2A Series

Sealed Sub-Miniature Toggle Switches



IP 67 ACCORDING TO EN 60529:1991+A1:2001 IEC 60529:2001 · c UL us E 187490 · RoHS compliant · 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: -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

E

Model NO.
2AS1 SP ON-NONE-ON
2AS2 SP ON-NONE-(ON)
2AS3 SP ON-OFF-ON
2AS4 SP (ON)-OFF-(ON)
2AS5 SP ON-OFF-(ON)
2AS6 SP OFF-NONE-ON
2AD1 DP ON-NONE-ON
2AD2 DP ON-NONE-(ON)
2AD3 DP ON-OFF-ON

Actuator
T1 10.16 high
T2 6.10 high
T3 8.13 high
T4 13.97 high
TA Plastic,Black 10.16 high
TB Plastic,Black 6.10 high

Bushing
A1 SP 4.65 high
A2 DP 4.50 high
A3 SP 5.00 high

Terminations
M2 PC thru-hole
M5 Wire wrap
M6 Right angle, PC thru-hole
M6N Right angle, snap-in, PC thru-hole
M7 Vertical right angle, PC thru-hole
M7N Vertical right angle, snap-in, PC thru-hole
VS2 9.30 high V-bracket
V2N 9.30 high Snap-in V-bracket

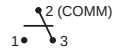
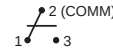
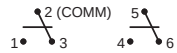
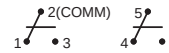
✻2AS6 model type not applicable to M6/M6N/M7/M7N terminations

Terminal plating
Q Gold flash over silver
R Gold
C Gold over silver

Seal
E EPOXY (std)

RoHS soldering
S RoHS & Lead Free

SWITCH FUNCTION

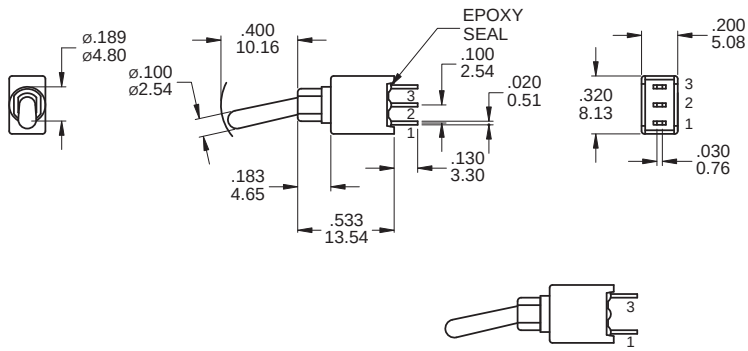
NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
								
SP	Q22A11	2AS1	ON	NONE	ON	2-3 	N/A	2-1 
	Q22A12	2AS2	ON	NONE	(ON)			
	Q22A13	2AS3	ON	OFF	ON		OPEN	
	Q22A14	2AS4	(ON)	OFF	(ON)			
	Q22A15	2AS5	ON	OFF	(ON)			
	Q22A16	2AS6	OFF	NONE	ON	OPEN	N/A	3-1
DP	Q22A21	2AD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4 
	Q22A22	2AD2	ON	NONE	(ON)			
	Q22A23	2AD3	ON	OFF	ON		OPEN	

( )=MOMENTARY

POLE OPTIONS

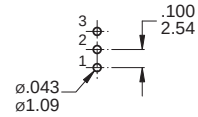
M2





2AS6 Models : Omit 2nd terminal

P.C. MOUNTING

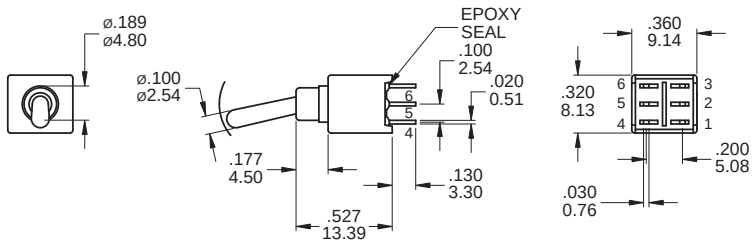


SPDT

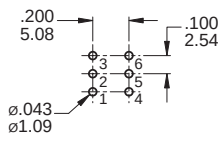
Part No. Shown : 2AS1T1A1M2RES

M2





P.C. MOUNTING



DPDT

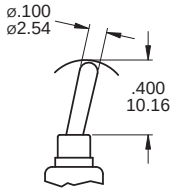
Part No. Shown : 2AD1T1A2M2QES

2A Series

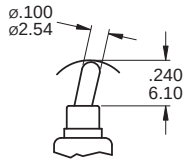
Sealed Sub-Miniature Toggle Switches

ACTUATOR OPTIONS

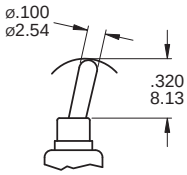
T1



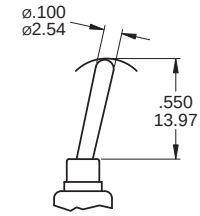
T2



T3

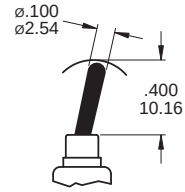


T4

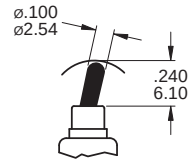


Actuator shown with A1 Bushing, sub .020 (0.50) for A3 Bushing.

TA



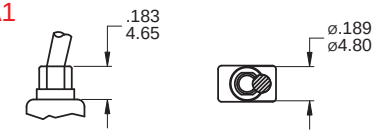
TB



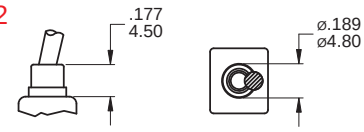
PLASTIC ACTUATOR

BUSHING OPTIONS

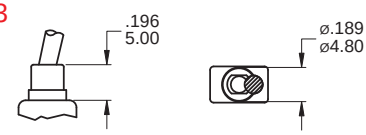
A1



A2



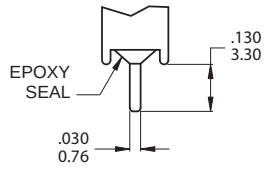
A3



A1, A3 FOR SPDT / A2 FOR DPDT

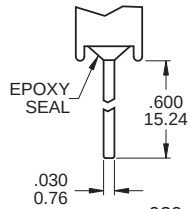
TERMINATION OPTIONS

M2



.020
0.51THK.

M5



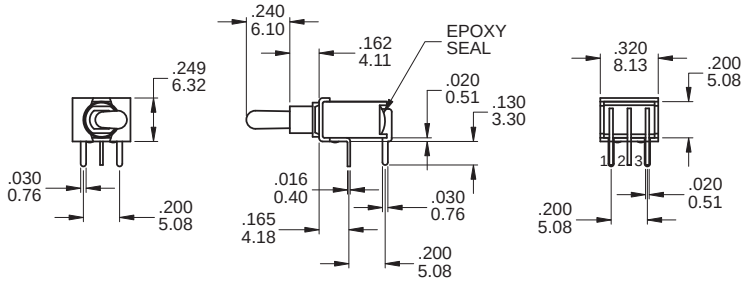
.020
0.51THK.

OTHER TERMINATION OPTIONS

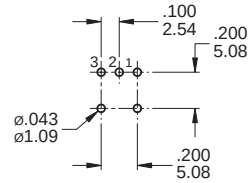
M6	Right angle P.C. Mount
M6N	Right angle P.C. Mount Snap-in bracket
M7	Vertical right angle P.C. Mount
M7N	Vertical right angle P.C. Mount Snap-in bracket
VS2	Vertical bracket P.C. Mount

M6





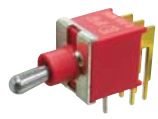
P.C. MOUNTING

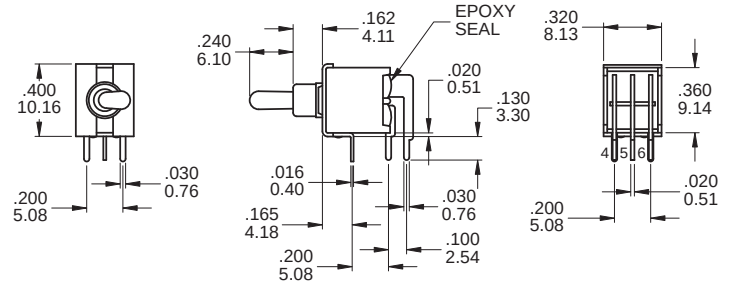


SPDT

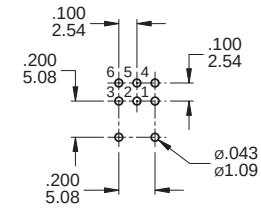
Part No. Shown : 2AS1T2A1M6QES

M6





P.C. MOUNTING



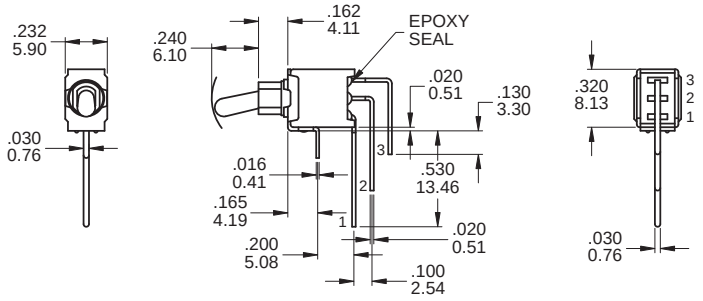
DPDT

Part No. Shown : 2AD1T2A2M6RES

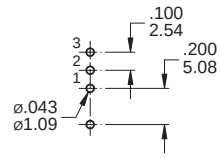
We have invented the rules
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M7





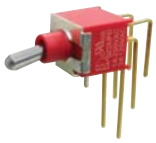
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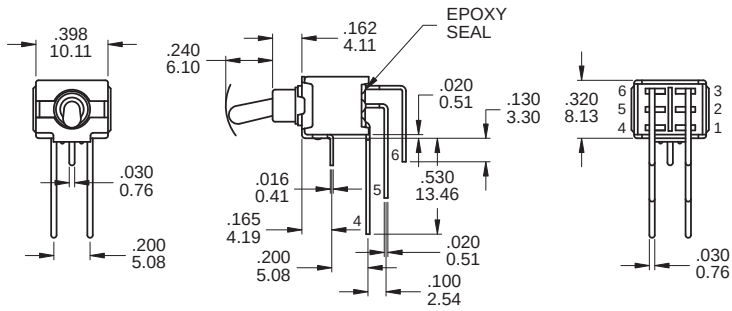


SPDT

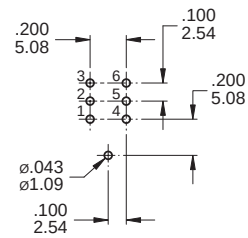
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M7





P.C. MOUNTING

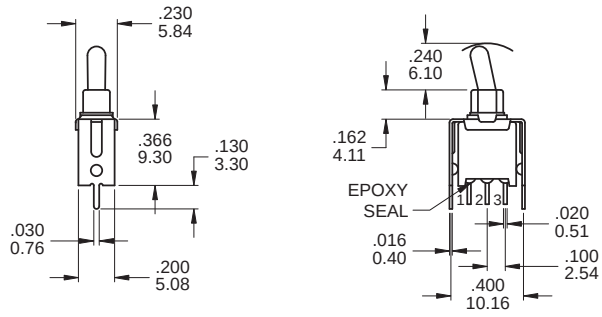


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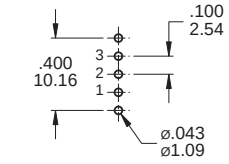
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VS2





P.C. MOUNTING

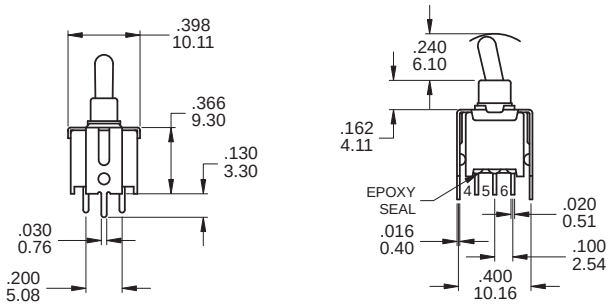


SPDT

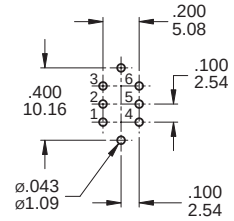
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VS2





P.C. MOUNTING



DPDT

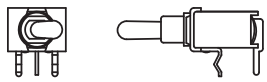
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2A Series

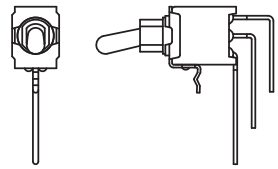
Sealed Sub-Miniature Toggle Switches

SNAP-IN TERMINATION OPTIONS

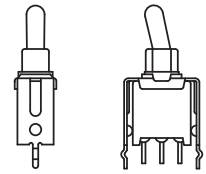
M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dailywell:

2AD1T1A02M2QES 2AD3T2A02M2QES 2AS1T2A1M7RES 2AS1T3A01M2QES 2AS3T1A01M2QES 2AS3T2A1M2RES 2AS3T2A1M6RES 2AD3T3A02M2QES 2AS1T1A01M2QES 2AS1T1A01M6QES 2AS1T1A1M2RES 2AS1T2A1M2RES 2AS1T2A1M6RES