

# TDS SERIES SP 3 POSITION 3 STATE (+,0,-) DIP SWITCHES

## FEATURES

3 code functions per position (n).  
Self-cleaning twin point contacts.  
UL94V-O materials used throughout.  
Process compatible.  
Crimped terminals for positive p.c.  
board retention during installation.

## GENERAL SPECIFICATIONS

### ELECTRICALS

Electrical life	2000 operations minimum per switch
Contact rating, non-switching	100 mA at 50 VDC
Contact rating, switching	25 mA at 24 VDC
Contact resistance	Initial:50 mΩ max. After 2000 operations: 100 mΩ max.
Insulation resistance	100 MΩ minimum between adjacent terms.at 500 VDC
Dielectric strength	500 VDC for 1 minute
Capacitance	5 pf. maximum

### MECHANICALS, THERMALS

Mechanical life	2000 operations minimum per switch
Operating force	1000 grams maximum
Vibration	10-55-10 Hz./1 min. (3 planes) per MIL-STD-202F, METHOD 201A
Shock	50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B
Temperature range	Operating and storage: -40°C to +85°C

### SOLDERING RECOMMENDATIONS\*

Hand soldering	320°C max. for 2 seconds max.(30 watt iron max.)
Wave soldering	260°C max. for 5 seconds

\*For best results, keep actuator in 'O' position during soldering.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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## MATERIALS

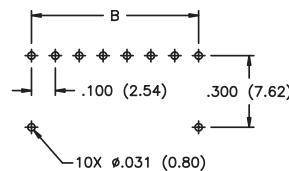
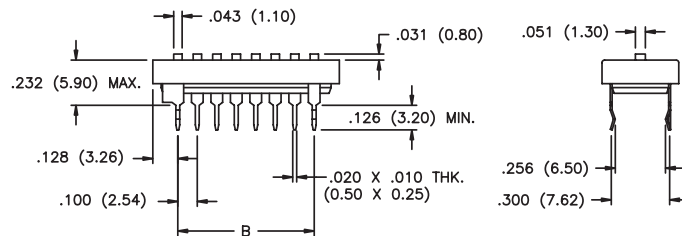
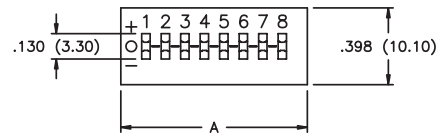
Base	UL94V-O, glass fiber filled PBT, black
Cover	UL94V-O, glass fiber filled PBT, black
Actuators	UL94V-O, glass fiber filled Nylon, white
Contacts	Gold over nickel over brass
Terminals	90/10 Solder plate over brass

## PACKAGING

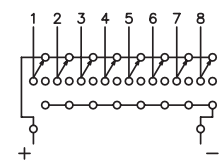
Normally supplied in standard IC tubes with all actuators in the 'O' position

MODEL NUMBER	NO. OF POS. (n)	A DIM. (MAX)		B DIMENSION	
		INCHES	MM	INCHES	MM
TDS04	4	.557	14.14	.300	7.62
TDS08	8	.957	24.3	.700	17.78
TDS09	9	1.057	26.84	.800	20.32
TDS10	10	1.157	29.39	.900	22.86

## MECHANICAL OUTLINE



PRINTED CIRCUIT BOARD OUTLINE  
(8 POSITIONS SHOWN)



SCHEMATIC  
(8 POSITIONS SHOWN)

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