

# ETD/ETA/ETS SERIES TRI-STATE TYPE



ETD

### ETA



# **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**

<ul> <li>Contact rating</li> </ul>	
switching	25mA, 24VDC
non-switching	100mA

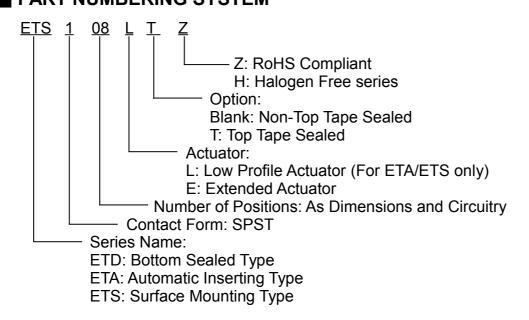


Contact resistance		
initial	50mΩ Max.	
after life test	100mΩ Max.	
<ul> <li>Insulation resistance</li> </ul>	1000MΩ Min. at 100VDC	
<ul> <li>Dielectric strength</li> </ul>	500VDC Min. for 60 seconds	
<ul> <li>Capacitance between adjacent switches 5pF Max.</li> </ul>		

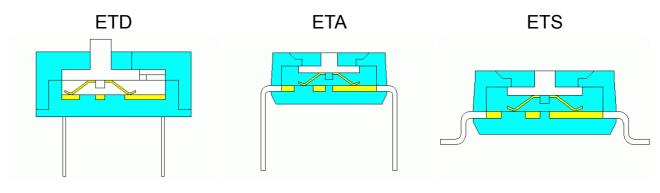
### 2.MECHANICAL and ENVIRONMENTAL

• Temperature rating	operating	-40°C to +85°C
	storage	-40℃to +85℃
<ul> <li>Operation force</li> </ul>		800g Max.
<ul> <li>Mechanical life</li> </ul>		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±1 seconds
<ul> <li>Resistance to soldering heat</li> </ul>		Solder bath:260±5°C for 5±1 seconds. Solder reflow:peak temperature 260°C Max.
<ul> <li>Reflow soldering process for SMT type</li> </ul>		Reference IEC61760

# PART NUMBERING SYSTEM



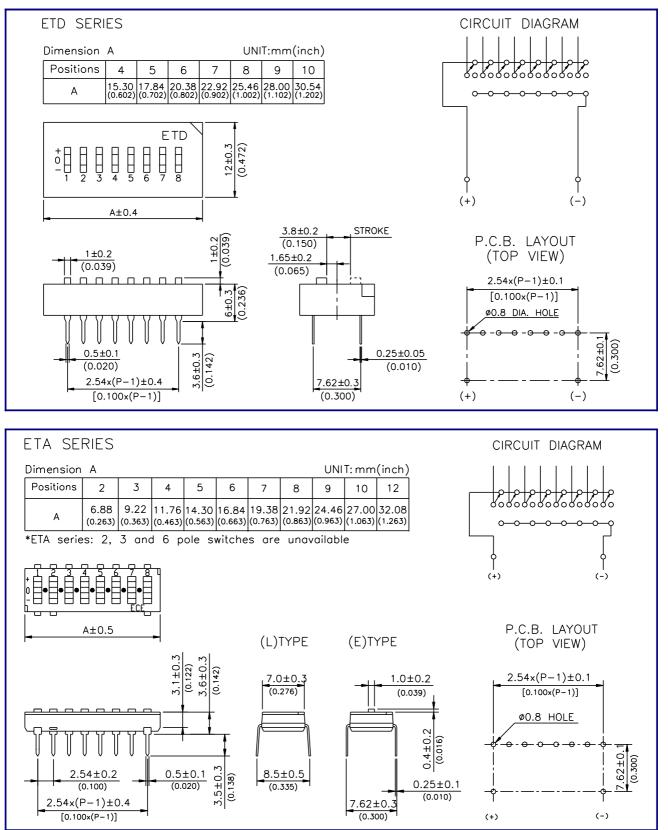
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OPTIONS 2.Reverse P.C.B. LAYOUT 1. Tape Sealed available **ETDxxxET** ETSxxxLT **ETAxxxLT** Ø0.8 HOLE (-) (+) 62±0. (0.300) -A 0  $2.54x(P-1)\pm0.1$ [0.100x(P-1)]



# DIMENSIONS AND CIRCUITRY



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Switch

