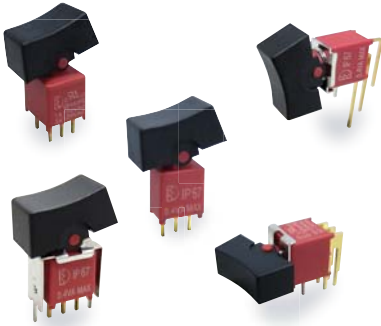


4A Series

Sealed Sub-Miniature Rocker Switches



IP 67
ACCORDING TO
EN 60529:1991+A1:2001
IEC 60529:2001

cUL US
E 187490

RoHS
compliant



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 74.

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: 1,000 MΩ min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.

OPERATING TEMPERATURE: -40°C to 85°C.

MATERIALS

CASE & BUSHING : Glass filled nylon 6/6,flame retardant,
heat stabilized (UL94V-0).

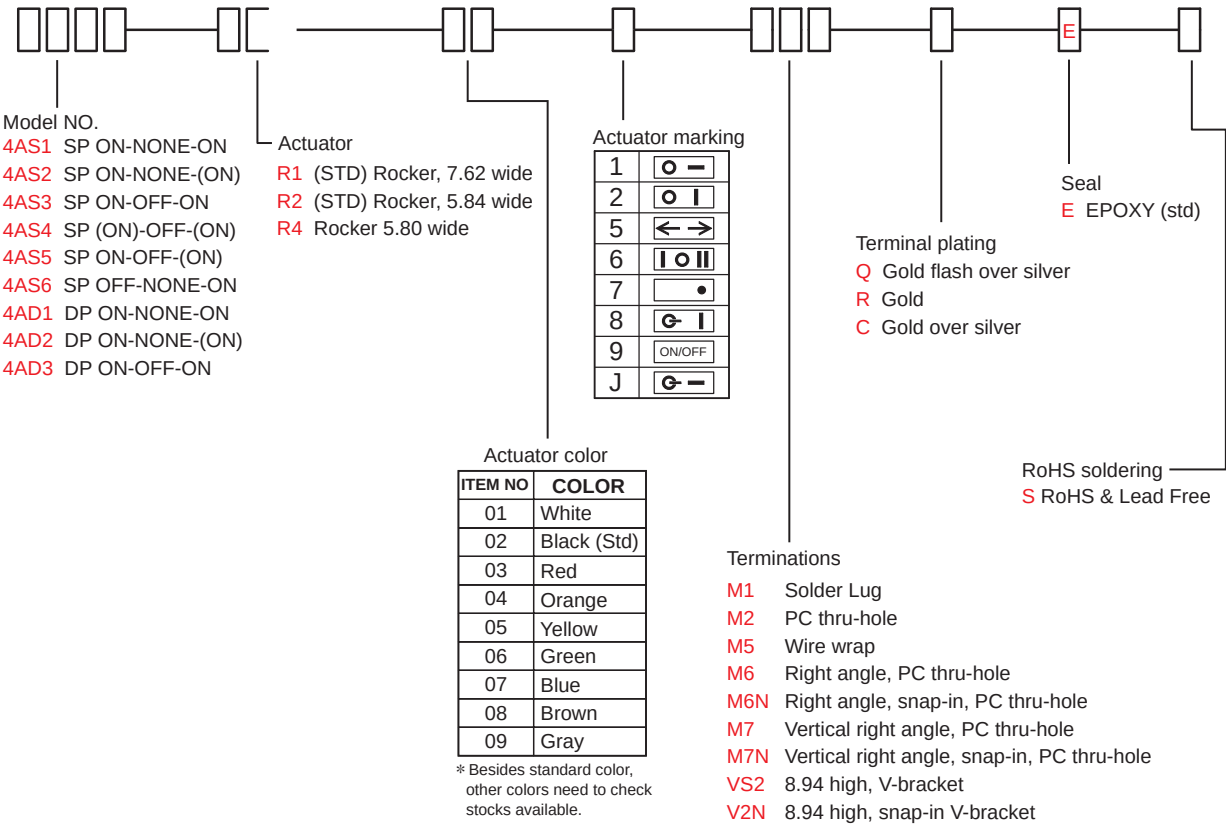
ACTUATOR: Nylon,black std.Internal O-ring seal standard
with all actuators.

SWITCH SUPPORT: Brass or steel,tin plated.

TERMINAL/CONTACT: Silver or gold plated copper alloy.
(See Page 74)

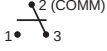
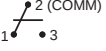
HOW TO ORDER

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



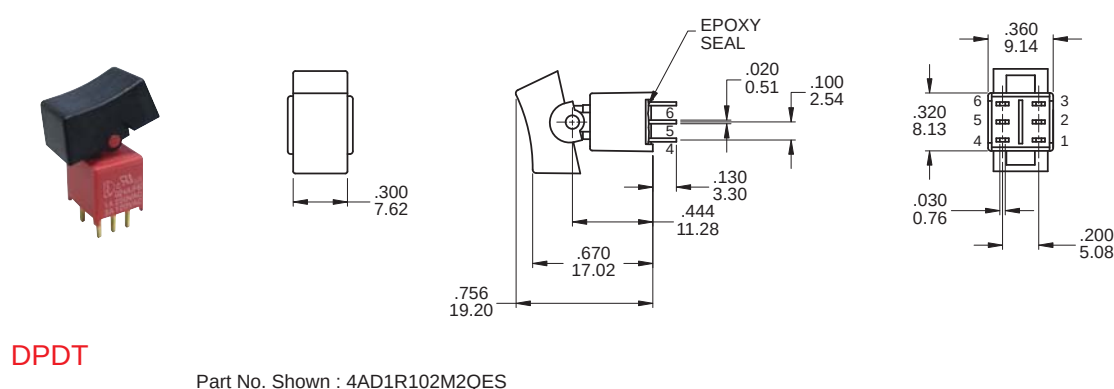
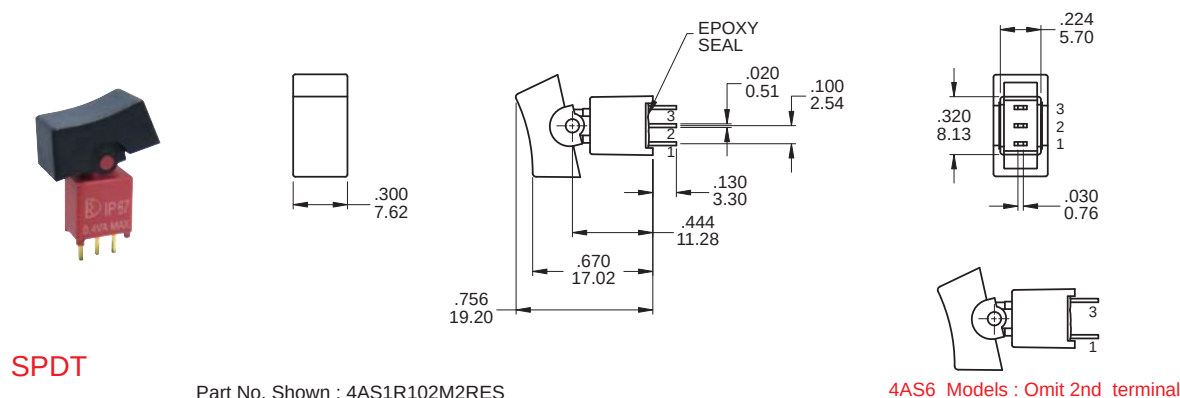
* 4AS6 model type not applicable to
M6/M6N/M7/M7N terminations

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	Q24A11	4AS1	ON	NONE	ON		N/A		
	Q24A12	4AS2	ON	NONE	(ON)		OPEN		
	Q24A13	4AS3	ON	OFF	ON				
	Q24A14	4AS4	(ON)	OFF	(ON)				
	Q24A15	4AS5	ON	OFF	(ON)	OPEN	N/A	3-1	
	Q24A16	4AS6	OFF	NONE	ON				
DP	Q24A21	4AD1	ON	NONE	ON		N/A		
	Q24A22	4AD2	ON	NONE	(ON)		OPEN		
	Q24A23	4AD3	ON	OFF	ON				

()=MOMENTARY

POLE OPTIONS

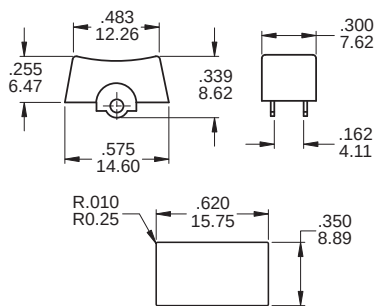


4A Series

Sealed Sub-Miniature Rocker Switches

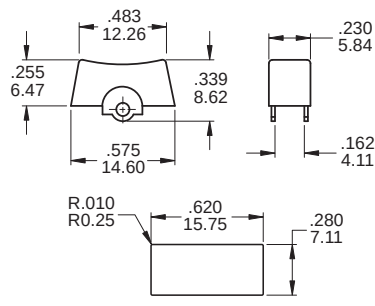
ACTUATOR OPTIONS - PANEL MOUNT

R1



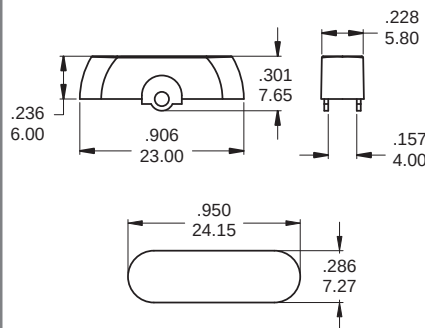
PANEL MOUNTING - R1

R2



PANEL MOUNTING - R2

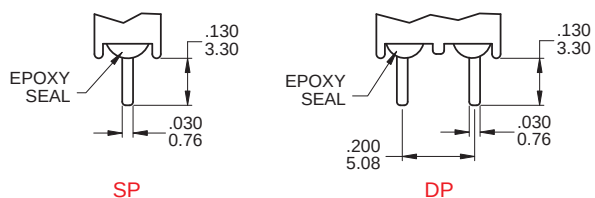
R4



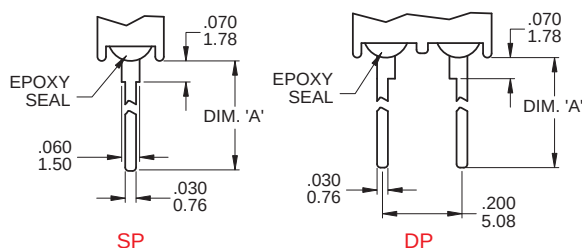
PANEL MOUNTING - R4

TERMINATION OPTIONS

M2 PC Thru-hole



M5 Wire Wrap

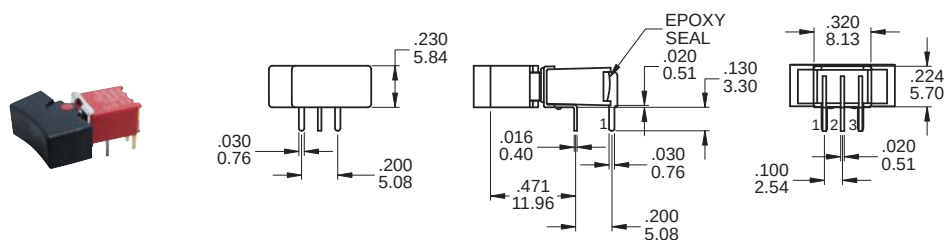


OTHER TERMINATION OPTIONS

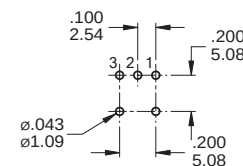
- | | |
|--|---|
| M6 Right angle P.C. Mount | M6N Right angle P.C. Mount with snap-in bracket |
| M7 Right angle P.C. Mount | M7N Right angle P.C. Mount with snap-in bracket |
| VS2 Vertical bracket P.C. Mount | V2N Vertical bracket P.C. Mount with snap-in bracket |

OPTION CODE	DIM. 'A'
M51	.614 (15.60)
M52	.236 (6.00)

M6



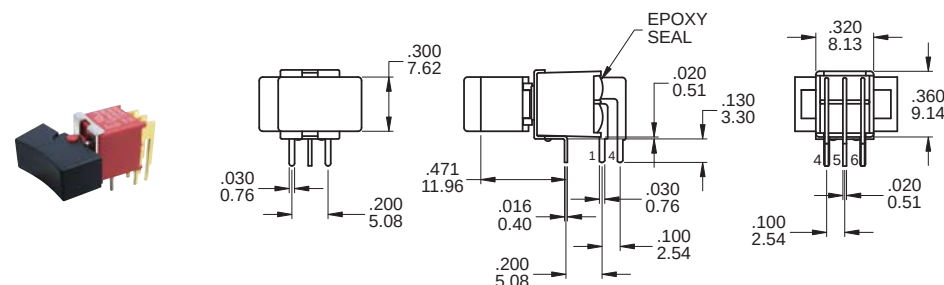
P.C. MOUNTING



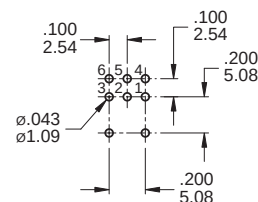
SPDT

Part No. Shown : 4AS1R202M6QES

M6



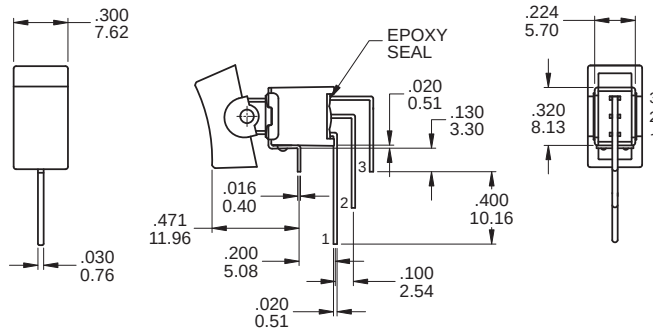
P.C. MOUNTING



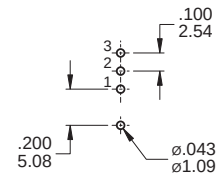
DPDT

Part No. Shown : 4AD1R102M6QES

M7



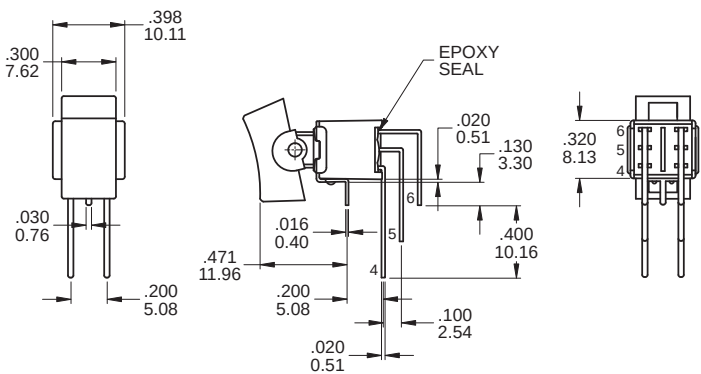
P.C. MOUNTING



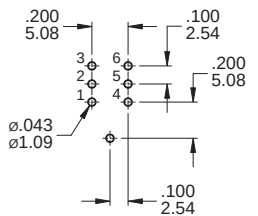
SPDT

Part No. Shown : 4AS1R102M7RES

M7



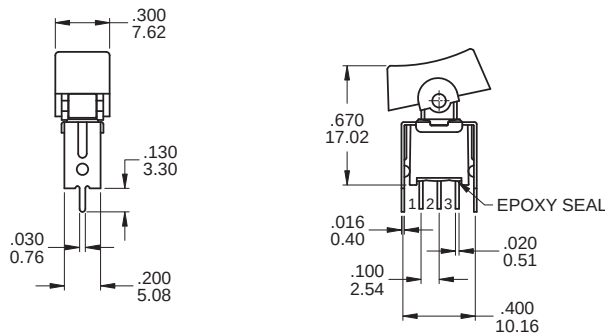
P.C. MOUNTING



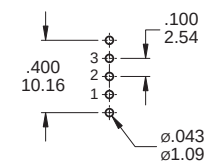
DPDT

Part No. Shown : 4AD1R102M7RES

VS2



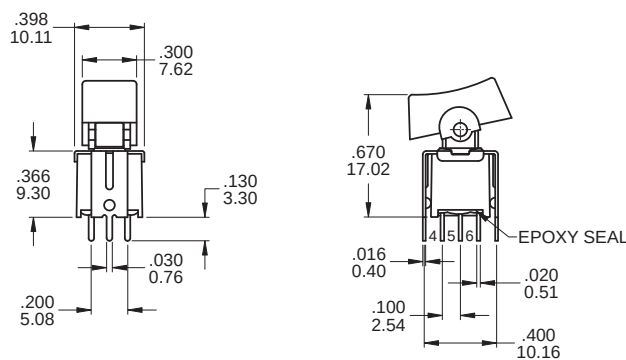
P.C. MOUNTING



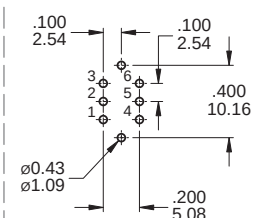
SPDT

Part No. Shown : 4AS1R102VS2RES

VS2



P.C. MOUNTING



DPDT

Part No. Shown : 4AD1R102VS2QES

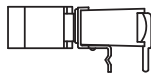
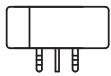


4A Series

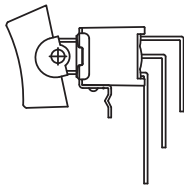
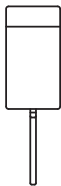
Sealed Sub-Miniature Rocker Switches

SNAP-IN TERMINATION OPTIONS

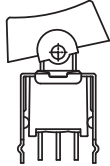
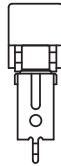
M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

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