

# 5F Series

Sub-Miniature Slide Switches

## SPECIFICATIONS

**CONTACT RATING:** Dependent upon contact material See Page 89.

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

**CONTACT RESISTANCE:** 20 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.(std)  
-30°C to 85°C.(SMT)

## MATERIALS

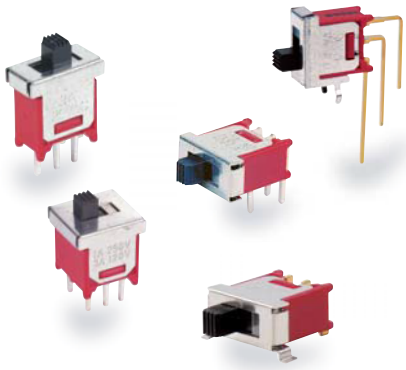
**CASE:** Diallyl phthalate (DAP) (UL94v-0).

**HOUSING:** Stainless steel or phosphor bronze,tin plated.

**ACTUATOR:** Nylon,black std.

**CONTACT:** Brass or copper alloy,with silver or gold plated.

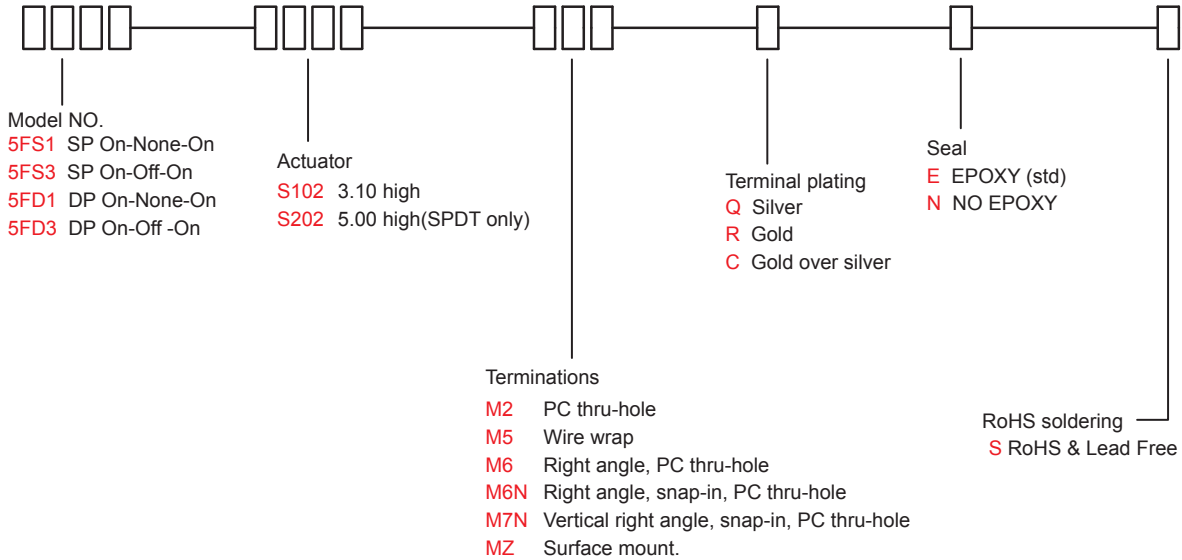
**TERMINALS:** Copper alloy,with silver and gold plated.  
(See Page 89)



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Slide Switches

## HOW TO ORDER

MODEL NO.      ACTUATOR      TERMINATIONS      TERMINAL PLATING      SEAL      RoHS SOLDERING



## SWITCH FUNCTION

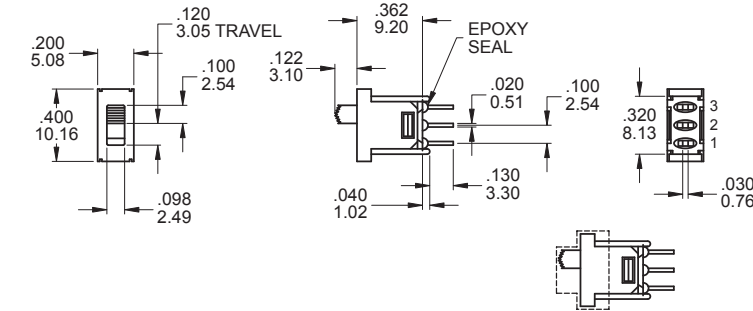
NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	Q2511	5FS1	ON	NONE	ON	2-1	N/A	2-3
	Q2513	5FS3	ON	OFF	ON	2-1, 2 (COMM) 1-3	OPEN	2 (COMM) 1-3
DP	Q2521	5FD1	ON	NONE	ON	2-1, 5-4	N/A	2-3, 5-6
	Q2523	5FD3	ON	OFF	ON	2 (COMM) 1-3, 4-5	OPEN	2 (COMM) 1-3, 4-5

MOM=MOMENTARY

## POLE OPTIONS



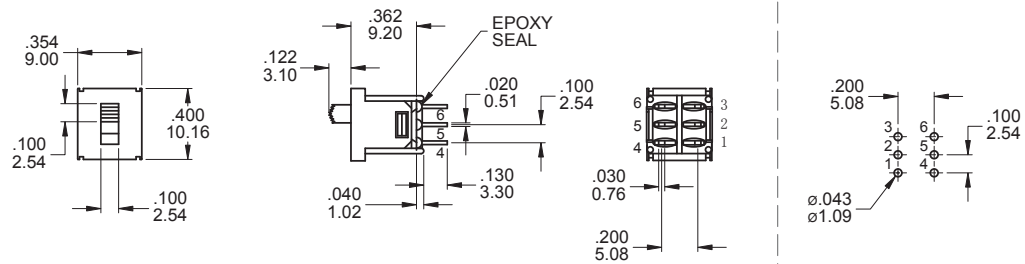
SPDT



Part No. Shown : 5FS1S102M2QES



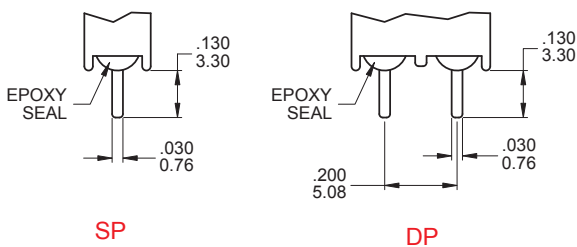
DPDT



Part No. Shown : 5FD1S102M2QES

## TERMINATION OPTIONS

### M2 PC Thru-hole



### OTHER TERMINATION OPTIONS

- M6 Right angle P.C. Mount
- M6N Snap-in, Right angle P.C. Mount



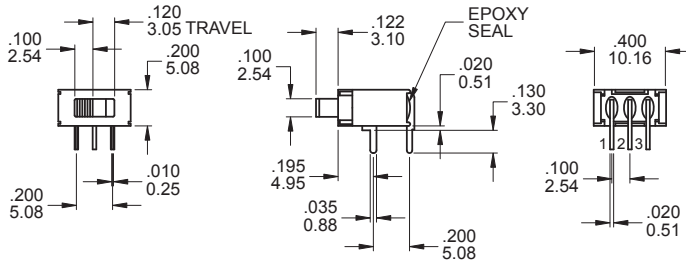
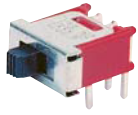
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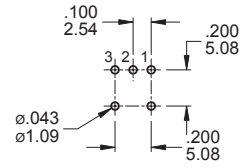


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Slide Switches

## M6

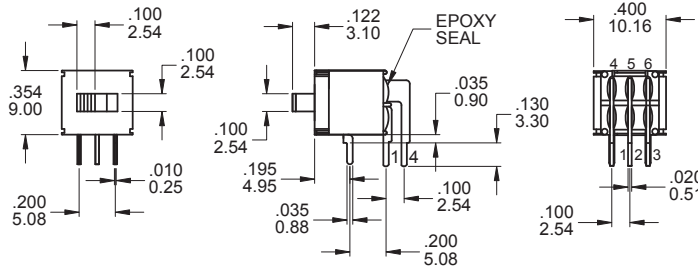
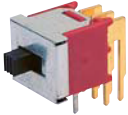


### P.C. MOUNTING

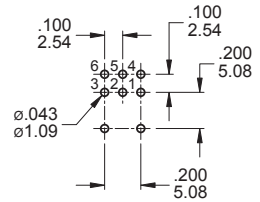


Part No. Shown : 5FS1S102M6QES

## M6



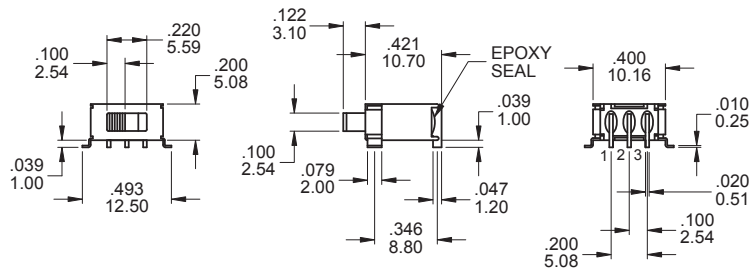
### P.C. MOUNTING



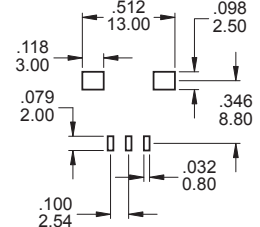
Part No. Shown : 5FD1S102M6RES

## DPDT

## MZ



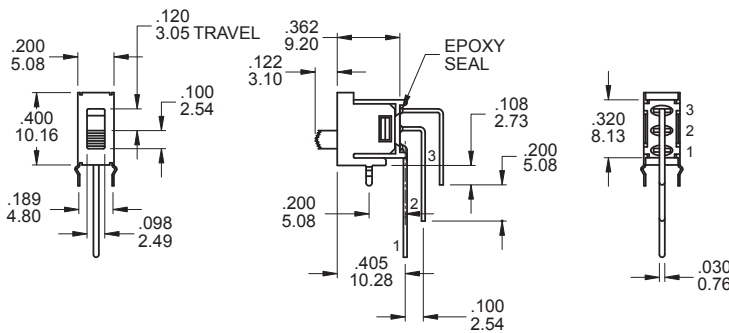
### P.C. MOUNTING



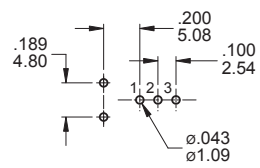
Part No. Shown : 5FS1S102MZRES

## SPDT

## M7N



### P.C. MOUNTING

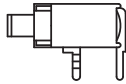


Part No. Shown : 5FS1S102M7NRES

## SPDT Only

## SNAP-IN TERMINATION OPTIONS

M6N



## CONTACT MATERIAL OPTIONS

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

## 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)

