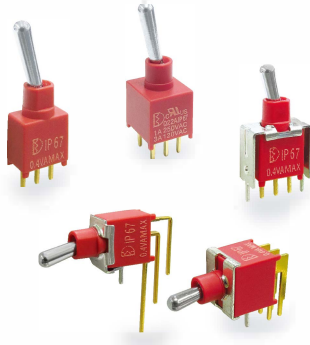


2A Series

Sealed Sub-Miniature Toggle Switches



2A
Toggle Switches



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

UL US
E 187490

RoHS
compliant



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: -40°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.

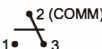
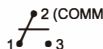
CONTACT / TERMINALS: Copper alloy with Silver or gold plated.
(See Page 34)

HOW TO ORDER

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

* 2AS6 model type not applicable to
M6/M6N/M7/M7N terminations

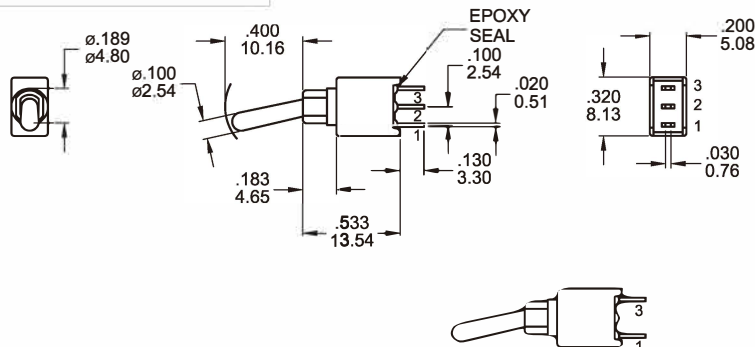
SWITCH FUNCTION

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

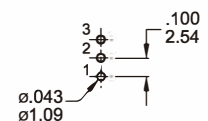
()=MOMENTARY

POLE OPTIONS

M2



P.C. MOUNTING

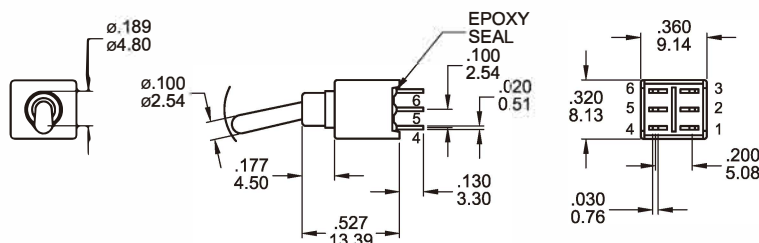


SPDT

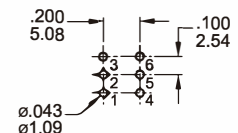
2AS6 Models : Omit 2nd terminal

Part No. Shown : 2AS1T1A1M2RES

M2



P.C. MOUNTING



DPDT

Part No. Shown : 2AD1T1A2M2QES

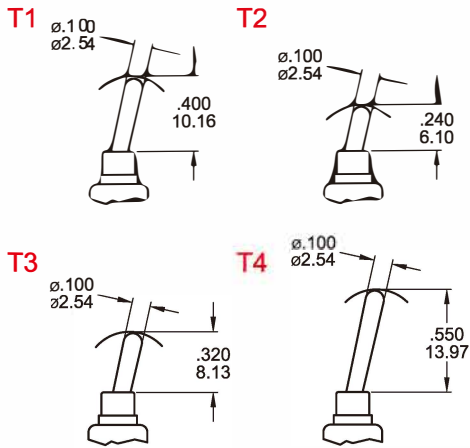


2A
Toggle Switches

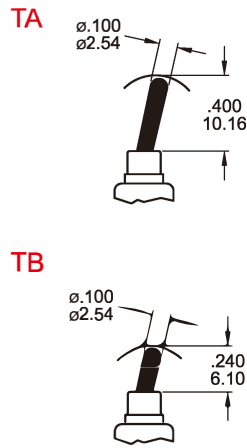
2A Series

Sealed Sub-Miniature Toggle Switches

ACTUATOR OPTIONS

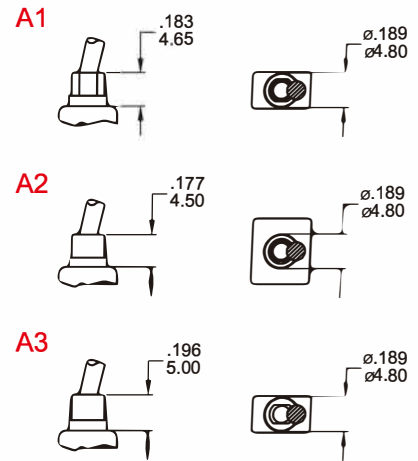


Actuator shown with A1 Bushing,
sub .020 (0.50) for A3 Bushing.



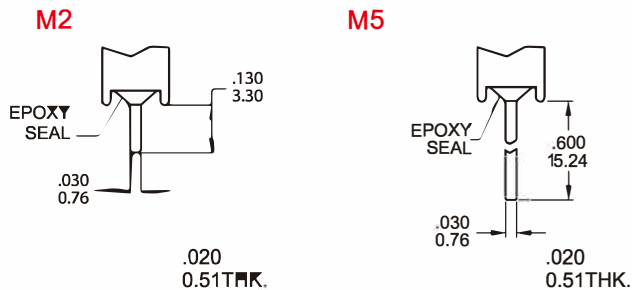
PLASTIC ACTUATOR

BUSHING OPTIONS



A1, A3 FOR SPDT / A2 FOR DPDT

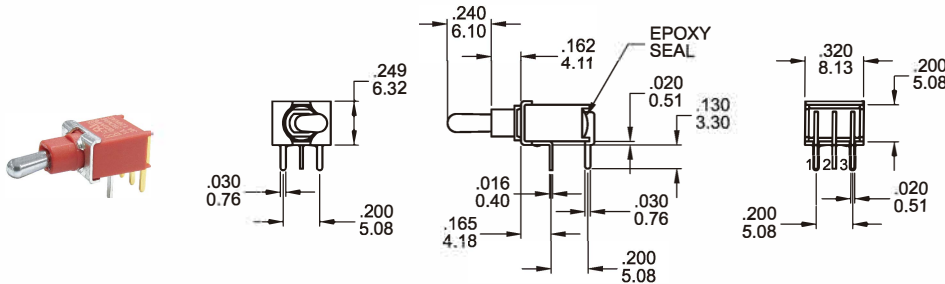
TERMINATION OPTIONS



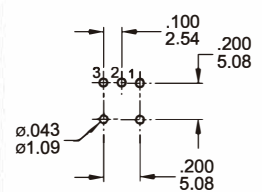
OTHER TERMINATION OPTIONS

- 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



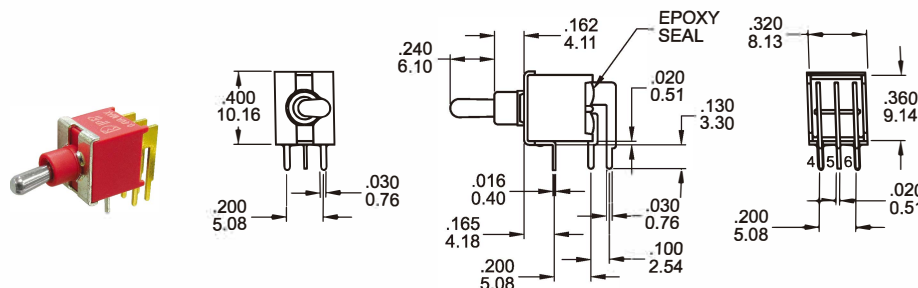
P.C. MOUNTING



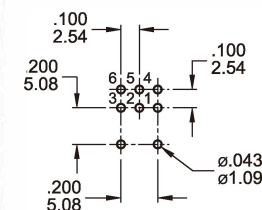
SPDT

Part No. Shown : 2AS1T2A1M6QES

M6



P.C. MOUNTING

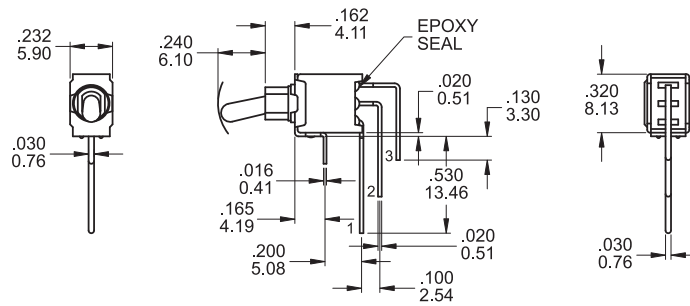


DPDT

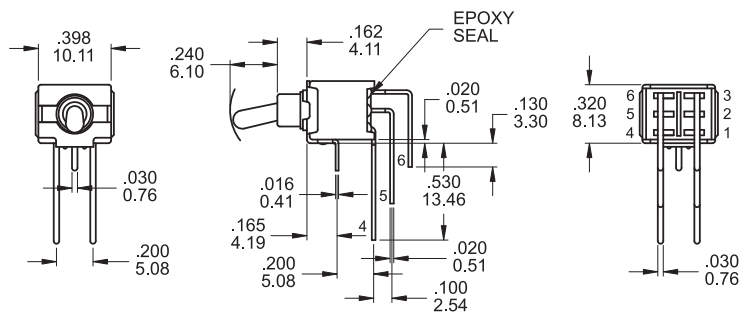
Part No. Shown : 2AD1T2A2M6RES

Sealed Sub-Miniature Toggle Switches

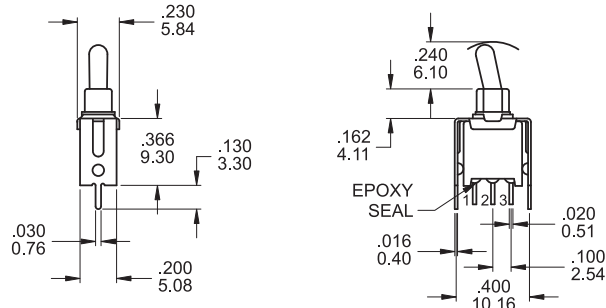
2A Toggle Switches



Part No. Shown : 2AS1T2A1M7RES



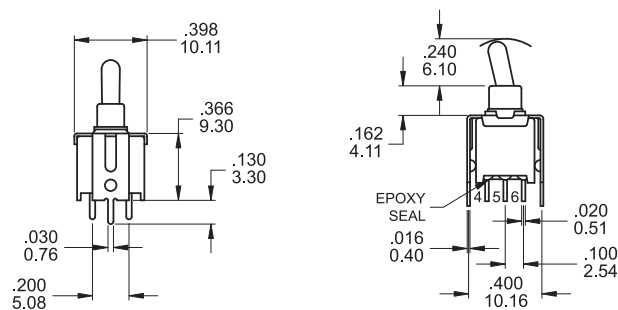
Part No. Shown : 2AD1T2A2M7QES



Part No. Shown : 2AS1T2A1VS2RES



A red DPDT switch with a silver knob and a red label. The label reads: "DPAUS 022A19T 1A 250VAC 3A 120VAC".



Part No. Shown : 2AD1T2A2VS2QES

2A Series

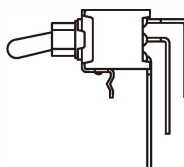
Sealed Sub-Miniature Toggle Switches

SNAP-IN TERMINATION OPTIONS

M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC
C	Gold over Silver	Gold over silver	1 Amps with resistant load @ 250VAC
R	Gold	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)



2A
Toggle Switches