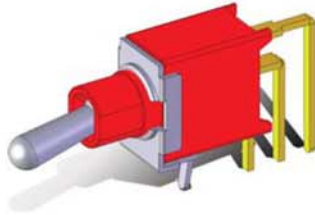


2A Series

Sealed Sub-Miniature Toggle Switches



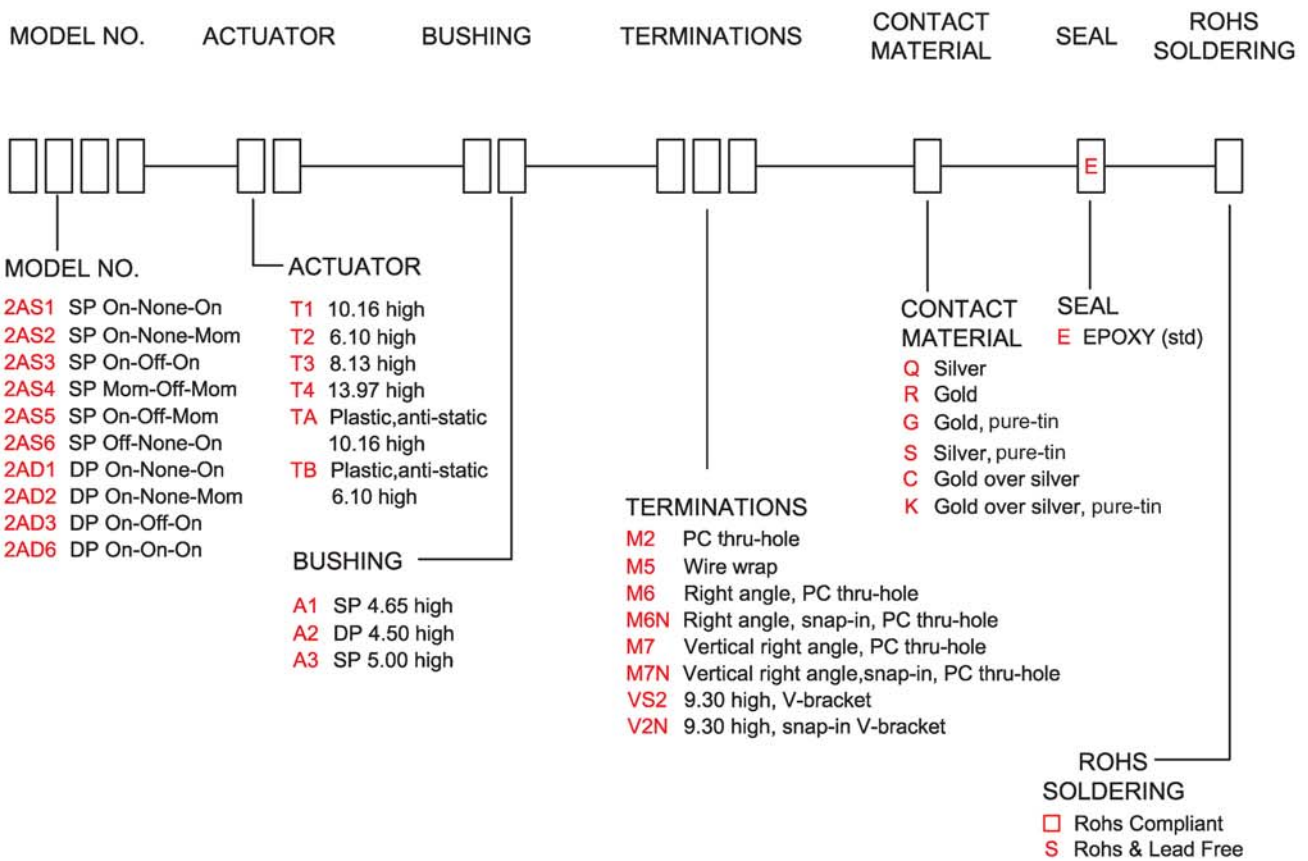
SPECIFICATIONS

CONTACT RATING: Dependent upon contact material .
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: 1,000MΩ min.
DIELECTRIC STRENGTH: 1,000 V RMS@sea level.
OPERATING TEMPERATURE: -30° C to 85° C.

MATERIALS

CASE & BUSHING - Glass filled nylon 66, flame retardant, heat stabilized (UL 94V-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 36)

HOW TO ORDER



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			
	Q22A13	2AS3	ON	OFF	ON		OPEN	
	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			
	Q22A23	2AD3	ON	OFF	ON		OPEN	
	Q22A26	2AD6	ON	ON	ON			

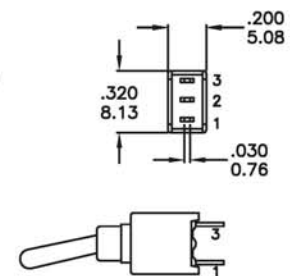
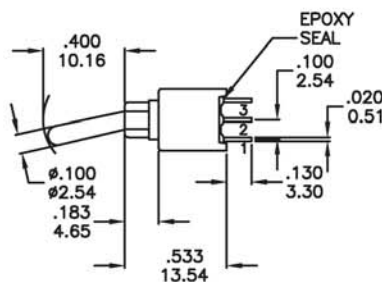
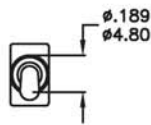
MOM=MOMENTARY

POLE OPTIONS



SPDT

Part No. Shown : 2AS1T1A1M2RE

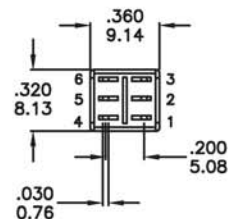
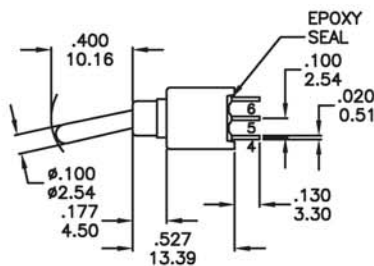
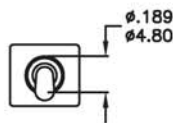


2AS6 Models : Omit 2nd terminal



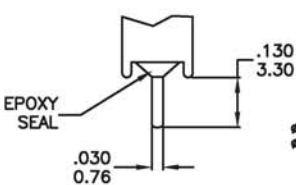
DPDT

Part No. Shown : 2AD1T1A2M2RE

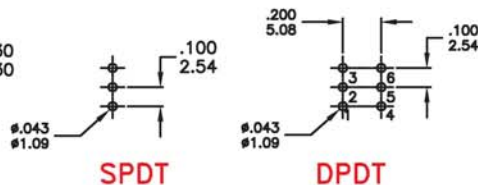


TERMINATION OPTIONS

M2



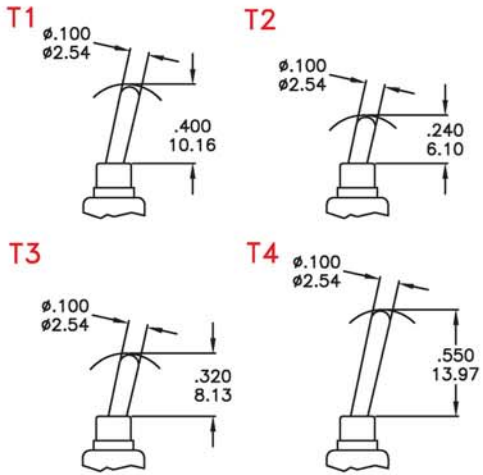
P.C. MOUNTING



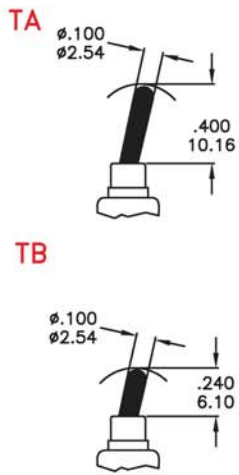
OTHER TERMINATION OPTIONS

- M6 RIGHT ANGLE P.C. MOUNT
- M6N RIGHT ANGLE P.C. MOUNT SNAP-IN BRACKET
- M7 RIGHT ANGLE P.C. MOUNT
- VS2 VERTICAL BRACKET P.C.MOUNT

ACTUATOR OPTIONS

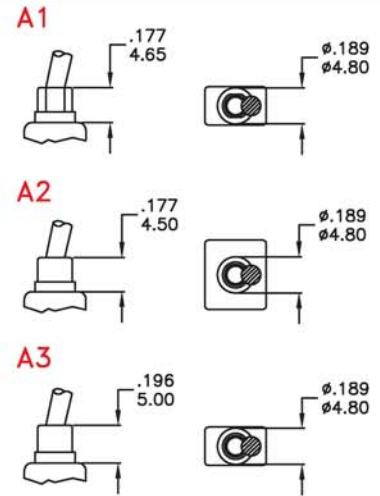


Actuator shown with A1 Bushing, sub .020(0.50) for A3 Bushing.



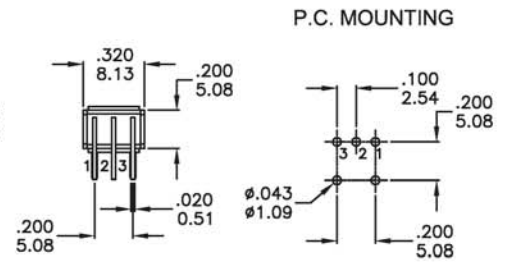
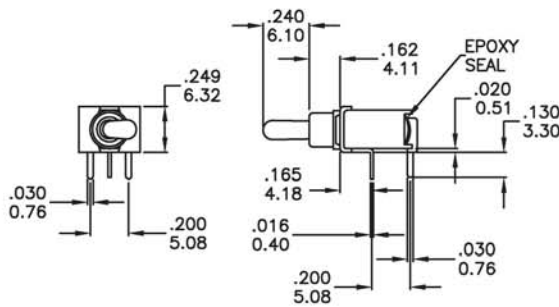
ESD PLASTIC ACTUATOR

BUSHING OPTIONS



A1 A3 FOR SPDT
A2 FOR DPDT

M6

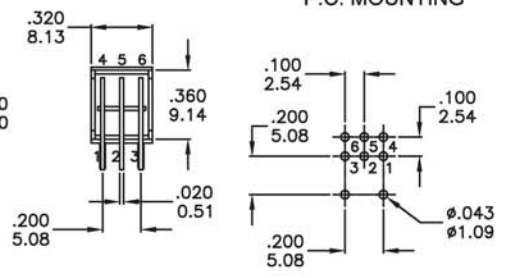
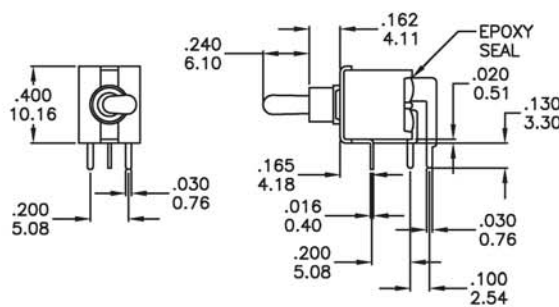


P.C. MOUNTING

SPDT

Part No. Shown : 2AS1T2A1M6RE

M6

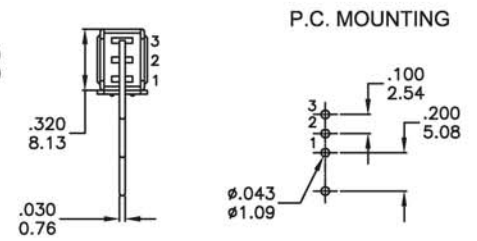
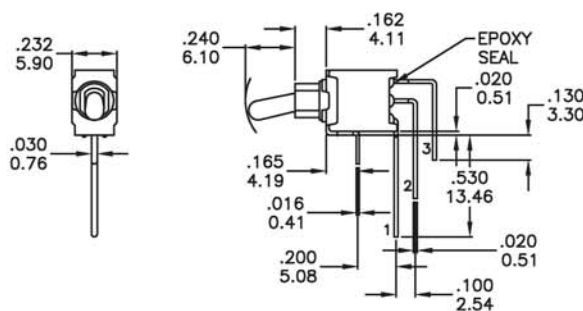


P.C. MOUNTING

DPDT

Part No. Shown : 2AD1T2A2M6RE

M7



P.C. MOUNTING

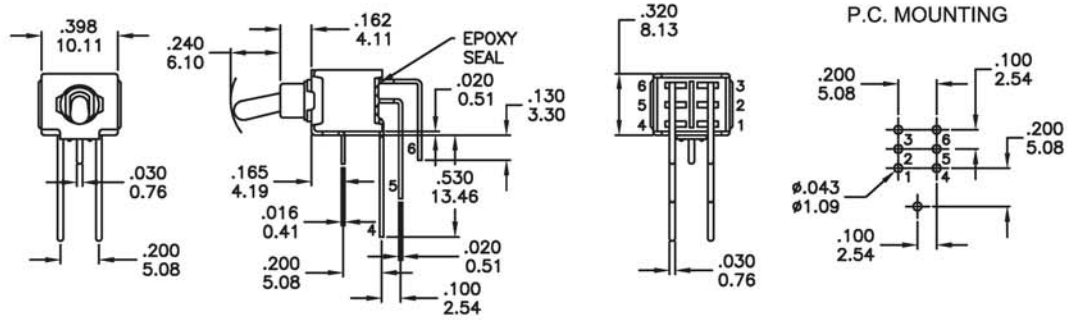
SPDT

Part No. Shown : 2AS3T2A1M7RE

M7



DPDT

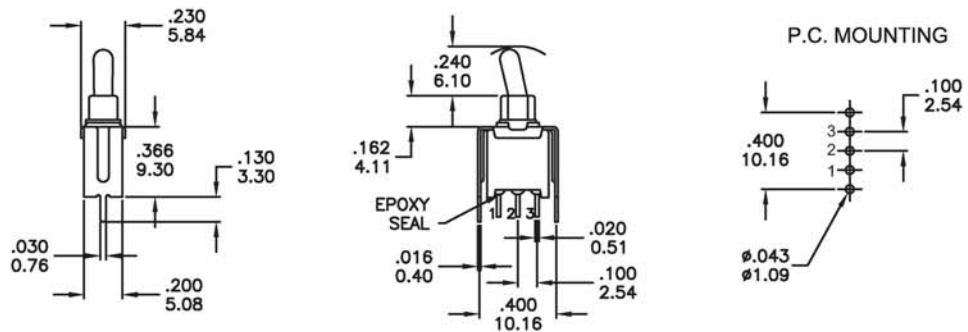


Part No. Shown : 2AD1T2A2M7RE

VS2



SPDT

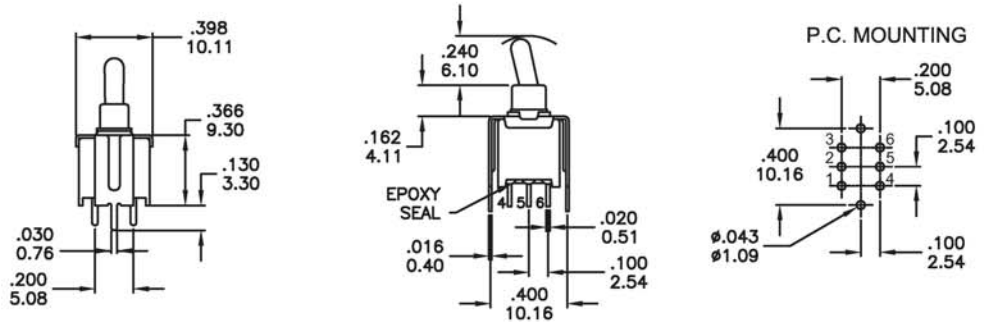


Part No. Shown : 2AS1T2A1VS2RE

VS2



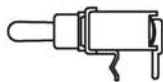
DPDT



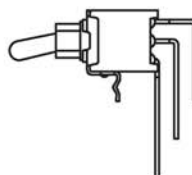
Part No. Shown : 2AD1T2A2VS2RE

SNAP-IN TERMINATION OPTIONS

M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINATION RATING	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	



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

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: 5 ±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

