

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	Actuatior Preset
218-	12	LP	S	Т	J	R	F
	•			•			
Code	No. of switch positions		Code	Top tape sea			
2	2 positions	-	Blank	No top tape seal			
4	4 positions	-	T	Top tape seal	Blar		ube packaging
6	6 positions	-			R	Tape & reel	packaging
8	8 positions						
10	10 positions						
12	12 positions	-					
12	12 positions	-			L L L L L L L L L L L L L L L L L L L		
12	12 positions	-		Code	Spec.		
12	12 positions	-			Spec.		
12	12 positions	-		Blank			
12	12 positions	-		Blank	Gull wing terminal		•
12	12 positions	-		Blank	Gull wing terminal	Code	Spec.
12	12 positions	-		Blank	Gull wing terminal		Spec.

Notes: Contact CTS for other common features not listed.

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Sense



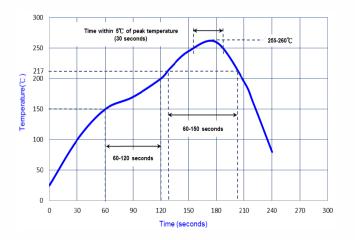
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit	
Circuit	SPST	2	12	position	
Contact Resistance	Initial		100	milliohms	
Contact Resistance	At end of life		100 ^m		
Insulation Resistance	Between insulated terminals	100		megohms	
Dielectric Strength	350 VAC between adjacent	50 VAC between adjacent		minute	
Dielectric Strength	switches	T			
Actuation Life	25mA @ 24 VDC		1,000	cycles	
Switch Capacitance	Between adjacent closed 10		рĘ		
Switch capacitance	switches	10		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-202G, method 213B, condition A(50G's)				
SNOCK	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				
Deckezing	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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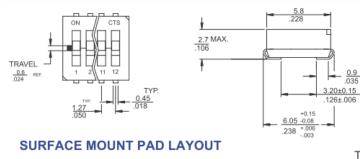
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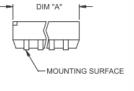
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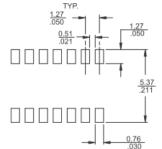


Mechanical Specifications

Figure 1 – Surface Mount J Bend Terminal





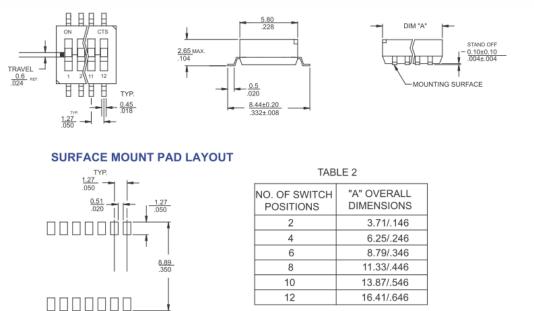


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TABLE 1			
NO. OF SWITCH POSITIONS	"A" OVERALL DIMENSIONS		
2	3.71/.146		
4	6.25/.246		
6	8.79/.346		
8	11.33/.446		
10	13.87/.546		
12	16.41/.646		

0.9 .035

Figure 2 – Surface Mount Gull Wing Terminal



DIMENSION: mm

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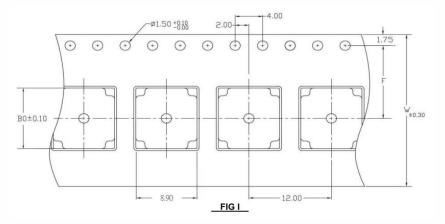
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Packing: Tape and Reel

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

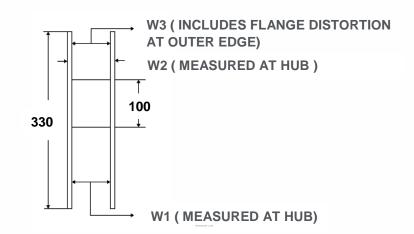


SPECIFIED REEL PARTS DIMENSIONS:

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.



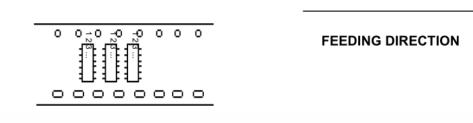
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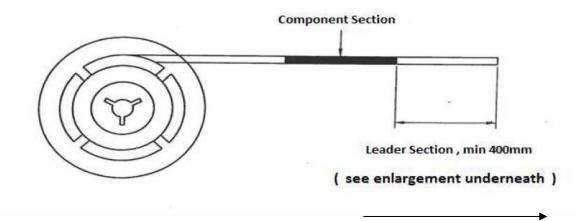
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- TAPE SPROCKET HOLE PITCH : 4.0 ± 0.1MM ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION 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

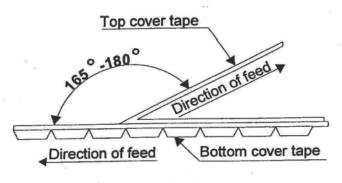
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- 4. TAPE BREAK FORCE, PEEL STRENGTH AND ANGLE. REQUIRED SETTINGS :
 - TOP COVER TAPE PEEL FORCE : 10 ~ 130 gm
 - ANGLE BETWEEN THE TOP COVER TAPE AND THE DIRECTION OF FEED DURING PEEL OFF : 165°~ 180°



Embossed Carrier Tape

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