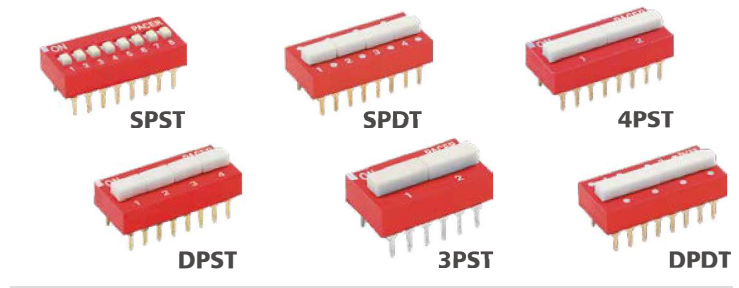


# DSG/DSS Series

SLIDE TYPE



## FEATURES

- Tactile response is performed directly by larger contact pressure to ensure very stable contact
- All plastics are UL 94V-0 grade fire retardant
- Bottom epoxy sealed standard to ensure free of flux immersion during wave soldering
- Contact wiping on make and break
- Gold, Silver or Tin plated contacts to ensure low contact resistance and long mechanical life
- Ideal for data processing, communications, remote controls and burglar alarm system use, where manual programming is required
- RoHS Compliant

## APPLICATIONS

- Numerical setting for computer terminal equipment
- Price setting for vending machines
- Programming for game machines
- Programming for industrial equipment and measuring instruments

## SPECIFICATIONS

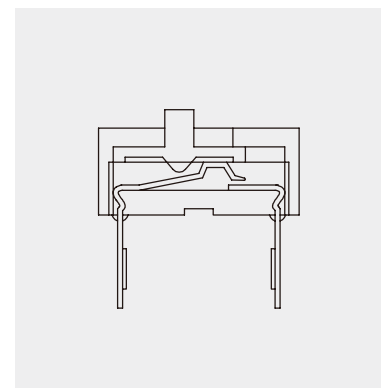
### 1. ELECTRICAL

Contact rating	
switching	25 mA, 24 VDC
non-switching	100 mA
Contact resistance	
initial	50 mΩ Max.
after life test	100 mΩ Max.
	300 mΩ Max.(Tin plated type)
Insulation resistance	1,000 MΩ Min. at 100 VDC
Dielectric strength	500 VDC Min. for 60 seconds
Capacitance between adjacent switches	5 pF Max

### 2. MECHANICAL and ENVIRONMENTAL

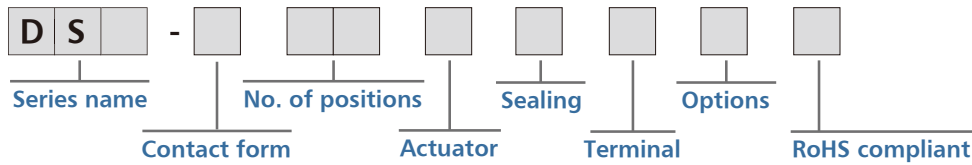
Temperature rating	
operating	-40°C to + 85°C
storage	-40°C to + 85°C
Operation force	800g Max. (SPST only)
Mechanical life	2,000 operations
Humidity	95% RH, 40°C for 96 Hrs.
Vibration	10Hz-55Hz-10Hz for 6 Hrs.
Solderability	After flux 245±5 °C for 5±1 second
Resistance to soldering heat	
Solder bath	260±5°C for 5±1 second

## CONSTRUCTION



# SWITCH DIP SWITCH

## PART NUMBERING SYSTEM



Series name	
<b>D S G</b>	Gold plated contacts
<b>D S S</b>	Silver or Tin Plated Contacts

Contact form	
<b>1</b>	SPST
<b>2</b>	DPST
<b>3</b>	SPDT
<b>4</b>	3PST
<b>5</b>	4PST
<b>6</b>	DPDT

No. of positions	
As dimensions & circuitry	

Actuator	
<b>E</b>	Extended actuator
<b>L</b>	Low profile actuator

Sealing	
<b> </b>	Without top tape sealed
<b>T</b>	With top tape sealed

Terminal	
<b> </b>	Standard type
<b>R</b>	Right angle type (For 1:SPST, 2:DPST, 4:3PST, 5:4PST only)

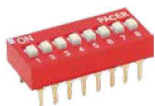
Options	
<b>33</b>	Tin plated terminal (For DSG series only)

RoHS compliant	
<b> </b>	Standard RoHS compliant (For DSG series only)
<b>F</b>	RoHS compliant (For DSS series only)

## DIMENSIONS & CIRCUITRY

DS□-1□□E□

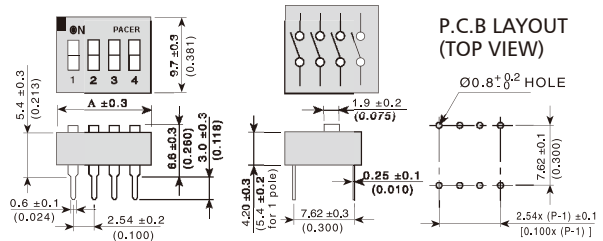
SPST



### DIMENSION A

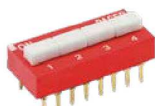
POSITIONS	1	2	3	4	5	6
A	3.9* (0.154)	6.7 (0.264)	9.2 (0.362)	11.7 (0.461)	14.2 (0.559)	16.7 (0.657)
POSITIONS	7	8	9	10	12	15
A	19.2 (0.756)	21.7 (0.854)	24.2 (0.953)	26.7 (1.051)	31.8 (1.252)	39.5 (1.555)

\*The dimensions of the 1 pole switch may vary slightly.



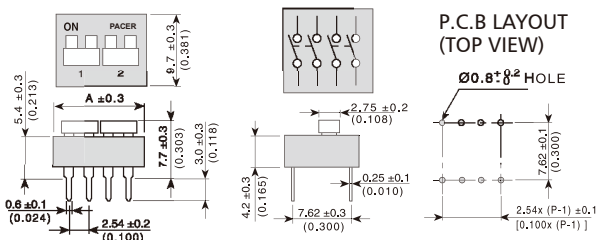
DS□-2□□E□

DPST



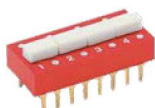
### DIMENSION A

POSITIONS	1	2	3	4	5	6
A	6.7 (0.264)	11.7 (0.461)	16.7 (0.657)	21.7 (0.854)	26.7 (1.051)	31.8 (1.252)



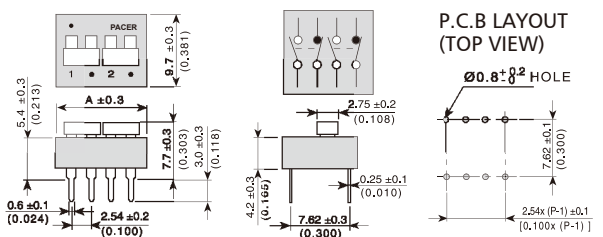
DS□-3□□E□

SPDT



### DIMENSION A

POSITIONS	1	2	3	4	5	6
A	6.7 (0.264)	11.7 (0.461)	16.7 (0.657)	21.7 (0.854)	26.7 (1.051)	31.8 (1.252)



## DIMENSIONS & CIRCUITRY

Unit mm (inch)

DS□-4□□E□		3PST												
	<b>DIMENSION A</b> <table border="1"> <thead> <tr> <th>POSITIONS</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>9.2 (0.362)</td> <td>16.7 (0.657)</td> <td>24.2 (0.953)</td> <td>31.8 (1.252)</td> <td>39.5 (1.555)</td> </tr> </tbody> </table>	POSITIONS	1	2	3	4	5	A	9.2 (0.362)	16.7 (0.657)	24.2 (0.953)	31.8 (1.252)	39.5 (1.555)	
	POSITIONS	1	2	3	4	5								
A	9.2 (0.362)	16.7 (0.657)	24.2 (0.953)	31.8 (1.252)	39.5 (1.555)									
DS□-5□□E□		4PST												
	<b>DIMENSION A</b> <table border="1"> <thead> <tr> <th>POSITIONS</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>11.7 (0.461)</td> <td>21.7 (0.854)</td> <td>31.8 (1.252)</td> </tr> </tbody> </table>	POSITIONS	1	2	3	A	11.7 (0.461)	21.7 (0.854)	31.8 (1.252)					
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DS□-6□□E□		DPDT												
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	POSITIONS	1	2	3										
A	11.7 (0.461)	21.7 (0.854)	31.8 (1.252)											

## OPTIONS

Unit : mm(inch)

DS□-1□□ER□		Right angle type
	<b>DIMENSIONS A IS SAME AS PREVIOUS PAGE</b> <ul style="list-style-type: none"> <li>Right angle SPST for 1-12 positions only.</li> </ul>	
<ul style="list-style-type: none"> <li>Special top or side marking available.</li> <li>Low profile actuator.</li> </ul>		<ul style="list-style-type: none"> <li>Low profile actuator with top tape sealed.</li> </ul>
	<p>*The "T" of the 1 position switch is <math>3^{+0.4}_{-0.2}</math> mm.</p>	<p><b>WARNING :</b> Please keep contacts in OFF position during wave soldering.</p>