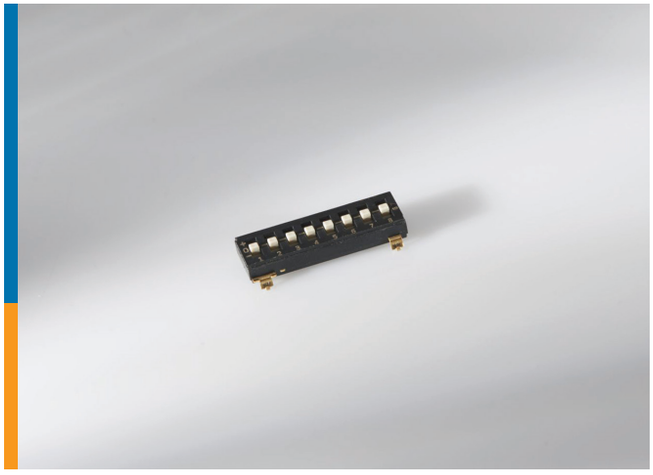
ALCOSWITCH

DIP Switch
TDS Series

TE Connectivity's (TE) ALCOSWITCH DIP switch TDS series is designed for unique coding and streamlined manufacturing with full surface mount products. The tri-state configuration of each position allows for more advanced address setting on the DIP switch, thus providing more security in the application. The TDS series is available in both raised and recessed actuator versions. Parts are also available in both tube and tape & reel packaging, and are available with a top tape seal.



Applications

- **Industrial and Automated Control Boards**
- **Fire and Security Systems**
- **Thermostats**
- **Home Automation**
- **Telecommunication Devices**

Electrical

- **Current Voltage Rating**
  Non switching 100 mA @ 50 VDC
  Switching 25 mA @ 24 VDC
- **Contact resistance** 100 mΩ max
- **Dielectric strength** 500 VAC for 1 minute
- **Capacitance** 5 pF max @ 1 MHz

Mechanical

- **Actuator force** 1,000 gf max
- **Actuator travel** 0.8mm
- **Life cycle** 2,000 cycles
- **Operating temperature** -20˚ C to +85˚ C
- **Storage temperature** -40˚ C to +85˚ C

Materials

- **Base/Cover:** High temperature Nylon (UL94-VO)
- **Contact:** Cu alloy, Au over nickel plated
- **Terminal:** Brass, Au plated
- **Actuator:** LCP (UL94 V-O)

Benefits

- Tri-state positioning for unique coding configurations that provide added security
- Raised or recessed actuators for design flexibility
- Gold contact plating for high reliability and corrosion resistance
- Tape and reel packaging with top tape seal available for quick pick-and-place assembly

Product Key

TDS 04 SG N S TR 04

Position Count

04	4 Position
05	5 Position
08	8 Position
09	9 Position
10	10 Position

Mounting Style

SG	SMT Gull Wing Terminals
SN	SMT J Lead Terminals

Actuator

N	Raised Actuator
R	Recessed Actuator

Environmental Compliance

04	RoHS Compliant

Packaging

TU	Tube
TR	Tape & Reel

Tape Seal

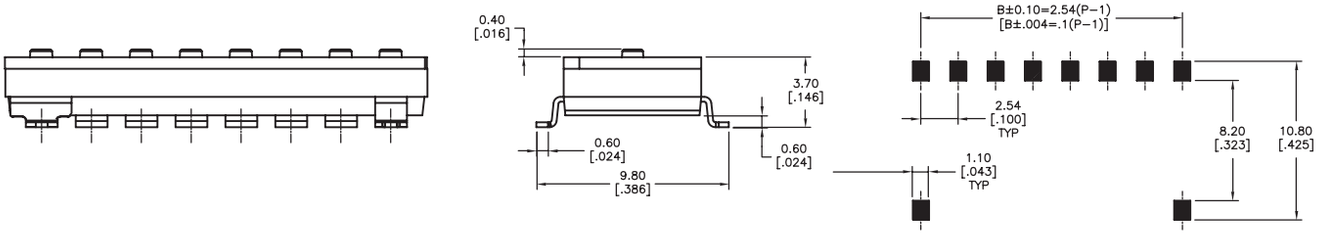
N	No Tape Seal
S	Top Tape Seal (Short Only)

Product Selection Information

Part Number	Description	Position	Actuator Type	Sealing	Packaging
2319747-1	TDS04SGNNTU04	4	Raised	No Tape Seal	Tube
1-2319747-6	TDS04SGNNTR04	4	Raised	No Tape Seal	Tape & Reel
1-2319747-8	TDS08SGNNTR04	8	Raised	No Tape Seal	Tape & Reel
2319747-4	TDS09SGNNTU04	9	Raised	No Tape Seal	Tube
2319747-7	TDS05SGRSTR04	5	Recessed	Top Tape Seal	Tape & Reel
2-2319747-7	TDS07SGRSTR04	5	Recessed	Top Tape Seal	Tape & Reel
2-2319747-8	TDS08SGRSTU04	8	Recessed	Top Tape Seal	Tape & Reel
2-2319747-9	TDS09SGRSTR04	9	Recessed	Top Tape Seal	Tape & Reel
1-2319747-5	TDS10SGRSTU04	10	Recessed	Top Tape Seal	Tube
3-2319747-0	TDS10SGRSTR04	10	Recessed	Top Tape Seal	Tape & Reel

Dimensions

Part Number 2319747



P.C.B. LAYOUT

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