

Series 193 Data Sheet **Side Actuated DIP Switch**

Side Actuated, **Surface Mount DIP Switches**

Features

Optimized Mechanical Features

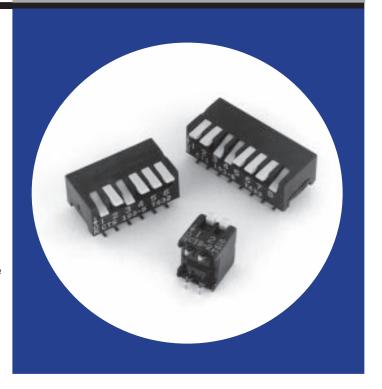
- Coplanarity: 0.1mm/.004" maximum
- · Enclosed actuators shield contacts from foreign particles throughout life of switch
- · Gull-wing terminal configuration
- · Compatible with SMT assembly including IR and Vapor-phase (up to 260°C)
- SPST configuration,2 through 10 positions

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

Special side or top marking available-consult CTS

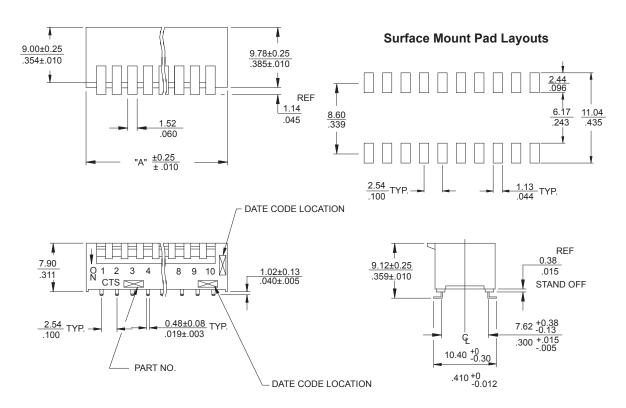
Packaging

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

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CTS SERIES 193



DIMENSION:	mm
	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

