

## SMT Half Pitch DIP Switch–Auto Placeable

### Features

#### Optimized Mechanical Features

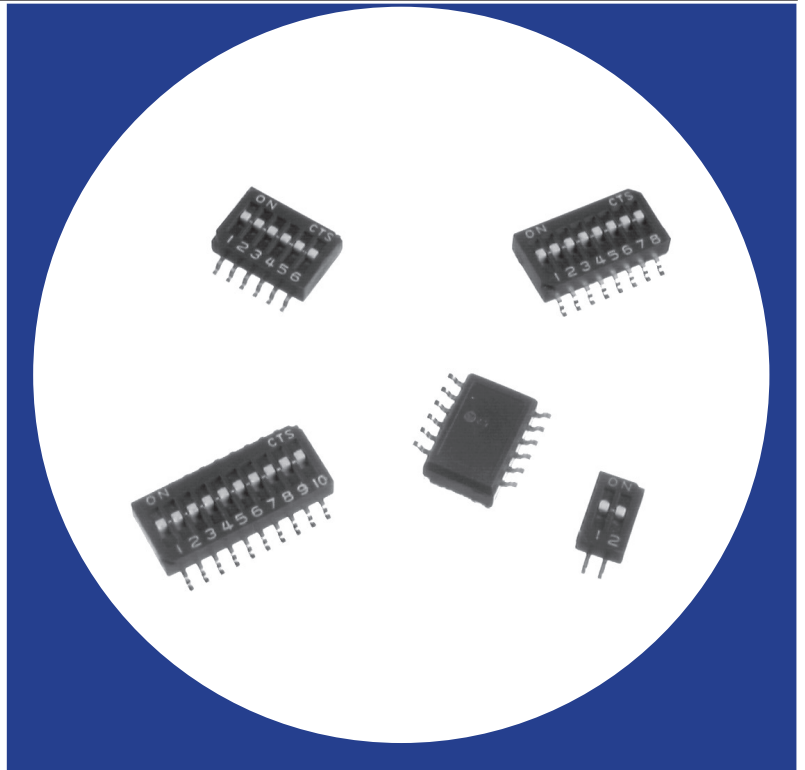
- Removable tape seal to withstand IR vapor phase or wave soldering temperatures and board washing
- Gull-wing and "J" bend terminal configurations
- Low profile actuators prevent accidental actuation
- SPST configuration available

#### Optimized Contact System

- Redundant, wiping contact
- Contactor does not deflect during actuation
- 0.6 mm/.024" actuator travel

#### Materials

- Gold plated beryllium copper contacts
- Gold flash coated terminals
- High temperature materials (UL94V-0)
- RoHS Compliant



## Electrical and Mechanical Specifications

#### Switch Function

SPST - 2, 4, 6, 8, 10, and 12 positions

#### Switch Contact Resistance

100 milliohms maximum initial

100 milliohms maximum at end of life

#### Insulation Resistance

100 megohms minimum between  
insulated terminals

#### Dielectric Strength

350 VAC for 1 minute between  
adjacent switches

#### Nonswitching Rating

100 mA or 50 VDC maximum

#### Switch Capacitance

10 pF maximum between adjacent  
closed switches

#### Operating Temperature

- 55°C to +85°C

#### Actuation Life

1,000 cycles switching 25 mA @ 24 VDC

#### Coplanarity

Coplanarity of 0.1mm/.004" maximum

#### Allowable Solder Time

Up to 60 seconds at 260°C

#### Vibration

Per MIL-STD-202G, method 204D, condition B  
(.06" or 15G's between 10 HZ to 2 KHz) with  
no contact inconsistencies greater than 1  
microsecond.

#### Shock

Per MIL-STD-202G, method 213B, condition A  
(50G's) with no contact inconsistencies greater  
than 1 microsecond.

#### Sealing

Standard bottom seal  
Optional top tape seal

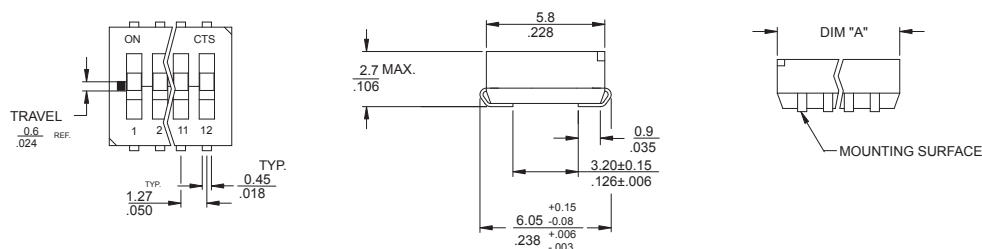
#### Marking

Special marking available-consult CTS

#### Packaging

Standard : Anti-static tube packaging  
Optional : Tape and reel packaging

## CTS SERIES 218LPJ - "J" Bend Terminal



### SURFACE MOUNT PAD LAYOUT

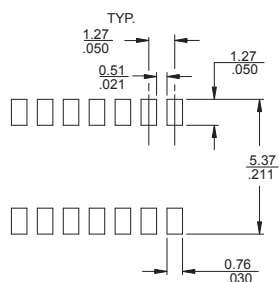
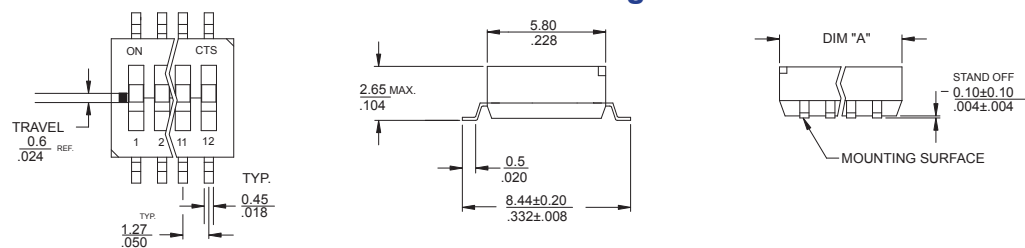


TABLE 1

NO. OF SWITCH POSITIONS	"A" OVERALL DIMENSIONS
2	3.71/.146
4	6.25/.246
6	8.79/.346
8	11.33/.446
10	13.87/.546
12	16.41/.646

## CTS SERIES 218LP - Gull Wing Terminal



### SURFACE MOUNT PAD LAYOUT

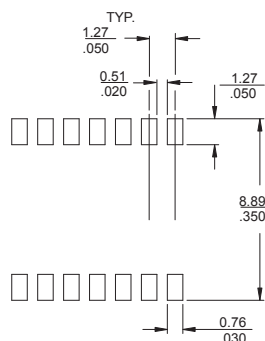
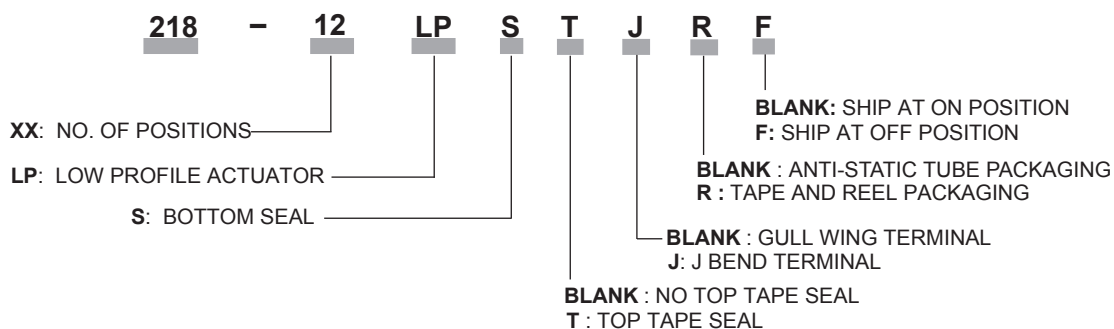


TABLE 2

NO. OF SWITCH POSITIONS	"A" OVERALL DIMENSIONS
2	3.71/.146
4	6.25/.246
6	8.79/.346
8	11.33/.446
10	13.87/.546
12	16.41/.646

DIMENSION:  $\frac{\text{mm}}{\text{inch}}$

## Ordering Information



# Mouser Electronics

Authorized Distributor

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