

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material see page 5.

MECHANICAL LIFE: 50,000 make-and-break cycles.

CONTACT RESISTANCE: 20mΩ max. initial @ 2-4VDC 100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000MΩ min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.

OPERATING TEMPERATURE: -40°C to 85°C.

MATERIALS

CASE: Diallyl phthalate(DAP) (UL94V-0).

PLUNGER: Glass filled Nylon or Glass filled polyester.(PBT)

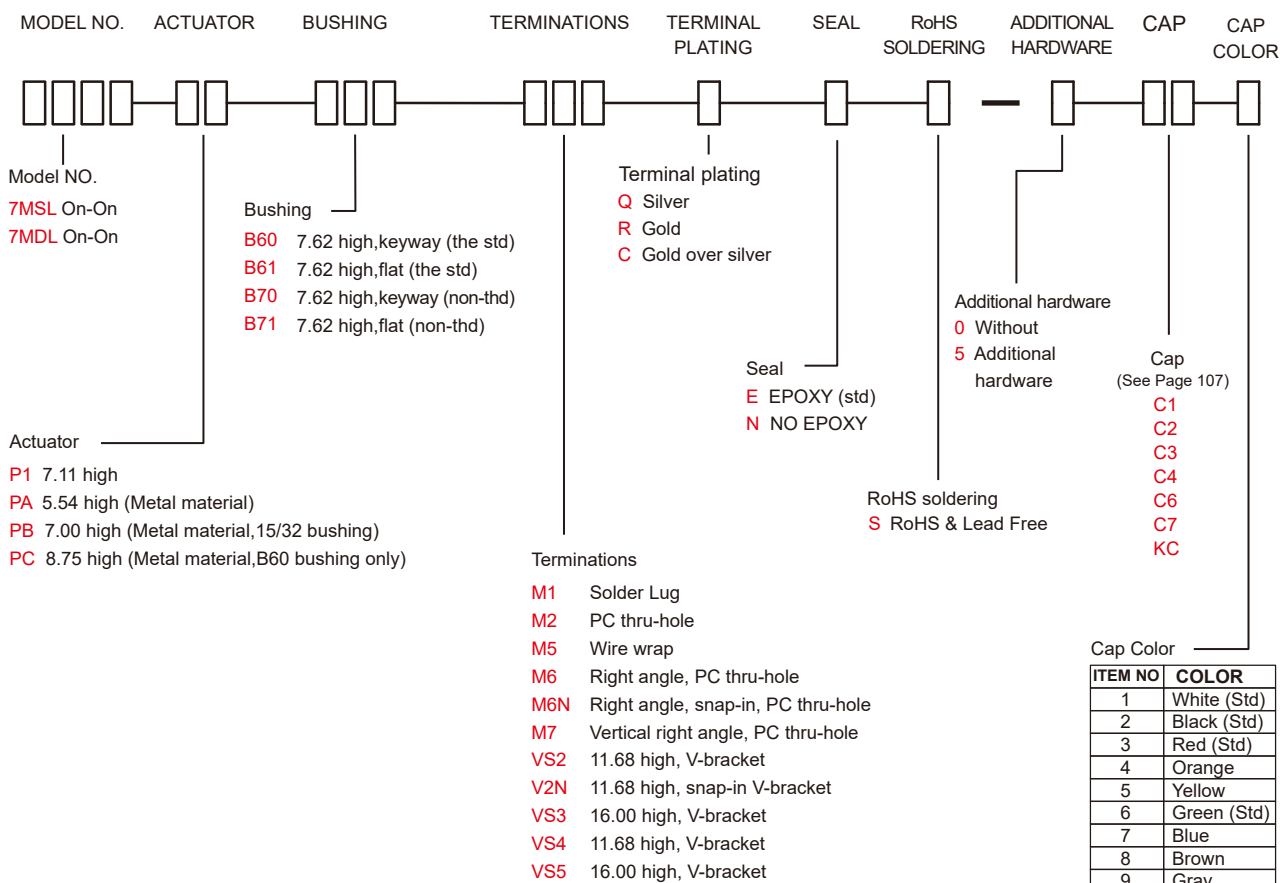
BUSHING: Brass,nickel plated.

HOUSING: Stainless Steel.

CONTACT: Copper alloy, gold over silver for plating (See Page 5)



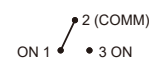
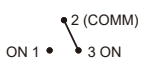
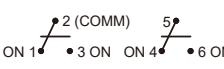
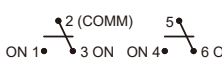
HOW TO ORDER

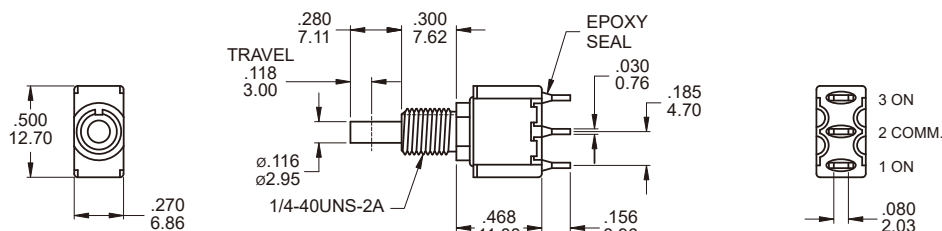


ITEM NO	COLOR
1	White (Std)
2	Black (Std)
3	Red (Std)
4	Orange
5	Yellow
6	Green (Std)
7	Blue
8	Brown
9	Gray

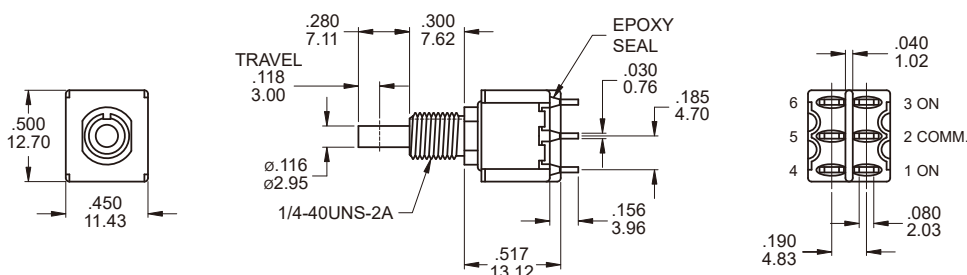
\* Besides standard color, other colors need to check stocks available.

**SWITCH FUNCTION**

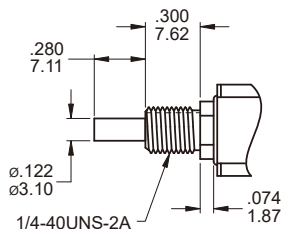
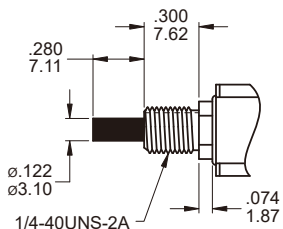
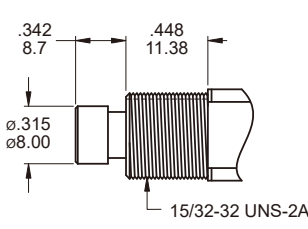
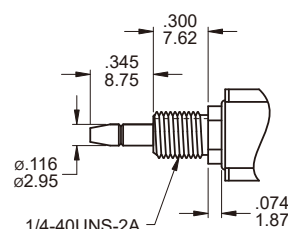
NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
			POS.1	POS.2	POS.1	POS.2
SP	Q27	7MSL	ON	ON	1-2 ON 1 	2-3 ON 1 
DP	Q27	7MDL	ON	ON	1-2,4-5 ON 1 	2-3,5-6 ON 1 

**POLE OPTIONS**

**SPDT**

Part No. Shown : 7MSLP1B60M1QE

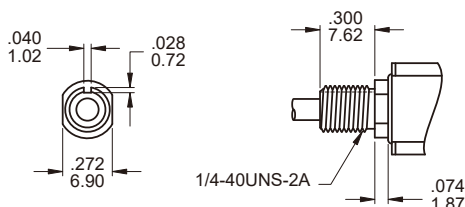
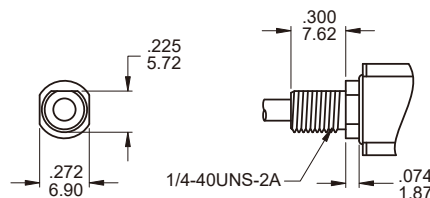

**DPDT**

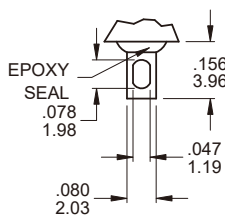
Part No. Shown : 7MDLP1B60M1QE

**ACTUATOR OPTIONS**
**P1**

**PAB60** handle, metal material

**PBB13** handle, metal material

**PCB60** handle, metal material


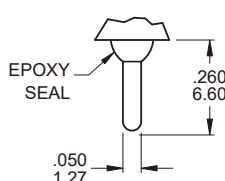
Use with B13 bushing only

 Use with B60 bushing std  
 \* PC Actuator only for KC Cap

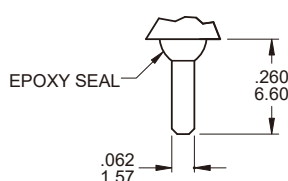
**BUSHING OPTIONS**
**B60 THD STD**  
**B70 NON-THD**

**B61 THD STD**  
**B71 NON-THD**


**TERMINATION OPTIONS**
**M1 Solder lug**


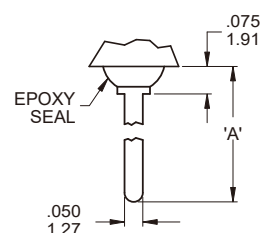
.030(0.76) THK.

**M2 PC Thru-hole**


.030(0.76) THK.

**M3 Quick connect**


.030(0.76) THK.

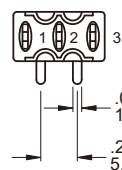
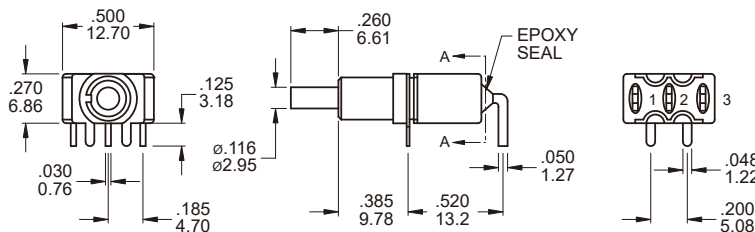
**M5 Wire Wrap**


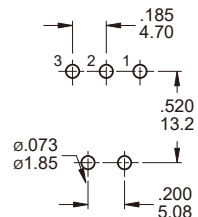
.030(0.76) THK.

**OTHER TERMINATION OPTIONS**

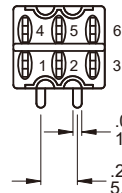
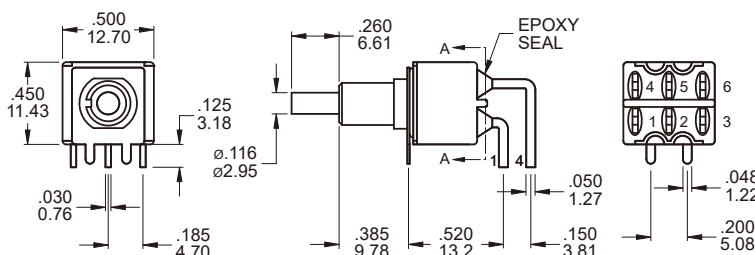
- M6** Right angle P.C. Mount
- M7** Right angle P.C. Mount
- VS2** Vertical bracket P.C. Mount
- VS3** Vertical bracket P.C. Mount
- M6N** Right angle P.C. Mount, Snap-in bracket
- V2N** Vertical bracket P.C. Mount, Snap-in bracket

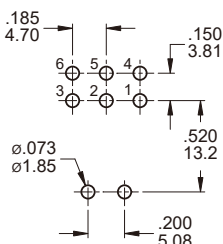
OPTION CODE	DIM. 'A'
M51	.750 (19.50)
M52	.964 (24.48)
M53	.426 (10.80)
M54	.650 (16.50)

**TERMINATION OPTIONS**
**M6**

 SECTION A-A  
 TERM.NOS.FOR  
 REFERENCE ONLY

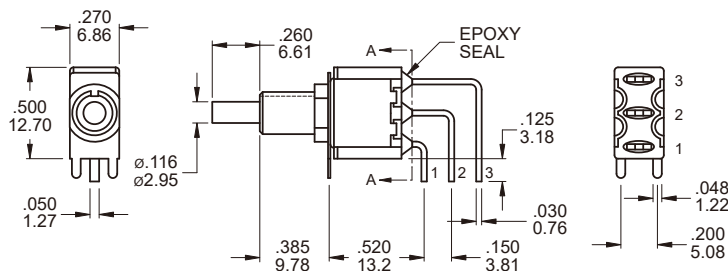
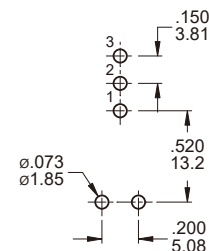
**P.C. MOUNTING**

**SPDT**

Part No. Shown : 7MSLP1B70M6QE

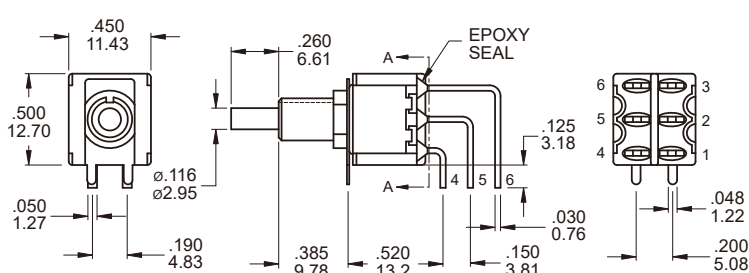
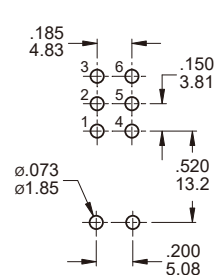
**M6**

 SECTION A-A  
 TERM.NOS.FOR  
 REFERENCE ONLY

**P.C. MOUNTING**

**DPDT**

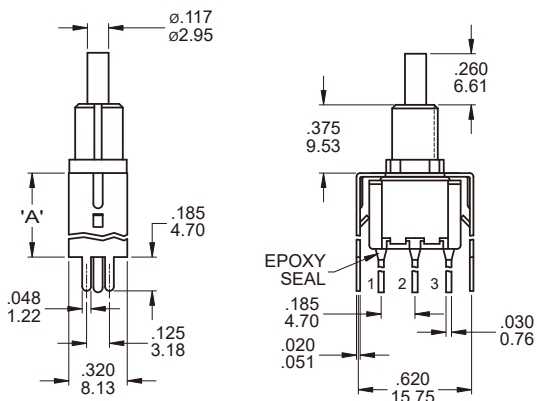
Part No. Shown : 7MDLP1B70M6QE

**M7**

**P.C. MOUNTING**

**SPDT**

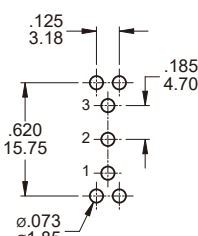
Part No. Shown : 7MSLP1B70M7QE

**M7**

**P.C. MOUNTING**

**DPDT**

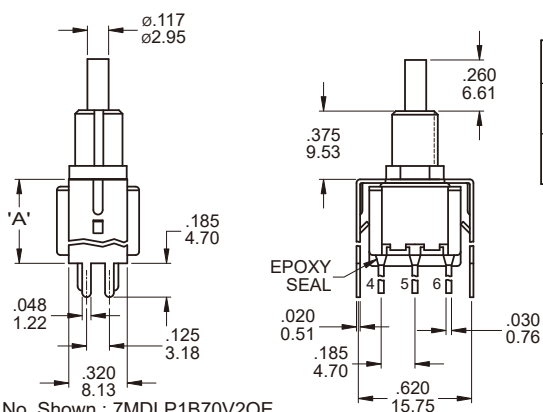
Part No. Shown : 7MDLP1B70M7QE

**VS2 - VS3**


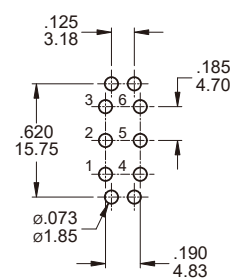
OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00

**P.C. MOUNTING**

**SPDT**

Part No. Shown : 7MSLP1B70V2QE

**VS2 - VS3**


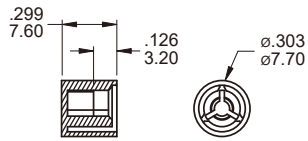
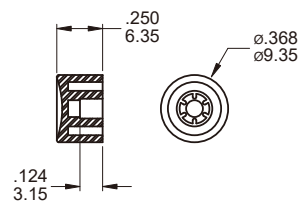
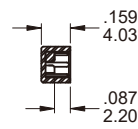
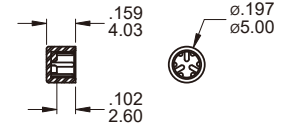
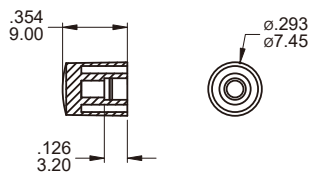
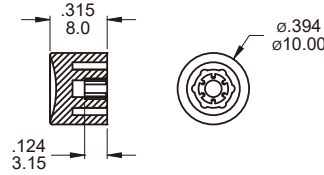
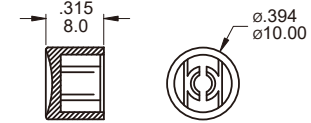
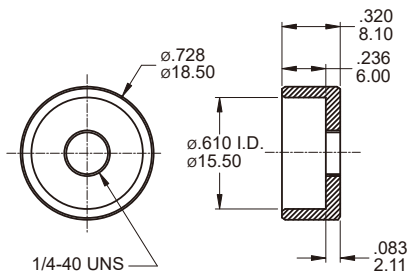
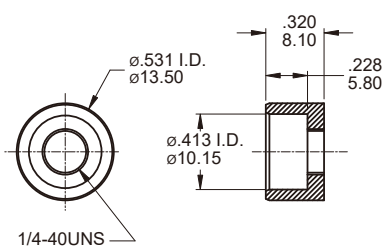
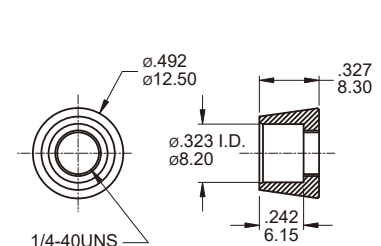
OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00

**P.C. MOUNTING**

**DPDT**

Part No. Shown : 7MDLP1B70V2QE

**CAP OPTIONS**

For 7M,7A Series Only, Cap Standard Clors: White, Black, Green, Red

**C1**

**C2**

**C3**

**C4**

**C6**

**C7**

**KC** for PC actuator only

**DRESS NUTS**
**HDW21**

MNU-1M19
**HDW22** for C2 Cap

MNU-1M20
**HDW23** for C1 Cap

MNU-1M21
**CONTACT MATERIAL OPTIONS**

	CONTACT PLATING	TERMINAL PLATING	RATINGS
<b>Q</b>	Silver ※ 7MSL/7MDL with gold over silver for plating	Silver	3 Amps with resistant load @ 120VAC or 28VDC
<b>C</b>	Gold over Silver	Gold over silver	1 Amps with resistant load @ 250VAC
<b>R</b>	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)