

Series 218 Half Pitch, SMD DIP Switch

- Removable tape seal to withstand IR vapor phase or wave soldering temperatures, and board washing
- Gull-wing and "J"bend terminal configurations
- Low profile actuators prevent accidental actuation
- SPST configuration available
- 0.6mm/.024" actuator travel
- Optional top tape seal for board spray washing

Description

Positive detent separated from contactor causes contactor does not deflect during actuation. Unique compact type design allows to be used at mini size application. Optional sealed structure is optimized for board washing during soldering process. It makes it the ideal choice for any server, security and HVAC systems

Ordering Information

eries	Number of Switch Positions	Low Profile Actuator	Bottom Epoxy Seal	Top Tape Seal	Terminal Type	Packaging Type	Actuation Preset
218-	12	LP	S	Т	J	R	F
	•			•			
Code	No. of switch positions	-	Code	Top tape seal			
2	2 positions	-	Blank	No top tape seal	Cod		
4	4 positions	-	T	Top tape seal	Blar		ube packaging
6	6 positions	-			R	Tape & reel	packaging
0		-					
8	o posicions						
10	8 positions 10 positions	-					
		-					
10	10 positions	-					
10	10 positions	-		Code Si	pec.		
10	10 positions	-			pec. ull wing terminal		
10	10 positions	-		Blank G	pec. ull wing terminal bend terminal		
10	10 positions	-		Blank G	ull wing terminal		•
10	10 positions	-		Blank G	ull wing terminal	 Code	Spec.
10	10 positions	-		Blank G	ull wing terminal		Spec.

Notes: Contact CTS for other common features not listed.

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Sense



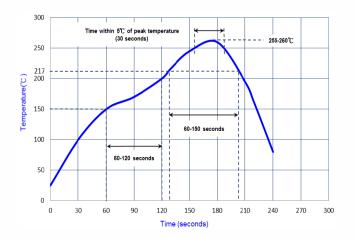
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Circuit	SPST	2	12	position
Contact Resistance	Initial At end of life		100	un illin hun n
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	100		megohms
Dielectric Strength	350 VAC between adjacent	350 VAC between adjacent		minute
Dielectric Strength	switches		T	
Actuation Life	25mA @ 24 VDC		1,000	cycles
Switch Capacitance	Between adjacent closed switches		10	pF
Switch Capacitance			10	pi
			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-202G, method 213B, condition A(50G's)				
SHOCK	with no contact inconsistencies greater than 1 microsecond				
Vibration	Per MIL-STD-202G, method 204D, condition B (.06" or 15G's between 10 HZ to 2K HZ) with				
vibration	no contact inconsistencies greater than 1 microsecond				
Coplanarity	0.1mm/.004" maximum				
Seal	Bottom epoxy seal standard				
Seal	Top tape seal optional				
Marking	Special marking available-consult CTS				
Deckering	Standard anti-static tube packaging				
Packaging:	Optional tape and reel packaging				
Operating Temperature Range	-55°C to +85°C				
Storage Temperature Range	-55°C to +85°C				

Soldering Profile

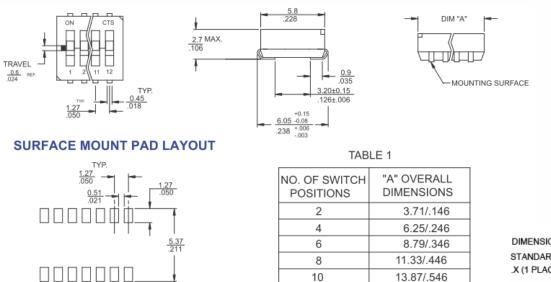


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Mechanical Specifications

Figure 1 – Surface Mount J Bend Terminal

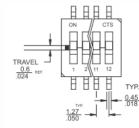


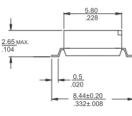
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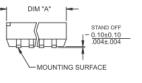
DIMENSION: $\frac{mm}{inch}$ STANDARD TOLERANCE : .X (1 PLACE): $\frac{\pm 0.3}{\pm .012}$.XX(2 PLACE): $\frac{\pm 0.13}{\pm .005}$

Figure 2 – Surface Mount Gull Wing Terminal

0.76

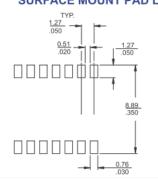






16.41/.646

SURFACE MOUNT PAD LAYOUT



NO. OF SWITCH POSITIONS	"A" OVERALL DIMENSIONS
2	3.71/.146
4	6.25/.246
6	8.79/.346
8	11.33/.446
10	13.87/.546
12	16.41/.646

TABLE 2

DIMENSION: $\frac{mm}{inch}$ STANDARD TOLERANCE : X (1 PLACE): $\frac{\pm 0.3}{\pm 0.12}$, XX(2 PLACE): $\frac{\pm 0.13}{\pm 0.05}$

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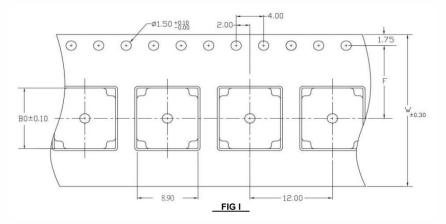
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Series 218 Half Pitch, SMD DIP Switch

Packing: Tape and Reel

SW Section	Fig	Во	W	F
2		4.51	16.0	7.50
4		7.05	16.0	7.50
6		9.75	16.0	7.50
8		12.13	24.0	11.50
10		14.67	24.0	11.50
12		17.22	24.0	11.50

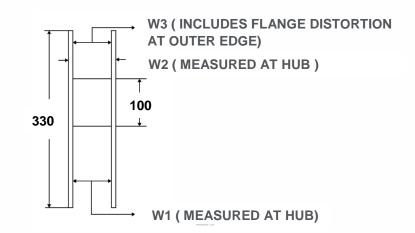


SPECIFIED REEL PARTS DIMENSIONS:

Unit: mm

Unit: mm

SW Section	W1	W2	W3
2	16.4	22.4 MAX.	15.9 MIN./19.5 MAX.
4	16.4	22.4 MAX.	15.9 MIN./19.5 MAX.
6	16.4	22.4 MAX.	15.9 MIN./19.5 MAX.
8	24.4	30.4 MAX.	23.9 MIN./27.4 MAX.
10	24.4	30.4 MAX.	23.9 MIN./27.4 MAX.
12	24.4	30.4 MAX.	23.9 MIN./27.4 MAX.

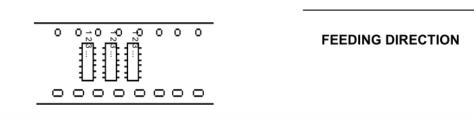


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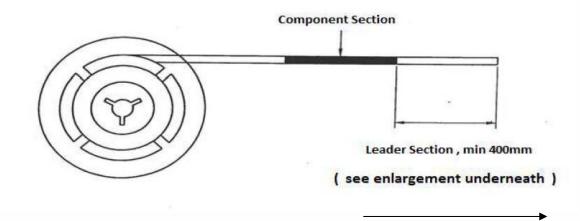
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- TAPE SPROCKET HOLE PITCH : 4.0 ± 0.1MM ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION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



3 LENGTH OF TAPE THERE SHALL BE A LEADER OF 400mm MINIMUM WHICH IS SEALED ONTO EMPTY CARRIER TAPE, SEE PICTURE BELOW.

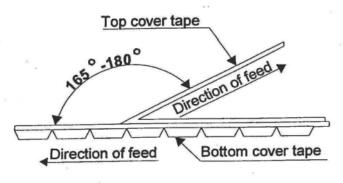


FEEDING DIRECTION

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- 4. TAPE BREAK FORCE, PEEL STRENGTH AND ANGLE. REQUIRED SETTINGS :
 - TOP COVER TAPE PEEL FORCE : 10 ~ 130 gm
 - ANGLE BETWEEN THE TOP COVER TAPE AND THE DIRECTION OF FEED DURING PEEL OFF : 165°~ 180°



Embossed Carrier Tape

THE COVER TAPES MAY NOT EXTEND OVER THE DEGE OF THE CARRIER TAPE OR COVER ANY PART OF THE SPROCKETS HOLES.

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