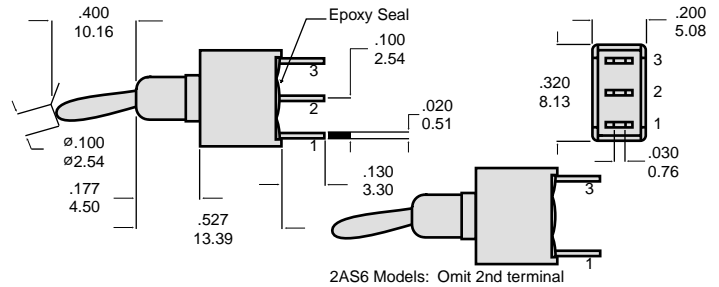
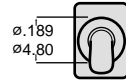


# 2A Series Sealed Sub-Miniature Toggle Switch



| No. Poles | Model No. | SWITCH FUNCTION |        |        | CONNECTED TERMINALS |        |        |
|-----------|-----------|-----------------|--------|--------|---------------------|--------|--------|
|           |           | Pos. 1          | Pos. 2 | Pos. 3 | Pos. 1              | Pos. 2 | Pos. 3 |
|           |           |                 |        |        |                     |        |        |
| SP        | 2AS1      | On              | None   | On     |                     | OPEN   |        |
|           | 2AS2      | On              | None   | MOM    |                     |        |        |
|           | 2AS3      | On              | Off    | On     |                     |        |        |
|           | 2AS4      | MOM             | Off    | MOM    |                     |        |        |
|           | 2AS5      | On              | Off    | MOM    |                     |        |        |
|           | 2AS6      | Off             | None   | On     |                     |        |        |

MOM=Momentary

## Specifications

**Contact Rating:** Dependent upon contact material.

**Electrical Life:** 50,000 make-and-break cycles at full load.

**Contact Resistance:** 20m  $\Omega$  max. initial @ 2-4VDC  
100mA for both silver and gold plated contacts.

**Insulation Resistance:** 1,000m  $\Omega$  min.

**Dielectric Strength:** 1000 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.

**Terminals/Contacts:** Silver or gold plated copper alloy.

## Ordering Information

| Model No. | Actuator | Bushing | Termination | Contact Material | Seal    |
|-----------|----------|---------|-------------|------------------|---------|
| 2AS1      | T1       | A1=SP   | M2          | Q=Silver         | E=Epoxy |
| 2AS2      | T2       | A2=DP   | M6          | R=Gold           |         |
| 2AS3      | T3       |         | M6N         |                  |         |
| 2AS4      | T4       |         | M7          |                  |         |
| 2AS5      | TA       |         | M7N         |                  |         |
| 2AS6      | TB       |         | NS2         |                  |         |
|           |          |         | V2N         |                  |         |

### Contact Material Options

**Q**  
**Fixed Terminal:** Silver plate over copper alloy  
**Moving Contact:** Silver plate over copper alloy  
**Rating:** 3 Amps @ 120VAC or 28VDC;  
1 Amp @ 250VAC

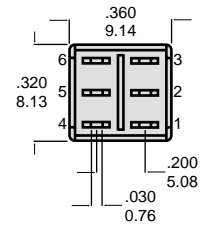
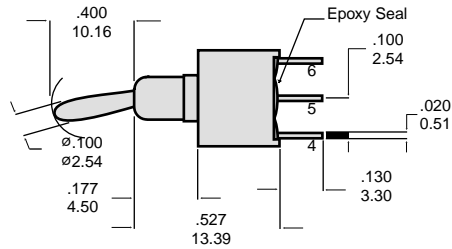
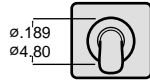
**R**  
**Fixed Terminal:** Copper alloy with gold plate over nickel plate  
**Moving Contact:** Copper alloy with gold plate over nickel plate  
**Rating:** 0.4 VA max. @ 20 VAC or DC max.



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MADE IN U.S.A.

# 2A Series Sealed Sub-Miniature Toggle Switch



| No. Poles | Model No. | SWITCH FUNCTION |        |        | CONNECTED TERMINALS |        |          |
|-----------|-----------|-----------------|--------|--------|---------------------|--------|----------|
|           |           | Pos. 1          | Pos. 2 | Pos. 3 | Pos. 1              | Pos. 2 | Pos. 3   |
|           |           |                 |        |        |                     |        |          |
| DP        | 2AD1      | On              | None   | On     | 2-3,5-6             |        | 2-1,5-4  |
|           | 2AD2      | On              | None   | MOM    | 2 (COMM)            |        | 2 (COMM) |
|           | 2AD3      | On              | Off    | On     |                     | OPEN   |          |

MOM=Momentary

Specifications and Materials: See page 1.

## Ordering Information

| Model No.            | Actuator                         | Bushing        | Termination                                | Contact Material   | Seal    |
|----------------------|----------------------------------|----------------|--------------------------------------------|--------------------|---------|
| 2AD1<br>2AD2<br>2AD3 | T1<br>T2<br>T3<br>T4<br>TA<br>TB | A1=SP<br>A2=DP | M2<br>M6<br>M6N<br>M7<br>M7N<br>NS2<br>V2N | Q=Silver<br>R=Gold | E=Epoxy |

### Contact Material Options

**Q**  
**Fixed Terminal:** Silver plate over copper alloy  
**Moving Contact:** Silver plate over copper alloy  
**Rating:** 3 Amps @ 120VAC or 28VDC;  
 1 Amp @ 250VAC

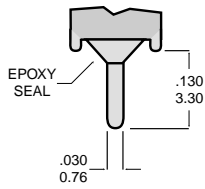
**R**  
**Fixed Terminal:** Copper alloy with gold plate over nickel plate  
**Moving Contact:** Copper alloy with gold plate over nickel plate  
**Rating:** 0.4 VA max. @ 20 VAC or DC max.



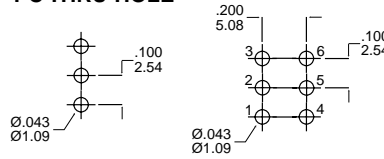
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# 2A Series Sealed Sub-Miniature Toggle Switch Termination Options

M2



PC THRU-HOLE

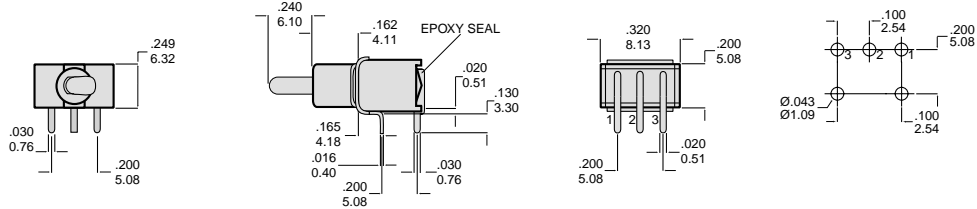


OTHER TERMINATION OPTIONS

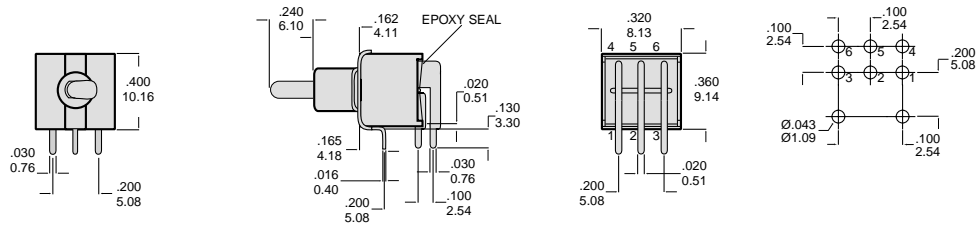
- M6 RIGHT ANGLE PC THRU-HOLE
- M6N RIGHT ANGLE PC THRU-HOLE
- SNAP-IN BRACKET
- M7 RIGHT ANGLE PC THRU-HOLE
- VS2 VERTICAL BRACKET PC THRU-HOLE

## Termination Drawing Options

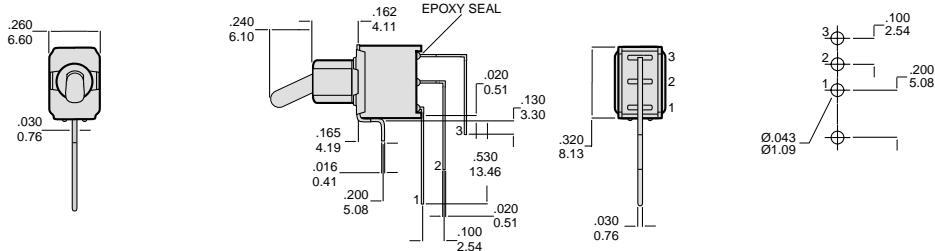
M6 SPDT



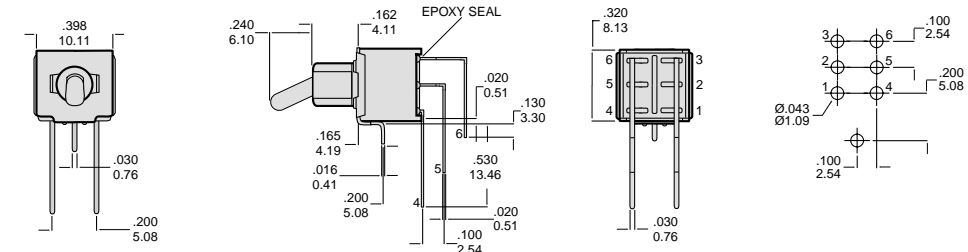
M6 DPDT



M7 SPDT

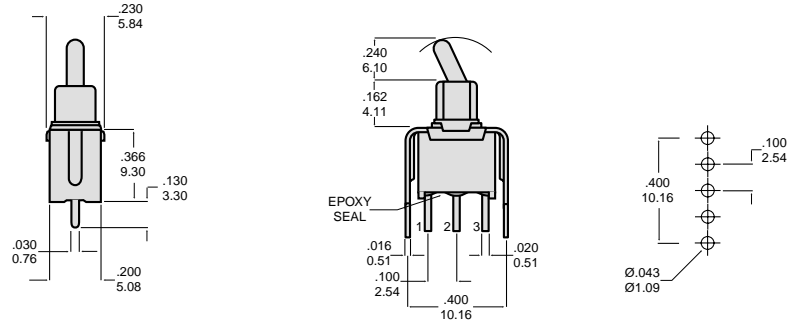


M7 DPDT

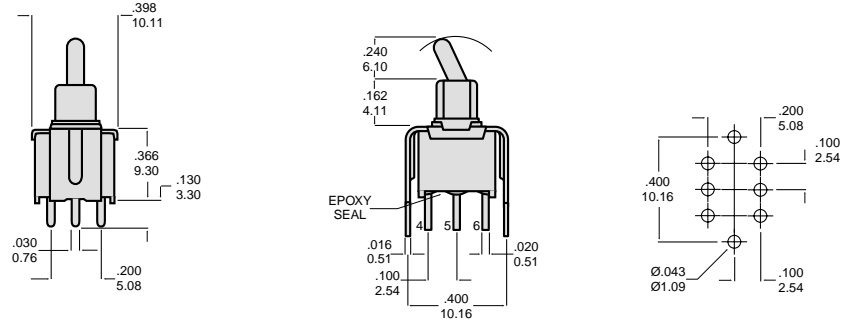


# Termination Drawing Options (continued)

## VS2 SPDT

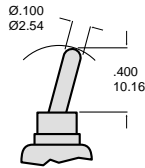


## VS2 DPDT

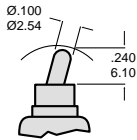


# Actuator Options

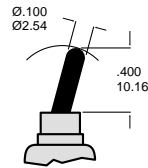
T1



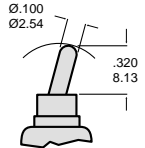
T2



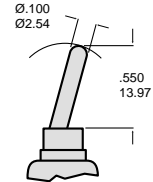
TA



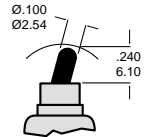
T3



T4



TB

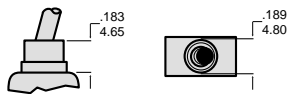


Actuator shown with A1 Bushing, add 0.006 (0.15) for A2 Bushing.

ESD PLASTIC ACTUATOR

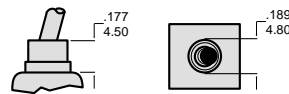
# Bushing Options

A1



A1 FOR SPDT

A2



A2 FOR DPDT