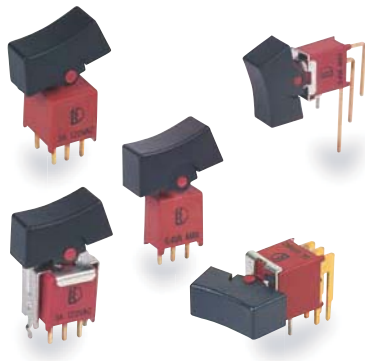




IP 67
ACCORDING TO
EN 60529:1989+A1:2001
IEC 60529:2001

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 73.

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: -30°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 73)

HOW TO ORDER

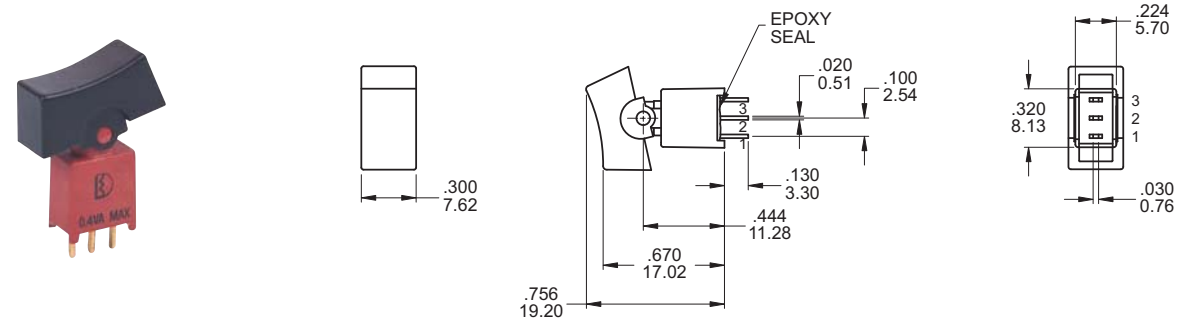
MODEL NO.	ACTUATOR	ACTUATOR COLOR	CAP MARKING	TERMINATIONS	TERMINAL MATERIAL	SEAL	ROHS SOLDERING																																				
MODEL NO. 4AS1 SP On-None-On 4AS2 SP On-None-Mom 4AS3 SP On-Off-On 4AS4 SP Mom-Off-Mom 4AS5 SP On-Off-Mom 4AS6 SP Off-None-On 4AD1 DP On-None-On 4AD2 DP On-None-Mom 4AD3 DP On-Off -On 4AD6 DP On-On-On	ACTUATOR R1 (STD) Rocker, 7.62 wide R2 (STD) Rocker, 5.84 wide R4 Rocker 5.80 wide	ACTUATOR COLOR <table><tr><th>ITEM NO</th><th>COLOR</th></tr><tr><td>1</td><td>White</td></tr><tr><td>2</td><td>Black (Std)</td></tr><tr><td>3</td><td>Red</td></tr><tr><td>4</td><td>Orange</td></tr><tr><td>5</td><td>Yellow</td></tr><tr><td>6</td><td>Green</td></tr><tr><td>7</td><td>Blue</td></tr><tr><td>8</td><td>Brown</td></tr><tr><td>9</td><td>Gray</td></tr></table>	ITEM NO	COLOR	1	White	2	Black (Std)	3	Red	4	Orange	5	Yellow	6	Green	7	Blue	8	Brown	9	Gray	CAP MARKING <table><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>6</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>8</td><td></td></tr><tr><td>9</td><td></td></tr><tr><td>F</td><td></td></tr></table>	1		2		5		6		7		8		9		F		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	TERMINAL MATERIAL Q Silver R Gold G Gold,pure-tin S Silver,pure-tin C Gold over silver K Gold over silver,pure-tin	E SEAL E EPOXY (std)	ROHS SOLDERING ☐ Rohs Compliant ☒ Rohs & Lead Free ☐ Halogen Free+RoHS
ITEM NO	COLOR																																										
1	White																																										
2	Black (Std)																																										
3	Red																																										
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5	Yellow																																										
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2																																											
5																																											
6																																											
7																																											
8																																											
9																																											
F																																											

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	2 (COMM)	N/A	2-1
	Q24A12	4AS2	ON	NONE	MOM		OPEN	2 (COMM)
	Q24A13	4AS3	ON	OFF	ON			
	Q24A14	4AS4	MOM	OFF	MOM			
	Q24A15	4AS5	ON	OFF	MOM			
	Q24A16	4AS6	OFF	NONE	ON	OPEN	N/A	3-1
DP	Q24A21	4AD1	ON	NONE	ON	2 (COMM)	N/A	2-1,5-4
	Q24A22	4AD2	ON	NONE	MOM		OPEN	2 (COMM)
	Q24A23	4AD3	ON	OFF	ON			
	Q24A26	4AD6	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4

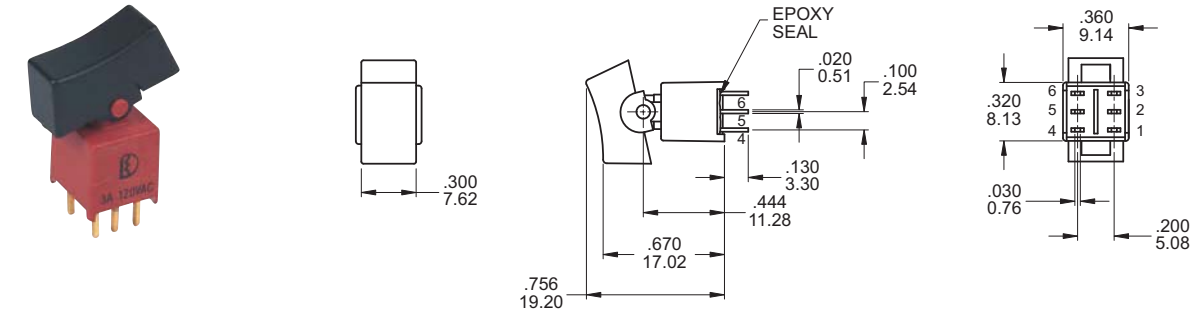
MOM=MOMENTARY

POLE OPTIONS



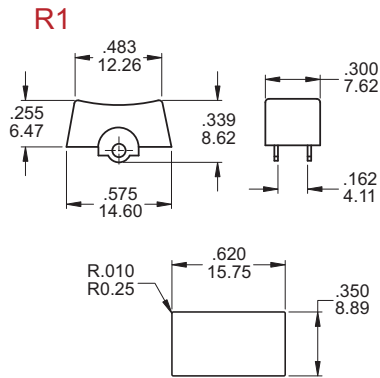
SPDT

Part No. Shown : 4AS1R102M2RE

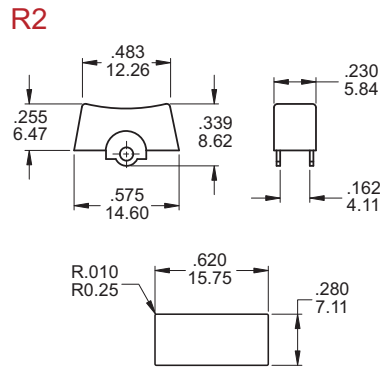


DPDT

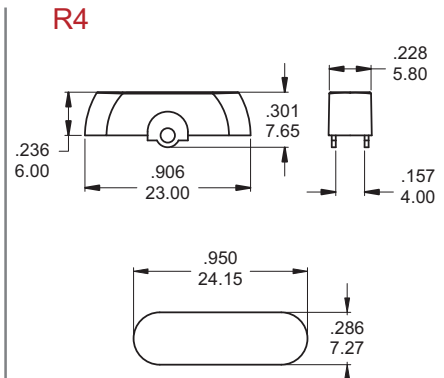
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ACTUATOR OPTIONS - PANEL MOUNT

PANEL MOUNTING - R1

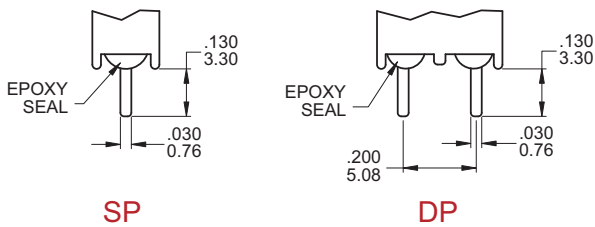
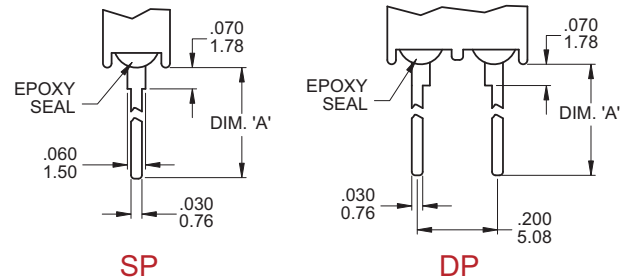


PANEL MOUNTING - R2



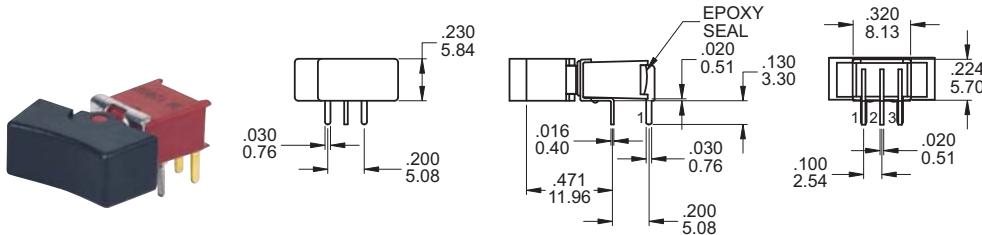
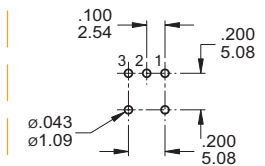
PANEL MOUNTING - R4

4A
Rocker Switches

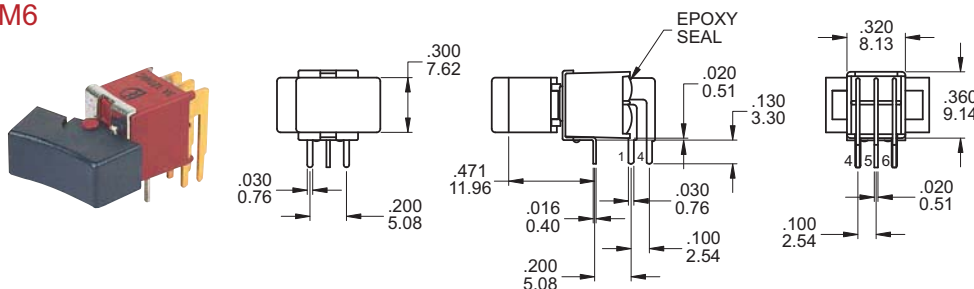
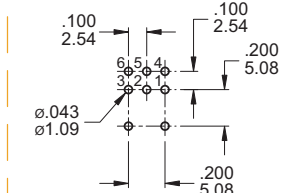
TERMINATION OPTIONS**M2 P.C. MOUNT****M5 WIRE WEAP****OTHER TERMINATION OPTIONS**

- M6 RIGHT ANGLE P.C. MOUNT
- M7 RIGHT ANGLE P.C. MOUNT
- VS2 VERTICAL BRACKET P.C. MOUNT
- VS3 VERTICAL BRACKET P.C. MOUNT

OPTION CODE	DIM. 'A'
M5-1	.614 (15.60)
M5-2	.236 (6.00)

M6**P.C. MOUNTING****SPDT**

Part No. Shown : 4AS1R202M6QE

M6**P.C. MOUNTING****DPDT**

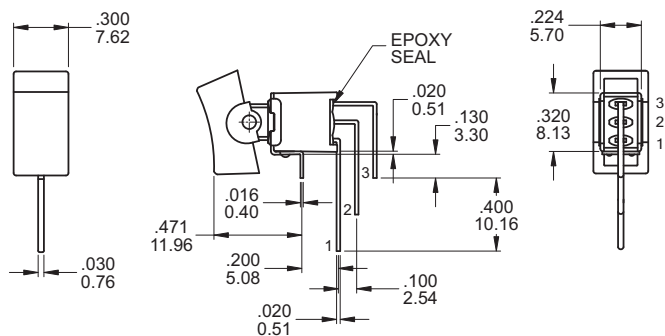
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Sealed Sub-Miniature Rocker & Paddle Switches

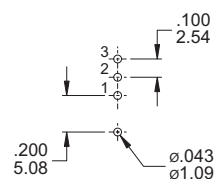


4A
Rocker Switches

M7



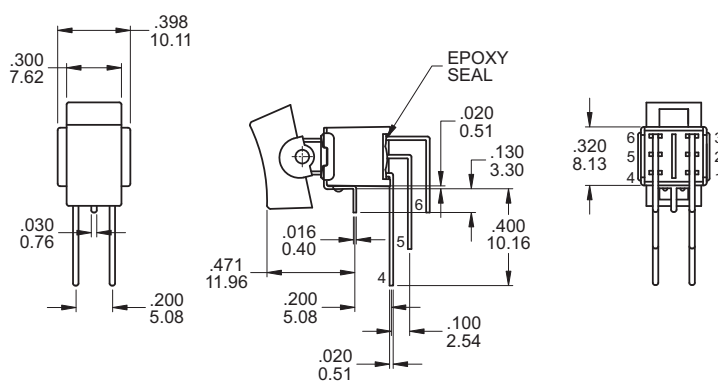
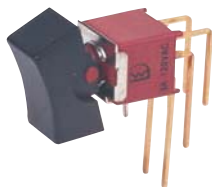
P.C. MOUNTING



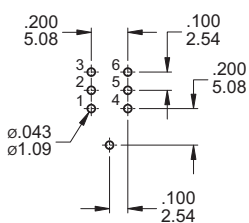
SPDT

Part No. Shown : 4AS1R102M7RE

M7



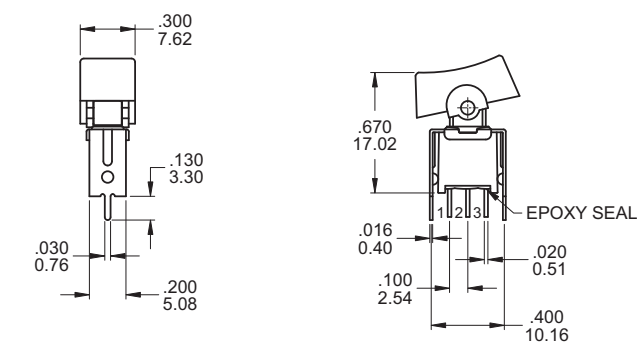
P.C. MOUNTING



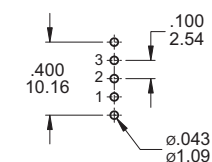
DPDT

Part No. Shown : 4AD1R102M7RE

VS2



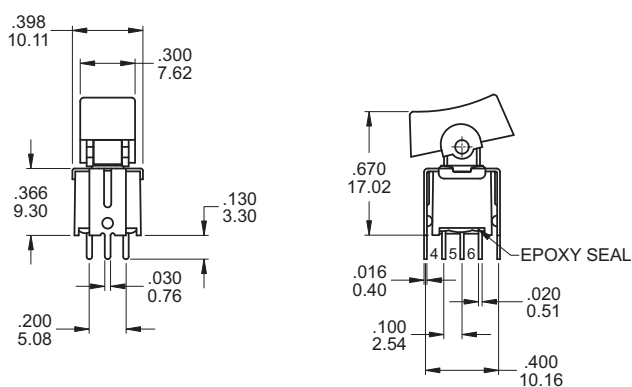
P.C. MOUNTING



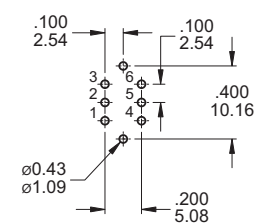
SPDT

Part No. Shown : 4AS1R102VS2RE

VS2



P.C. MOUNTING

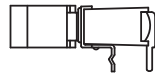
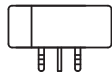


DPDT

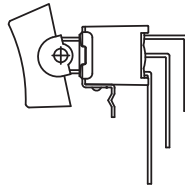
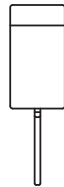
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SNAP-IN TERMINATION OPTIONS

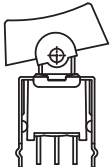
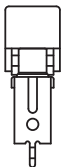
M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

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

SOLDERING : Vapor phase