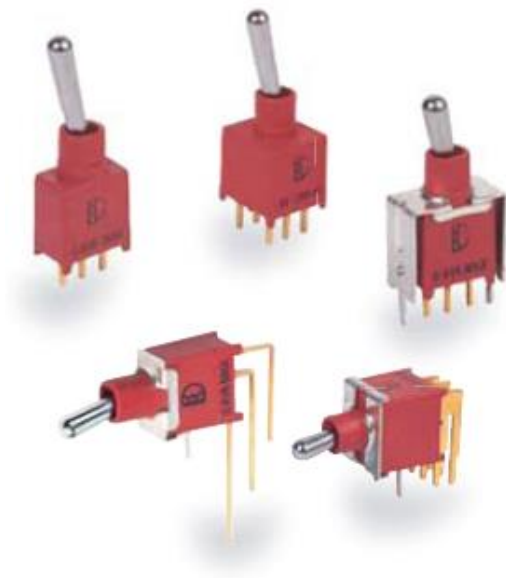


## Datasheet

### SPDT Toggle Switch On-On, PCB

RS Stock number [401-709](#)



#### SPECIFICATIONS

**CONTACT RATING:** Dependent upon contact material

**MECHANICAL LIFE:** 30,000 make-and-break cycles.

**CONTACT RESISTANCE:** 20 m $\Omega$  max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 1,000 M $\Omega$  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.

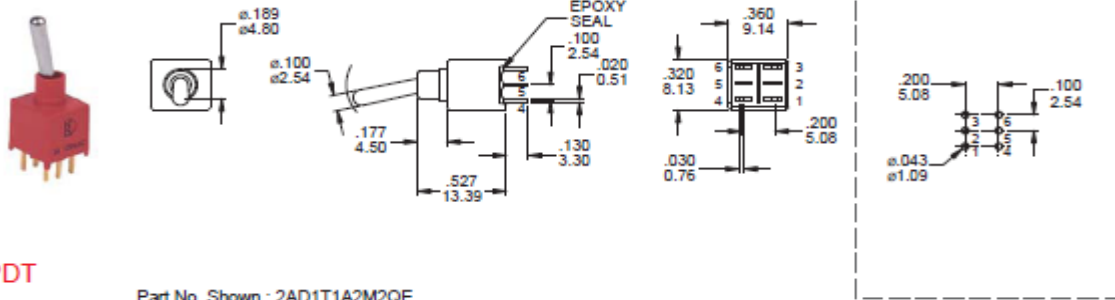
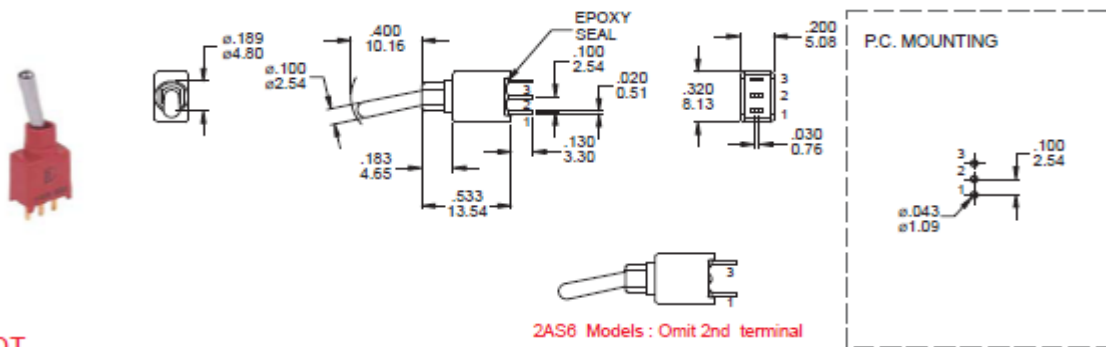
**SWITCH FUNCTION**

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			
	Q22A14	2AS4	MOM	OFF	MOM		OPEN	
	Q22A15	2AS5	ON	OFF	MOM			
	Q22A16	2AS6	OFF	NONE	ON	OPEN		
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	2-3,5-6		

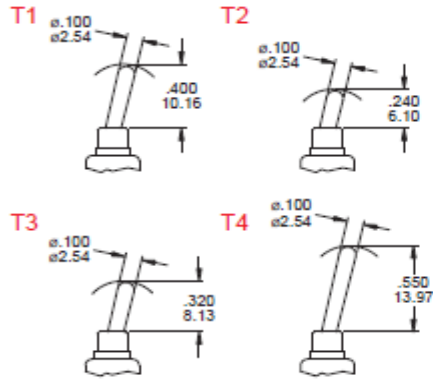
MOM=MOMENTARY

▲ Please check the availability in advance before order

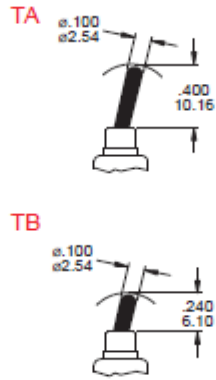
**POLE OPTIONS**



**ACTUATOR OPTIONS**

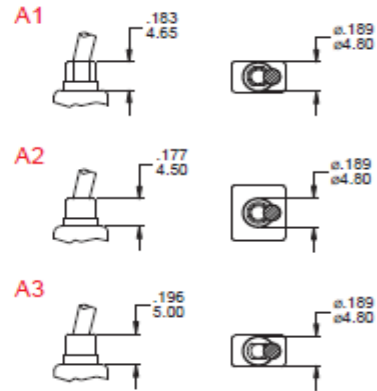


Actuator shown with A1 Bushing, sub .020 (0.50) for A3 Bushing.



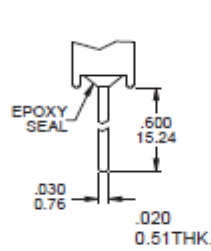
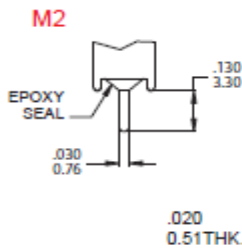
ESD  
PLASTIC ACTUATOR

**BUSHING OPTIONS**



A1, A3 FOR SPDT / A2 FOR DPDT

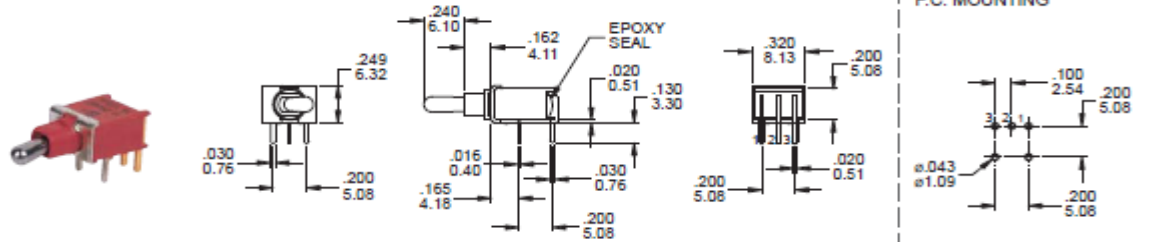
**TERMINATION OPTIONS**



**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

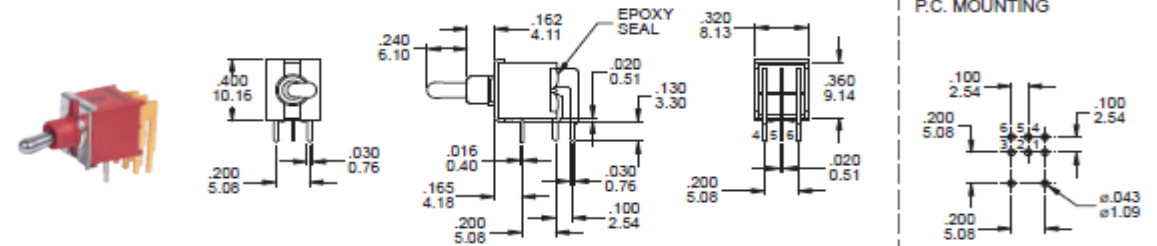
**M6**



**SPDT**

Part No. Shown : 2AS1T2A1M6QE

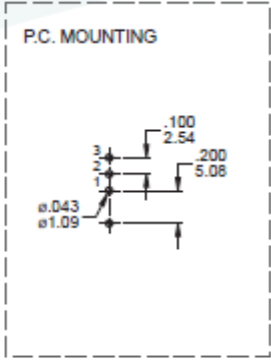
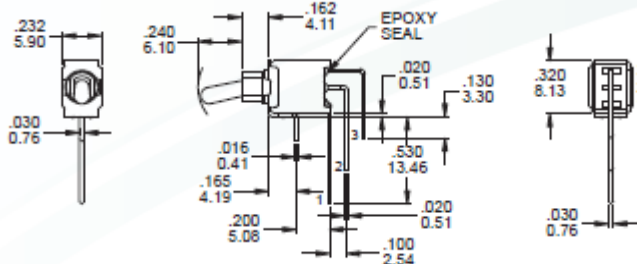
**M6**



**DPDT**

Part No. Shown : 2AD1T2A2M6RE

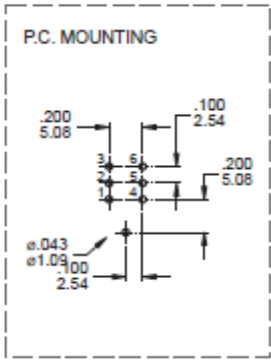
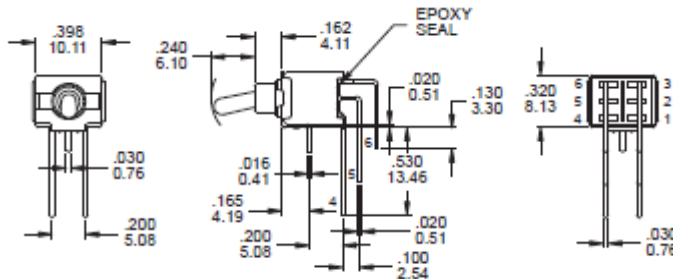
M7



SPDT

Part No. Shown : 2AS1T2A1M7RE

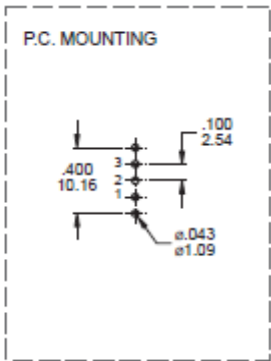
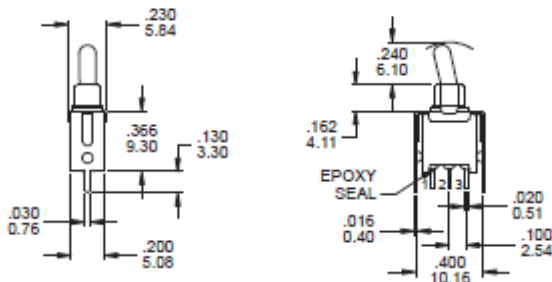
M7



DPDT

Part No. Shown : 2AD1T2A2M7QE

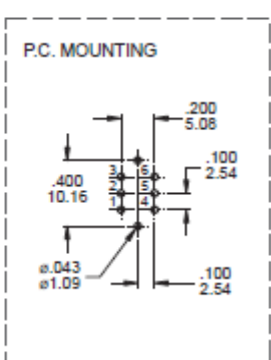
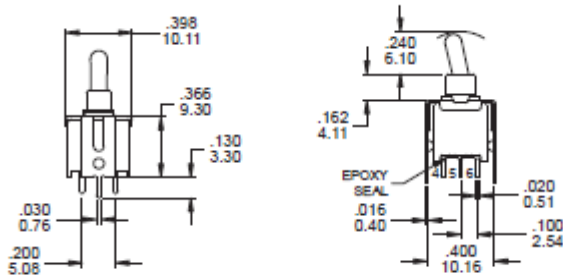
VS2



SPDT

Part No. Shown : 2AS1T2A1VS2RE

VS2



DPDT

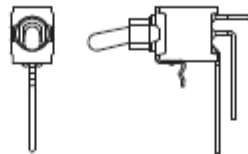
Part No. Shown : 2AD1T2A2VS2QE

**SNAP-IN TERMINATION OPTIONS**

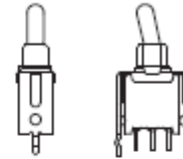
M6N



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)