

MS5F Series

Sub-Miniature Slide Switches



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.

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

CONTACT RESISTANCE: 20mΩ max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000MΩ min.

DIELECTRIC STRENGTH: 1,000 V RMS@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE - Diallyl phthalate (DAP)(UL94V-0)

HOUSING - Brass,tin plated

ACTUATOR - Nylon, black.

CONTACT - Silver or gold plated.

TERMINALS - Copper alloy, with silver and gold plated.

HOW TO ORDER

MODEL NO.	ACTUATOR	TERMINATIONS	CONTACT MATERIAL	SEAL	ROHS SOLDERING
MODEL NO. MS5FS1 SP On-None-On MS5FS2 SP On-None-Mom. MS5FS3 SP On- Off -On MS5FD1 DP On-None-On MS5FD3 DP On- Off -On	ACTUATOR S1 3.10 high	TERMINATIONS M2 PC thru-hole M5 Wire wrap M6 Right angle, PC thru-hole M6N Right angle,snap-in,PC thru-hole M7 Vertical right angle, PC thru-hole MT (STD) Right angle,surface mount	CONTACT MATERIAL Q Silver R Gold G Gold,tin-lead S Silver,tin-lead C Gold over silver K Gold over silver,tin-lead	SEAL E EPOXY (std) N NO EPOXY	ROHS SOLDERING ☐ Rohs Compliant S Rohs & Lead Free

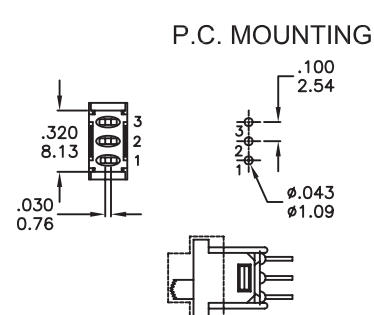
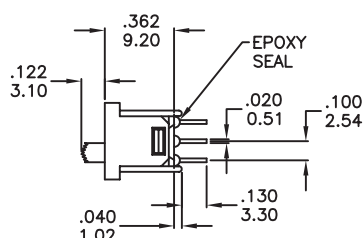
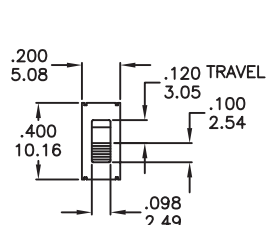
MS5F Series Sub-Miniature Slide Switches

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		OPEN	
	Q2512	5FS2	ON	NONE	MOM			
	Q2513	5FS3	ON	OFF	ON			
DP	Q2521	5FD1	ON	NONE	ON		OPEN	
	Q2523	5FD3	ON	OFF	ON			

MOM=MOMENTARY

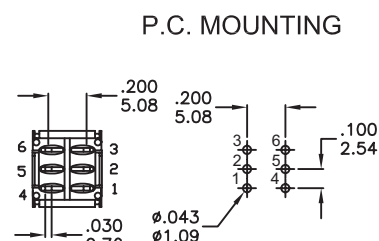
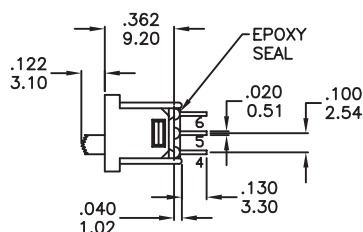
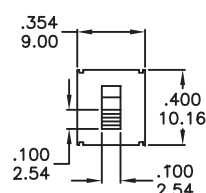
POLE OPTIONS



SPDT

Part No. Shown : 5FS1S102M2QE

Waterproof transparent cover

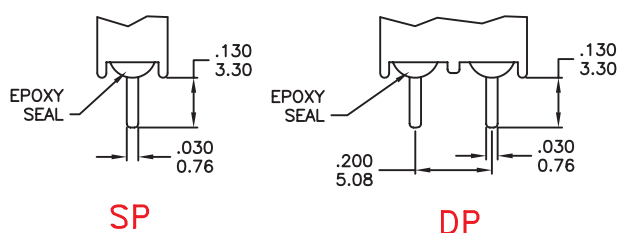


DPDT

Part No. Shown : 5FD1S102M2QE

TERMINATION OPTIONS

M2 PC THRU-HOLE

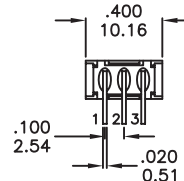
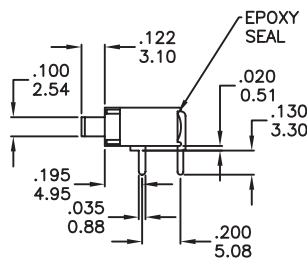
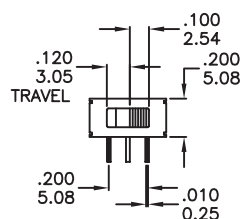


OTHER TERMINATION OPTIONS

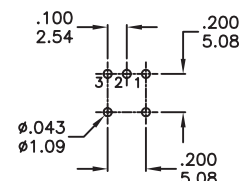
- M6 RIGHT ANGLE P.C. MOUNT
- M6N SNAP - IN RIGHT ANGLE P.C. MOUNT

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M6



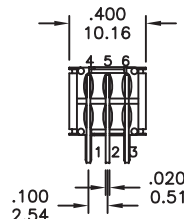
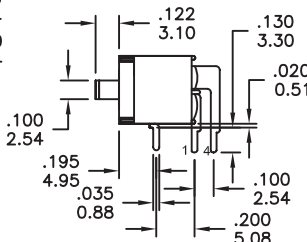
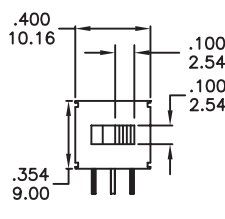
P.C. MOUNTING



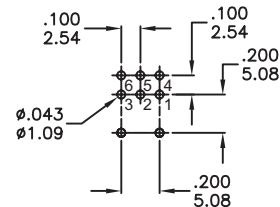
SPDT

Part No. Shown : 5FS1S102M6QE

M6



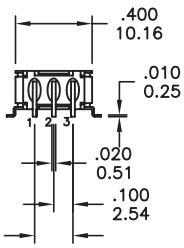
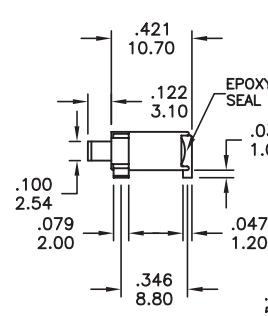
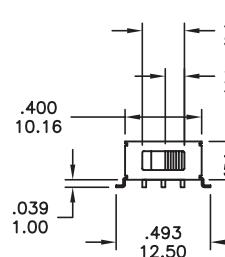
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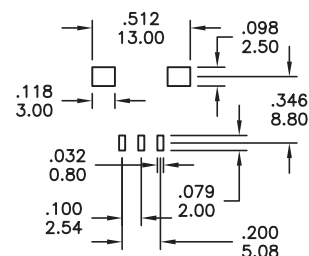
DPDT

Part No. Shown : 5FD1S102M6QE

MZ



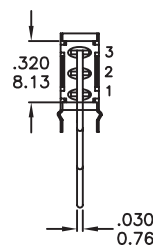
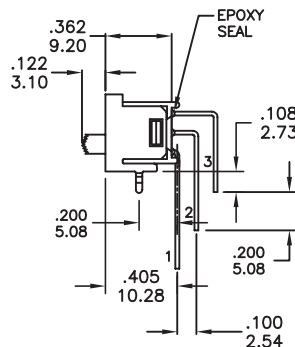
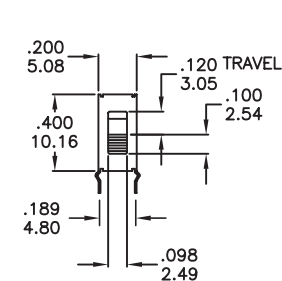
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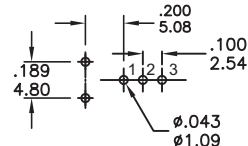
SPDT

Part No. Shown : 5FS1S102MZRES

M7



P.C. MOUNTING

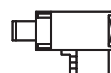


SPDT

Part No. Shown : 5FS1S102M7NRES

SNAP-IN TERMINATION OPTIONS

M6N



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CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINATION RATING	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: 5 ±1 seconds
(PCB is 1.6mm in thickness)

SOLDERING : Vapor phase

Temperature Profile

Zone	Room temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	180°C~200°C	Min 150s
Peak (C)	200°C~235°C	Min 30s
Peak (D)	235°C~260°C	Min 40s
Peak (E)	260°C	Max 10s

