

## SERIES 38F

### Sub-Miniature Pushbutton Switches

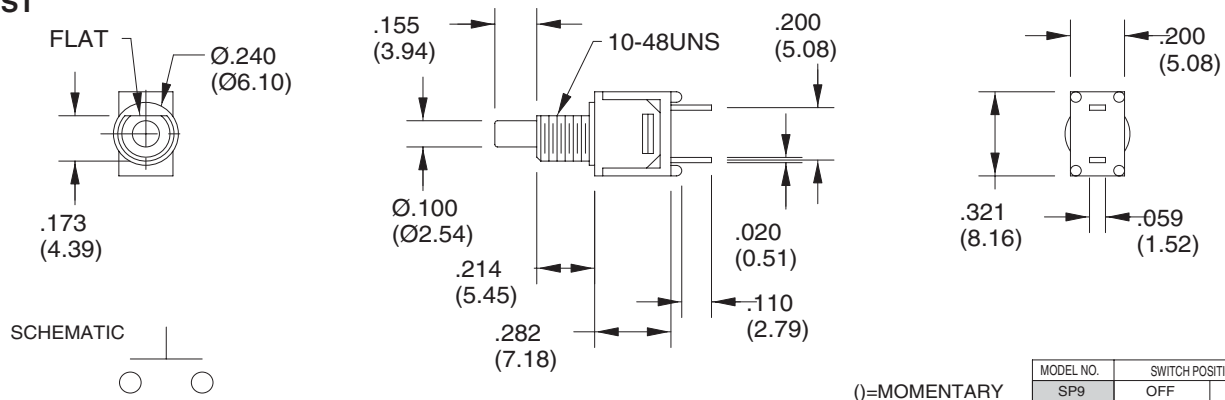
#### FEATURES

- Save Space and Weight
- SPDT and DPDT Circuitry
- Choice of Actuators, Bushings, and Terminations
- UL Recognized

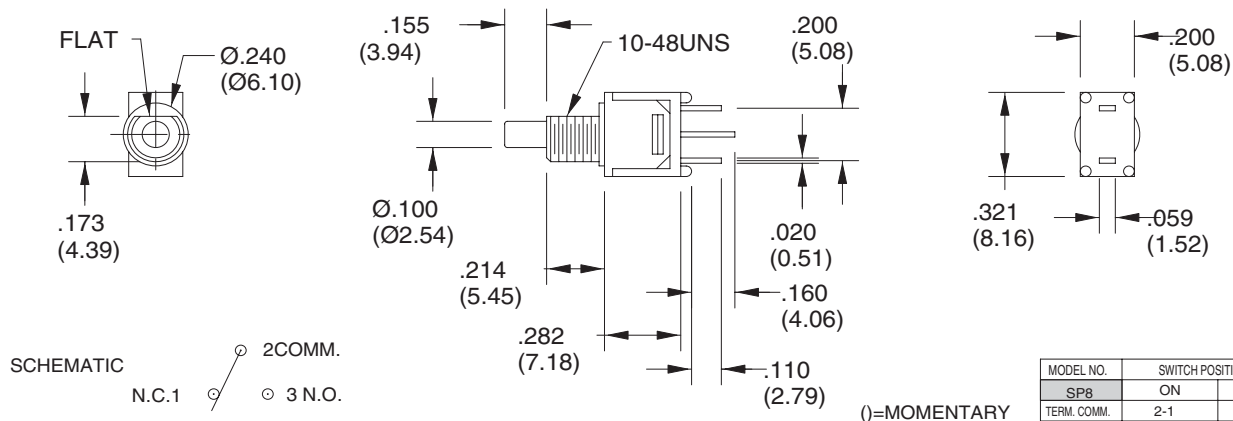


#### MODELS IN INCHES (AND MILLIMETERS)

##### SPST

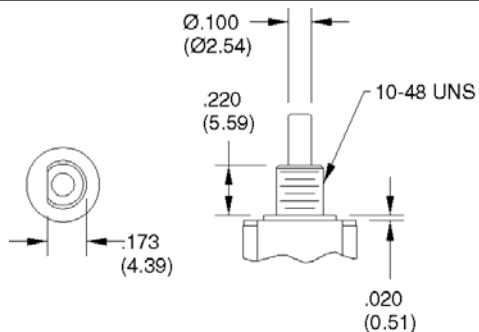


##### SPDT

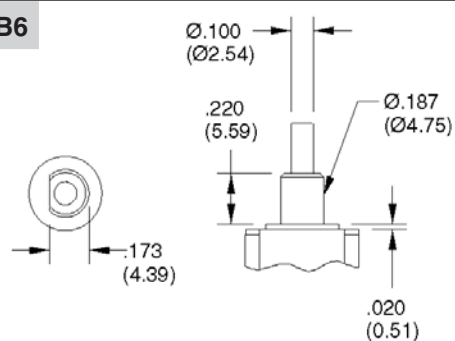


#### BUSHING OPTIONS IN INCHES (AND MILLIMETERS)

##### B5



##### B6



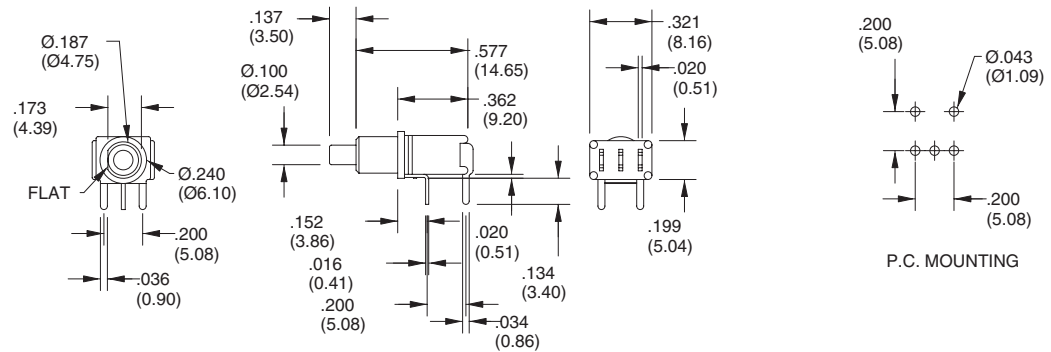
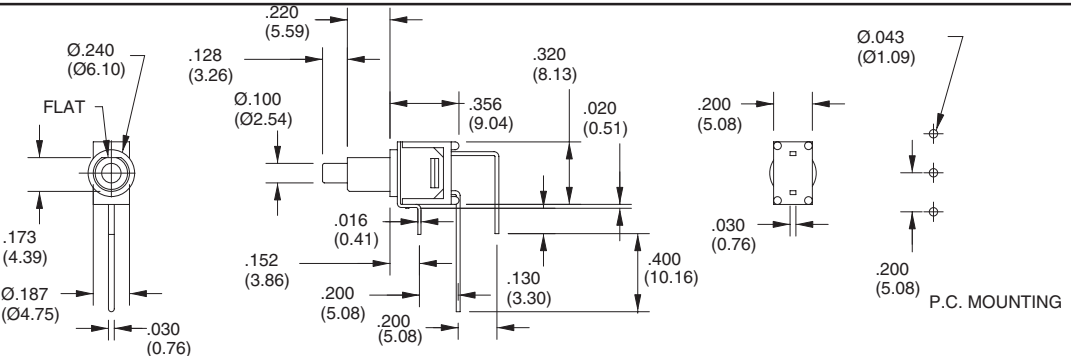
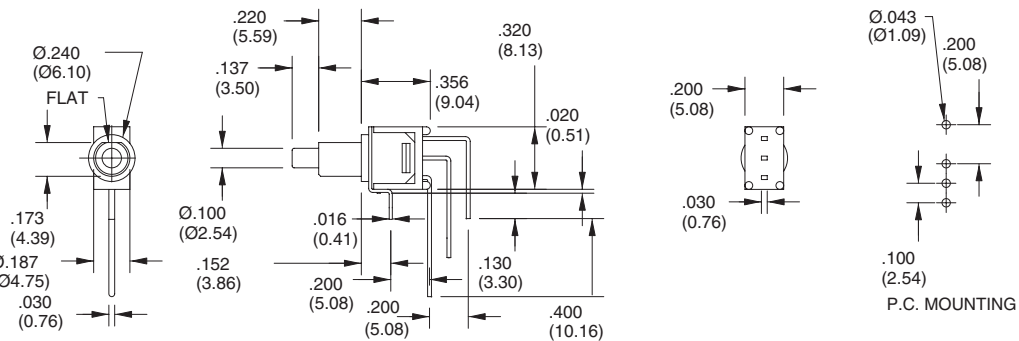
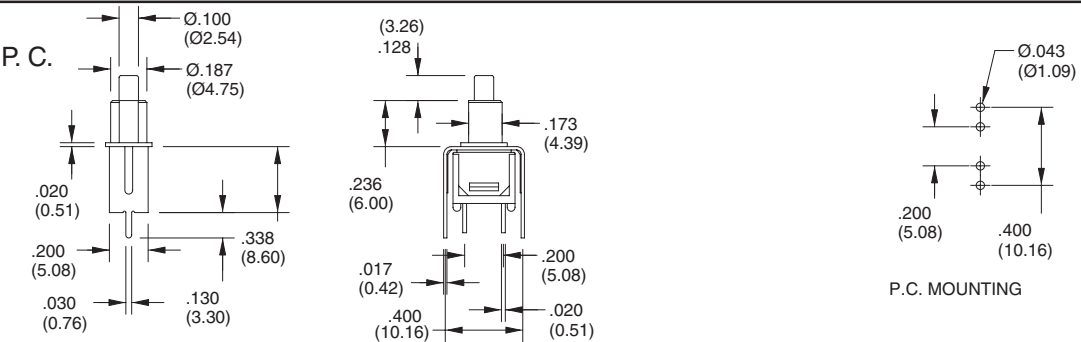
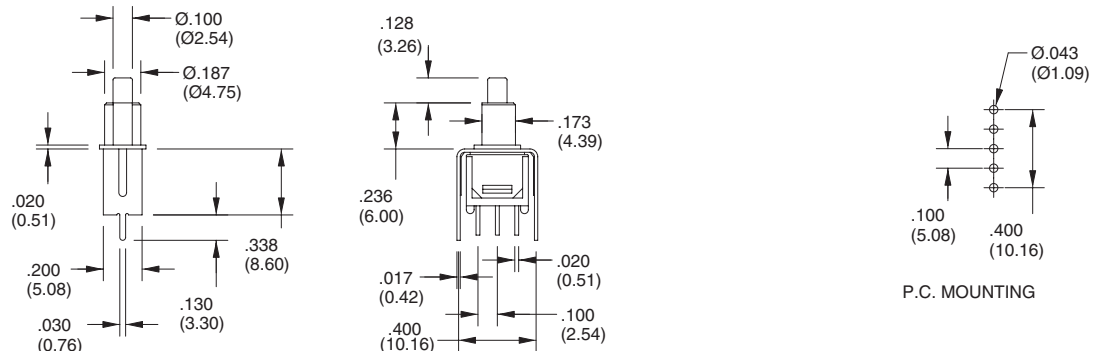
## BUSHING OPTIONS (CONT.) IN INCHES (AND MILLIMETERS)

|           |           |
|-----------|-----------|
| <b>B7</b> | <b>B8</b> |
| <b>B9</b> | <b>B0</b> |

## TERMINATION OPTIONS IN INCHES (AND MILLIMETERS)

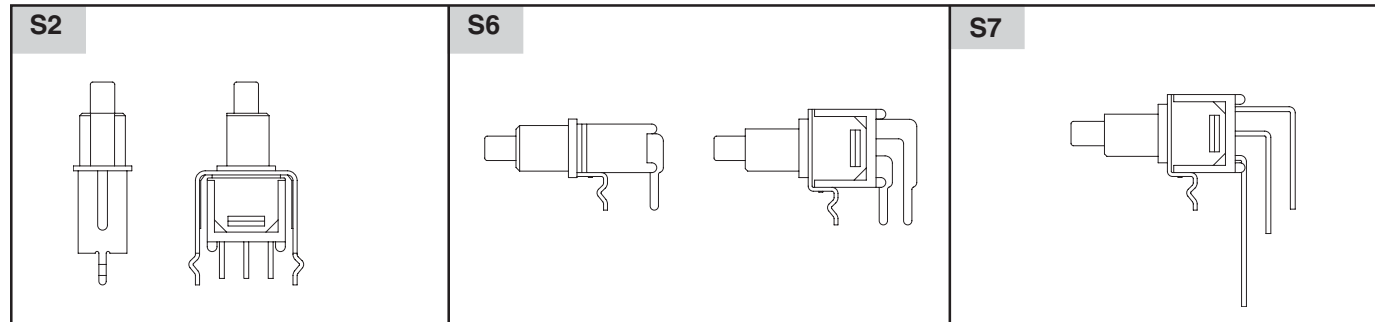
|                                                                                                      |                             |
|------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>M1 Solder Lug</b>                                                                                 | <b>M2 P. C. Mount (Std)</b> |
| <b>M6 Right Angle, P. C. Mount</b> <p><b>SPST</b></p> <p><b>FLAT</b></p> <p><b>P.C. MOUNTING</b></p> |                             |

## TERMINATION OPTIONS (CONT.) IN INCHES (AND MILLIMETERS)

**M6****SPDT****M7** Right Angle,  
P. C. Mount**SPST****SPDT****V2** Vertical  
Bracket, P. C.  
Mount**SPST****SPDT**

## Snap-in Termination Options

(Snap-in termination options have the same PC layout as M2, M6 and M7 options)



## SPECIFICATIONS

### RATINGS

**Contact Rating:** Q & G option - 1A with resistive load @ 125 VAC or 28 VDC; R option - 0.4 VA max @ 20 Vmax (AC or DC)

**Electrical Life:** 30,000 make-and-break cycles at full load

**Travel:** .030 ± .010

**Contact Resistance:** 20 milliohms max. initial @ 2-4 VDC, 100 mA

**Insulation Resistance:** 1,000 megaohms minimum

**Dielectric Strength:** 1,000 V RMS @ sea level

**Operating Temperature:** -30°C to 85°C

### MATERIALS

**Case:** Diallyl phthalate (DAP) (UL94V-0)

**Plunger:** Polyester

**Bushing:** Brass, nickel plated

**Housing:** Stainless steel

**Terminal/Switch Support:** Brass, electroplated

**Terminal Seal:** Epoxy

## ORDERING INFORMATION

| SERIES                                   | MODEL NO.                                              | BUSHING                                               | TERMINATION                                                       | CONTACT                                                                                                                      | SEAL                             |
|------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>38F</b>                               | <b>SP8</b>                                             | <b>B5</b>                                             | <b>M1</b>                                                         | <b>Q</b>                                                                                                                     | <b>T</b>                         |
| 38F = Sub-Miniature Pushbutton Switches  | Options: SP8, SP9 (see models for switching positions) | Options: B5, B6, B7, B8, B9, B0 (see bushing options) | Options: M1, M2, M6, M7, V2, S2, S6, S7 (see termination options) | R = Copper alloy, gold plate over nickel plate.<br><br>Q = Copper alloy, silver plated<br><br>G=Gold plate over silver plate | T = Lead Free and RoHS Compliant |
| <b>Example Part Number: 38FSP8B5M1QE</b> |                                                        |                                                       |                                                                   |                                                                                                                              |                                  |

Available from your local Grayhill Component Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.