

## Sealed Ultraminiature Pushbutton Switches



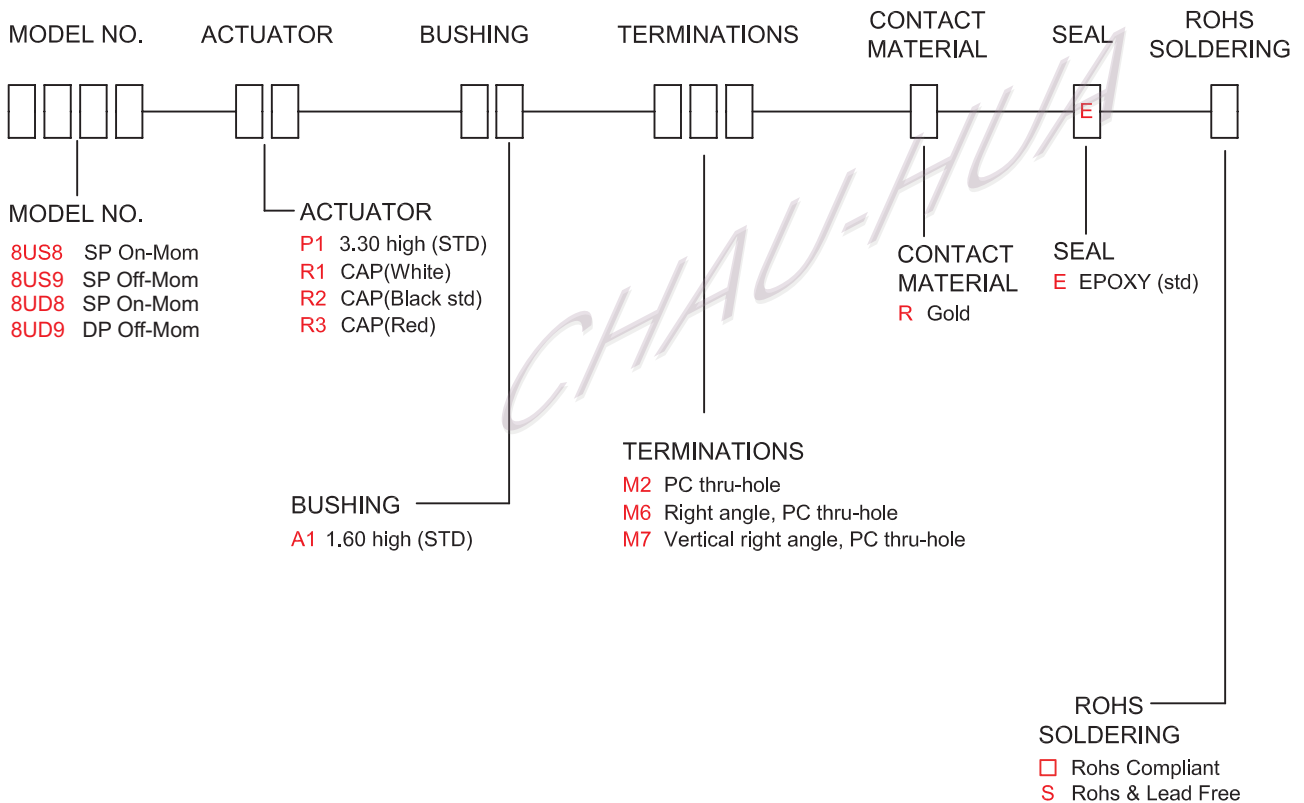
### SPECIFICATIONS

**MECHANICAL LIFE:** 40,000 make-and-break cycles.  
**CONTACT RATING:** 0.4 VA max.@ 20 V AC or DC max.  
**CONTACT RESISTANCE:** Below 100m Ω typ. initial @ 2-4 V DC, 100mA.  
**INSULATION RESISTANCE:** 500 MΩ min.  
**DIELECTRIC STRENGTH:** 500 V RMS@sea level.  
**OPERATING TEMPERATURE:** -30°C to 85°C.

### MATERIALS





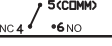
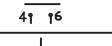
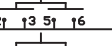
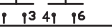
**HOUSING AND BASE:** Glass filled nylon 66 or 4/6 flame retardant, heat stabilized (UL 94V-0)  
**ACTUATOR:** Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0), with standard internal o-ring seal.  
**SWITCH SUPPORT:** Steel, with nickel plated.  
**CONTACTS/TERMINALS:** Silver or gold plated copper alloy

### HOW TO ORDER



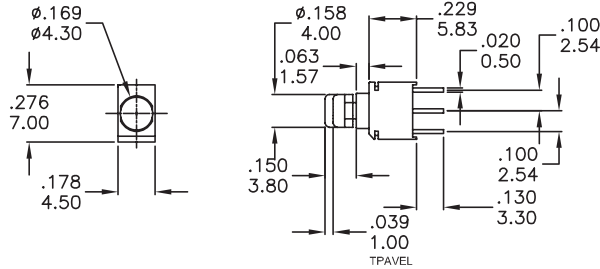
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SWITCH FUNCTION

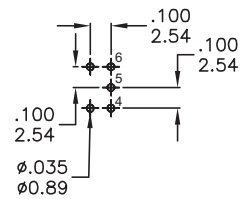
NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS.1	POS.2	POS.1	POS.2	
						
SP	8US8	ON	MOM	5-6	5-4	
SP	8US9	OFF	MOM	OPEN	4-6	
DP	8UD8	ON	MOM	2-3,5-6	2-1,5-4	
DP	8UD9	OFF	MOM	OPEN	1-3,4-6	

MOM=MOMENTARY

M2



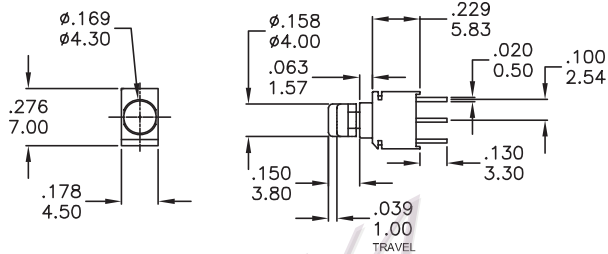
P.C. MOUNTING



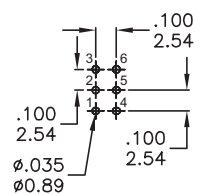
SPDT

Part No. Shown : 8US8R2A1M2RE

M2



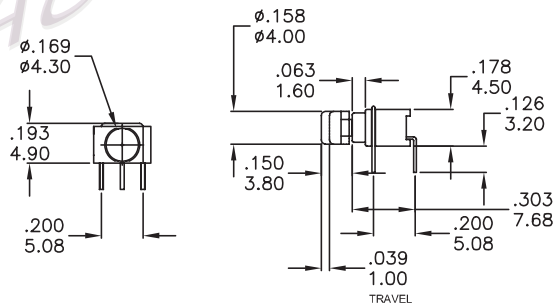
P.C. MOUNTING



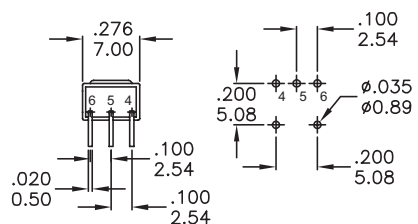
DPDT

Part No. Shown : 8UD8R2A1M2RE

M6



P.C. MOUNTING

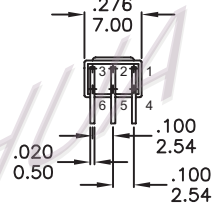
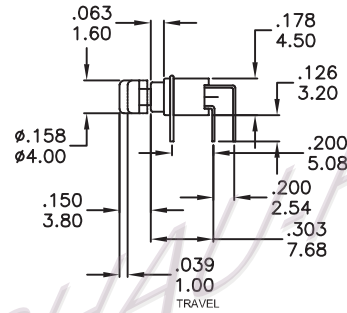
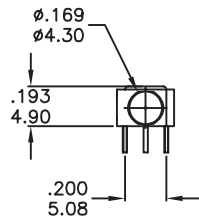


SPDT

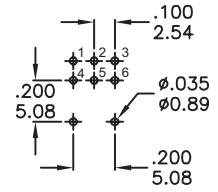
Part No. Shown : 8US8R2A1M6RE

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**M6**



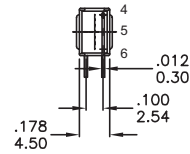
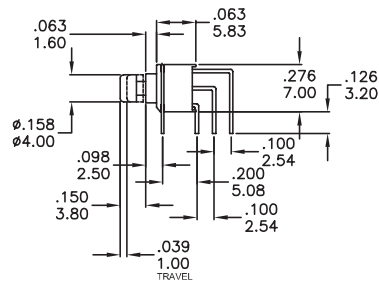
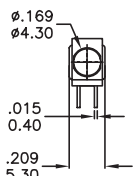
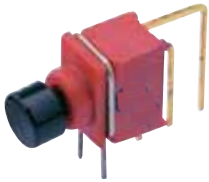
P.C. MOUNTING



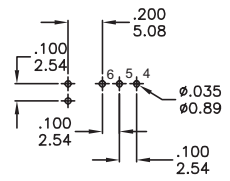
**DPDT**

Part No. Shown : 8UD8R2A1M6RE

**M7**



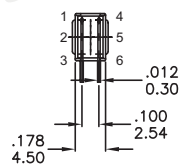
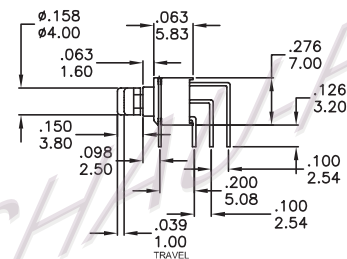
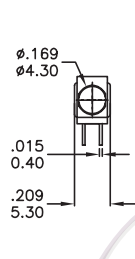
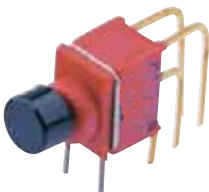
P.C. MOUNTING



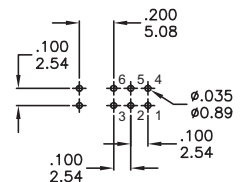
**SPDT**

Part No. Shown : 8US8R2A1M7RE

**M7**



P.C. MOUNTING



**DPDT**

Part No. Shown : 8UD8R2A1M7RE

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**IP 67**

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

**SOLDERING PROCESSES**

**WAVE SOLDERING** : Recommended Soldering Temperature:  $260 \pm 5^{\circ}\text{C}$   
Duration of Solder Immersion:  $5 \pm 1$  seconds  
(PCB is 1.6mm in thickness)

**SOLDERING** : Vapor phase

**Temperature Profile**

Zone	Room temperature	Time ( Sec )
Pre-heat ( A )	150°C	Min 120s
Soak ( B )	180°C~200°C	Min 150s
Peak ( C )	200°C~235°C	Min 30s
Peak ( D )	235°C~260°C	Min 40s
Peak ( E )	260°C	Max 10s

