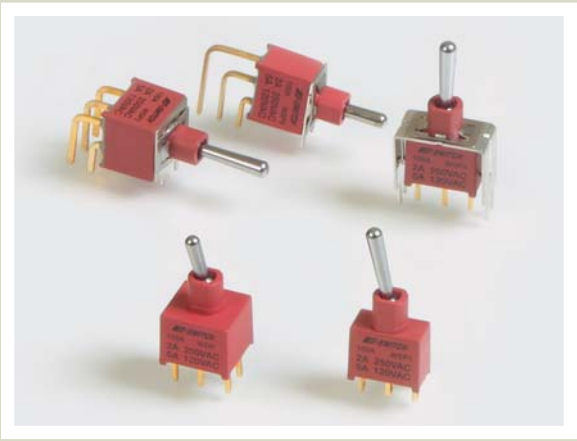
# SERIES 100A SWITCHES

## TOGGLE SWITCHES - MINIATURE





### FEATURES & BENEFITS

- Variety of switching functions
- Miniature
- Multiple actuator & bushing options
- Sealed to IP67

### APPLICATIONS/MARKETS

- Telecommunications
- Instrumentation
- Networking
- Medical equipment

### SPECIFICATIONS

| | |
|---|---|
| Contact Rating: | Dependent upon contact material |
| Life Expectancy: | 30,000 make-and-break cycles at full load |
| Contact Resistance: | 10 m□1max. typical initial @ 2-4 VDC 100 mA for both silver and gold plated contacts |
| Insulation Resistance: | 1,000 M□1min. |
| Dielectric Strength: | 1,000 V RMS @ sea level |
| Operating Temperature: | -30° C to 85° C |

### MATERIALS

| | |
|---|---|
| Case & Bushing: | PBT |
| Pedestal of Case: | LPC |
| Actuator: | Brass, chrome plated with internal O-ring seal |
| Switch Support: | Brass or steel tin plated |
| Contacts / Terminals: | Silver or gold plated copper alloy |

### HOW TO ORDER

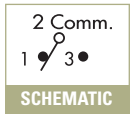
| SERIES | MODEL NO. | ACTUATOR | BUSHING | TERMINATION | CONTACT MATERIAL | SEAL | HARDWARE |
|---|---|---|---|---|---|---|---|
| 100A | | | | | | E | |
| | WSP1<br>WSP2<br>WSP3<br>WSP4<br>WSP5<br>WDP1<br>WDP2<br>WDP3<br>WDP4<br>WDP5 | T1<br>T2 | B1<br>B4 | M1<br>M2<br>M5<br>M6<br>M7<br>VS2<br>VS3 | Q = Silver<br>R = Gold | E = Epoxy Sealed at Base of Terminal | H = Hardware |

**Example Ordering Number**

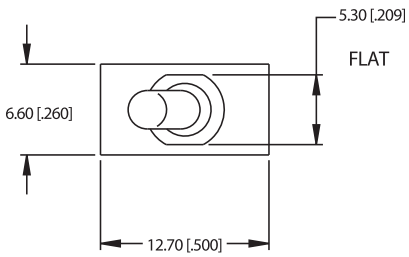
100A–WDP4–T1–B4–M1–R–E

Specifications subject to change without notice.

## SPDT



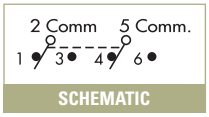
SCHEMATIC



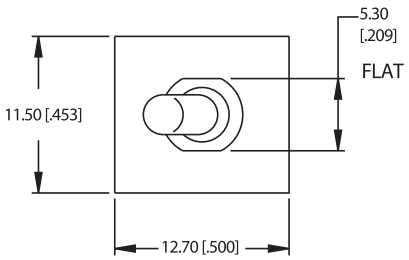

| Model No. | POS 1 | POS 2 | POS 3 |
|---|---|---|---|
| WSP-1 | ON | NONE | ON |
| WSP-2 | ON | NONE | (ON) |
| WSP-3 | ON | OFF | ON |
| WSP-4 | (ON) | OFF | (ON) |
| WSP-5 | ON | OFF | (ON) |
| Term. Comm. | 2-3 | OPEN | 2-1 |

( ) = Momentary

# DPDT




SCHEMATIC

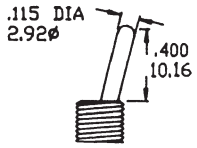



| Model No. | POS 1 | POS 2 | POS 3 |
|---|---|---|---|
| WDP-1 | ON | NONE | ON |
| WDP-2 | ON | NONE | (ON) |
| WDP-3 | ON | OFF | ON |
| WDP-4 | (ON) | OFF | (ON) |
| WDP-5 | ON | OFF | (ON) |
| Term. Comm. | 2-3, 5-6 | OPEN | 2-1, 5-4 |

( ) = Momentary

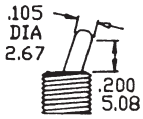
## ACTUATOR OPTIONS

**T1**




T1 actuator std. when ordered with M1 termination.
Add 0.100 (2.54) for B4 bushing.

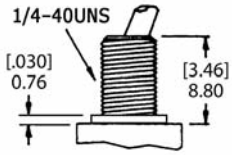
**T2**




T2 actuator std. when ordered with VS, M2, M6 or M7 terminations.
Add 0.100 (2.54) for B4 bushing.

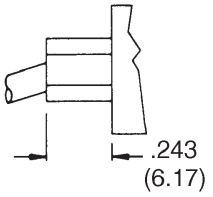
## BUSHING OPTIONS

**B1**




Std for M1

**B4**




Std for M2, M6, M7, VS termination

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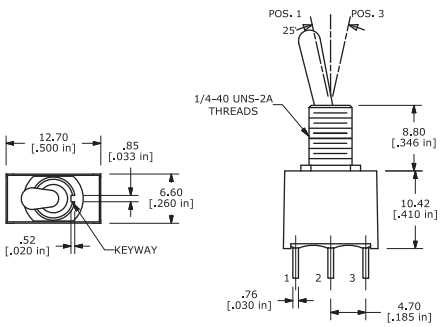
## TOGGLE SWITCHES - MINIATURE

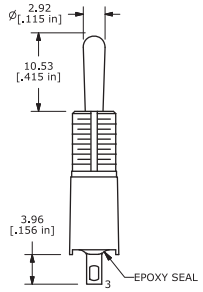


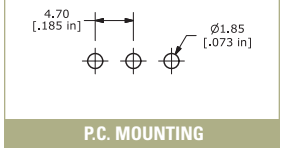
### TERMINATION OPTIONS

#### M1

SPDT



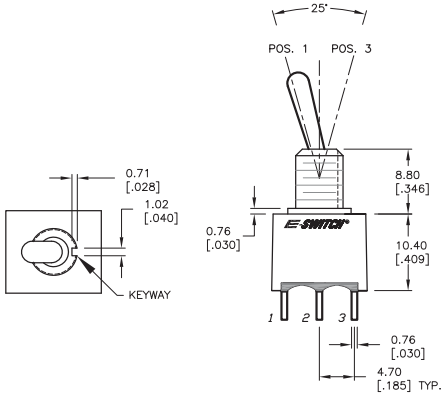



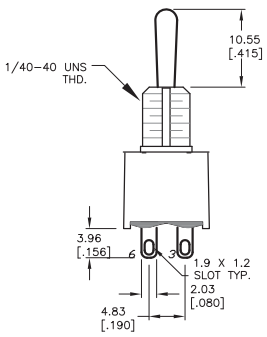



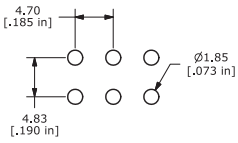

P.C. MOUNTING

#### M1

DPDT



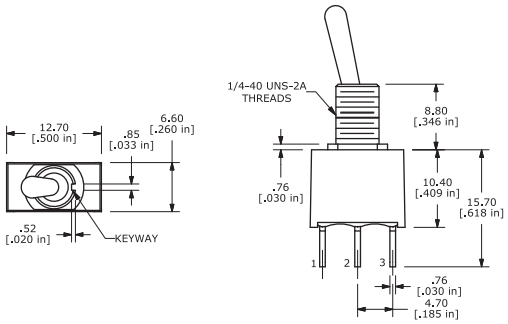



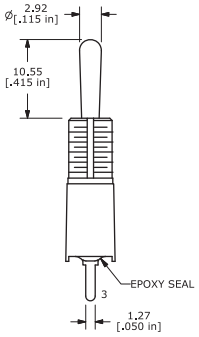



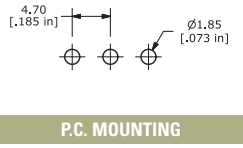

P.C. MOUNTING

#### M2

SPDT



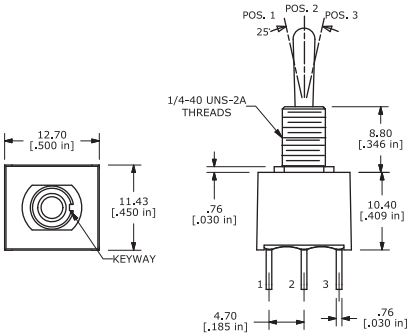



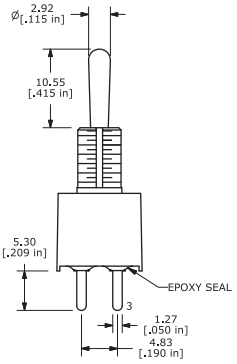



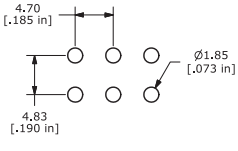

P.C. MOUNTING

#### M2

DPDT



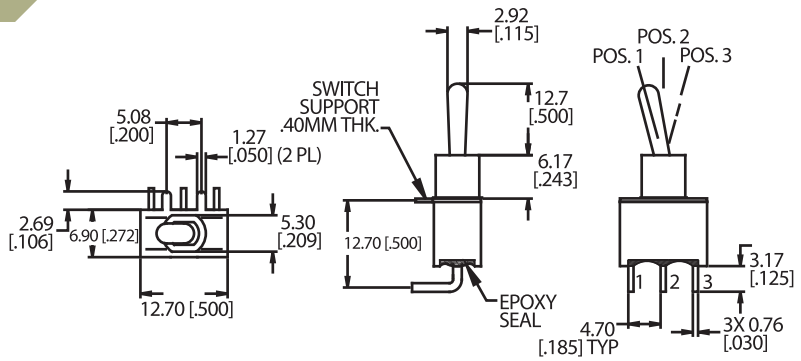



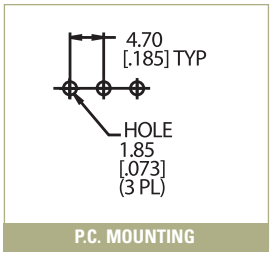




P.C. MOUNTING

## M6

SPDT

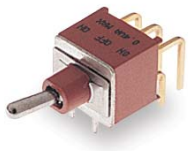


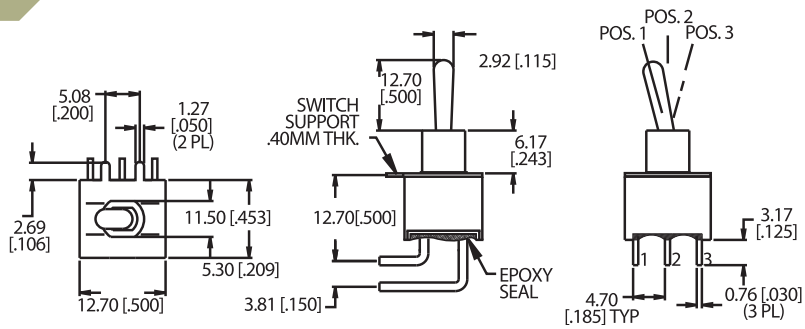



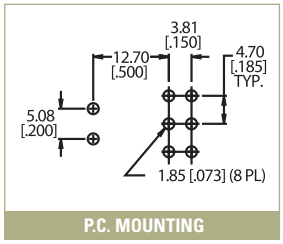

P.C. MOUNTING

## M6

DPDT



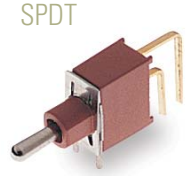


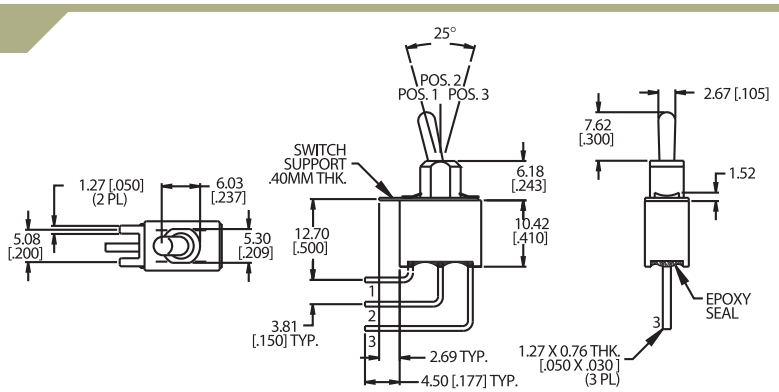



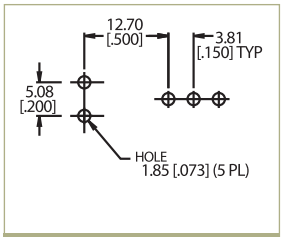

P.C. MOUNTING

## M7

SPDT



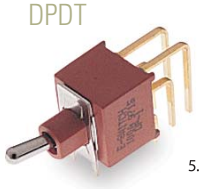


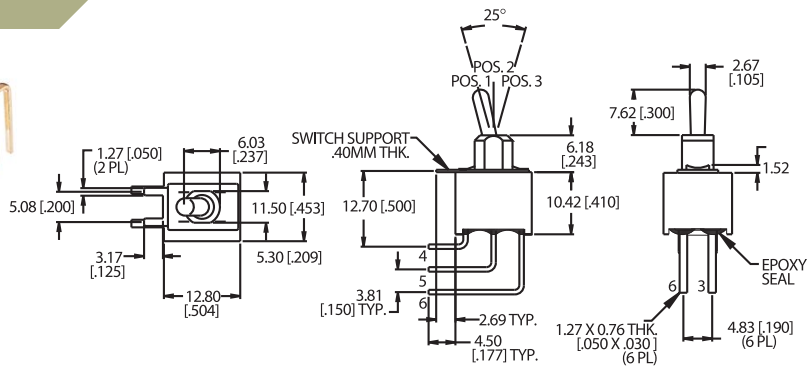



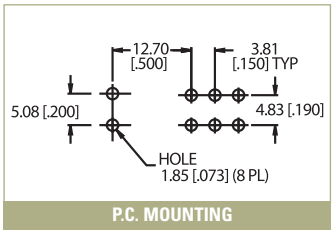

P.C. MOUNTING

## M7

DPDT





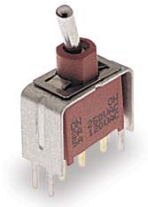

P.C. MOUNTING

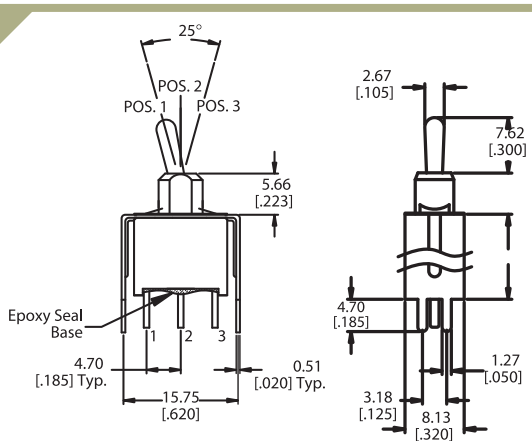
# SERIES 100A SWITCHES

## TOGGLE SWITCHES - MINIATURE

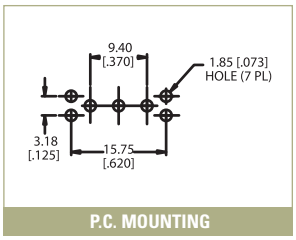
### VS2-VS3

SPDT





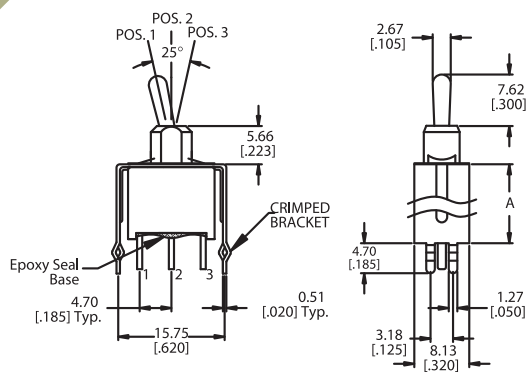

| Option Code | Dim. 'A' |
|---|---|
| VS2 | .460 (11.68) |
| VS3 | .630 (16.00) |




P.C. MOUNTING

### VS2-VS3

DPDT

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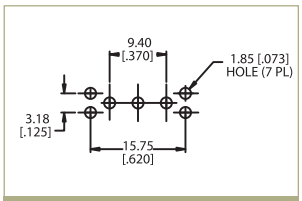



P.C. MOUNTING

## CONTACT MATERIAL OPTIONS

**Q**

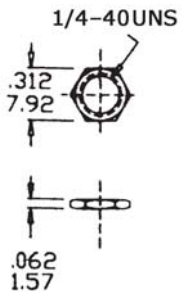
| | |
|---|---|
| Fixed Terminal: | Gold flash over silver plated copper alloy |
| Moving Contact: | Silver plated copper alloy |
| Rating: | 5 Amps with resistive load @ 120VAC or 28VDC;<br>2 Amps with resistive load @ 250VAC |

**R**

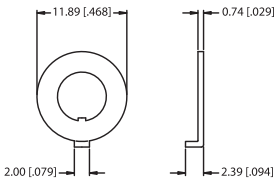
| | |
|---|---|
| Fixed Terminal: | Copper alloy with gold plate over nickel plate |
| Moving Contact: | Copper alloy with gold plate overnickel plate |
| Rating: | 0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC) |

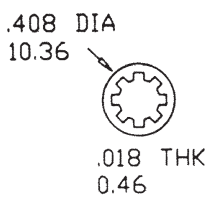
## HARDWARE

**HDW2 NUT**




**HDW15 LOCKING RING**




**HDW11 LOCK WASHER**