

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 92.

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: -30°C to 85°C.

MATERIALS

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

HOUSING: Brass, tin plated.

ACTUATOR: Nylon, black std.

CONTACT: Brass, with silver or gold plated.

TERMINAL SEAL: Copper alloy, with silver and gold plated .
(See Page 92)



HOW TO ORDER

MODEL NO.	ACTUATOR	TERMINATIONS	CONTACT MATERIAL	SEAL	RoHS SOLDERING
<div style="display: flex; justify-content: space-around;"> <div style="width: 15%;"> <p>Model NO.</p> <p>5FS1 SP On-None-On</p> <p>5FS3 SP On-Off-On</p> <p>5FD1 DP On-None-On</p> <p>5FD3 DP On-Off -On</p> </div> <div style="width: 15%;"> <p>Actuator</p> <p>S102 3.10 high</p> <p>S202 5.00 high</p> </div> <div style="width: 15%;"> <p>Terminations</p> <p>M2 PC thru-hole</p> <p>M5 Wire wrap</p> <p>M6 Right angle, PC thru-hole</p> <p>M6N Right angle, snap-in, PC thru-hole</p> <p>M7N Vertical right angle, snap-in, PC thru-hole</p> <p>MT (STD) Right angle, surface mount.</p> </div> <div style="width: 15%;"> <p>Contact material</p> <p>Q Silver</p> <p>R Gold</p> <p>G Gold, pure-tin</p> <p>S Silver, pure-tin</p> <p>C Gold over silver</p> <p>K Gold over silver, pure-tin</p> </div> <div style="width: 15%;"> <p>Seal</p> <p>E EPOXY (std)</p> <p>N NO EPOXY</p> </div> <div style="width: 15%;"> <p>RoHS soldering</p> <p>□ RoHS Compliant</p> <p>S RoHS & Lead Free</p> <p>F Halogen Free+RoHS</p> </div> </div>					

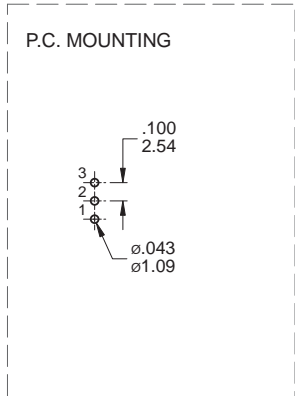
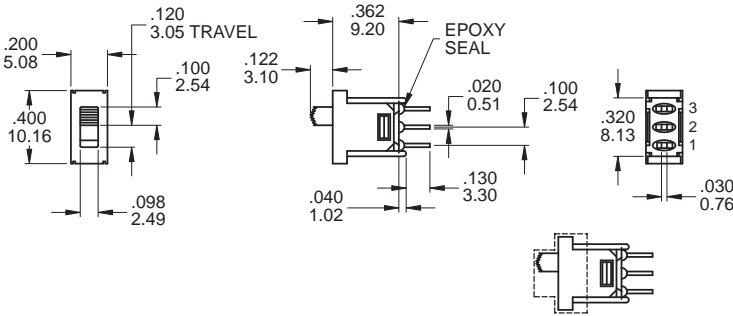


SWITCH FUNCTION

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	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	1-2 (COMM) 1-3 4-5 4-6	OPEN	2 (COMM) 1-3 4-5 4-6

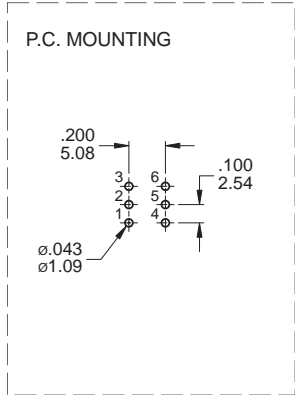
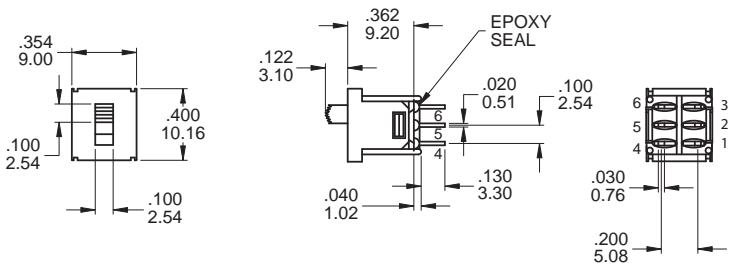
MOM=MENTORY

POLE OPTIONS



SPDT

Part No. Shown : 5FS1S102M2QE

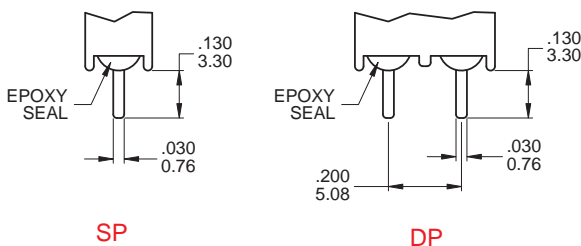


DPDT

Part No. Shown : 5FD1S102M2QE

TERMINATION OPTIONS

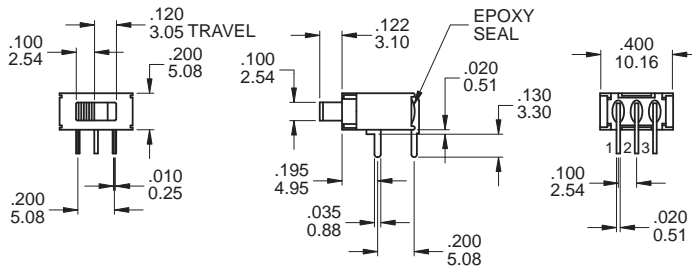
M2 PC Thru-hole



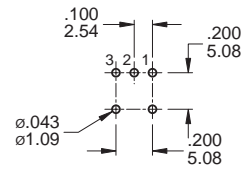
OTHER TERMINATION OPTIONS

- M6 RIGHT ANGLE P.C. MOUNT
- M6N SNAP-IN RIGHT ANGLE P.C. MOUNT

M6



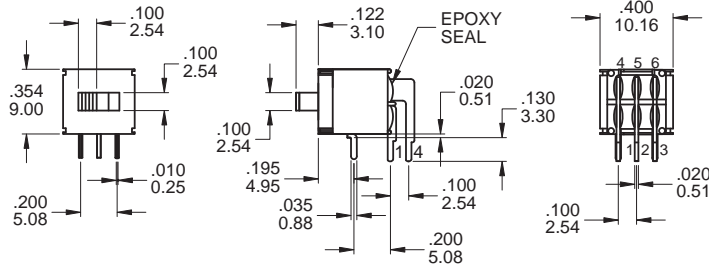
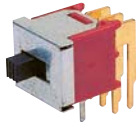
P.C. MOUNTING



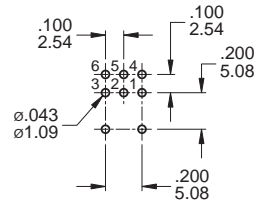
SPDT

Part No. Shown : 5FS1S102M6QE

M6



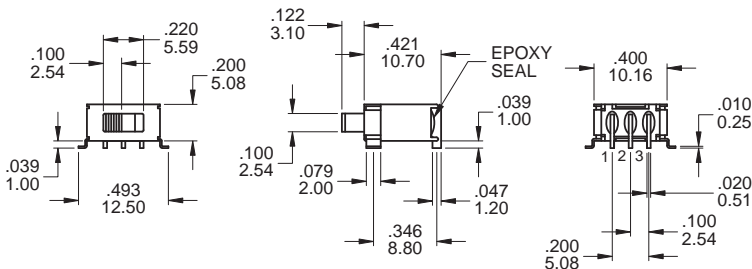
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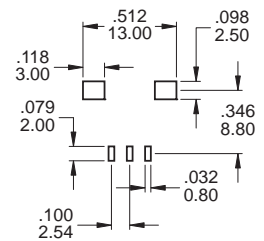
DPDT

Part No. Shown : 5FD1S102M6RE

MZ



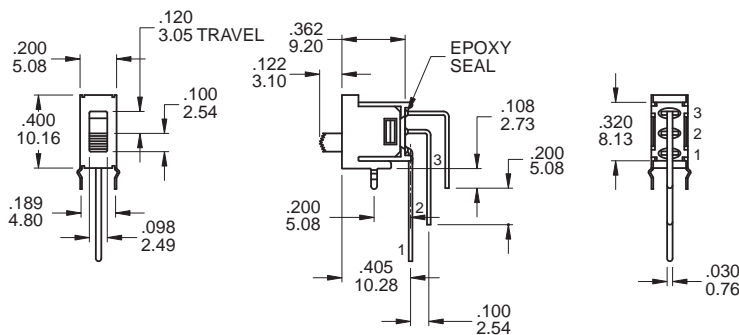
P.C. MOUNTING



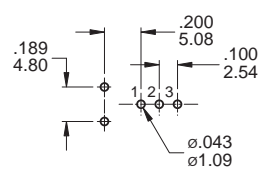
SPDT

Part No. Shown : 5FS1S102MZRE

M7N (SP only)



P.C. MOUNTING

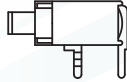


SPDT

Part No. Shown : 5FS1S102M7NRE

SNAP-IN TERMINATION OPTIONS

M6N



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
S		S = Silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G		G = Gold,pure - tin	

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: 260 ± 5°C

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