

# 218-2LPSTR Datasheet

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218-2LPSTR

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DiGi Electronics Part Number	218-2LPSTR-DG
Manufacturer	<a href="#">CTS Electrocomponents</a>
Manufacturer Product Number	218-2LPSTR
Description	SWITCH SLIDE DIP SPST 25MA 24V
Detailed Description	Dip Switch SPST 2 Position Surface Mount Slide (Standard) Actuator 25mA 24VDC



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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

218-2LPSTR

Series:

218

Circuit:

SPST

Current Rating (Amps):

25mA

Actuator Type:

Slide (Standard)

Contact Material:

Beryllium Copper

Height Above Board:

0.104" (2.65mm)

Termination Style:

Gull Wing

Washable:

Yes

Operating Temperature:

-55°C ~ 85°C

Length:

0.146" (3.71mm)

Electrical Life:

1,000 Cycles

Manufacturer:

CTS Electrocomponents

Product Status:

Active

Number of Positions:

2

Voltage Rating:

24VDC

Actuator Level:

Flush, Recessed

Contact Finish:

Gold

Mounting Type:

Surface Mount

Pitch:

0.050" (1.27mm), Half

Features:

Epoxy Sealed Terminals, Tape Seal

Body Material:

-

Mechanical Life:

-

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

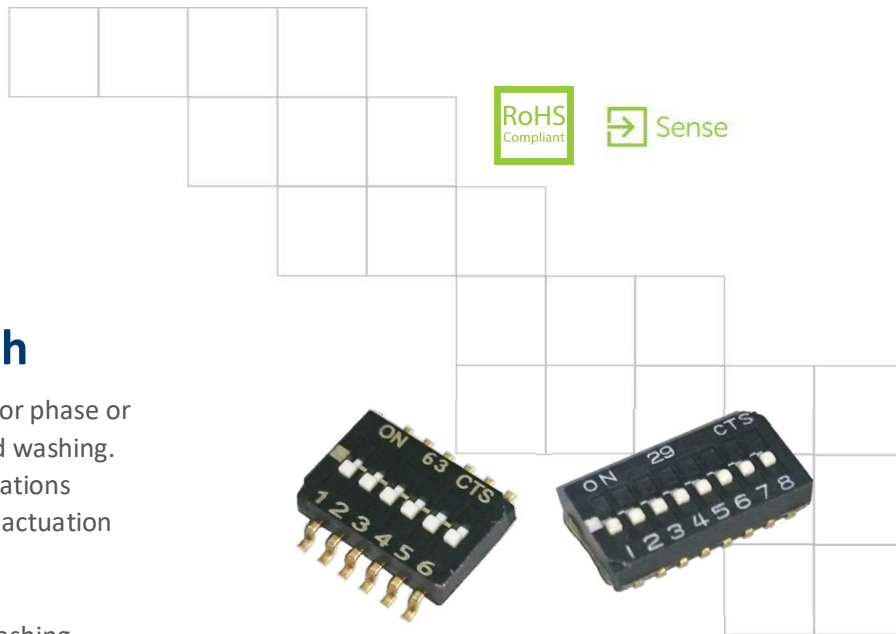
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Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



# 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
- AEC-Q200 Certification

### Description

Series 218 is a compact DIP switch for miniature application where size is a constraint. It is ideal for server, security, HVAC system. 218 switch design aids improved reliability with positive detent and non-deflecting contactor during actuation.

### Ordering Information

Series	Number of Switch Positions	Low Profile Actuator	Bottom Epoxy Seal	Top Tape Seal	Terminal Type	Packaging Type	Actuation Preset
218-	12	LP	S	T	J	R	F

Code	No. of switch positions
2	2 positions
4	4 positions
6	6 positions
8	8 positions
10	10 positions
12	12 positions

Code	Top tape seal
Blank	No top tape seal
T	Top tape seal

Code	Spec.
Blank	Anti-static tube packaging
R	Tape & reel packaging

Code	Spec.
Blank	Gull wing terminal
J	J bend terminal

Code	Spec.
Blank	Ship at ON position
F	Ship at OFF position

Notes: Contact CTS for other common features not listed.



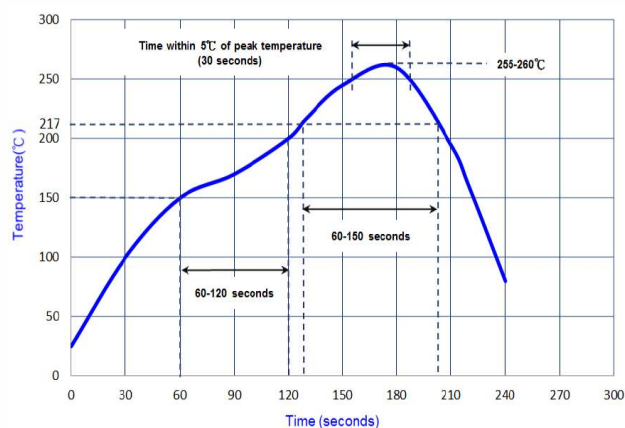
## Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Circuit	SPST	2	12	position
Contact Resistance	Initial		100	milliohms
	At end of life		100	
Insulation Resistance	Between insulated terminals	100		megohms
Dielectric Strength	350 VAC between adjacent switches		1	minute
Actuation Life	25mA @ 24 VDC		1,000	cycles
Switch Capacitance	Between adjacent closed switches		10	pF
Nonswitching Rating			100	mA
			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) 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 no contact inconsistencies greater than 1 microsecond
Coplanarity	0.1mm/.004" maximum
Seal	Bottom epoxy seal standard Top tape seal optional
Marking	Special marking available-consult CTS
Packaging:	Standard anti-static tube packaging Optional tape and reel packaging
Operating Temperature Range	-55°C to +85°C
Storage Temperature Range	-55°C to +85°C

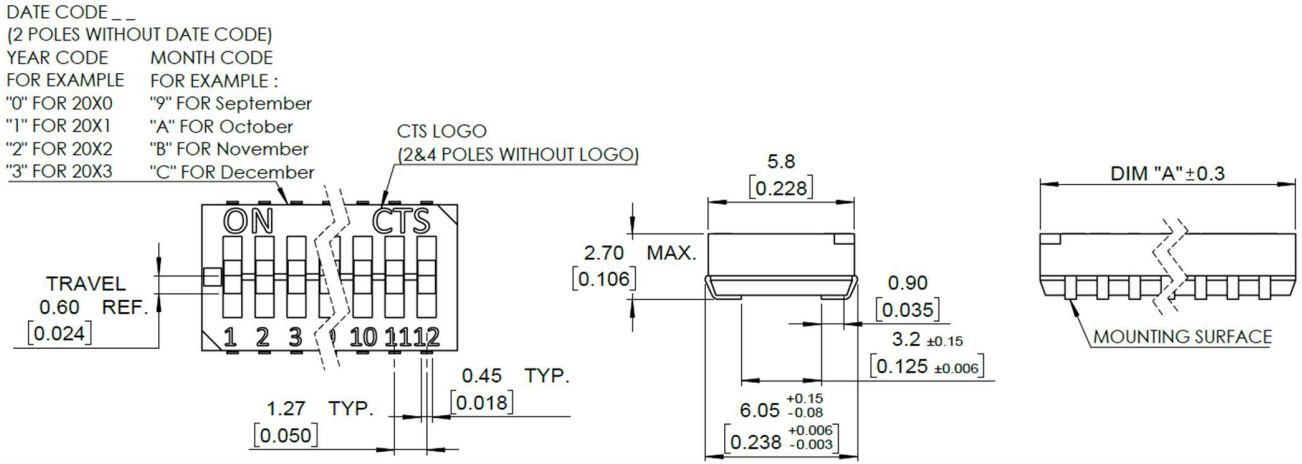
## Soldering Profile





**Mechanical Specifications**

Figure 1 – Surface Mount J Bend Terminal



**SURFACE MOUNT PAD LAYOUT**

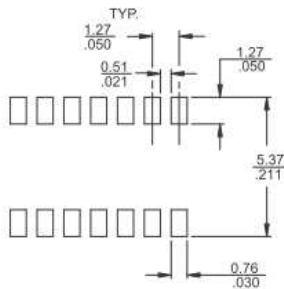


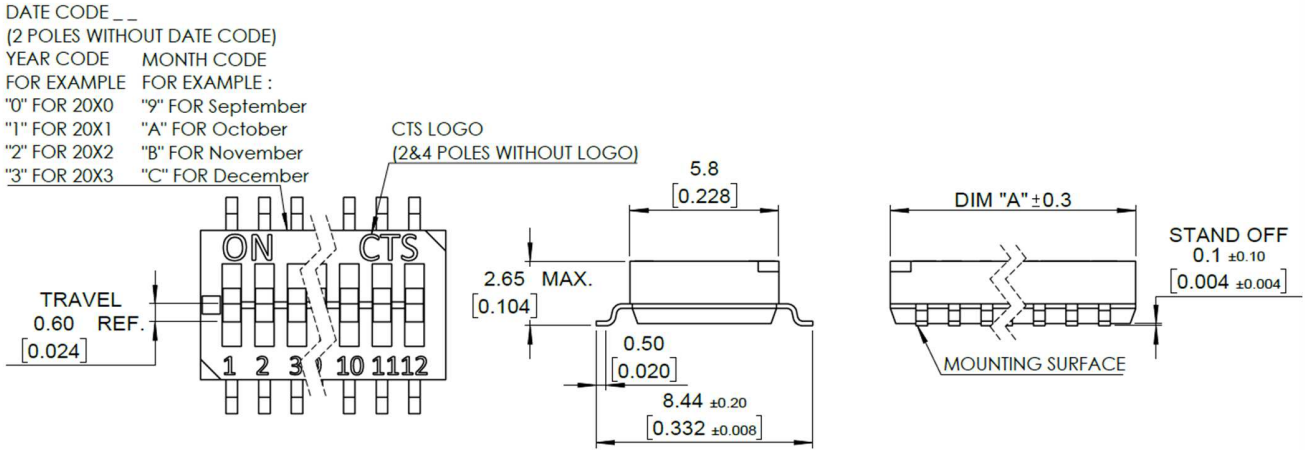
TABLE 1

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

DIMENSION:  $\frac{\text{mm}}{\text{inch}}$   
STANDARD TOLERANCE :  
X (1 PLACE) :  $\pm 0.3$  XX(2 PLACE) :  $\pm 0.13$   
 $\pm 0.012$   $\pm 0.005$



Figure 2 – Surface Mount Gull Wing Terminal



**SURFACE MOUNT PAD LAYOUT**

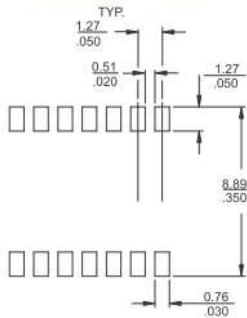


TABLE 2

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

DIMENSION:  $\frac{\text{mm}}{\text{inch}}$   
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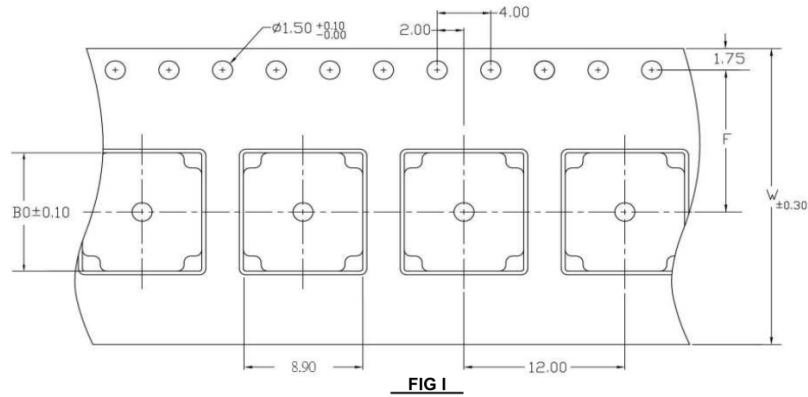
**Packing: Tape and Reel**

Unit: mm

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



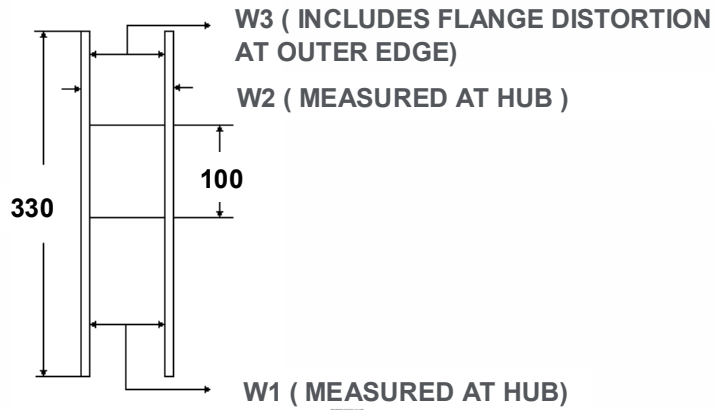
Series 218  
Half Pitch, SMD DIP Switch



**SPECIFIED REEL PARTS DIMENSIONS:**

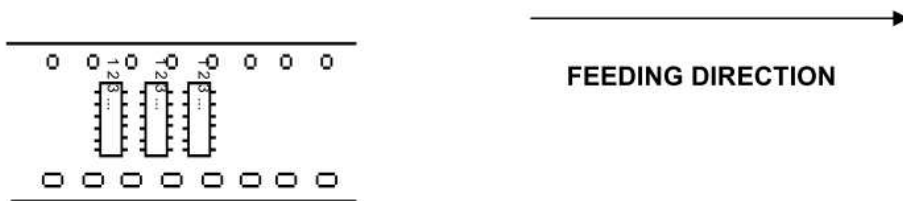
Unit: mm

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.

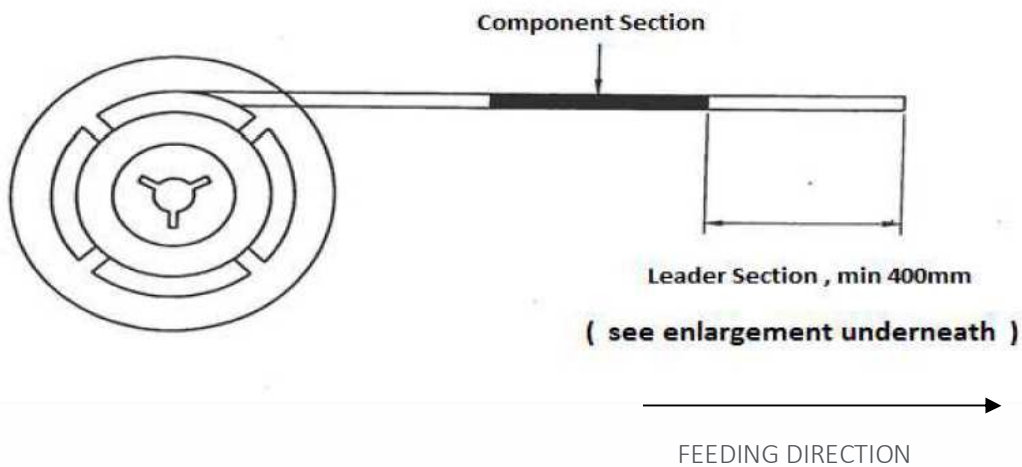




1. TAPE SPROCKET HOLE PITCH :  $4.0 \pm 0.1\text{MM}$   
ALL SMT ASSEMBLING MACHINES WILL PICK-UP THE COMPONENT FROM THE POINT, WHICH IS LOCATED IN THE CENTRE OF TWO ADJACENT SPROCKET HOLES IN FEEDING DIRECTION. THIS MUST BE TAKEK INTO ACCOUNT WHEN DESIGNING THE LOCATION OF THE COMPONENT IN T&R POCKET.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

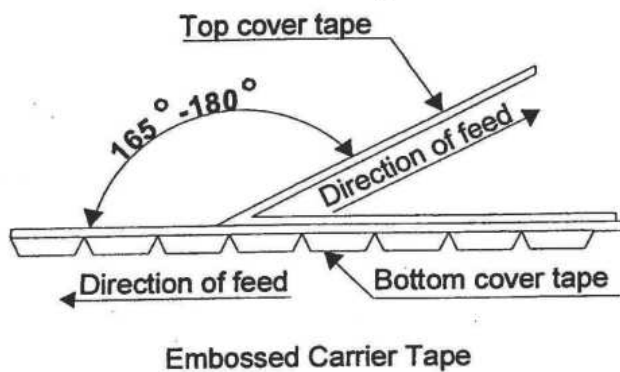


3. LENGTH OF TAPE  
THERE SHALL BE A LEADER OF 400mm MINIMUM WHICH IS SEALED ONTO EMPTY CARRIER TAPE, SEE PICTURE BELOW.





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°



THE COVER TAPE MAY NOT EXTEND OVER THE EDGE OF THE CARRIER TAPE OR COVER ANY PART OF THE SPROCKET HOLES.

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