

Series 193 Data Sheet Side Actuated DIP Switch

Side Actuated, Surface Mount DIP Switches

Features

Optimized Mechanical Features

- Coplanarity: 0.1mm/.004" maximumEnclosed actuators shield contacts from foreign
- particles throughout life of switchGull-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

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

7/21/14

CTS SERIES 193



DIMENSION: mm inch

Orde	Part Number	No. of Switch Positions	"A" Overall Dimensions
	193–2MS	2	7.26 / .286
XX :	193–3MS	3	9.80 / .386
M : MEI (1.14	193–4MS	4	12.34 / .486
	193–5MS	5	14.88 / .586
	193–6MS	6	17.42 / .686
BLANK *R: TAF *Not av	193–7MS	7	19.96 / .786
	193–8MS	8	22.50 / .886
BLANI N [.]	193–9MS	9	25.04 / .986
Note: Cor	193–10MS	10	27.58 / 1.086

Ordering Information

