

# Series 218 Data Sheet Half Pitch, SMD DIP Switch

# SMT Half Pitch DIP Switch–Auto Placeable

#### **Features**

Optimized Mechanical Features

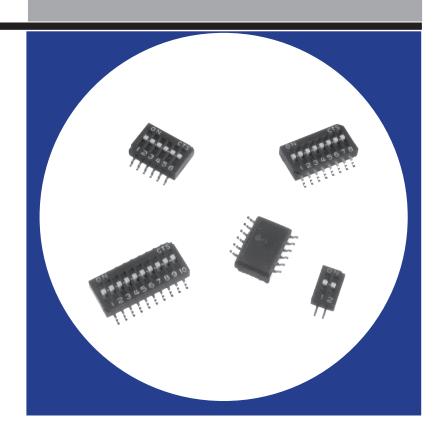
- · Gull-wing and "J" bend terminal configurations
- Low profile actuators prevent accidental actuation
- · SPST configuration available

#### 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
- · Optional top tape seal for board spray washing



## **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

350 VAC for 1 minute between

adjacent switches

Dielectric Strength

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 for board spray washing

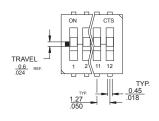
Marking

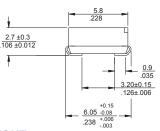
Special marking available-consult CTS

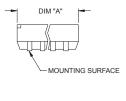
Packaging

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

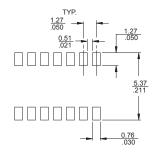
### CTS SERIES 218LPJ - "J" Bend Terminal







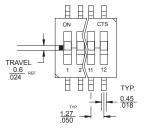
#### **SURFACE MOUNT PAD LAYOUT**

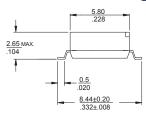


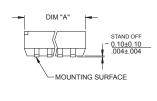
NO. OF SWITCH POSITIONS	"A" OVERALL DIMENSIONS
2	3.71/.146
4	6.25/.246
6	8.79/.346
8	11.33/.446
10	13.87/.546
12	16 41/ 646

TABLE 1

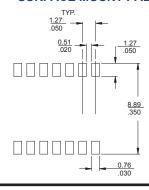
## **CTS SERIES 218LP - Gull Wing Terminal**







#### SURFACE MOUNT PAD LAYOUT



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

TABLE 2

DIMENSION: mm inch

# **Ordering Information**

