

#### SMT Half Pitch DIP Switch–Auto Placeable

#### Features

##### Optimized Mechanical Features

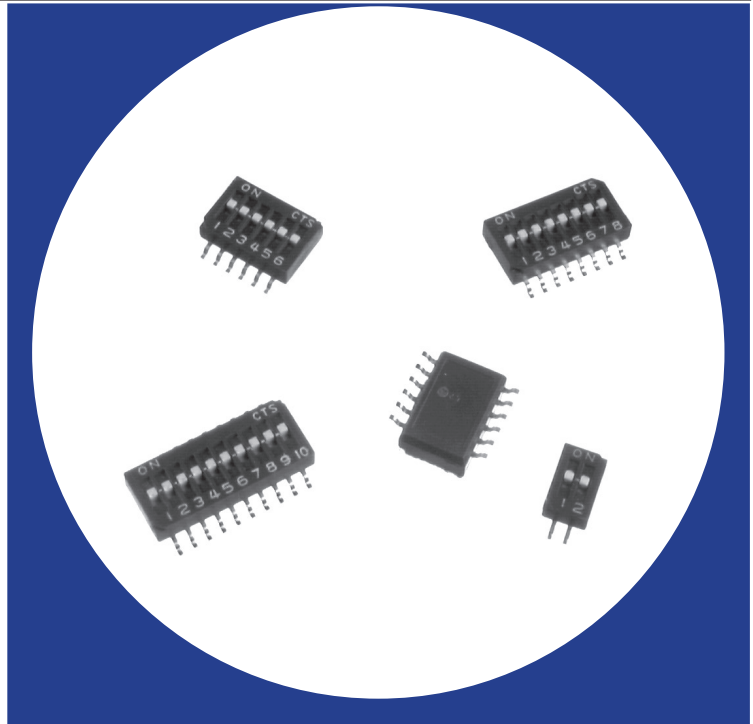
- Removable tape seal to withstand IR vapor phase or wave soldering temperatures and board washing
- Gull-wing and "J" bend terminal configurations
- Low profile actuators prevent accidental actuation
- SPST configuration available

##### 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

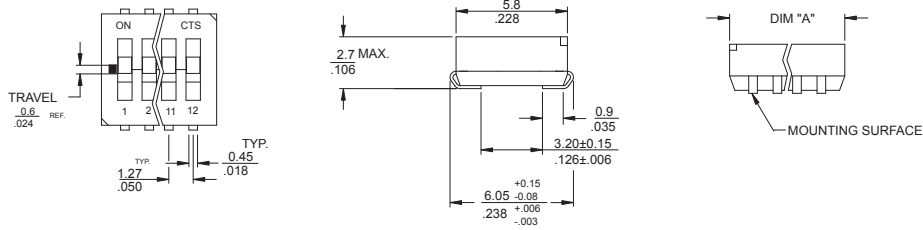
#### Marking

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

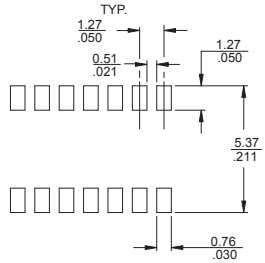
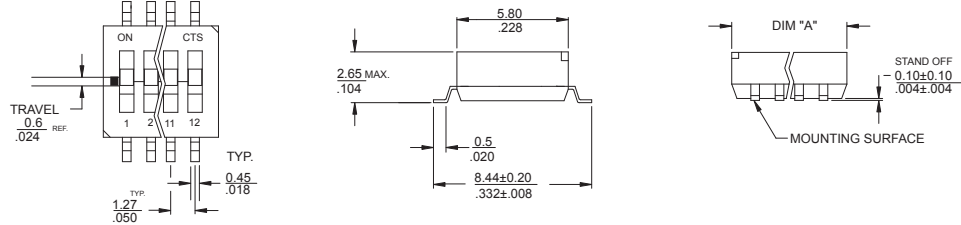


TABLE 1

| 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

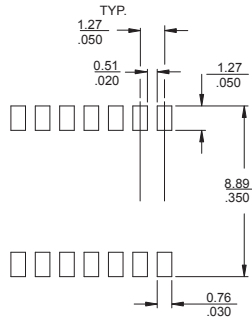


TABLE 2

| 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

