

# Series 218 Half Pitch, SMD DIP Switch

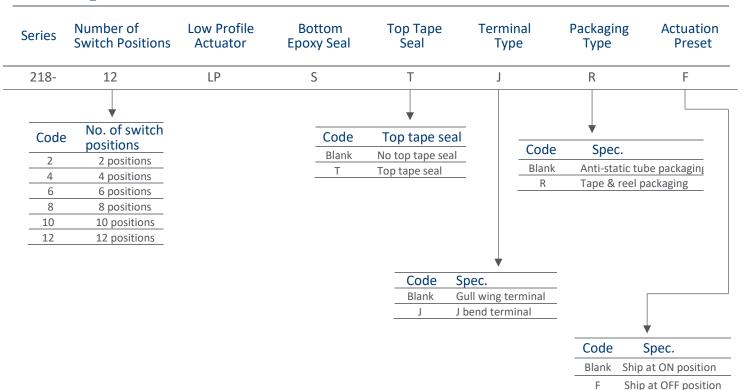
- Removable tape seal to withstand IR vapor phase or wave soldering temperatures, and board washing
- Gull-wing and "J"bend terminal configurations
- Low profile actuators prevent accidental actuation
- SPST configuration available
- 0.6mm/.024" actuator travel
- Optional top tape seal for board spray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



Notes: Contact CTS for other common features not listed.



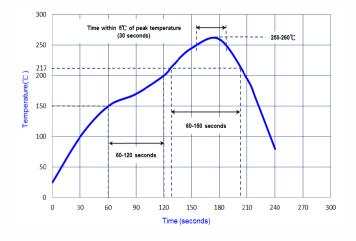
## **Electrical Specifications**

Parameter	Conditions & Remarks	Min	Max	Unit
Circuit	SPST	2	12	position
Contact Resistance	Initial		100	milliohms
Contact Resistance	At end of life		100 millio	
Insulation Resistance	Between insulated terminals	100		megohms
Dielectric Strength	350 VAC between adjacent		1	
	switches	1		minute
Actuation Life	25mA @ 24 VDC		1,000	cycles
Switch Capacitance	Between adjacent closed		10 pF	
	switches			
			100	mA
Nonswitching Rating			or	or
			50	VDC

### **Mechanical and Environmental**

Maximum reflow temperature, 250°C for 30 seconds		
Level 1		
Lead-Free. Fully compliant to RoHS Directive 2011/65/EU		
Per MIL-STD-202G, method 213B, condition A( 50G's)		
with no contact inconsistencies greater than 1 microsecond		
Per MIL-STD-202G, method 204D, condition B ( .06" or 15G's between 10 HZ to 2K HZ) with		
no contact inconsistencies greater than 1 microsecond		
0.1mm/.004" maximum		
Bottom epoxy seal standard		
Top tape seal optional		
Special marking available-consult CTS		
Standard anti-static tube packaging		
Optional tape and reel packaging		
FF°C+0.10F°C		
-55°C to +85°C		
ture -55°C to +85°C		

#### **Soldering Profile**





### **Mechanical Specifications**

Figure 1 – Surface Mount J Bend Terminal

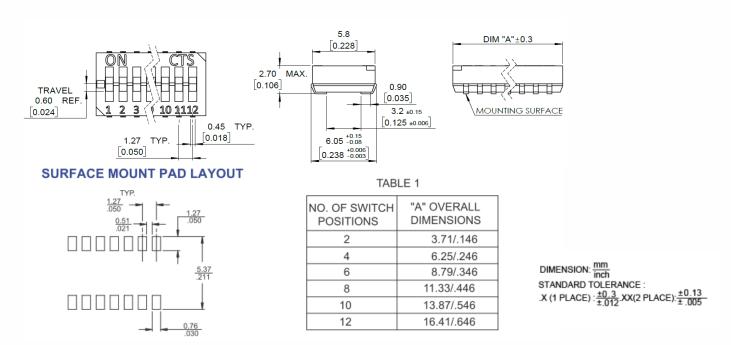
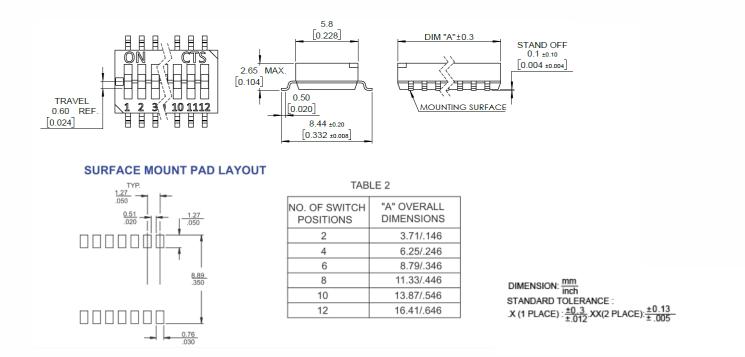


Figure 2 - Surface Mount Gull Wing Terminal

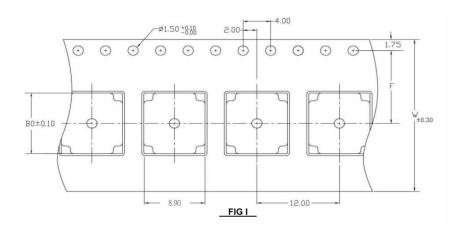




# **Packing: Tape and Reel**

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			m	

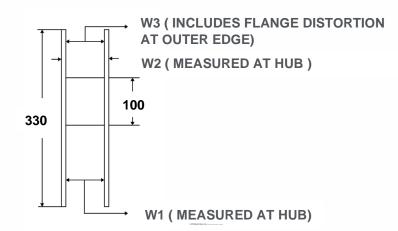
SW Section	Fig	Во	W	F
2	1	4.51	16.0	7.50
4	1	7.05	16.0	7.50
6	[	9.75	16.0	7.50
8		12.13	24.0	11.50
10	I	14.67	24.0	11.50
12	I	17.22	24.0	11.50



#### **SPECIFIED REEL PARTS DIMENSIONS:**

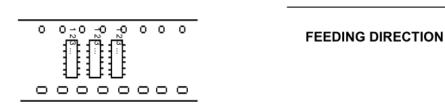
Unit: mm

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.

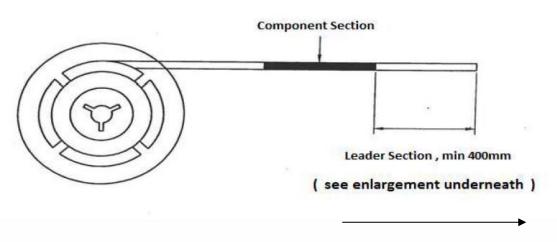




- 1. TAPE SPROCKET HOLE PITCH :  $4.0 \pm 0.1 \text{MM}$  ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH
  - IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION OF THE COMPONENT IN T&R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

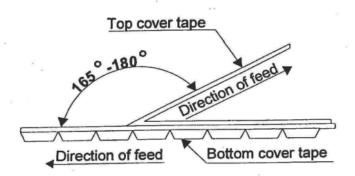


3 LENGTH OF TAPE
THERE SHALL BE A LEADER OF 400mm MINIMUM WHICH IS SEALED ONTO EMPTY
CARRIER TAPE, SEE PICTURE BELOW.





- 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.