

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.

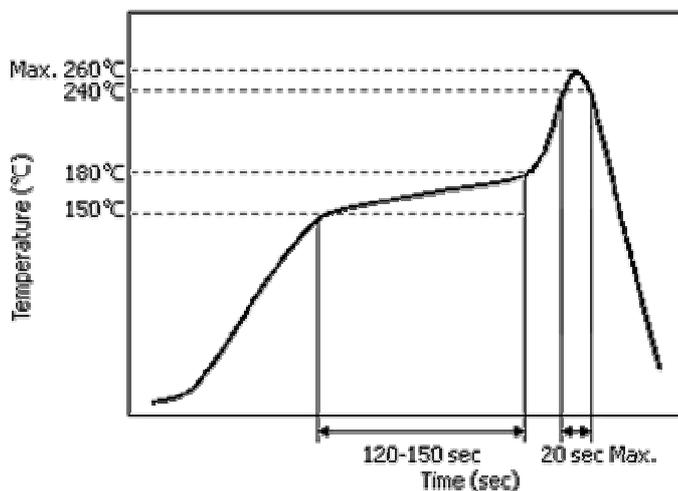
SPECIFICATIONS**1. ELECTRICAL**

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

2. MECHANICAL

Temperature rating	operating: -25 $^{\circ}$ C to + 70 $^{\circ}$ C
	storage: -40 $^{\circ}$ C to + 85 $^{\circ}$ C
Operation force	800g Max.
Mechanical life	2000 operations
Humidity	95%RH, 40 $^{\circ}$ C for 96 Hrs.
Vibration	Per MIL-STD-202F, method 204D
Solderability (for through hole type)	after flux 230 \pm 5 $^{\circ}$ C for 5 \pm 0.5 seconds, 95% coverage
Resistance to soldering heat (for through hole type)	260 \pm 5 $^{\circ}$ C for 5 \pm 1 seconds

Reflow soldering heat for SMT type (reference only)

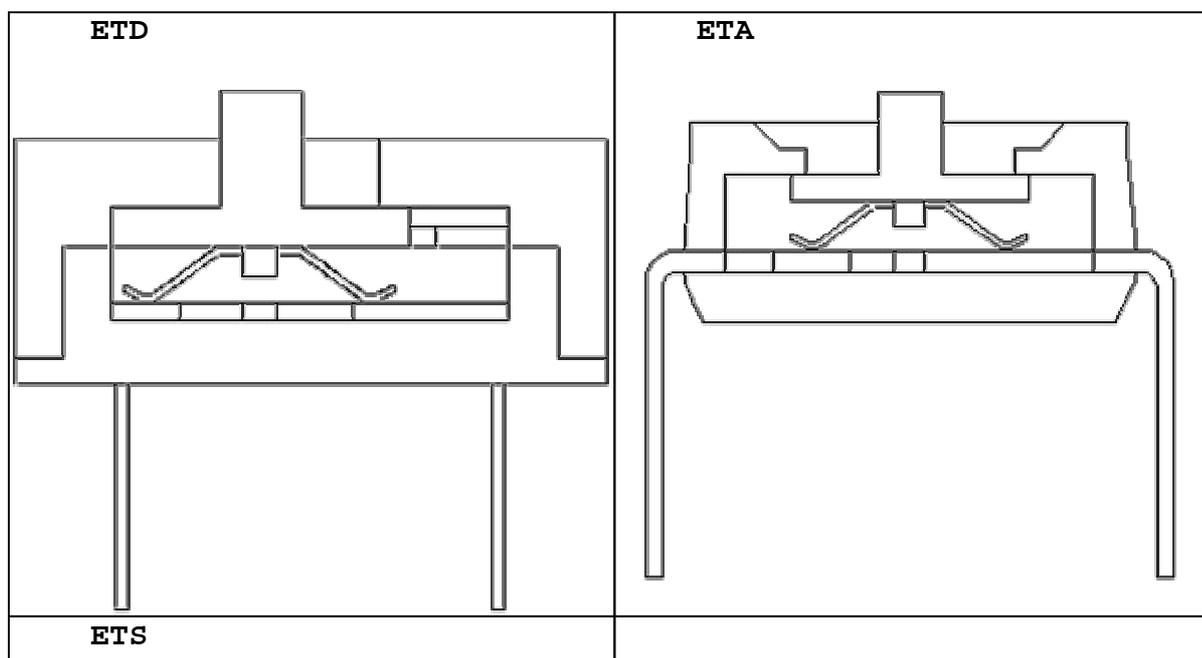


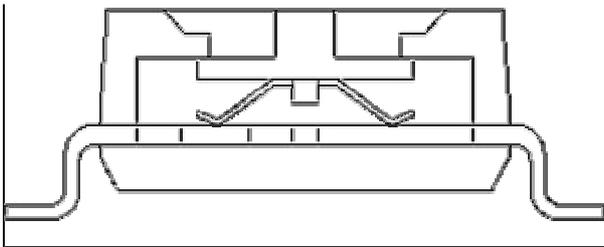
PART NUMBERING SYSTEM

ETS 1 08 L T X

- | | | | +--- Blank:Standard
- | | | | Z:RoHS Compliant
- | | | | +--- Option:
- | | | | Blank:Non-Top Tape Sealed
- | | | | T:Top Tape Sealed
- | | | | +--- Actuator:
- | | | | L:Low Profile Actuator
- | | | | E:Extended Actuator
- | | | | +--- Number of Positions:
- | | | | As Dimensions and Circuitry
- | | | | +--- Contact Form:SPST
- +--- Series Name:
- ETD:Bottom Sealed Type
- ETA:Automatic Inserting Type
- ETS:Surface Mounting Type

CONSTRUCTION





OPTIONS

1. Tape sealed.

ETDxxxET

ETSxxxLT

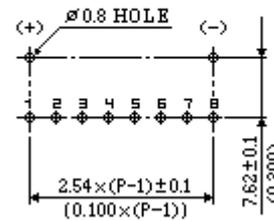


ETAxxxLT



2. Reverse P.C.B. LAYOUT available

P.C.B. LAYOUT
(TOP VIEW)



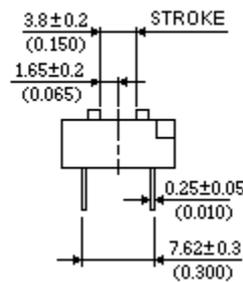
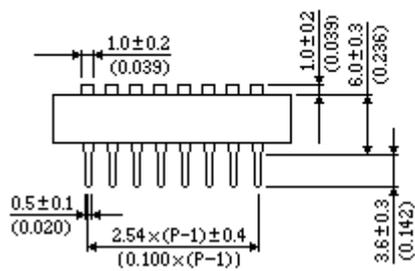
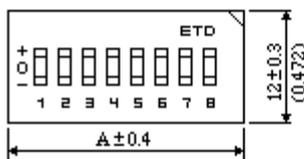
DIMENSIONS AND CIRCUITRY

DIMENSION A

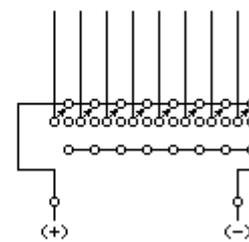
ETD

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 (0.202)

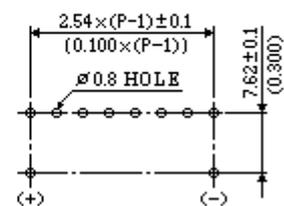
Unit:mm(inch)



CIRCUIT DIAGRAM



P.C.B. LAYOUT
(TOP VIEW)

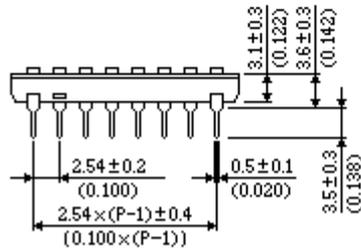
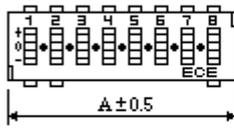


DIMENSION A

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)

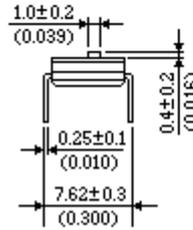
Unit:mm(inch)



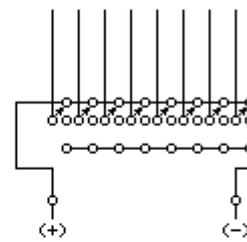
(L) TYPE



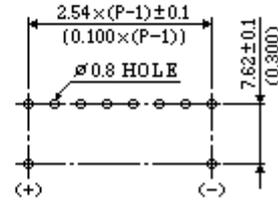
(E) TYPE



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

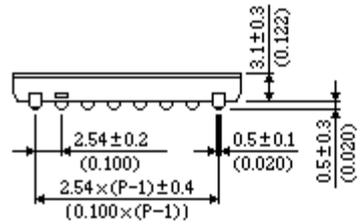
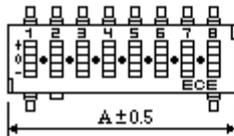


DIMENSION A

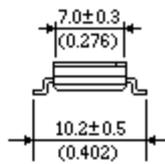
ETS

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)

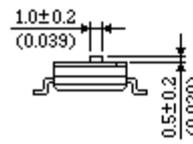
Unit:mm(inch)



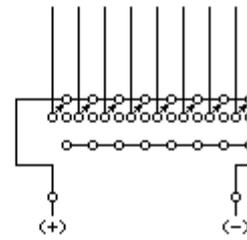
(L) TYPE



(E) TYPE



CIRCUIT DIAGRAM



P.C.B. LAYOUT (TOP VIEW)

