

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 68.

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).

ACTUATOR: Nylon,black std.

BUSHING: Brass or Zinc,nickel plated.

HOUSING: Stainless Steel.

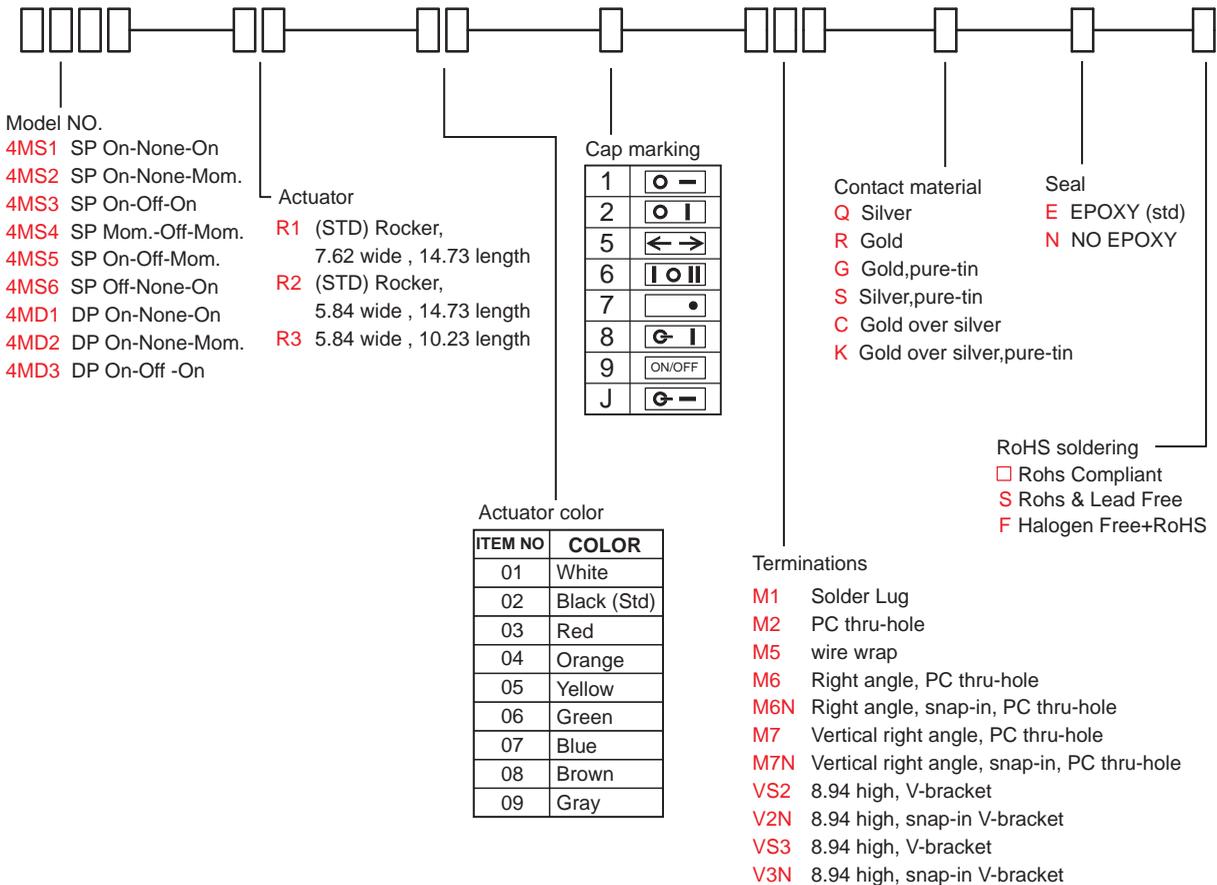
SWITCH SUPPORT: Brass,tin plated.

TERMINAL/CONTACT: Brass,with silver or gold .(See Page 68)



HOW TO ORDER

MODEL NO. ACTUATOR ACTUATOR COLOR CAP MARKING TERMINATIONS CONTACT MATERIAL SEAL RoHS SOLDERING

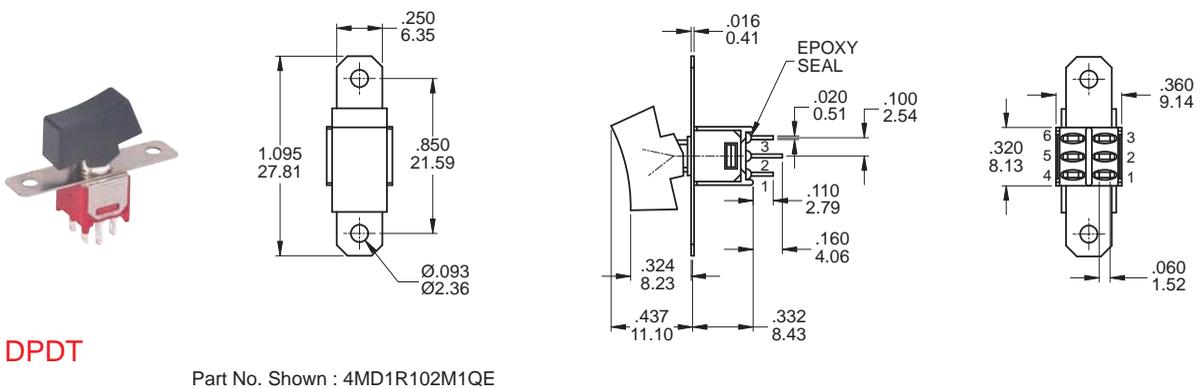
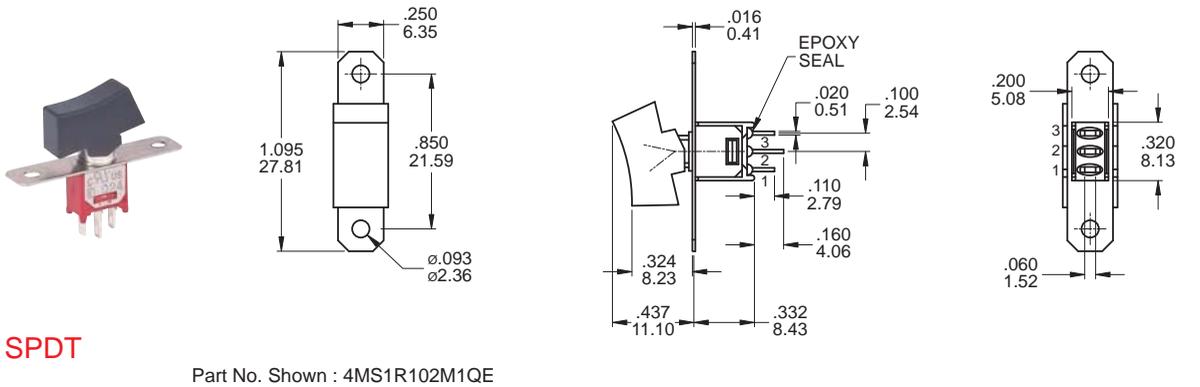


SWITCH FUNCTION

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	Q2411	4MS1	ON	NONE	ON	2-3	N/A	2-1
	Q2412	4MS2	ON	NONE	MOM			
	Q2413	4MS3	ON	OFF	ON		OPEN	
	Q2414	4MS4	MOM	OFF	MOM			
	Q2415	4MS5	ON	OFF	MOM	OPEN	N/A	3-1
	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	MOM			
	Q2423	4MD3	ON	OFF	ON		OPEN	

MOM=MOMENTARY

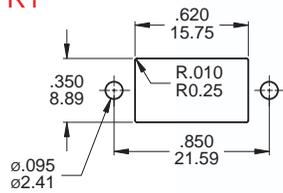
POLE OPTIONS



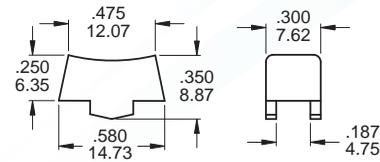
4M
Rocker Switches

ACTUATOR OPTIONS - PANEL MOUNT

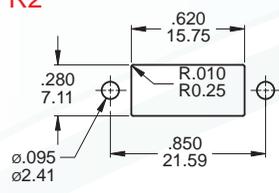
R1



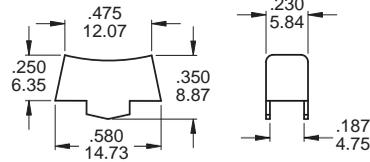
PANEL MOUNTING-R1



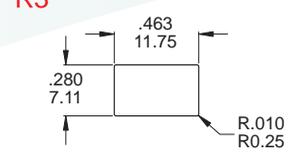
R2



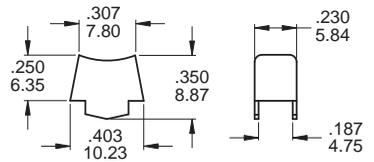
PANEL MOUNTING-R2



R3

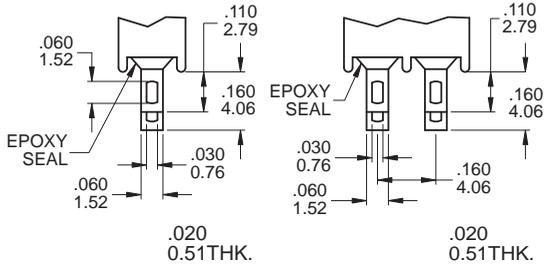


PANEL MOUNTING-R3



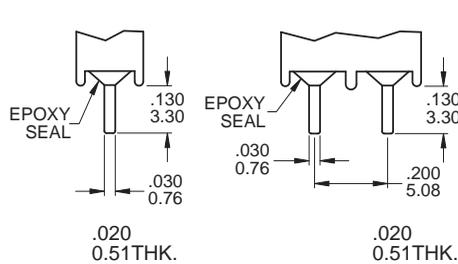
TERMINATION OPTIONS

M1 Solder lug



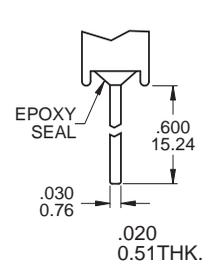
Double Pole

M2 PC Thru-hole

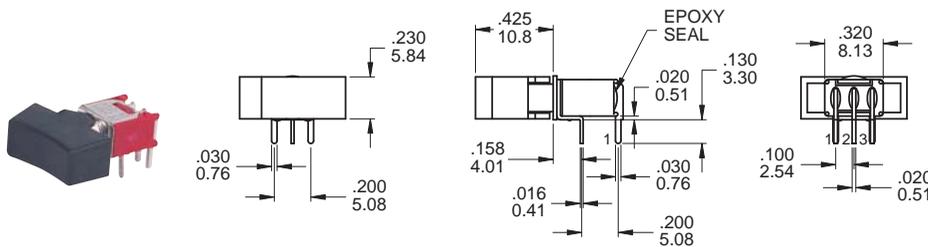


Double Pole

M5 Wire Wrap



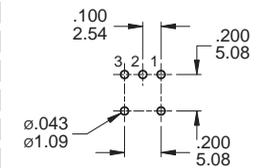
M6



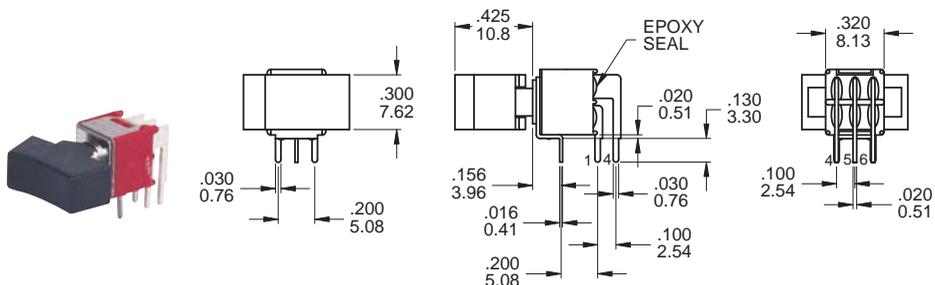
SPDT

Part No. Shown : 4MS1R202M6QE

P.C. MOUNTING



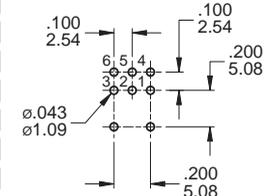
M6



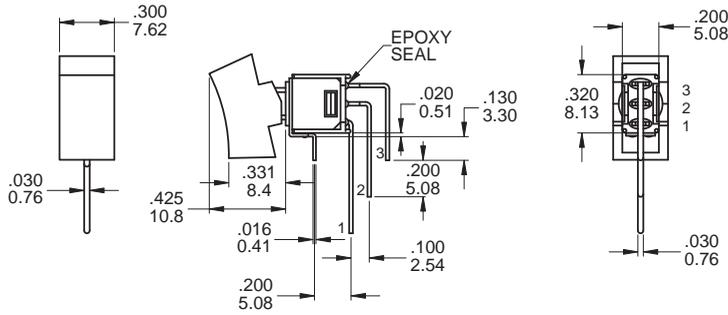
DPDT

Part No. Shown : 4MD1R102M6QE

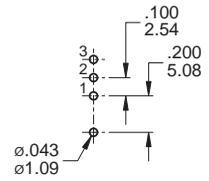
P.C. MOUNTING



M7



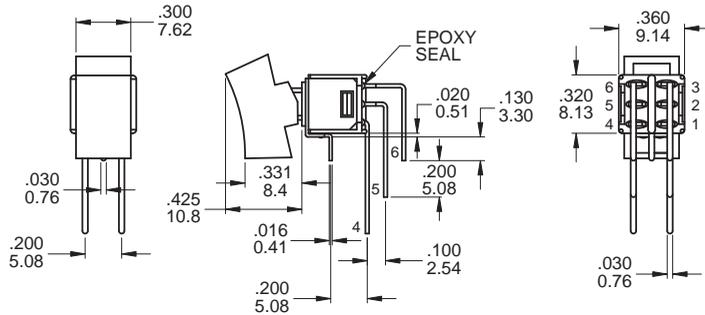
P.C. MOUNTING



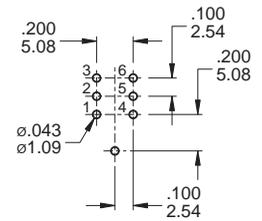
SPDT

Part No. Shown : 4MS1R102M7QE

M7



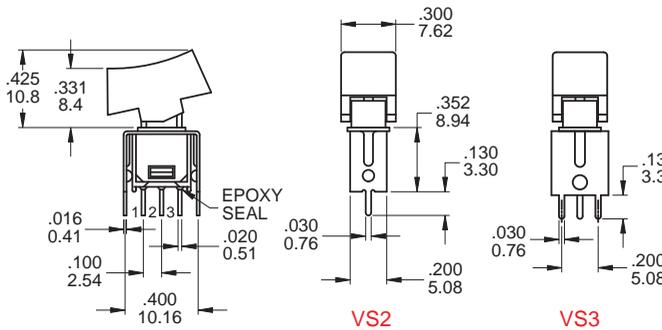
P.C. MOUNTING



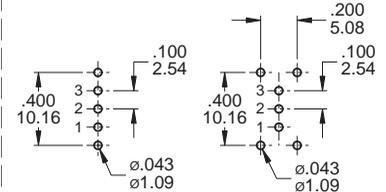
DPDT

Part No. Shown : 4MD1R102M7QE

VS2 - VS3



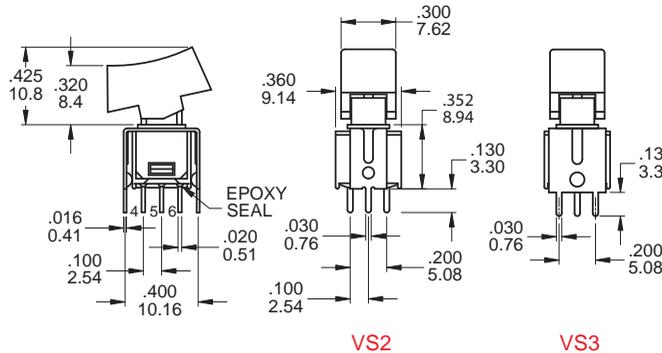
P.C. MOUNTING



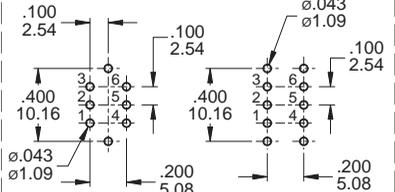
SPDT

Part No. Shown : 4MS1R102VS2QE

VS2 - VS3



P.C. MOUNTING



DPDT

Part No. Shown : 4MD1R102VS2QE

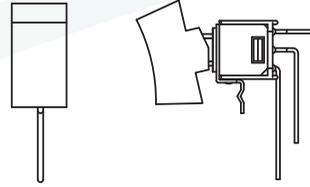


SNAP-IN TERMINATION OPTIONS

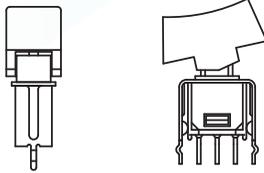
M6N



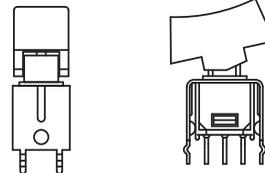
M7N



V2N



V3N



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

