

Series 219 Data Sheet SMD DIP Switch

Surface Mount DIP Switch — Auto Placeable

Features

Optimized Mechanical Features

- Removable tape seal to withstand IR vapor phase or wave soldering temperatures, and board washing
- Positive detent separate from contactor
- · Gull-wing and "J" lead terminal configurations

Optimized Contact System

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

Premium Materials

- · Gold plated beryllium copper contacts
- High temperature materials (UL94V-0)



Electrical and Mechanical Specifications

Switch Function

SPST- 2 through 10 and 12 positions

Switch Contact Resistance

25 milliohms maximum initial 50 milliohms maximum at the end of life

Insulation Resistance

1,000 megohms minimum between insulated terminals

Dielectric Strength

500 VDC for 1 minute between adjacent switches Nonswitching Rating

100 mA or 50 VDC maximum

Switch Capacitance 5 pF maximum between adjacent closed switches

Operating Temperature

- 55°C to +85°C

Actuation Life

2,000 cycles switching 100 mA @ 20 VDC or 0.1 mA @ 5 VDC (dry circuit)

Coplanarity

0.10mm (.004") maximum

Vibration

Per MIL-STD-202F, method 204D, condition B (.06" 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

Standard bottom seal Optional top tape seal

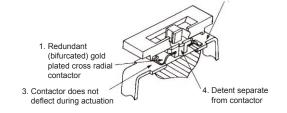
Marking

Special marking available consult CTS.

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

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: Clean 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.



"A" Overall Dimension	No. of Switch positions
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

