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CTS

# 基多邦, 专业PCB打样工厂, 24小时加急出货 Series 219 SMT DIP **Technical** Data

## Surface mount **DIP Switch**— **Auto Placeable**

#### **Features**

#### **Optimized Mechanical Features**

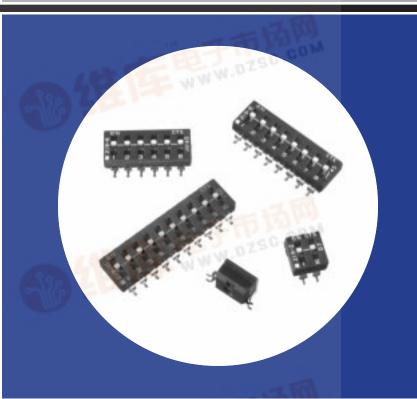
- Removable tape seal to withstand IR vapor phase or wave soldering temperatures, board washing
- Positive detent separate from contactor
- Low profile and medium height actuators available
- SPST configurations, 2 through 10 and 12 positions
- .686mm (.027") actuator travel
- Gull-wing and "J" lead terminal configurations

#### **Optimized Contact System**

- Redundant, wiping contact
- Contactor does not deflect during actuation

#### Premium Materials

- Gold plated contacts, solder coated terminals
- Copper alloy contactor
- High temperature materials (UL 94 V-0)



## **Electrical and Mechanical Specifications**

#### **Switch Function**

Single pole single throw

#### Switch Contact Resistance

25 milliohms maximum initial 50 milliohms maximum at end of life

#### Insulation Resistance

1,000 megohms minimum between insulated terminals

**Dielectric Strength** 500 VDC minimum for 1 minute DZSC.COM

Nonswitching Rating 100 mA or 50 VDC

#### **Switch Capacitance**

5 pF maximum between adjacent closed switches

**Temperature Range** -40°C to +85°C

#### Actuation Life

2,000 cycles switching 100 mA @ 20 VDC or 🖪 💏 @ 5 VDC (dry circuit) dzsc.com

#### Coplanarity

0.10mm (.004") maximum

#### Allowable Solder Time

IR and vapor phase - up to 60 seconds at 260°C Wave - up to 6 seconds @ 260°C

#### Vibration

Per MIL-STD-202F, method 204D, condition B (.065" or 15 G's between 10 HZ to 2K Hz) with no contact inconsistencies greater than 1 microsecond.

#### Shock

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

#### Sealing

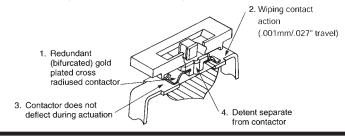
Bottom seal standard Top tape seal optional

#### Marking

Special marking available consult CTS.

## **CTS SERIES 219 SMT CONTACT FEATURES**

- 1. Value of Redundant (Bifurcated) Gold Plated Contacts: Redundancy dramatically reduces the probability of contact failure while gold contact material provides the highest environmental protection, IMPROVING RELIABILITY.
- 2. Value of Wiping Contact Action: Cleans contact area, IMPROVING RELIABILITY.
- 3. Value of Contactor Not Deflecting During Actuation: Constant contact pressure eliminates overstressing contacts, IMPROVING RELIABILITY.
- 4. Value of Detent Separate from Contactor: Separate detent allows optimization of nondeflecting contactor and detent designs, IMPROVING RELIABILITY.



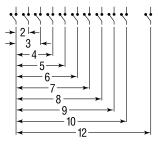
**Gull Wing Terminals** 

**Medium Height Actuator** 

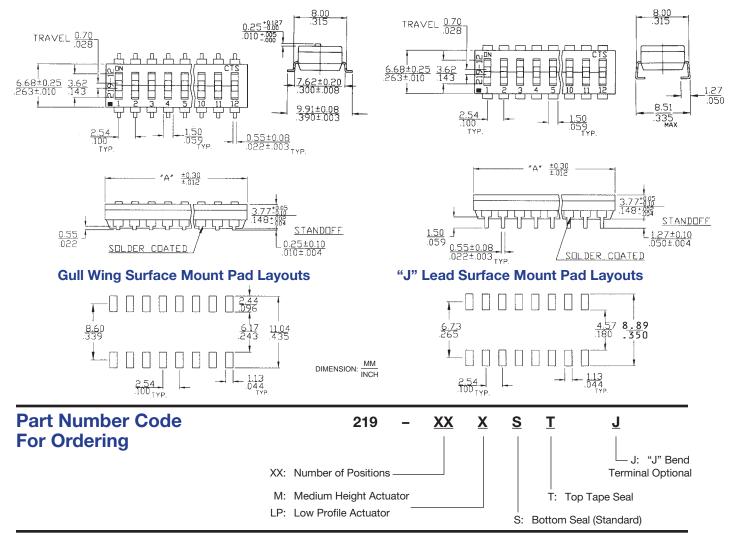
"A" Overall Dimension	No. of Switch Sections
6.55/.258	2
9.09/.358	3
11.63/.458	4
14.17/.558	5
16.71/.658	6
19.25/.758	7
21.79/.858	8
24.33/.958	9
26.87/1.058	10
31.95/1.258	12

\*For "J" bend terminal configurations, add the letter "J" to part number ie 219-2MSTJ or 219-2LPSTJ.

## **CTS 219-XX**



#### "J" Lead Terminals Low Profile Actuator



### **Order From:**

CTS CORPORATION, RESISTOR/ELECTROCOMPONENTS / 1601 Mishawaka Street / Elkhart, Indiana 46514 North America Toll Free (888) 287-4690 / (219) 296-6700 / FAX: (219) 293-1240 http://www.ctscorp.com CTS COMPONENTS TAIWAN, LTD. / 7, Central 6th Road (Chung Liu Road) / P.O. Box 26-20