

Side Actuated, Surface Mount DIP Switches

Features

Optimized Mechanical Features

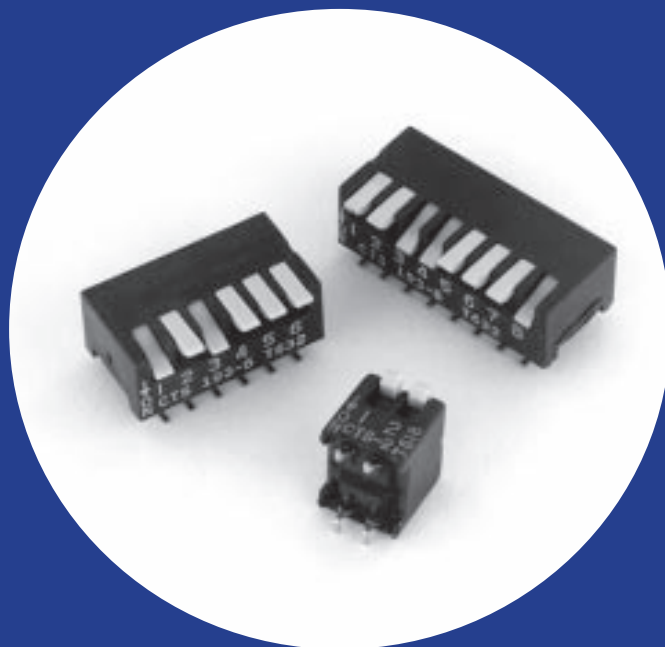
- Coplanarity: 0.1mm/.004" maximum
- Enclosed actuators shield contacts from foreign particles throughout life of switch
- Gull-wing terminal configuration
- Compatible with SMT assembly including IR and Vapor-phase (up to 260°C)
- SPST configuration, 2 through 10 positions

Optimized Contact System

- Contact wiping action on make and break
- Integral terminal and contact locked into high temperature plastic base
- Lock-over-center design provides positive detent action
- Optimized, active contact design incorporating dimple-to-flat surface wiping interface with high contact force

Materials

- Gold plated contacts for long-term contact corrosion resistance
- Tin plated terminals for better solderability
- UL 94V-0 plastics
- RoHS compliant



Electrical and Mechanical Specifications

Switch Function

SPST-2 through 10 positions

Switch Contact Resistance

50 milliohms maximum initial
100 milliohms maximum at end of life

Insulation Resistance

1,000 megohms minimum between insulated terminals

Dielectric Strength

500 VAC for 1 minute between adjacent switches

Nonswitching Rating

100 mA or 50 VDC maximum

Switch Capacitance

5.0 pF maximum between adjacent closed switches

Operating Temperature

-40°C to +85°C

Actuation Life

7,000 cycles switching 50 mA @ 24 VDC

Coplanarity

Coplanarity of 0.1mm / .004" max

Allowable Solder Time

Up to 60 seconds at 260°C

Vibration

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

Shock

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

Sealing

Bottom epoxy seal standard

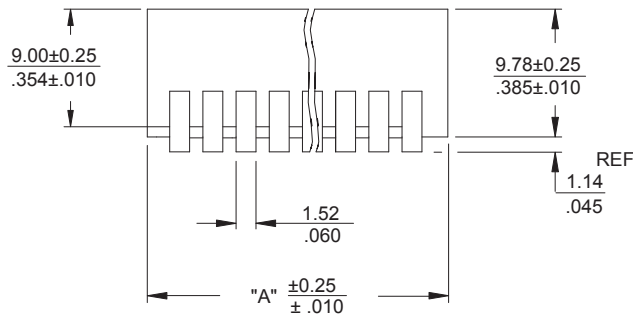
Marking

Special side or top marking available-consult CTS

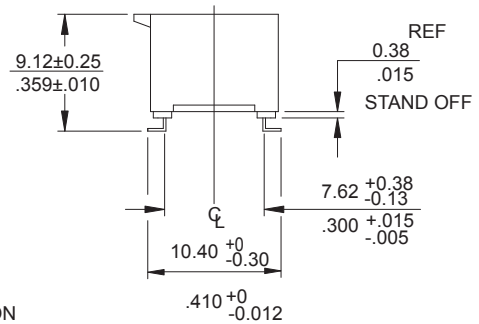
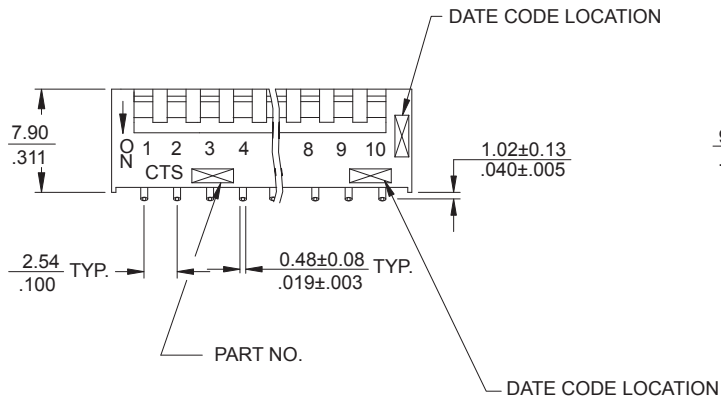
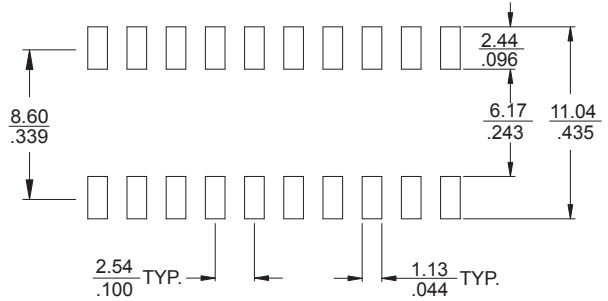
Packaging

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

CTS SERIES 193



Surface Mount Pad Layouts



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

"A" Overall Dimensions	No. of Switch Positions	Part Number
7.26 / .286	2	193-2MS
9.80 / .386	3	193-3MS
12.34 / .486	4	193-4MS
14.88 / .586	5	193-5MS
17.42 / .686	6	193-6MS
19.96 / .786	7	193-7MS
22.50 / .886	8	193-8MS
25.04 / .986	9	193-9MS
27.58 / 1.086	10	193-10MS

Ordering Information

193 - **10** **M** **S** **R** **N**

XX: # OF POSITIONS

M: MEDIUM LENGTH ACTUATOR
(1.14mm/.045")

S: BOTTOM EPOXY SEAL

BLANK: ANTI-STATIC TUBE PACKAGING

*R: TAPE AND REEL PACKAGING

*Not available for 7 position

BLANK: SHIP AT OFF POSITION

N: SHIP AT ON POSITION

Note:

Consult CTS for other common standard features not listed.

AMEYA360

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