

IP 67
ACCORDING TO
EN 60529:1989+AA1:2001
IEC 60529:2001

UL US
E 187490

RoHS
compliant

Pb
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).

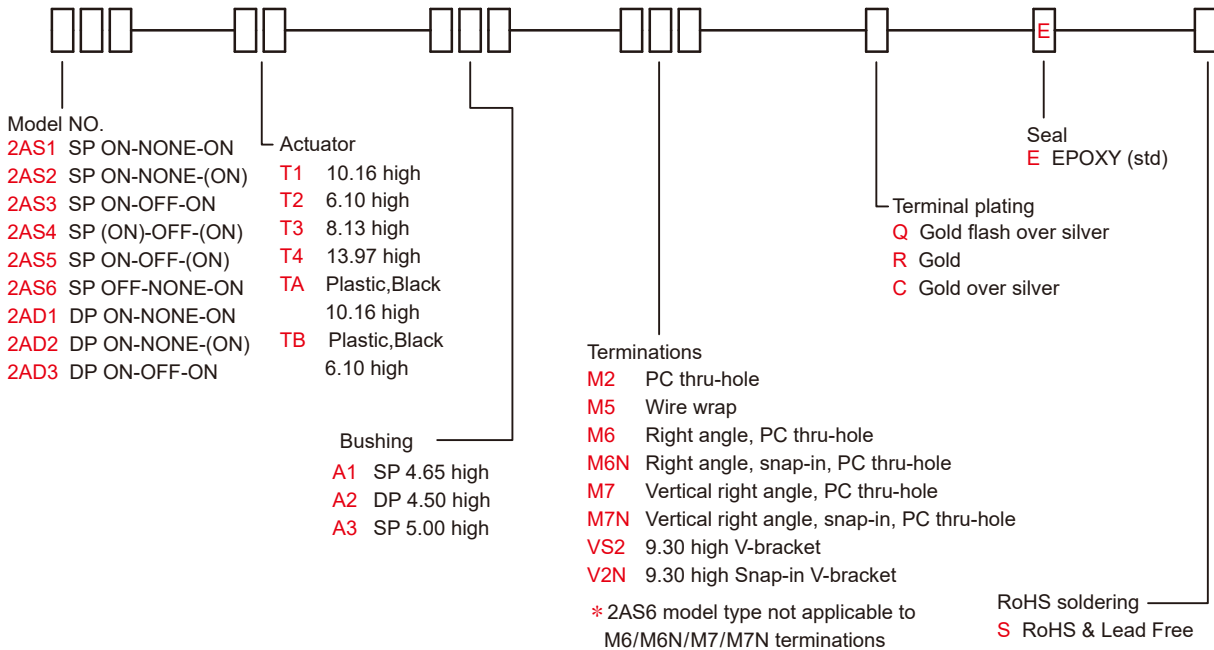
ACTUATOR: Brass, chrome plated, internal O-ring seal.
Standard for all actuators.

SWITCH SUPPORT: Brass, tin plated.

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

HOW TO ORDER

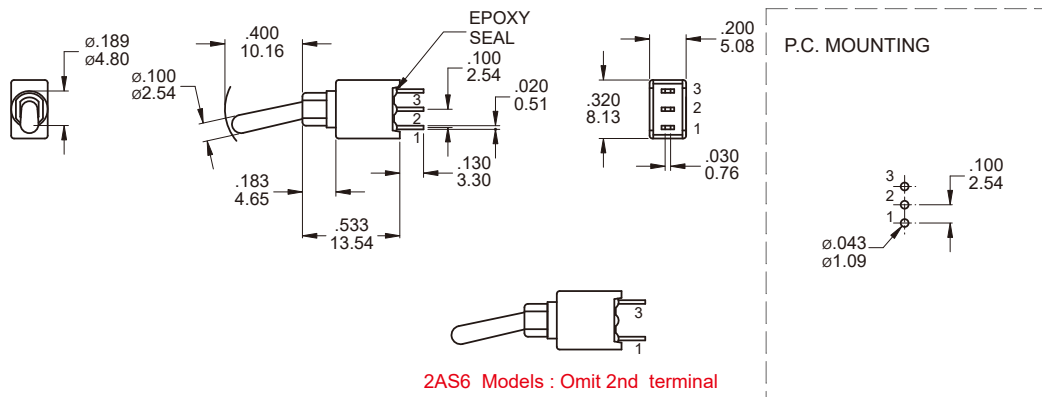
| MODEL NO. | ACTUATOR | BUSHING | TERMINATIONS | TERMINAL PLATING | SEAL | RoHS SOLDERING |
|-----------|----------|---------|--------------|------------------|------|----------------|
|-----------|----------|---------|--------------|------------------|------|----------------|



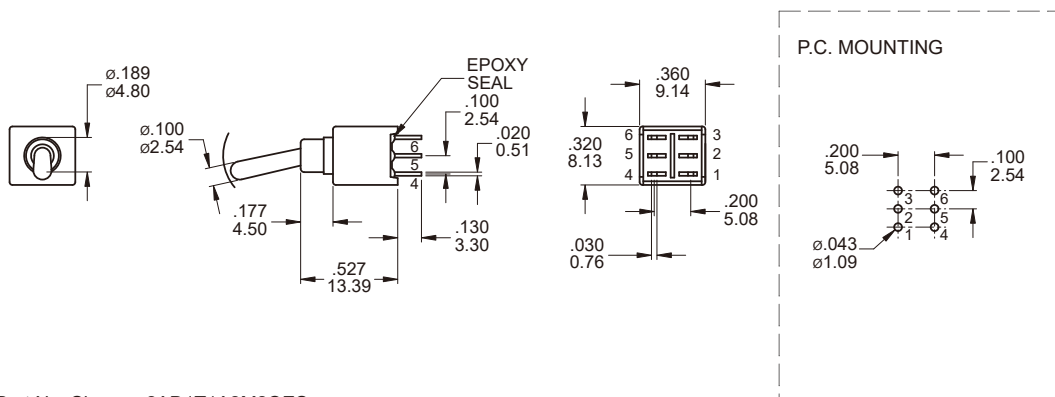
SWITCH FUNCTION

| 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) | 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 | (ON) | | | |
| | Q22A23 | 2AD3 | ON | OFF | ON | | | |

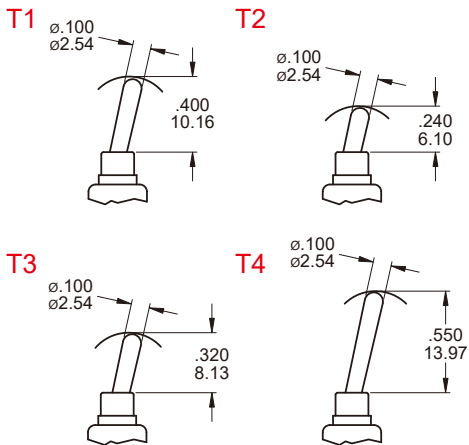
()=MOMENTARY

POLE OPTIONS
M2

SPDT

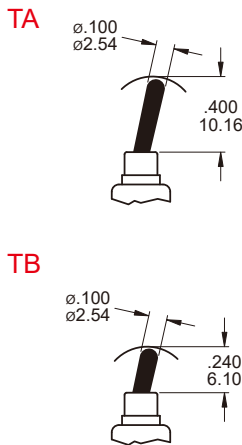
Part No. Shown : 2AS1T1A1M2RES

M2

DPDT

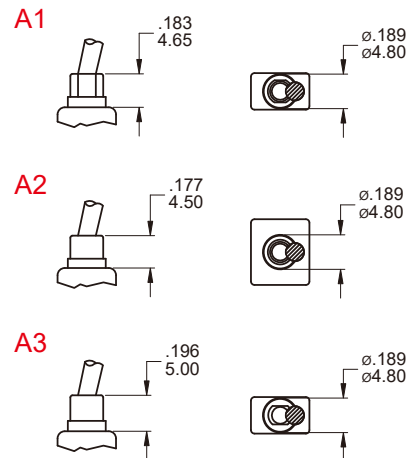
Part No. Shown : 2AD1T1A2M2QES

ACTUATOR OPTIONS


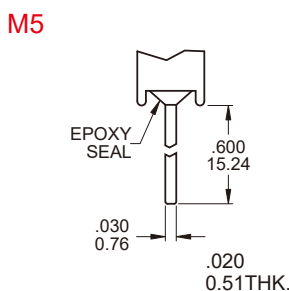
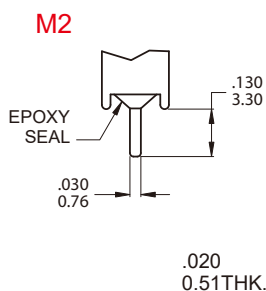
Actuator shown with A1 Bushing,
sub .020 (0.50) for A3 Bushing.



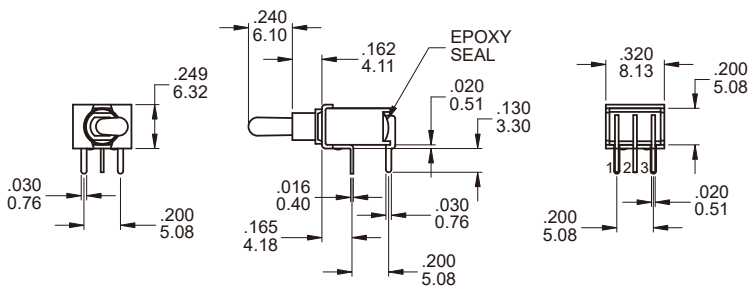
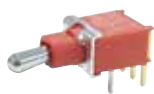
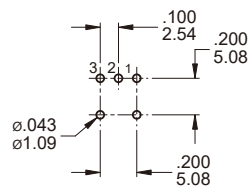
PLASTIC ACTUATOR

BUSHING OPTIONS


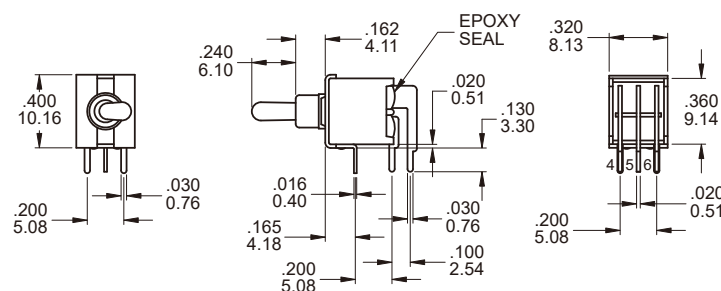
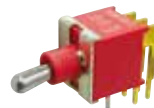
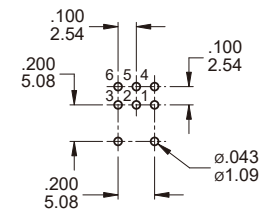
A1, A3 FOR SPDT / A2 FOR DPDT

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

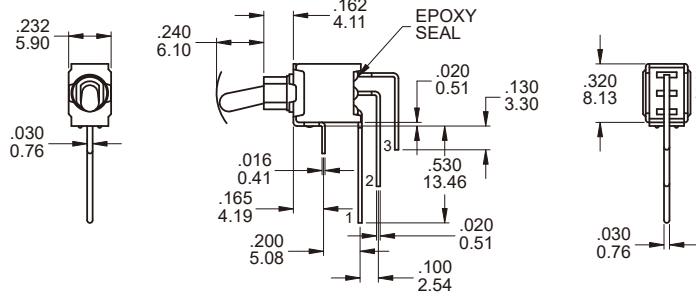
Part No. Shown : 2AS1T2A1M6QES

M6

P.C. MOUNTING

DPDT

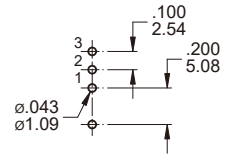
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M7



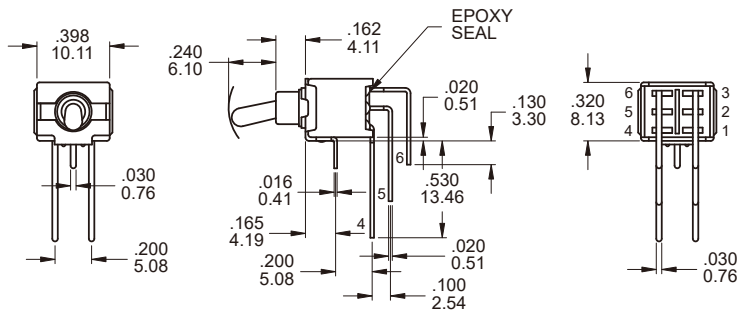
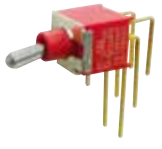
P.C. MOUNTING



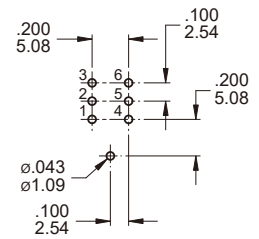
SPDT

Part No. Shown : 2AS1T2A1M7RES

M7



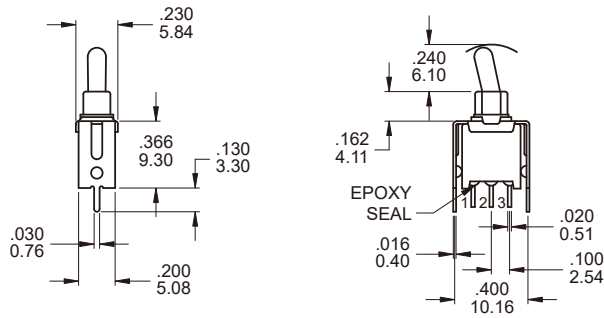
P.C. MOUNTING



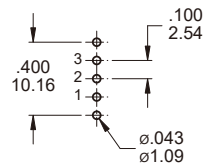
DPDT

Part No. Shown : 2AD1T2A2M7QES

VS2



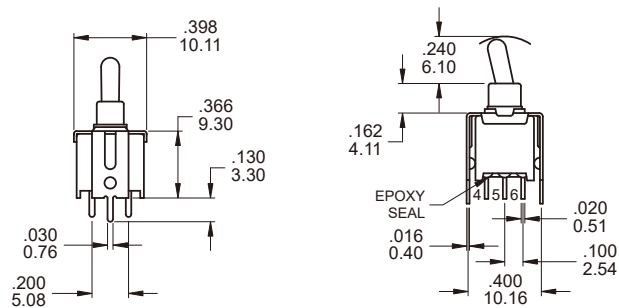
P.C. MOUNTING



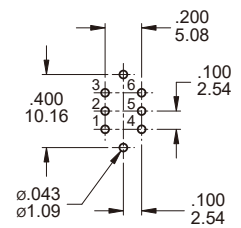
SPDT

Part No. Shown : 2AS1T2A1VS2RES

VS2

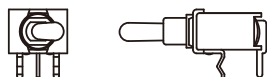
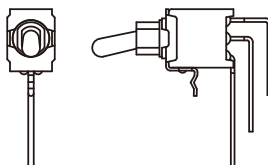
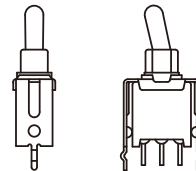


P.C. MOUNTING



DPDT

Part No. Shown : 2AD1T2A2VS2QES

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)