

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material. See [Contact Plating & Ratings](#).

MECHANICAL LIFE: 30,000 make-and-break cycles.

CONTACT RESISTANCE: 10 mΩ max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 MΩ min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @sea level.

OPERATING TEMPERATURE: -40°C to 85°C.

MATERIALS

CASE: Diallyl phthalate (DAP) (UL94v-0).

HOUSING: Stainless Steel.

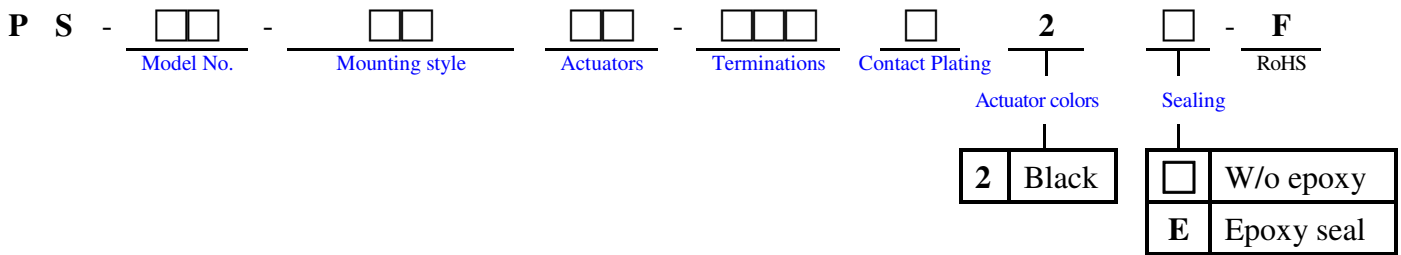
ACTUATOR: Nylon, black std.

CONTACT/TERMINALS: Copper alloy, with silver or gold plated. See [Contact Plating & Ratings](#).

TERMINAL SEAL: Epoxy.

models available, consult sales representatives.

PART NUMBERING SYSTEM

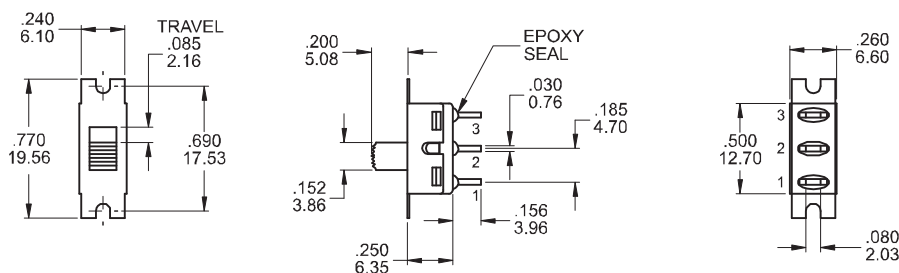


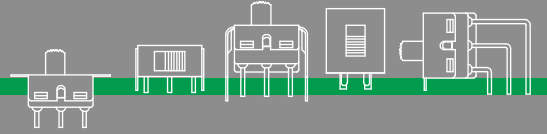
Model No./ Switching function ()= Momentary Unit: Inch/ mm

SPDT				SPDT			
Model No.	Switching function			Model No.	Switching function		
S1	On	None	On	S2	On	Off	On
S3	On	None	(On)				
Connected terminals	2-1	N/A	2-3	Connected terminals	2-1	Open	2-3
Schematic	2 Comm. 		2 Comm. 	Schematic	2 Comm. 		2 Comm.

Part No. Shown: PS-S -Y1S1-M1 2E-F

SPDT





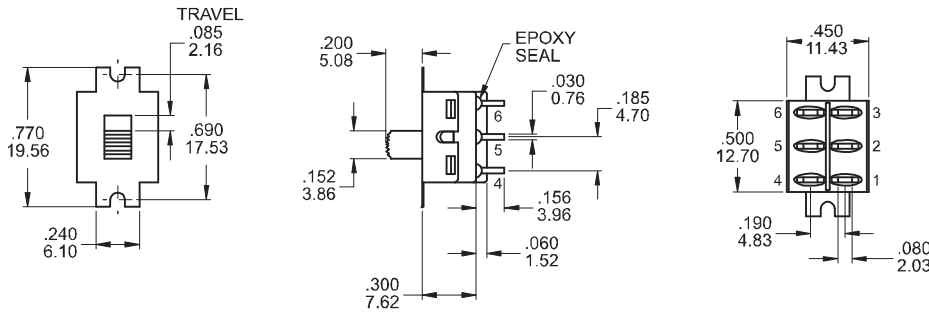
Model No./ Switching function ()= Momentary

Unit: Inch/ mm

DPDT			DPDT		
Model No.	Switching function		Model No.	Switching function	
D1	On	None	D2	On	Off
Connected terminals	2-1,5-4	N/A	Connected terminals	2-1,5-4	Open
Schematic			Schematic		

Part No. Shown: PS-D□-Y1S1-M1□2E-F

DPDT

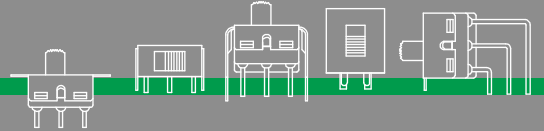


Mounting style

Unit: Inch/ mm

With mounting ears (Panel mounting)

Y1		
	Actuator S1, S2, S3, S4, S5, S6	Actuator S7
SPDT	Model S1, S3	Model S2 Three positions only
DPDT	Model D1	Model D2 Three positions only
		Model D1



Mounting style

Unit: Inch/ mm

Without mounting ears(PC mounting)

Y2		
SPDT	Actuator S1, S2, S3, S4, S5, S6	Actuator S7
	Model S1, S3	Model S2 Three positions only
DPDT	Model D1	Model D2 Three positions only
		Function D1

Actuators

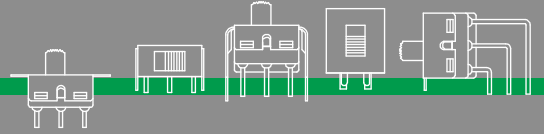
Unit: Inch/ mm

S1	S2	S3	S4
<p>STD</p>			
		<p>Only DPDT</p>	<p>Actuators S6 only for S1, S3, D1, D2 model type.</p> <p>Subtract .014(0.36) from Actuator height for M6, M7, V2 P.C. mounting option.</p>

Terminations & Sealing

Unit: Inch/ mm

M1□□ Solder, W/o epoxy seal	M1□□-E Solder, With epoxy seal	M2□□ PCB through hole, W/o epoxy seal	M2□□-E PCB through hole, with epoxy seal										
<p>.030(0.76) THK.</p>	<p>.030(0.76) THK.</p>	<p>.030(0.76) THK.</p>	<p>.030(0.76) THK.</p>										
M3 Quick connect	M5□ Wire wrap												
<p>.030(0.76) THK.</p>	<p>.030(0.76) THK.</p>	<table border="1"> <thead> <tr> <th>Option code</th> <th>Dim. 'A'</th> </tr> </thead> <tbody> <tr> <td>M51</td> <td>.736(18.70)</td> </tr> <tr> <td>M52</td> <td>.953(24.20)</td> </tr> <tr> <td>M53</td> <td>.415(10.55)</td> </tr> <tr> <td>M54</td> <td>1.062(26.97)</td> </tr> </tbody> </table>	Option code	Dim. 'A'	M51	.736(18.70)	M52	.953(24.20)	M53	.415(10.55)	M54	1.062(26.97)	
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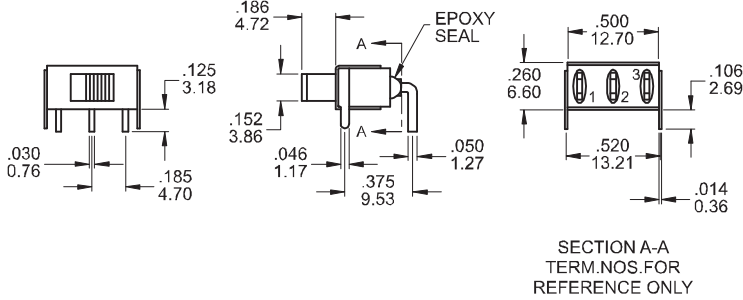
Terminations & Sealing

Unit: Inch/ mm

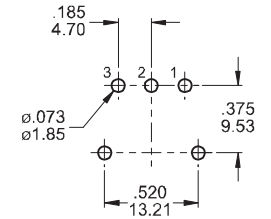
M6 Right angle P.C. Mount

Part No. Shown: PS-S□-Y2-S1-M6□2E-F

SPDT

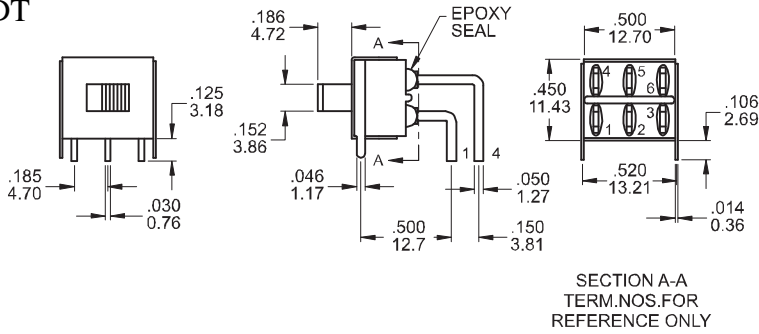


P. C. B. Layout

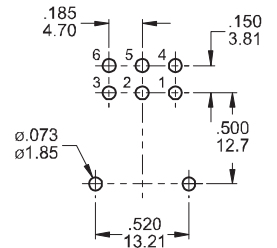


Part No. Shown: PS-D□-Y2-S1-M6□2E-F

DPDT



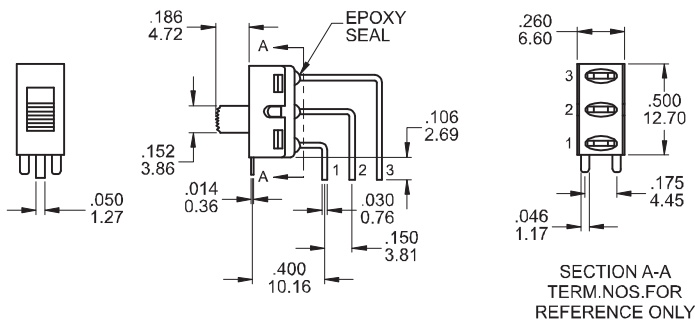
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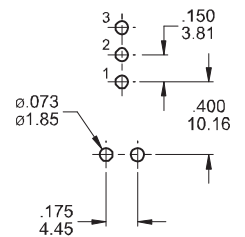
M7 Vertical right angle P.C. Mount

Part No. Shown: PS-S□-Y2-S1-M7□2E-F

SPDT

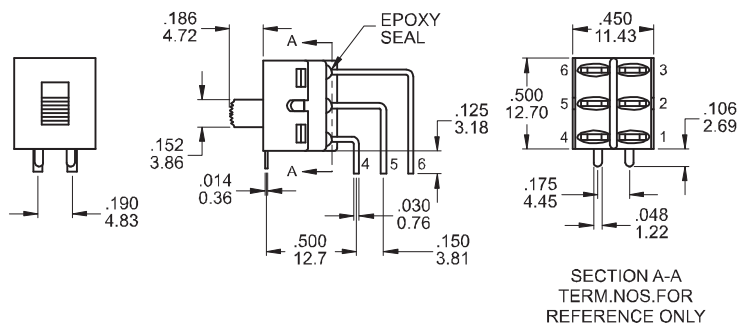


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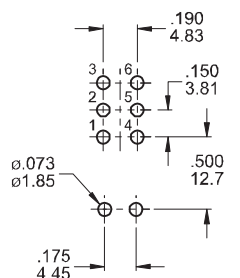


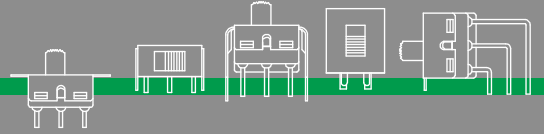
Part No. Shown: PS-D□-Y2-S1-M7□2E-F

DPDT



P. C. B. Layout





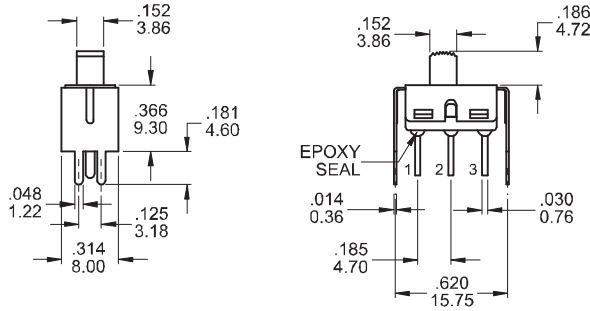
Terminations & Sealing

Unit: Inch/ mm

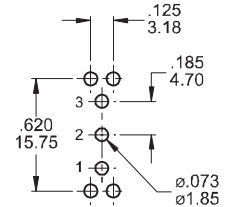
V2 Vertical bracket P.C. Mount

Part No. Shown: PS-S□-Y2-S1-V2□2E-F

SPDT

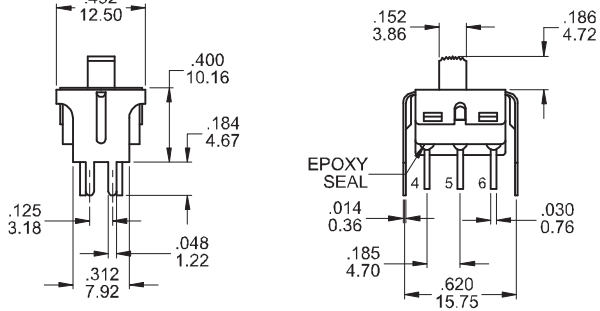


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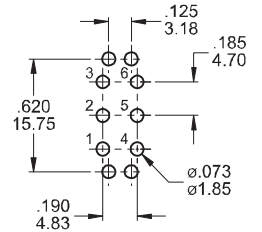


Part No. Shown: PS-D□-Y2-S1-V2□2E-F

DPDT



P. C. B. Layout



Contact Plating & Ratings

Option code	Contact plating	Terminal plating	Ratings
G	Gold	Gold	0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)
S	Silver	Silver	5 Amps with resistant load @ 120VAC or 28VDC
A	Gold over silver	Gold over silver	2 Amps with resistant load @ 250VAC

SOLDERING PROCESSES

Manual soldering: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

Wave soldering: Recommended soldering temperature: 270 ± 5°C.

Duration of solder immersion: Max 5 sec. (PCB is 1.6mm in thickness).