

SPECIFICATIONS

**CONTACT RATING:** Dependent upon contact material

**MECHANICAL LIFE:** 50,000 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 & BUSHING:** Glass filled nylon 6/6, flame retardand, heat stabilized ( UL94V-0 ).

**PLUNGER:** Thermoplastic Polyester (UL 94V-0), with internal O-ring seal.

**SWITCH SUPPORT:** Brass or steel electrotin plated.

**CONTACT:** Copper alloy,with silver or gold plated.

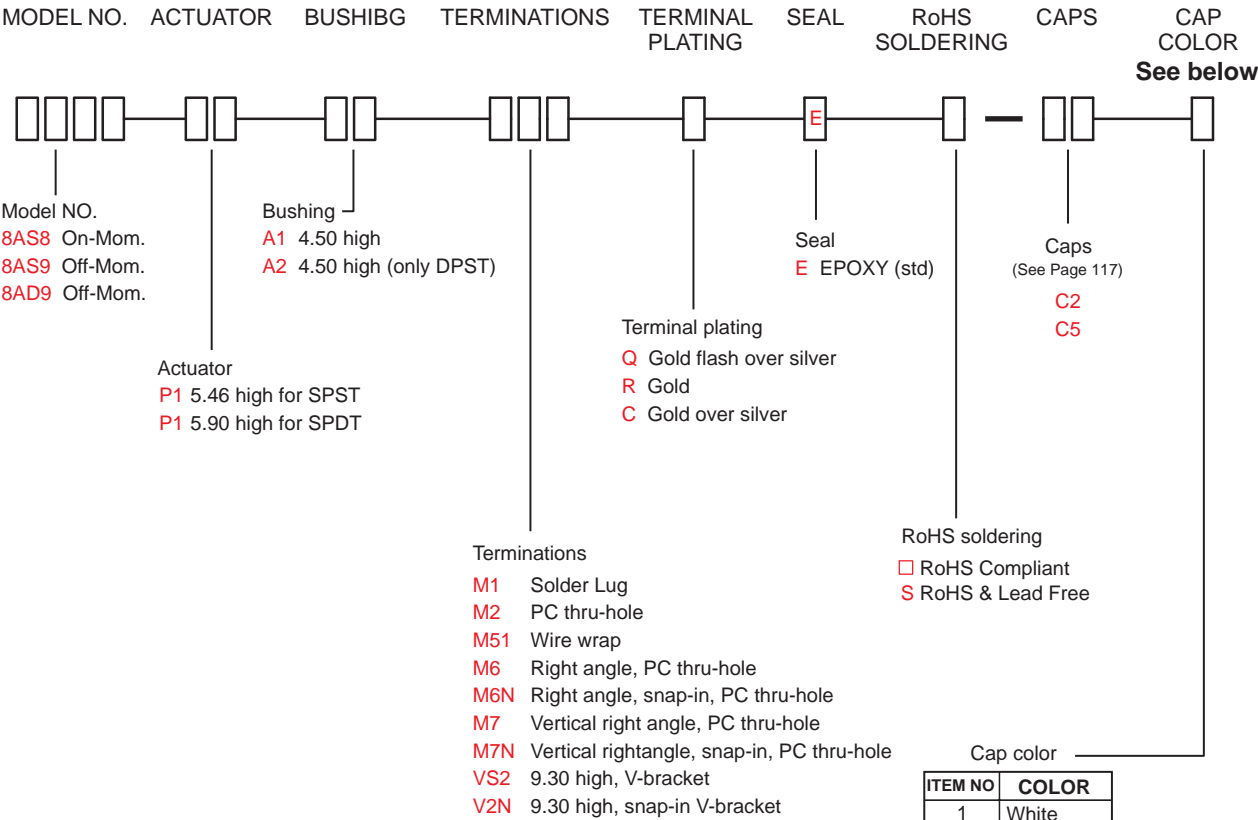
IP 67  
ACCORDING TO  
EN 60529:1991+A1:2001  
IEC 60529:2001

C US  
E 187490

RoHS  
compliant

Pb  
lead-free

HOW TO ORDER



ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

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



8A  
Pushbutton Switches

8A Series

Sealed Sub-Miniature Pushbutton Switches

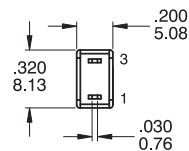
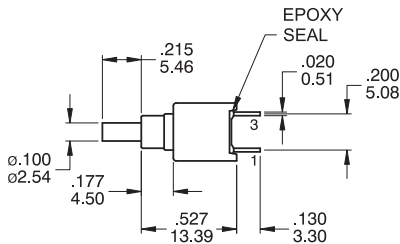
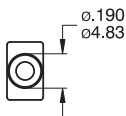
SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
			POS.1	POS.2	POS.1	POS.2
SP	Q28A18	8AS8	ON	MOM	2-1 	2-3 
	Q28A19	8AS9	OFF	MOM	OPEN 	1-3 
DP	Q28A29	8AD9	OFF	MOM	OPEN 	1-3,4-6 

MOM=MOMENTARY

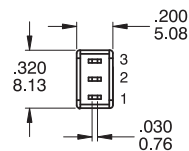
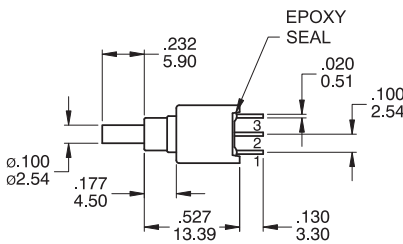
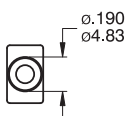
POLE OPTIONS

8A  
Pushbutton Switches



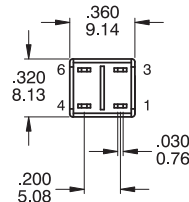
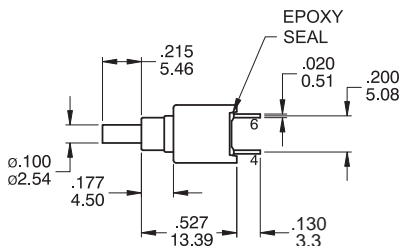
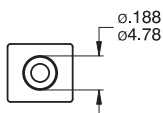
SPST

Part No. Shown : 8AS9P1A1M2RE



SPDT

Part No. Shown : 8AS8P1A1M2RE

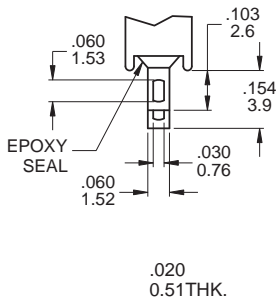


DPST

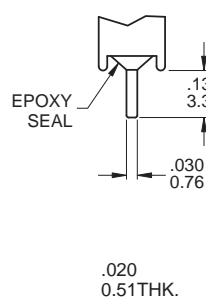
Part No. Shown : 8AD9P1A2M2RE

## TERMINATION OPTIONS

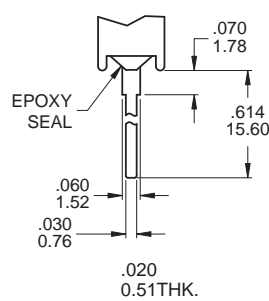
### M1 Solder lug



### M2 PC Thru-hole



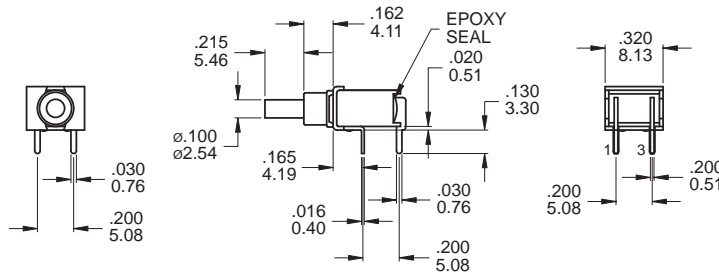
### M51 Wire Wrap



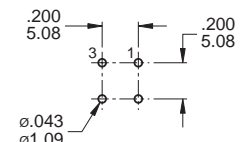
### OTHER TERMINATION OPTIONS

- 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

### M6



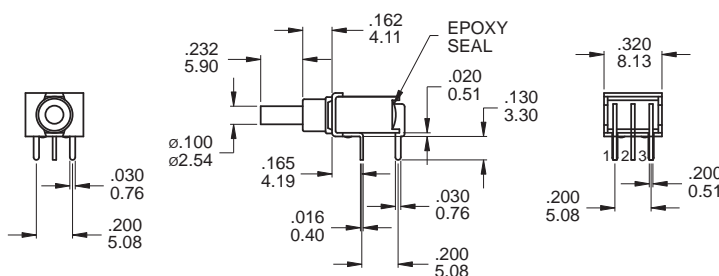
### P.C. MOUNTING



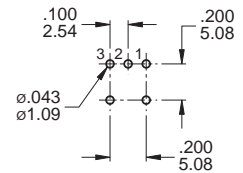
### SPST

Part No. Shown : 8AS9P1A1M6RE

### M6



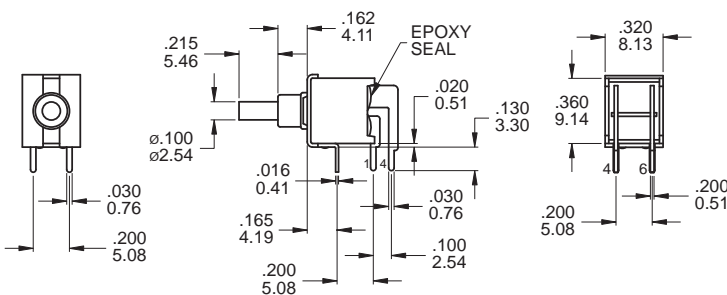
### P.C. MOUNTING



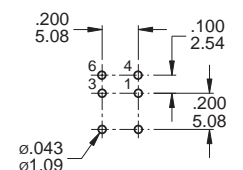
### SPDT

Part No. Shown : 8AS8P1A1M6RE

### M6



### P.C. MOUNTING



### DPST

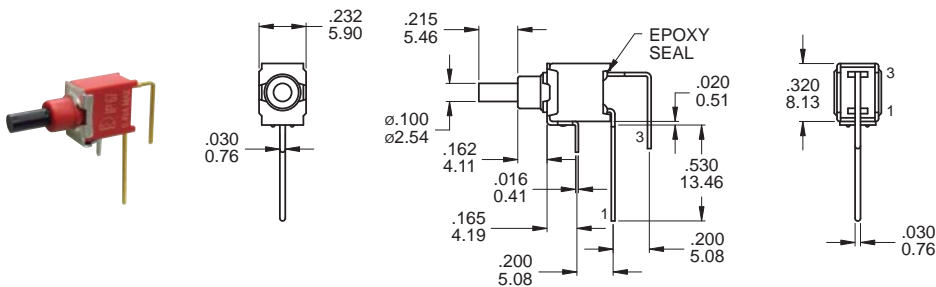
Part No. Shown : 8AD9P1A2M6RE



## Sealed Sub-Miniature Pushbutton Switches

## Sealed Sub-Miniature Pushbutton Switches

M7

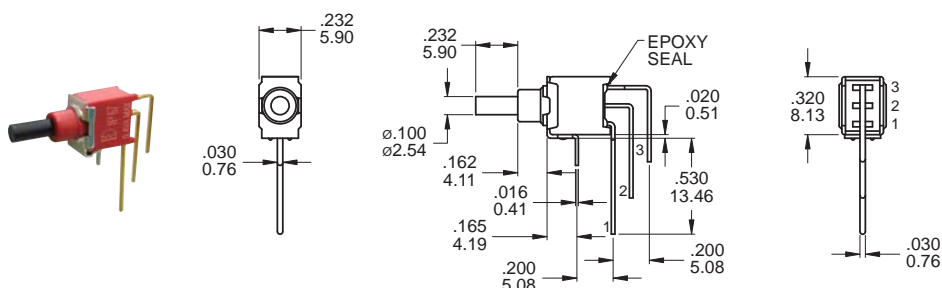


## P.C. MOUNTING

SPST

Part No. Shown : 8AS9P1A1M7RE

M7

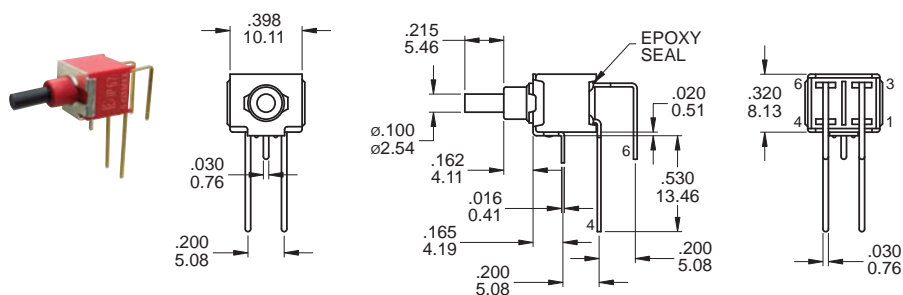


## P.C. MOUNTING

SPDT

Part No. Shown : 8AS8P1A1M7RE

M7

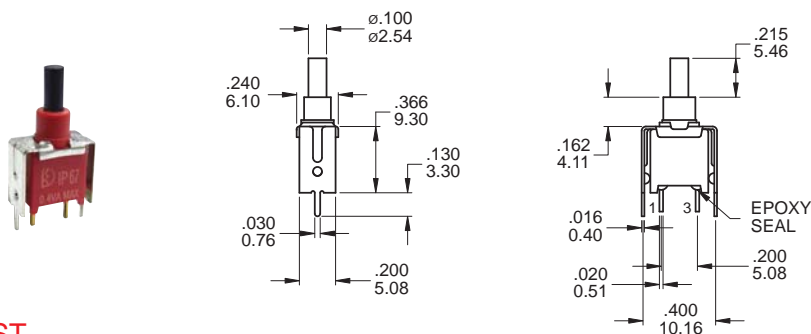


## P.C. MOUNTING

DPST

Part No. Shown : 8AD9P1A2M7RE

VS2

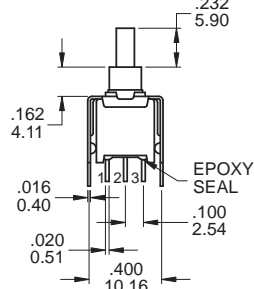
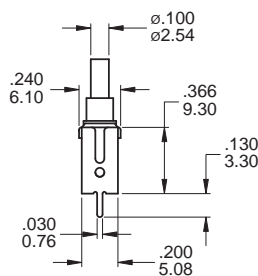


## P.C. MOUNTING

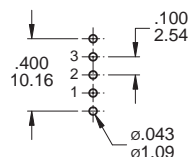
SPST

Part No. Shown : 8AS9P1A1VS2RE

### VS2



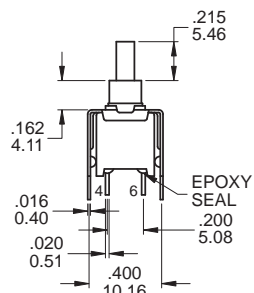
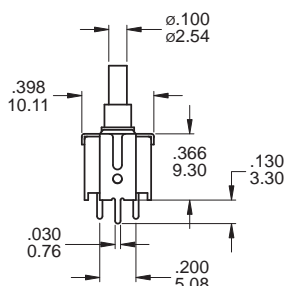
#### P.C. MOUNTING



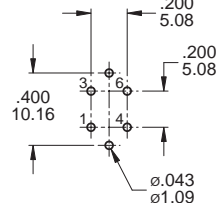
### SPDT

Part No. Shown : 8AS8P1A1VS2RE

### VS2



#### P.C. MOUNTING



### DPST

Part No. Shown : 8AD9P1A2VS2RE

## 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
C	Gold over Silver	C = Gold over silver	
R	Gold	R = 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)