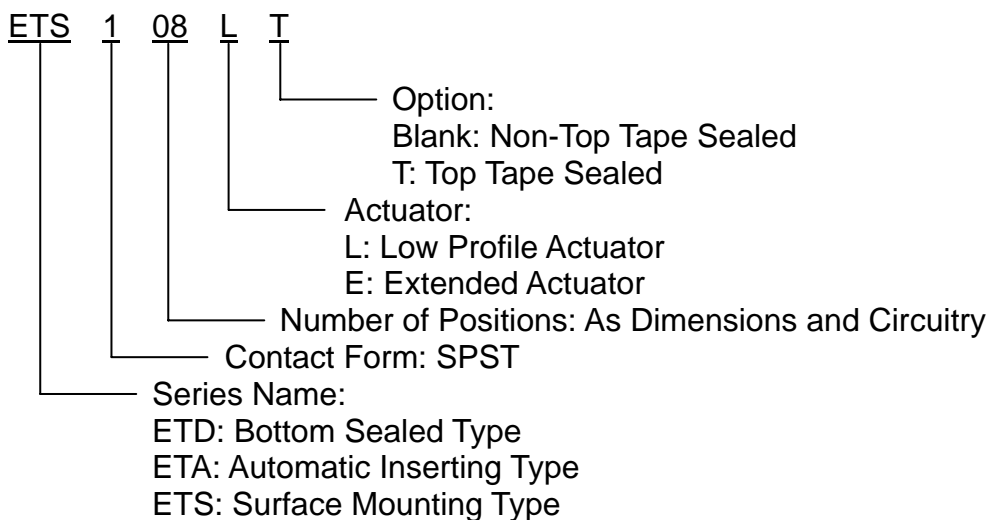
1.ELECTRICAL

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

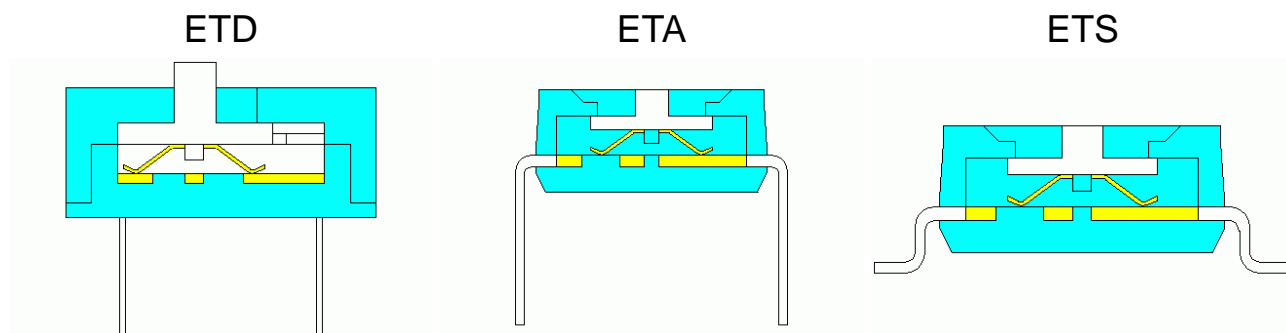
2.MECHANICAL and ENVIRONMENTAL

● 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.
● Solderability (for through hole type)	after flux 230±5 for 5±0.5 seconds, 95 % coverage
● Resistance to soldering heat (for through hole type)	260±5 for 5±1 seconds.
● Reflow soldering heat for SMT type (reference only)	

PART NUMBERING SYSTEM

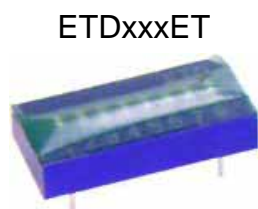


CONSTRUCTION



OPTIONS

1. Tape Sealed



ETSxxxLT

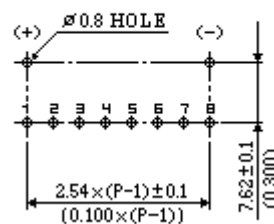


ETAxxtLT



2. Reverse P.C.B. LAYOUT available

P.C.B. LAYOUT
(TOP VIEW)



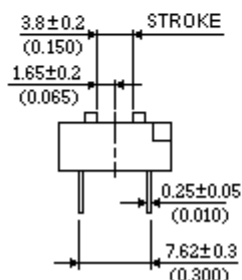
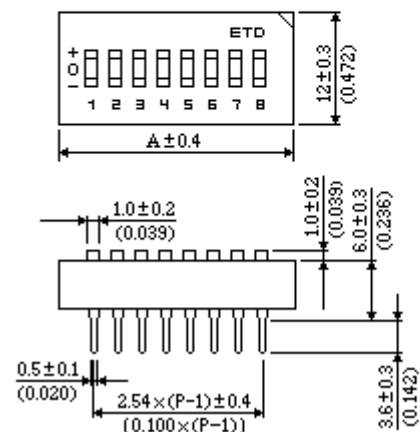
DIMENSIONS AND CIRCUITRY

DIMENSION A

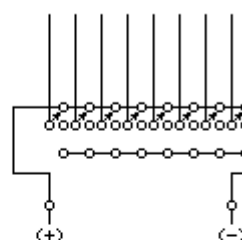
ETD

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)

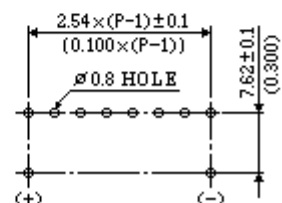
Unit:mm(inch)



CIRCUIT DIAGRAM



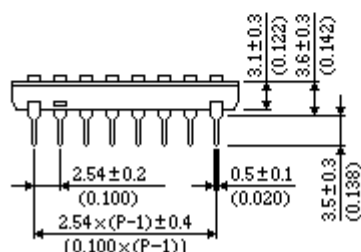
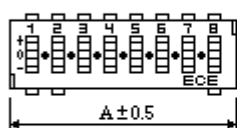
P.C.B. LAYOUT
(TOP VIEW)



DIMENSION A

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)

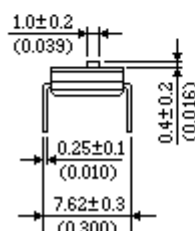
Unit:mm(inch)



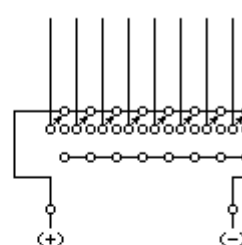
(L) TYPE



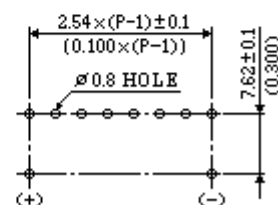
(E) TYPE



CIRCUIT DIAGRAM



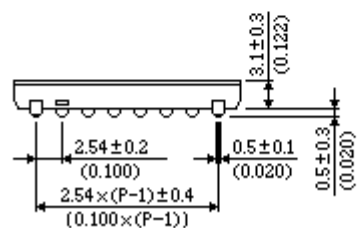
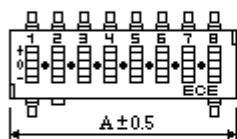
P.C.B. LAYOUT (TOP VIEW)



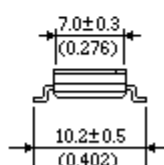
DIMENSION A

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)

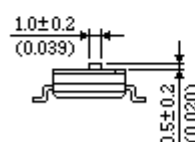
Unit:mm(inch)



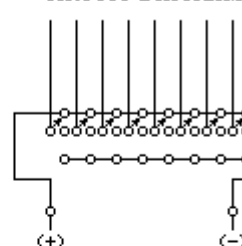
(L) TYPE



(E) TYPE



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

