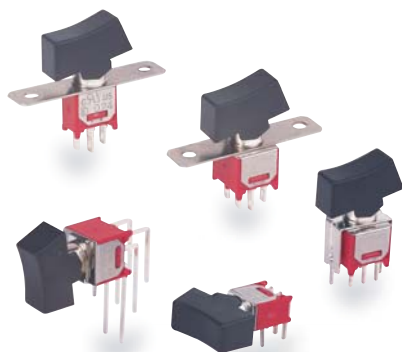




SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 69.

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.

MATERIALS

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

ACTUATOR: Nylon,black std.

BUSHING: Brass or Zinc,nickel plated.

HOUSING: Stainless Steel.

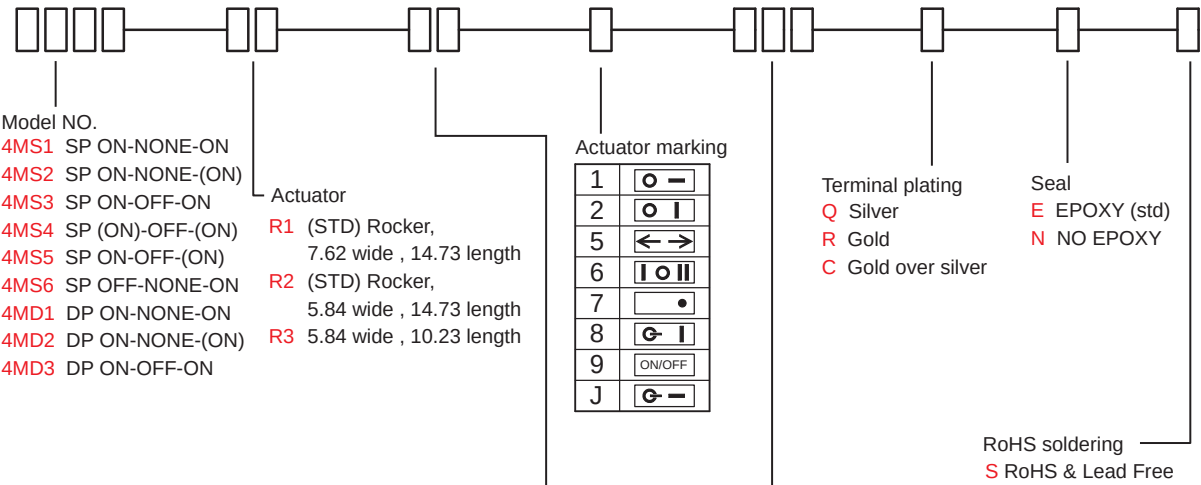
SWITCH SUPPORT: SUS or Brass,tin plated.

TERMINAL/CONTACT: Copper alloy or Brass,with silver or gold plated.(See Page 69)



HOW TO ORDER

MODEL NO. ACTUATOR ACTUATOR COLOR ACTUATOR MARKING TERMINATIONS TERMINAL PLATING SEAL RoHS SOLDERING



ITEM NO	COLOR
01	White
02	Black (Std)
03	Red
04	Orange
05	Yellow
06	Green
07	Blue
08	Brown
09	Gray

* Besides standard color,
other colors need to check
stocks available.

Terminations

- M1 Solder Lug
- 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
- M7N Vertical right angle, snap-in, PC thru-hole
- VS2 8.94 high, V-bracket
- V2N 8.94 high, snap-in V-bracket
- VS3 8.94 high, V-bracket
- V3N 8.94 high, snap-in V-bracket

* 4MS6 model type not applicable to
M6/M6N/M7/M7N terminations



4M
Rocker Switches

4M Series

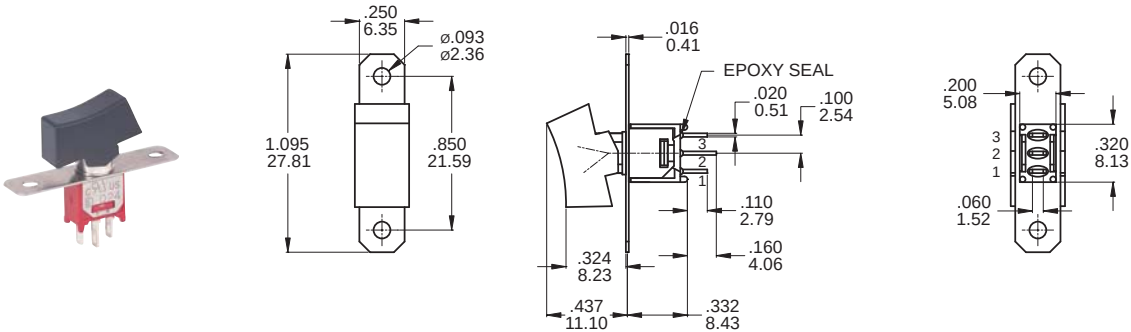
Sub-Miniature Rocker Switches

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	Q2411	4MS1	ON	NONE	ON	2-3 	N/A	2-1 	
	Q2412	4MS2	ON	NONE	(ON)		OPEN		
	Q2413	4MS3	ON	OFF	ON				
	Q2414	4MS4	(ON)	OFF	(ON)	OPEN	N/A	3-1	
	Q2415	4MS5	ON	OFF	(ON)				
	Q2416	4MS6	OFF	NONE	ON				
DP	Q2421	4MD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4 	
	Q2422	4MD2	ON	NONE	(ON)		OPEN		
	Q2423	4MD3	ON	OFF	ON				

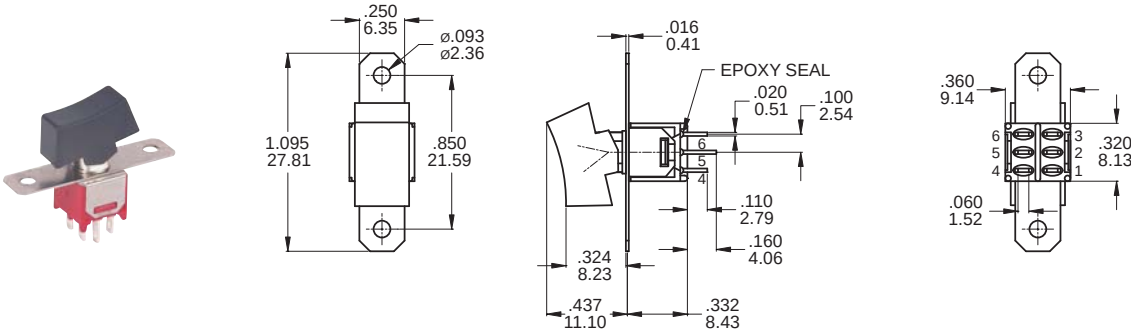
()=MOMENTARY

POLE OPTIONS



SPDT

Part No. Shown : 4MS1R102M1QES

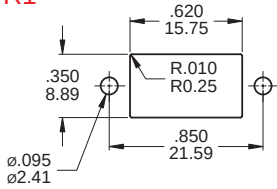


DPDT

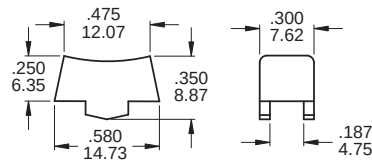
Part No. Shown : 4MD1R102M1QES

ACTUATOR OPTIONS - PANEL MOUNT

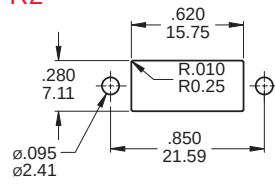
R1



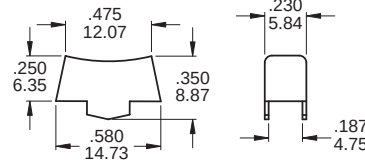
PANEL MOUNTING-R1



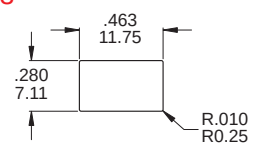
R2



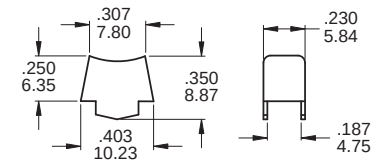
PANEL MOUNTING-R2



R3

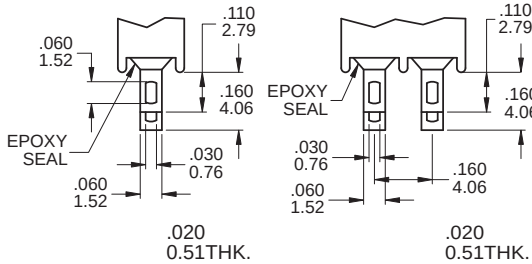


PANEL MOUNTING-R3



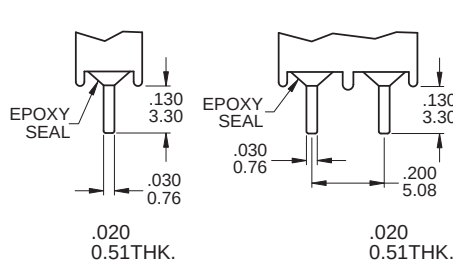
TERMINATION OPTIONS

M1 Solder lug



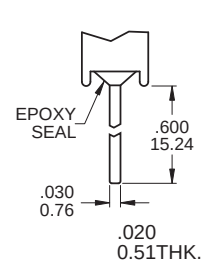
Double Pole

M2 PC Thru-hole

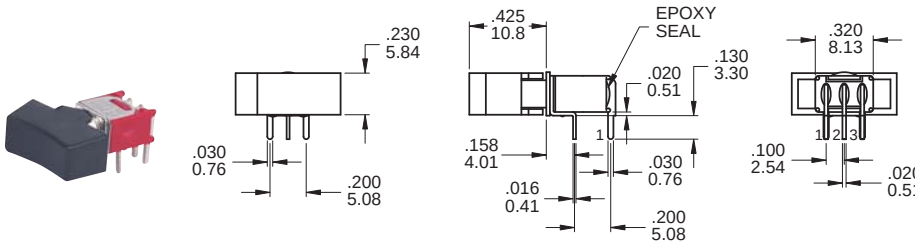


Double Pole

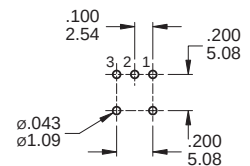
M5 Wire Wrap



M6



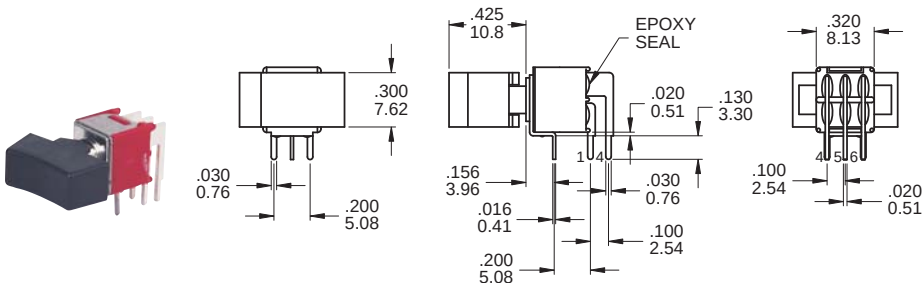
P.C. MOUNTING



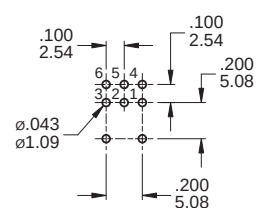
SPDT

Part No. Shown : 4MS1R202M6QES

M6



P.C. MOUNTING



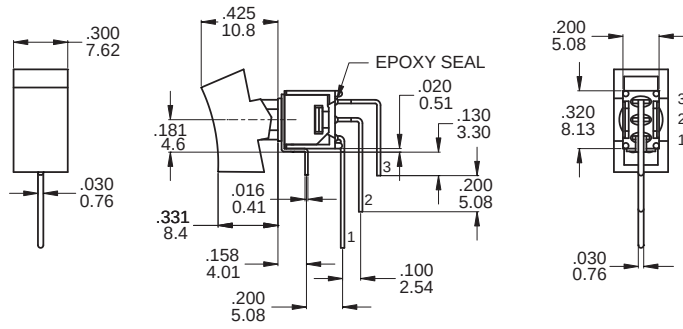
DPDT

Part No. Shown : 4MD1R102M6QES

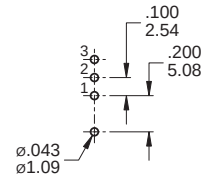
4M Series

Sub-Miniature Rocker Switches

M7



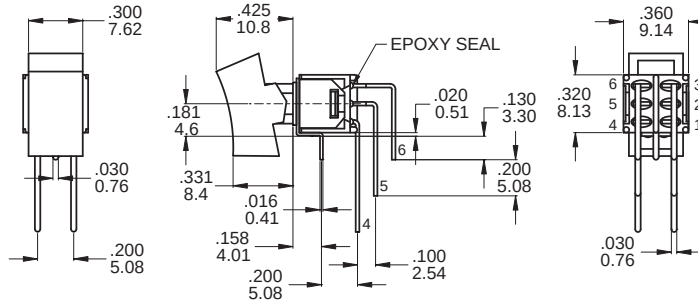
P.C. MOUNTING



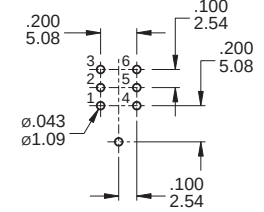
SPDT

Part No. Shown : 4MS1R102M7QES

M7



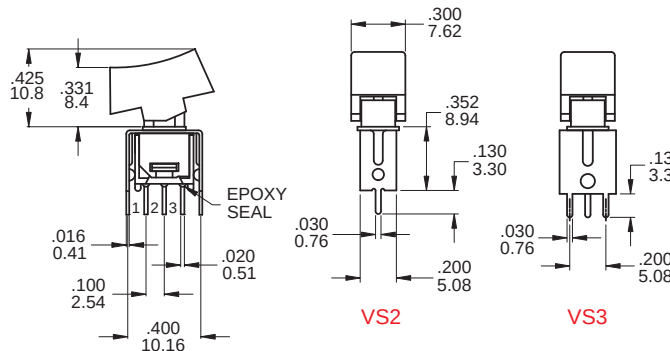
P.C. MOUNTING



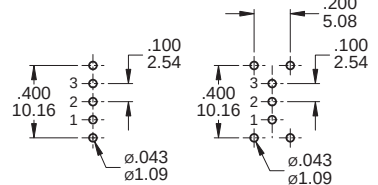
DPDT

Part No. Shown : 4MD1R102M7QES

VS2 - VS3



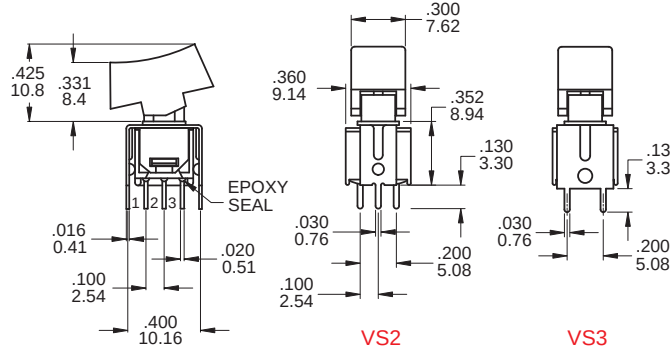
P.C. MOUNTING



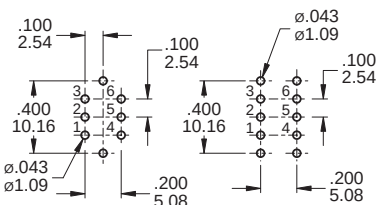
SPDT

Part No. Shown : 4MS1R102VS2QES

VS2 - VS3



P.C. MOUNTING



DPDT

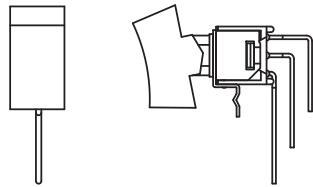
Part No. Shown : 4MD1R102VS2QES

SNAP-IN TERMINATION OPTIONS

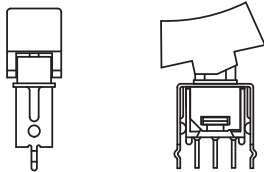
M6N



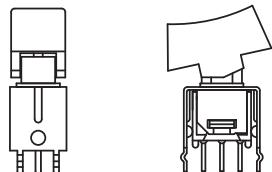
M7N



V2N



V3N



CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
C	Gold over Silver	Gold over silver	
R	Gold	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)

