# 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<sup>9</sup>) codes, while two-state has 512 (2<sup>9</sup>) 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
- RoHS Compliant
- Halogen Free series available

## **■ 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	



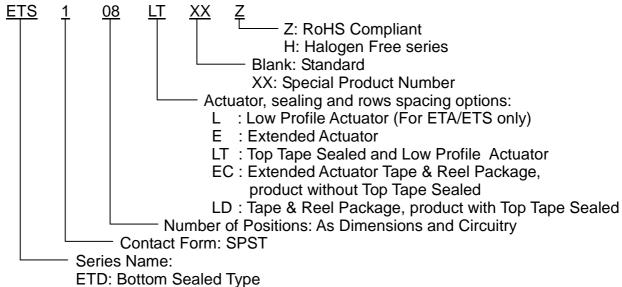
Contact resistance		
initial	50mΩ Max	
Insulation resistance	1000MΩ Min at 100VDC	
Dielectric strength	500VDC Min for 60 s	
Capacitance between adjacent switches 5pF Max		

#### 2.MECHANICAL and ENVIRONMENTAL

Temperature rating	operating	-40°C to +85°C
	storage	-40°C to +85°C
Operation force		800g Max
Mechanical life		2000 operations
Humidity		95% RH, 40°C for 96 Hrs
Vibration		10Hz-55Hz-10Hz for 6 Hrs
<ul><li>Solderability (for through hole type)</li></ul>		After flux 245±5°C for 5±1s
Resistance to soldering heat		Solder bath:260±5°C for 5±1s Solder reflow:peak temperature 260°C Max
Reflow soldering process for SMT type		Reference IEC61760

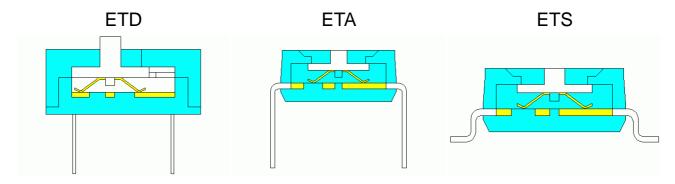


#### **■ PART NUMBERING SYSTEM**



ETD: Bottom Sealed Type ETA: Automatic Inserting Type ETS: Surface Mounting Type

#### CONSTRUCTION

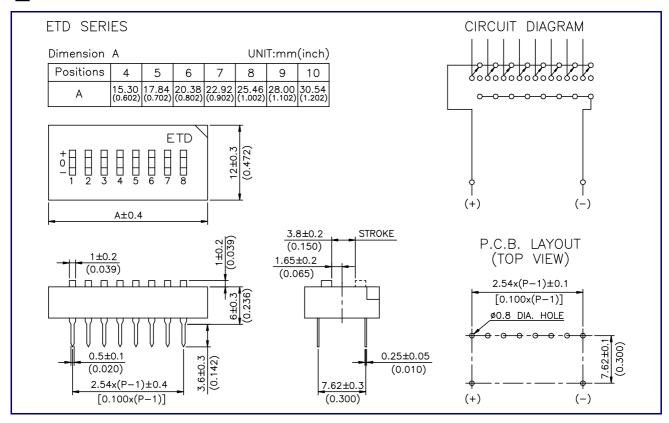


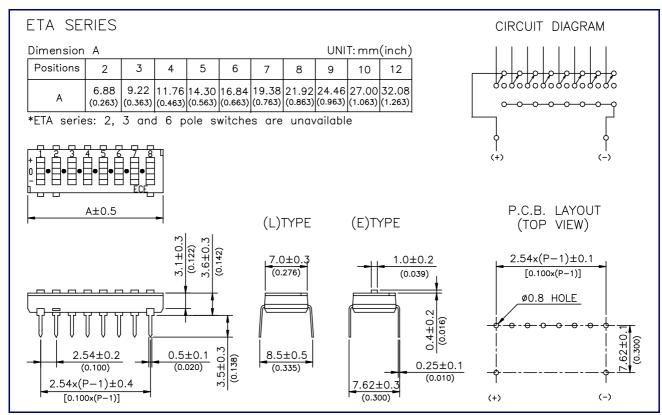
#### OPTIONS





### **■ DIMENSIONS AND CIRCUITRY**









# **Switch**

