



Series 204

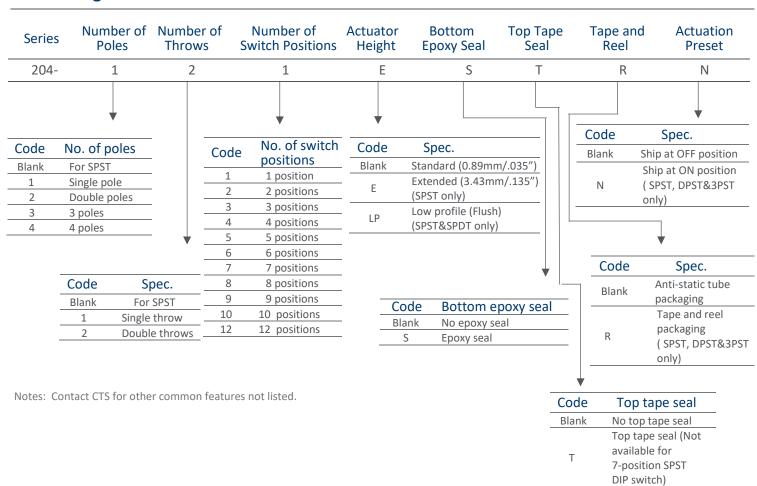
Surface Mount Multi-Functional DIP Switch

- Coplanarity: 0.1mm/.004" maximum
- Enclosed actuators shield contacts from foreign particles throughout life of switch
- Available with SPST, SPDT, DPST, 3PST circuitry choices
- Optional top tape seal for board spray washing

Description

Integral terminal and contact molded into thermoset base provides electrostatic discharge protection rated to 22KV. Optimized gold plated contact design incorporates a dimple wiping interface for long-term contact corrosion resistance.

Ordering Information





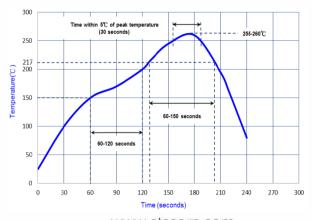
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
	SPST	2	12	
Circuit	SPDT 1 DPST 1		6	
			6	positions
	3PST	1	4	
Contact Resistance	Initial		50	milliohms
	At end of life		100	IIIIIIOIIIIS
Insulation Resistance	Between insulated terminals		megohms	
Dialantaia Charanath	500 VAC between adjacent	t 1		minute
Dielectric Strength	switches		1 mi	
Actuation Life	50mA @ 24 VDC	5,000	cycles	
Switch Capacitance	Between adjacent closed		5.0	pF
ottiteii eapaeitailee	switches			۲۰
			100	mA
Nonswitching Rating			or	or
			50	VDC
Coplanarity			0.1	mm
Copialiality			0.004	inch

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 epoxy seal		
Seal	Top tape seal optional		
Marking	Special side or top marking available-consult CTS		
Packaging:	Standard anti-static tube packaging, optional tape and reel packaging		
Operating Temperature	e -40°C to +85°C		
Range	-40 C t0 +65 C		
Storage Temperature	-55°C to +85°C		
Range	-55 C 10 +65 C		

Soldering Profile

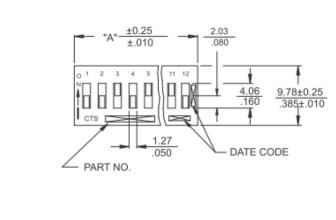


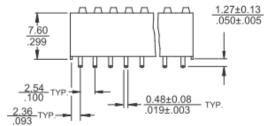
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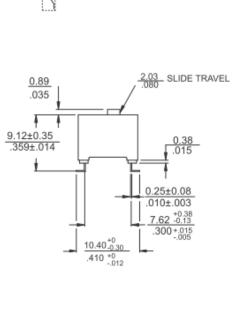


Mechanical Specifications

Figure 1 - SPST







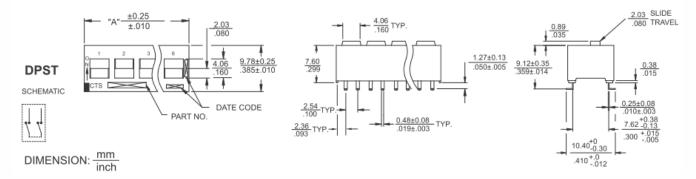
SCHEMATIC

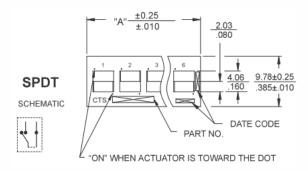
DIMENSION: mm inch

"A" Overall Dimension	No. of Switch Positions	Part No.
7.26 / .286	2	204-2
9.80 / .386	3	204-3
12.34 / .486	4	204-4
14.88 / .586	5	204-5
17.42 / .686	6	204-6
19.96 / .786	7	204-7
22.50 / .886	8	204-8
25.04 / .986	9	204-9
27.58 / 1.086	10	204-10
32.66 / 1.286	12	204-12



Figure 2 - SPDT/DPST

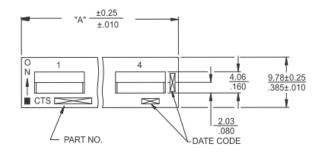




Ordering Information SPDT/DPST Switches

"A" Overall Dimension	Number of Switch Positions	Actuation	Part No.
7.26 / .286	1	SPDT/DPST	204-121/204-211
12.34 / .486	2	SPDT/DPST	204-122/204-212
17.42 / .686	3	SPDT/DPST	204-123/204-213
22.50 / .886	4	SPDT/DPST	204-124/204-214
27.58 / 1.086	5	SPDT/DPST	204-125/204-215
32.66 / 1.286	6	SPDT/DPST	204-126/204-216

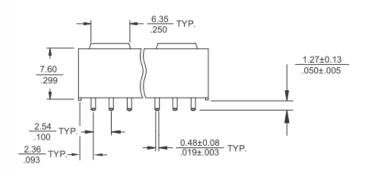
Figure 3 - 3PST

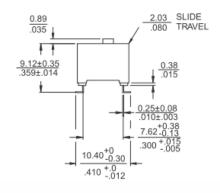




Ordering Information 3PST Switches

"A" Overall Dimension	No. of Switch Positions	Actuation	Part No.
9.80 / .386	1	3PST	204-311
17.42 / .686	2	3PST	204-312
25.04 / .986	3	3PST	204-313
32.66 / 1.286	4	3PST	204-314

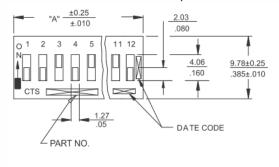


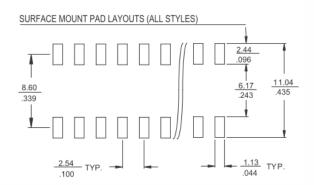


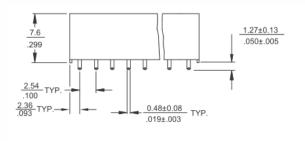
DIMENSION: mm inch

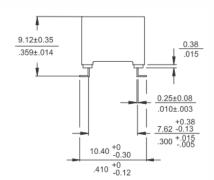


Figure 4 – Low Profile Actuators (SPST&SPDT only)









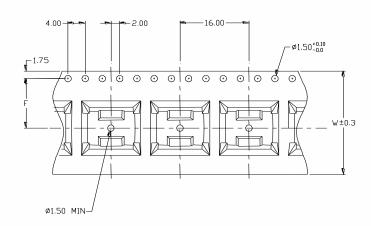
DIMENSION: mm

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
12	П	32.56	44.0	20.20	40.4



Surface Mount Multi-Functional DIP Switch



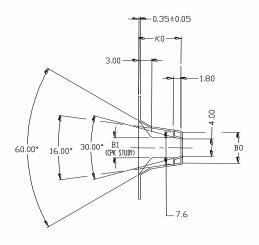
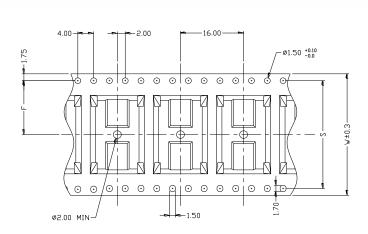


FIG I



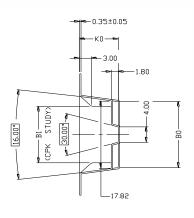


FIG II

SPECIFIED REEL PARTS DIMENSIONS:

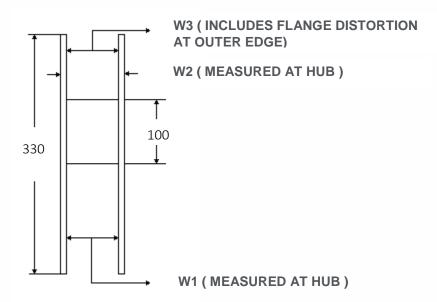
Unit: mm

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.
12	44.4	50.4 MAX.	43.9 MIN./47.4 MAX.

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(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.

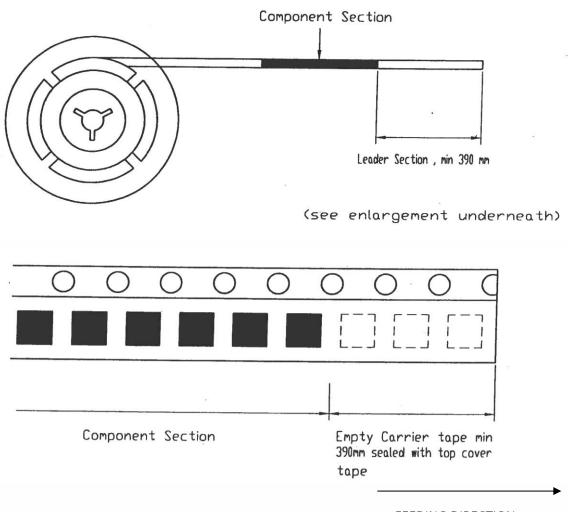
ORIENT SWITCH TERMINAL #1 TO THE SIDE OF ROUND SPROCKET HOLES, SEE PICTURE BELOW.



LENGTH OF TAPE

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





FEEDING DIRECTION

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

204-10ST 204-121ST 204-122ST 204-123ST 204-124ST 204-125ST 204-126ST 204-12ST 204-212ST 204-212ST 204-213ST 204-214ST 204-215ST 204-216ST 204-3ST 204-9ST 204-121LPST 204-122LPST 204-123LPST 204-124LPST 204-125LPST 204-126LPST 204-211ST 204-221ST 204-2ST 204-4ST 204-5ST 204-6ST 204-7ST 204-8ST 204-223ST 204-222ST 204-121 204-124STR 204-4LPSTR 204-4STR 204-122STR 204-211STR 204-121STR 204-3STR 204-6ES 204-8S 204-8STR 204-212STR 204-213STR 204-126STR 204-122S 204-124S 204-123STR 204-7S 204-121S 204-4S 204-2S 204-313ST 204-6STR 204-2STR 204-8LPST 204-12LPSTR 204-4SR 204-5STR 204-8SR 204-5SR 204-5SR 204-6S 204-6SR 204-9S 204-9SR 204-9STR 204-10SR 204-10SR 204-10STR 204-12SR 204-3SR 204-214STR