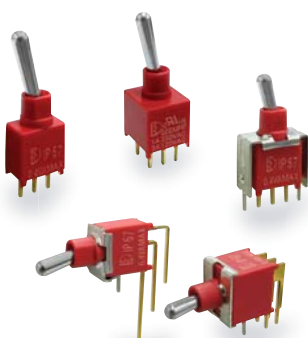


2A Series

Sealed Sub-Miniature Toggle Switches

2A
Toggle Switches



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

UL US
E 187490

RoHS
compliant

Pb
lead-free

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 34.

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 & BUSHING: Glass filled nylon 6/6, flame retardant,
heat stabilized (UL94v-0).

ACTUATOR: Brass, chrome plated, internal O-ring seal.
Standard for all actuators.







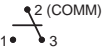
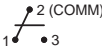
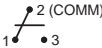

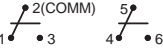
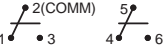
SWITCH SUPPORT: Brass, tin plated.

CONTACT / TERMINALS: Copper alloy with Silver or gold plated.
(See Page 34)

HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	TERMINAL PLATING	SEAL	RoHS SOLDERING
<div> <div></div> <div></div> <div></div> <div></div> </div> <p>Model NO.</p> <p>2AS1 SP On-None-On</p> <p>2AS2 SP On-None-Mom.</p> <p>2AS3 SP On-Off -On</p> <p>2AS4 SP Mom.-Off-Mom.</p> <p>2AS5 SP On-Off-Mom.</p> <p>2AS6 SP Off-None-On</p> <p>2AD1 DP On-None-On</p> <p>2AD2 DP On-None-Mom.</p> <p>2AD3 DP On-Off-On</p>	<div> <div></div> <div></div> </div> <p>Actuator</p> <p>T1 10.16 high</p> <p>T2 6.10 high</p> <p>T3 8.13 high</p> <p>T4 13.97 high</p> <p>TA Plastic, Black</p> <p>10.16 high</p> <p>TB Plastic, Black</p> <p>6.10 high</p>	<div> <div></div> <div></div> <div></div> </div> <p>Bushing</p> <p>A1 SP 4.65 high</p> <p>A2 DP 4.50 high</p> <p>A3 SP 5.00 high</p>	<div> <div></div> <div></div> <div></div> </div> <p>Terminations</p> <p>M2 PC thru-hole</p> <p>M5 Wire wrap</p> <p>M6 Right angle, PC thru-hole</p> <p>M6N Right angle, snap-in, PC thru-hole</p> <p>M7 Vertical right angle, PC thru-hole</p> <p>M7N Vertical right angle, snap-in, PC thru-hole</p> <p>VS2 9.30 high V-bracket</p> <p>V2N 9.30 high Snap-in V-bracket</p>	<div> <div></div> </div> <p>Terminal plating</p> <p>Q Gold flash over silver</p> <p>R Gold</p> <p>G Gold, pure-tin</p> <p>S Gold flash over silver, pure-tin</p> <p>C Gold over silver</p> <p>K Gold over silver, pure-tin</p>	<div> <div></div> <div>E</div> </div> <p>Seal</p> <p>E EPOXY (std)</p>	<div> <div></div> </div> <p>RoHS soldering</p> <p><input type="checkbox"/> RoHS Compliant</p> <p>S RoHS & Lead Free</p>

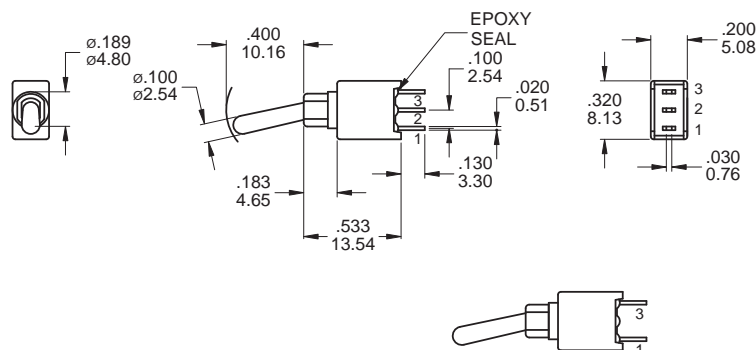
SWITCH FUNCTION

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	Q22A11	2AS1	ON	NONE	ON	2-3 	N/A	2-1
	Q22A12	2AS2	ON	NONE	MOM		OPEN 	
	Q22A13	2AS3	ON	OFF	ON			
	Q22A14	2AS4	MOM	OFF	MOM			
	Q22A15	2AS5	ON	OFF	MOM	OPEN	N/A	3-1
	Q22A16	2AS6	OFF	NONE	ON			
DP	Q22A21	2AD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4
	Q22A22	2AD2	ON	NONE	MOM		OPEN 	
	Q22A23	2AD3	ON	OFF	ON			

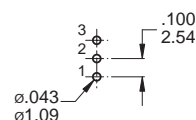
MOM=MOMENTARY

POLE OPTIONS

M2



P.C. MOUNTING

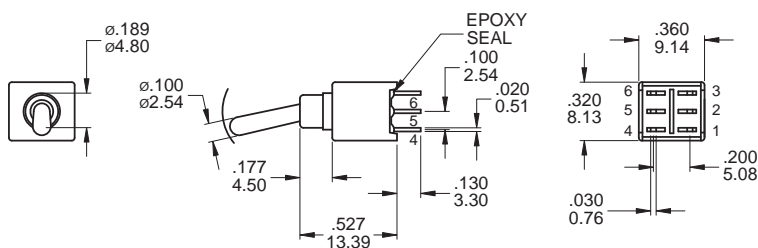


SPDT

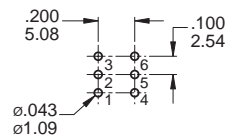
2AS6 Models : Omit 2nd terminal

Part No. Shown : 2AS1T1A1M2RE

M2



P.C. MOUNTING



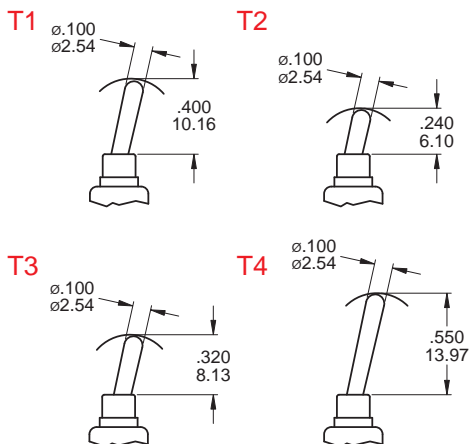
DPDT

Part No. Shown : 2AD1T1A2M2QE

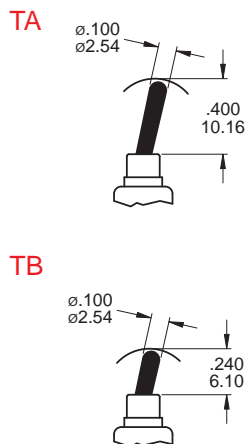
2A Series

Sealed Sub-Miniature Toggle Switches

ACTUATOR OPTIONS

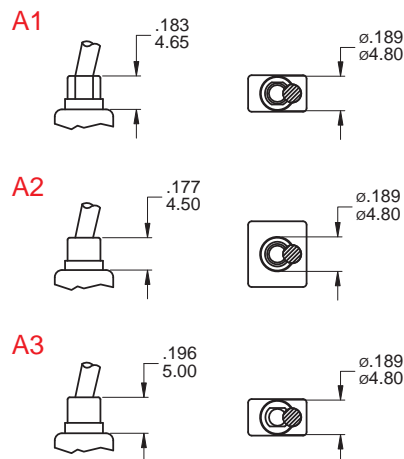


Actuator shown with A1 Bushing,
sub .020 (0.50) for A3 Bushing.



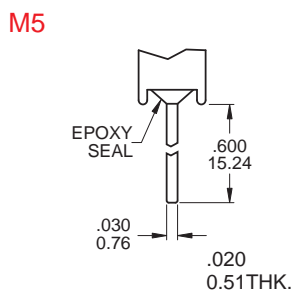
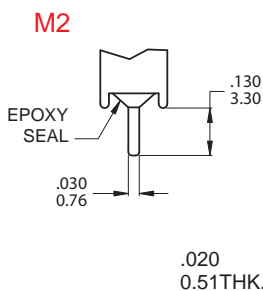
PLASTIC ACTUATOR

BUSHING OPTIONS



A1, A3 FOR SPDT / A2 FOR DPDT

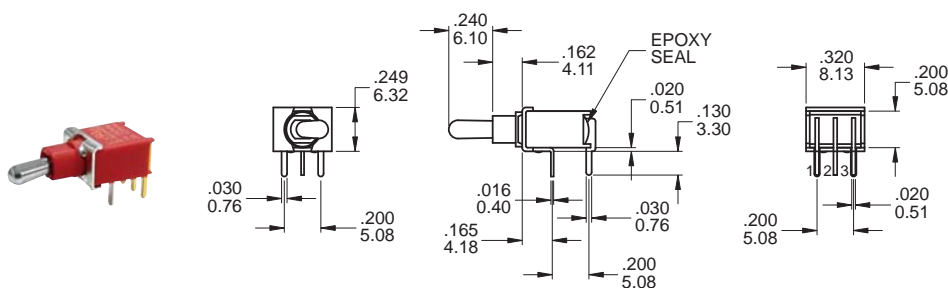
TERMINATION OPTIONS



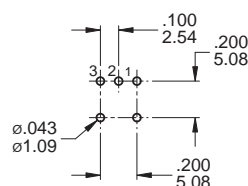
OTHER TERMINATION OPTIONS

- M6** Right angle P.C. Mount
- M6N** Right angle P.C. Mount
Snap-in bracket
- M7** Vertical right angle P.C. Mount
- M7N** Vertical right angle P.C. Mount
Snap-in bracket
- VS2** Vertical bracket P.C. Mount

M6



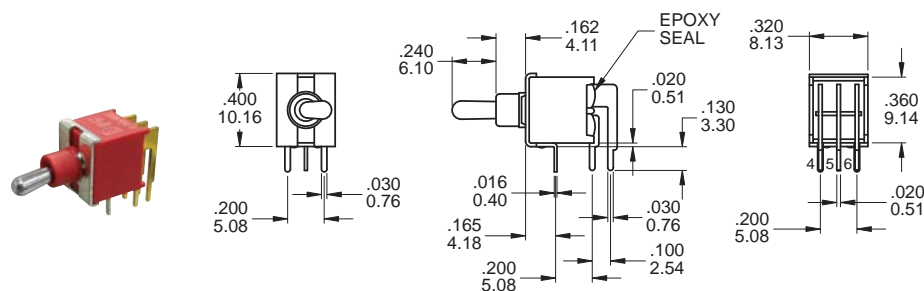
P.C. MOUNTING



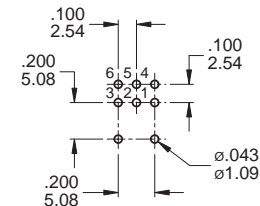
SPDT

Part No. Shown : 2AS1T2A1M6QE

M6



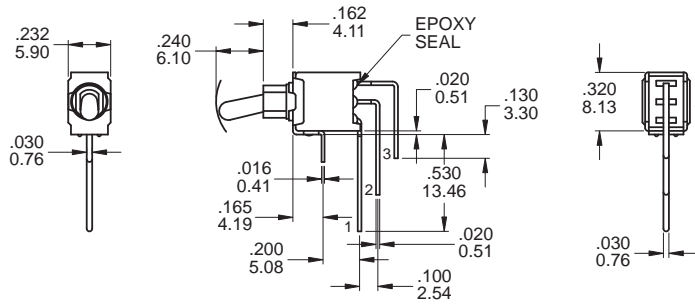
P.C. MOUNTING



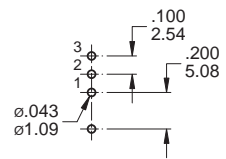
DPDT

Part No. Shown : 2AD1T2A2M6RE

M7



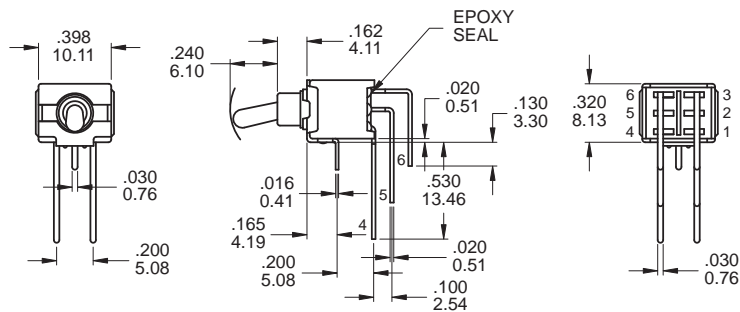
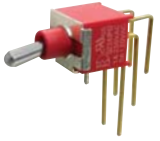
P.C. MOUNTING



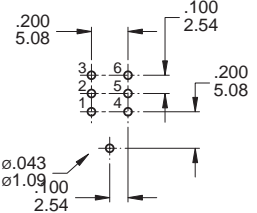
SPDT

Part No. Shown : 2AS1T2A1M7RE

M7



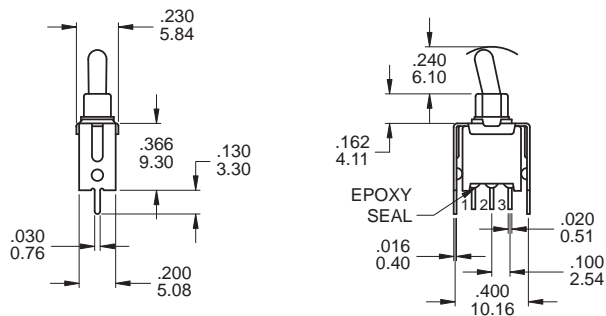
P.C. MOUNTING



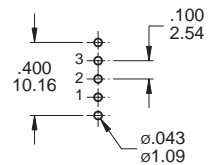
DPDT

Part No. Shown : 2AD1T2A2M7QE

VS2



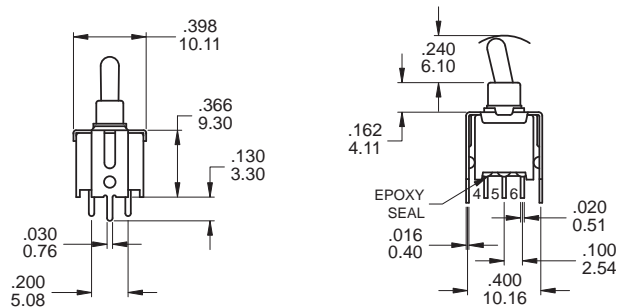
P.C. MOUNTING



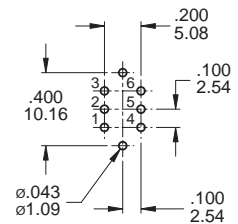
SPDT

Part No. Shown : 2AS1T2A1VS2RE

VS2



P.C. MOUNTING



DPDT

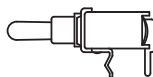
Part No. Shown : 2AD1T2A2VS2QE

2A Series

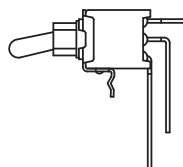
Sealed Sub-Miniature Toggle Switches

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)