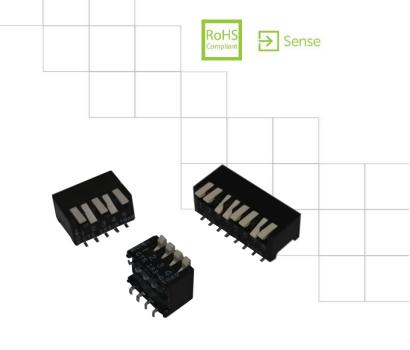


Series 193

Side Actuated DIP Switch

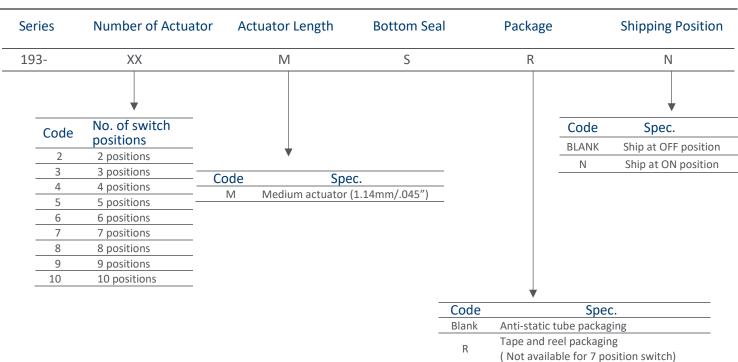
- Coplanarity: 0.1mm/.004" maximum
- Enclosed actuators shield contacts from foreign particles throughout life of switch
- Integral terminal and contact locked into high temperature plastic base
- Gold plated contacts for long-term contact corrosion resistance



Description

The gold plated contact lock-over-center design provides positive detent action for CTS 193 Series. Optimized active contact design incorporates a high contact force, dimple wiping action interface, making it the ideal choice for any network or security system.

Ordering Information



Notes: Contact CTS for other common features not listed.

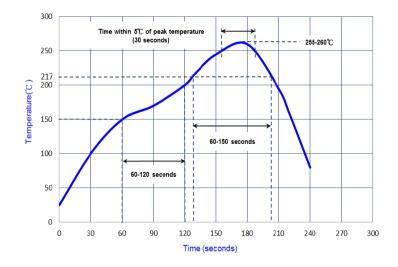
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Circuit	SPST 2		10	positions
Contact Resistance	Initial At end of life		50 100	milliohms
Insulation Resistance	Between insulated terminals 1000			megohms
Dielectric Strength	500 VAC between adjacent switches		1	minute
Actuation Life	50mA @ 24 VDC	7,000		cycles
Switch Capacitance	Between adjacent closed 5.0			pF
			100	mA
Nonswitching Rating			or	or
			50	VDC

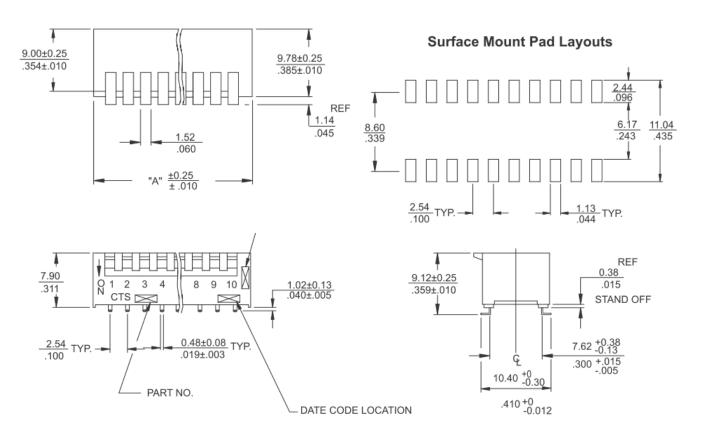
Mechanical and Environmental

Soldering	Maximum reflow temperature, 250°C for 30 seconds		
MSL	Level 1		
RoHS	Lead-Free. Fully compliant to RoHS Directive 2011/65/EU		
Shock	Per MIL-STD-202F, method 213B, condition A (50G's)		
	with no contact inconsistencies greater than 1 microsecond		
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		
Seal	Bottom seal standard		
Marking	Special side or top marking available-consult CTS		
Packaging:	Standard anti-static tube packaging, optional tape & reel packaging		
Operating Temperature	40°C to 10°C		
Range	-40°C to +85°C		
Storage Temperature	40°C +0 +0F°C		
Range	-40°C to +85°C		

Soldering Profile



Mechanical Specifications



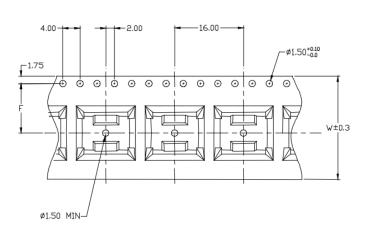
DIMENSION: mm inch

"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	

Packing: Tape and Reel

Unit: mm

SW Section	Fig	Во	W	F	S
2	I	7.15	24.0	11.50	-
3	I	9.69	24.0	11.50	-
4	I	12.23	24.0	11.50	-
5	П	14.81	32.0	14.20	28.4
6	П	17.35	32.0	14.20	28.4
8	П	22.40	44.0	20.20	40.4



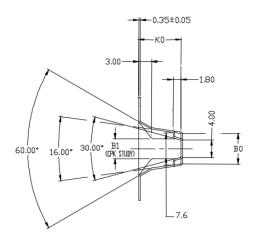
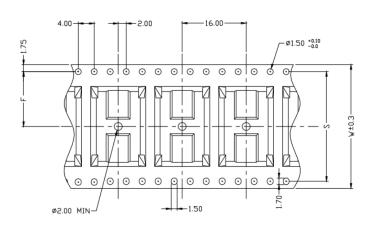


FIG I



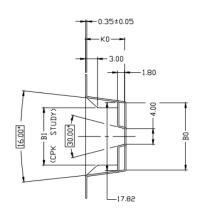


FIG II

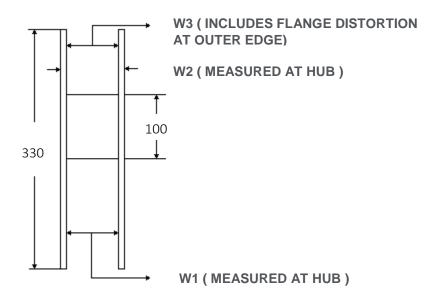
Side Actuated DIP Switch

SPECIFIED REEL PARTS DIMENSIONS:

Unit: mm

SW Section	W1	W2	W3
2~4	24.4	30.4 MAX.	23.9 MIN./27.4 MAX.
5~6	32.4	38.4 MAX.	31.9 MIN./35.4 MAX.
8	44.4	50.4 MAX.	43.9 MIN./47.4 MAX.

(SEE PICTURE FIG)

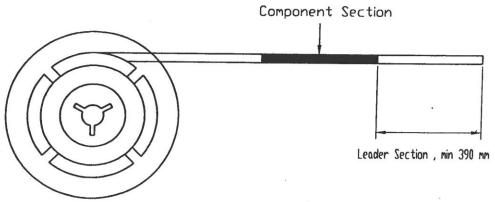


- 1. TAPE SPROCKET HOLE PITCH: 4.0 ± 0.1MM
- 2. ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH
- IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS
 MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION OF THE COMPONENT IN
 T&R POCKET.
- 4. RECOMMENDED PART ORIENTATION IN TAPE & REEL POCKET.
 ORIENT SWITCH TERMINAL #1 TO THE SIDE OF ROUND SPROCKET HOLES, SEE PICTURE BELOW.

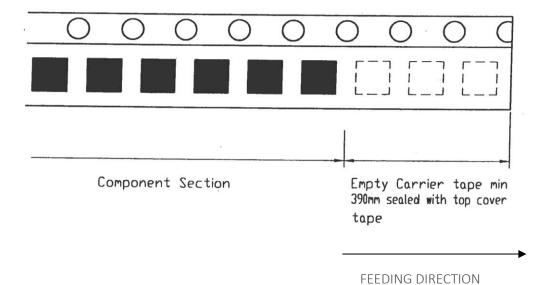


LENGTH OF TAPE

5. THERE SHALL BE A LEADER OF 390mm MINIMUM WHICH IS SEALED ONTO EMPTY CARRIER TAPE, SEE PICTURE BELOW.



(see enlargement underneath)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIP Switches/SIP Switches category:

Click to view products by CTS manufacturer:

Other Similar products are found below:

78M03S 79B10T 8136-475G4T G7G-1A2-CB-DC12 A7SS-M DBP 2110 DBP 2112 DBS1008 DHN02FTVTR DHN10T DHS108
DPL08TN DRD16CSE04 DRR4010 DRR60016 DRS4016 BD06E 1825008-1 1825444-1 25.350.0653.0 LA2-DC12 SBS 5004 TG
SDA10H1BDA 97R06ST A2C-2A5 1825444-7 ADE08SA04 ADE12S04 2161391-1 2-1825058-8 CCVA 2.5/4-G-5.08 P26THRR32
25.330.0653.1 25.352.0353.0 MDG305ST IKN0600000 IKN0800000 LA2-002-DC24 DBP2008 DBS1003 DBS2008 438872000
DRD10CRAE04 DRS1604 DSR02T DSS 208 N 5-1825033-1 106-SDN06-EV 1-1437507-6 E2FMX2D1M1TGJ03M
E3ZMCT81M1TJ03M