

# 6M Series

Miniature Slide Switches for P.C. Board

## SPECIFICATIONS

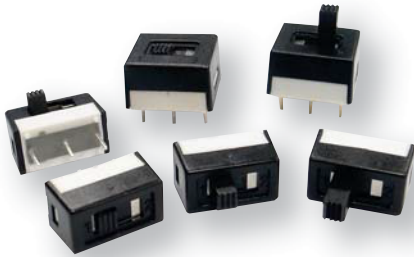
**CONTACT RESISTANCE:** 50mΩmax. initial .

**MECHANICAL LIFE:** 20,000 cycles.

**INSULATION RESISTANCE:** 1,000 MΩ min.

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

**OPERATING TEMPERATURE:** -40°C to 80°C.



## MATERIALS

**CASE:** PBT,white.

**ACTUATOR:** PBT,black .

**HOUSING:** POM,black .

**CONTACT/TERMINALS:** Copper alloy,with silver or gold plated .  
(See Page 95)



**6M**  
Slide Switches

## HOW TO ORDER

MODEL NO.	ACTUATOR	ACTUATOR COLOR	TERMINATIONS	TERMINAL PLATING	SEAL	RoHS SOLDERING
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div> <p>Model NO.  <b>6MS1</b> SP On-None-On  <b>6MS3</b> SP On-Off-On  <b>6MD1</b> DP On-None-On  <b>6MD3</b> DP On-Off-On</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div> <p>Actuator  <b>S1</b> Flush  <b>S2</b> 2.80 high  <b>S3</b> Slide  <b>S4</b> 6.00 high  <b>S5</b> Slide (DPDT only)</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div> <p>Actuator color  <b>02</b> black(std)</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> </div> <p>Terminations  <b>M1</b> SPDT - PC thru-hole  <b>M2</b> DPDT - PC thru-hole  <b>M3</b> SPDT - PC thru-hole  <b>M4</b> DTD - PC thru-hole</p>	<div style="border: 1px solid black; width: 15px; height: 15px;"></div> <p>Terminal plating  <b>Q</b> Silver  <b>R</b> Gold  <b>C</b> Gold over silver</p>	<div style="border: 1px solid black; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center;"> <span style="color: red; font-weight: bold;">E</span> </div> <p>Seal  <b>E</b> EPOXY (std)</p>	<div style="border: 1px solid black; width: 15px; height: 15px;"></div> <p>Rohs soldering  <b>S</b> RoHS &amp; Lead Free</p>

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## SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	6MS1	ON	NONE	ON	2-1 	OPEN	2-3 
	6MS3	ON	OFF	ON			
DP	6MD1	ON	NONE	ON	2-1,5-4 	OPEN	2-3,5-6 
	6MD3	ON	OFF	ON			

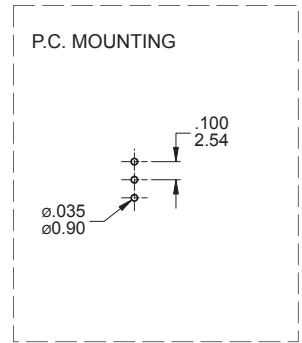
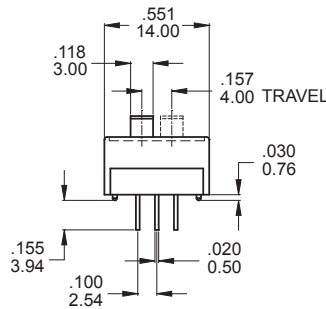
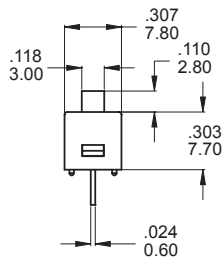
## POLE OPTIONS

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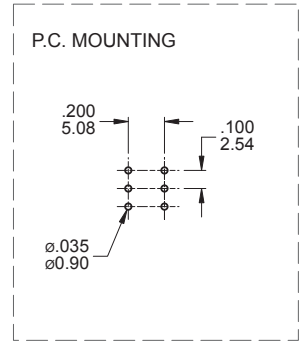
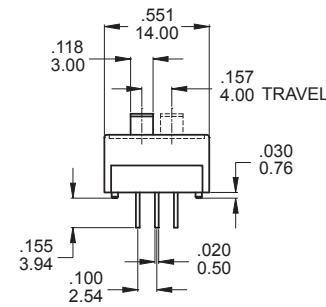
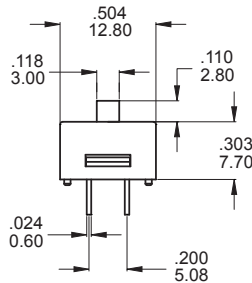
**SPDT**

Part No. Shown : 6MS1S202M1QES



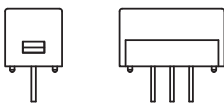
**DPDT**

Part No. Shown : 6MD1S202M2QES

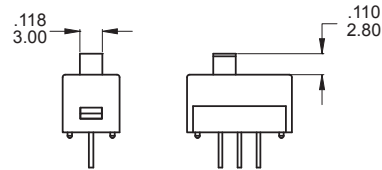


## ACTUATOR OPTIONS

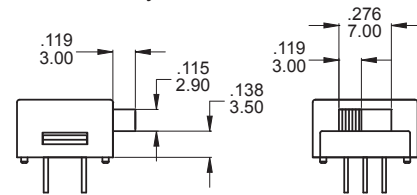
**S1**



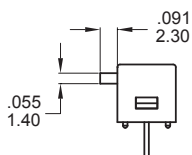
**S2**



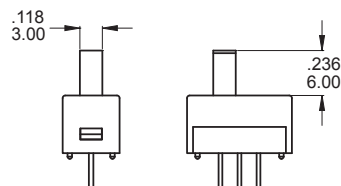
**S5 DPDT only**



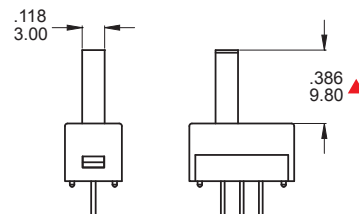
**S3**



**S4**

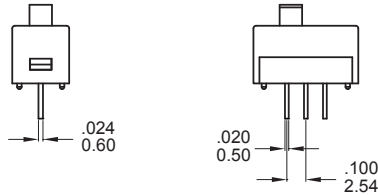


**S6**



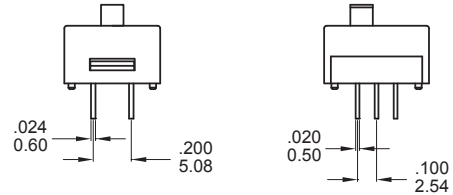
## TERMINAL OPTIONS

M1



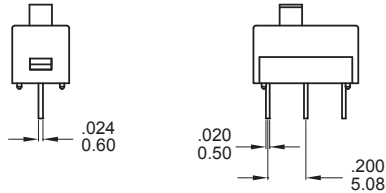
SPDT

M2



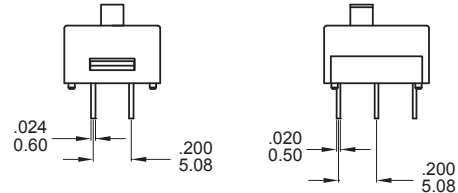
DPDT

M3



SPDT

M4



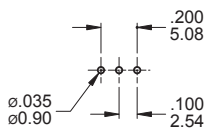
DPDT



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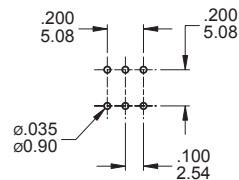
## P.C.B MOUNTING

M1



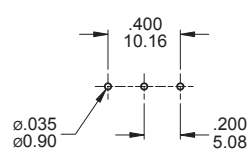
SPDT

M2



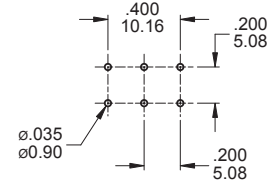
DPDT

M3



SPDT

M4



DPDT

## CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
C	Gold over Silver	C = Gold over silver	
R	Gold	R = Gold	0.4 Volt - Amps ( VA ) max. @ 20V max. ( AC or DC )

## SOLDERING PROCESSES

WAVE SOLDERING: Recommended Soldering Temperature:  $260 \pm 5^{\circ}\text{C}$

Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)