



**Specifications**

Mechanical Life: 50,000 make-and-break cycles.  
 Electrical Life: 6,000 cycles.  
 Contact Resistance: 20 mΩ max. (initial value) @ 2-4 VDC 100 mA for both silver and gold plated contacts.  
 Insulation Resistance: 1,000 MΩ min. at 1,000 VDC  
 Dielectric Strength: 1,000 Vrms min. @sea level (initial value).  
 Operating Temperature: -40°C to 85°C.  
 CAP Installation Force: 10 lbs, max. permissible.

Ingree Protection: IP 67  
ACCORDING TO EN 60529:1989+A1:2001

**Contact & Terminal Plating Options:**

Contact Plating	Terminal Plating	Ratings
Q Silver	Gold flash over silver	3 Amps with resistant load @ 120 VAC or 28 VDC
C Gold over Silver	Gold over silver	1 Amps with resistant load @ 250 VAC
R Gold	Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)

**Materials**

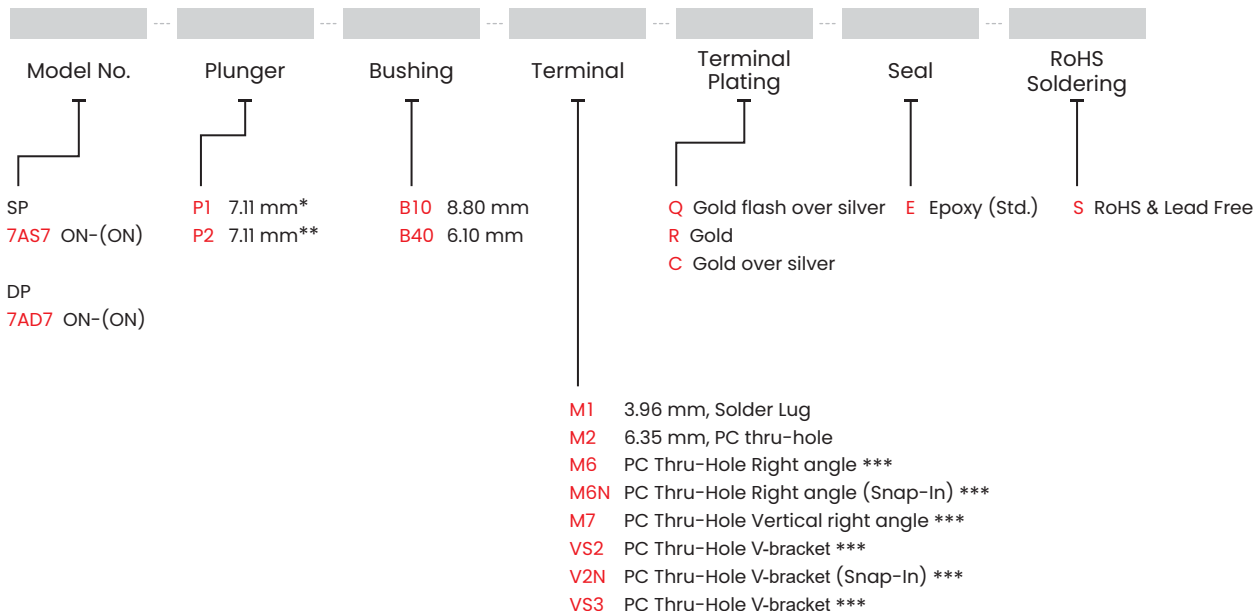
Case and Bushing : Glass filled Nylon 6/6, flame retardant, heat stabilized (UL 94 V-0).  
 Plunger: Glass filled Nylon or Glass filled polyester (UL 94 V-0).  
 Switch Support: Brass, tin plated or stainless steel.  
 Switch Support Retainer: Stainless steel.  
 Contact : Phosphor bronze with silver coin.  
 Terminal : Brass with silver or gold plated.  
 Terminal seal : Epoxy.

**Soldering Process**

Manual Soldering: Use 30 watts soldering iron and controlled the temperature at 350°. Duration of solder immersion: Max. 5 sec.  
 Wave Soldering: Recommend soldering temperature: 260 ± 5°C Duration of solder immersion: Max. 5 sec. (PCB thickness is 1.6 mm (.063 inch))

**HOW TO ORDER**

Note: Specifications and availability subject to change without notice.



EXAMPLE:  
 7AS7P1B40MIQES  
 7AS7P2B10MIQES

Note: Plunger cap options see page 101.

- \* P1 plunger are only available with B40 bushing.
- \*\* P2 plunger are only available with B10 bushing.
- \*\*\* Terminals M6, M6N, M7 and VS2-3 can only be use with B40 bushing.

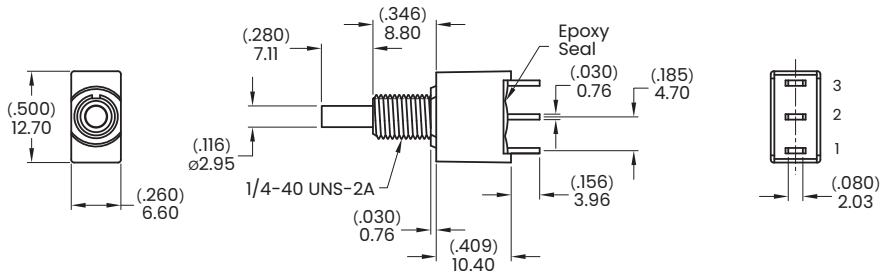


▼ SWITCH FUNCTION

No. Poles	Model No.	Switch Function		Connected Terminals / Schematic	
		POS. 1	POS. 2	POS. 1	POS. 2
SP	7AS7	ON	(ON)	1-3 1 (COMM) NC 3 • 2 NO	1-2 1 (COMM) NC 3 • 2 NO
DP	7AD7	ON	(ON)	1-3, 4-6 1 (COMM) NC 3 • 2 NO NC 6 • 5 NO	1-2, 4-5 1 (COMM) NC 3 • 2 NO NC 6 • 5 NO

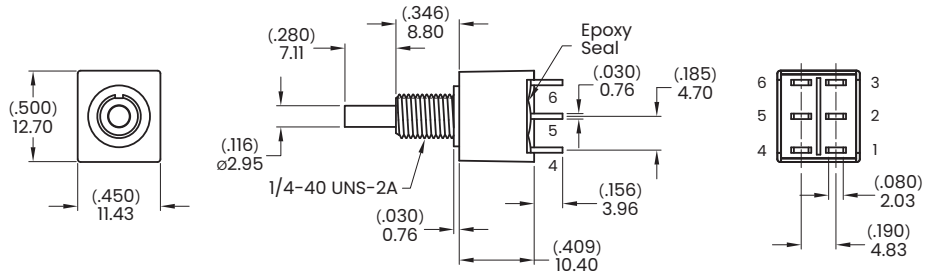
( ) = Momentary

▼ POLE FUNCTION



**SPDT**

Model name. 7AS7P2B10MIQES

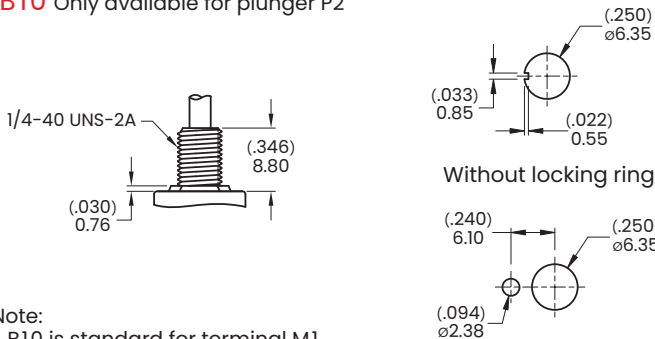


**DPDT**

Model name. 7AD7P2B10MIQES

▼ BUSHING OPTIONS

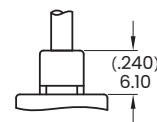
**B10** Only available for plunger P2



Note:  
1. B10 is standard for terminal M1  
2. Standard hardware see page 102.

With standard locking ring.

**B40** Only available for plunger P1



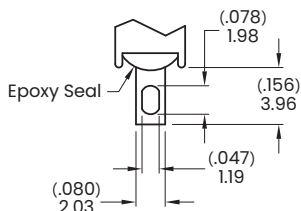
Note: Standard for terminals M6, M6N, M7 and VS2-VS3.



▼ **TERMINAL OPTIONS**

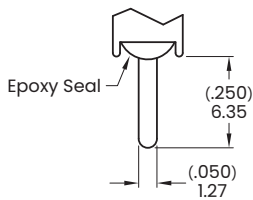
7A Pushbutton Switches

**M1 Solder lug**



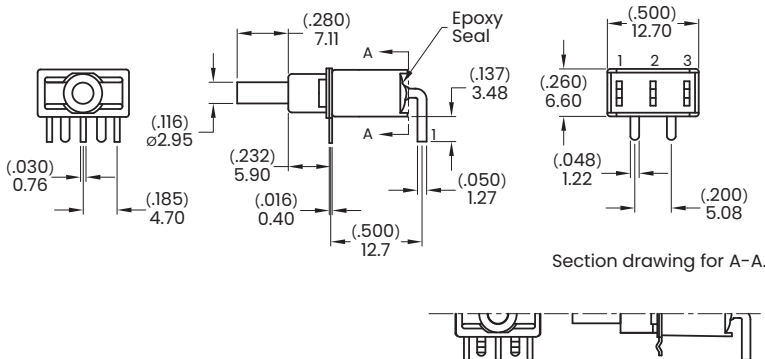
0.76 mm (.030 inch) THK

**M2 PC Thru-hole**

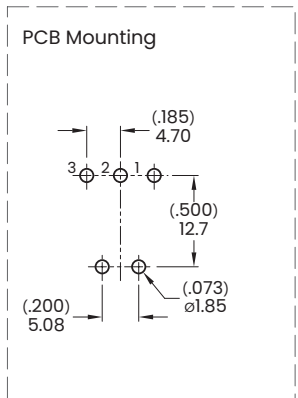


0.76 mm (.030 inch) THK

**M6**



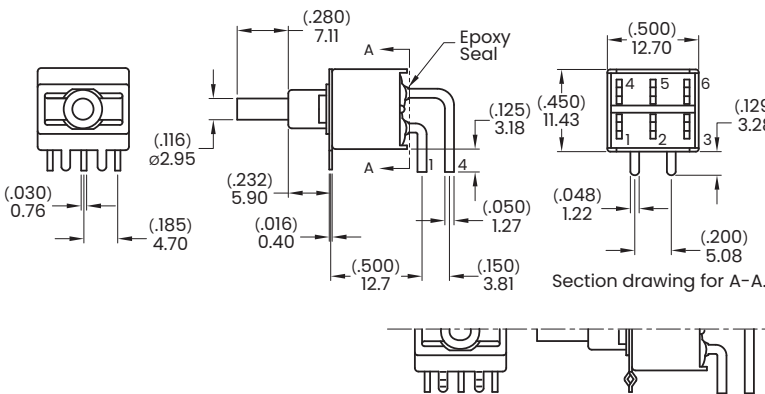
**M6N (Snap-In)**



**SPDT**

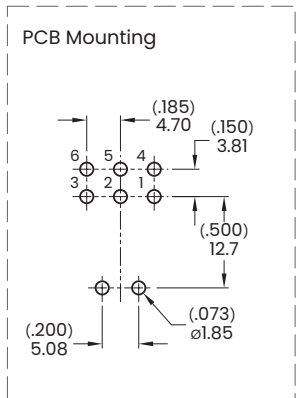
Model name. 7AS7P1B40M6RES

**M6**



**Snap-In**

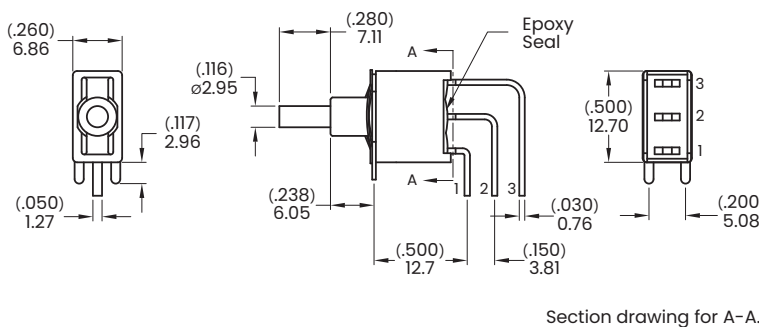
**M6N (Snap-In)**



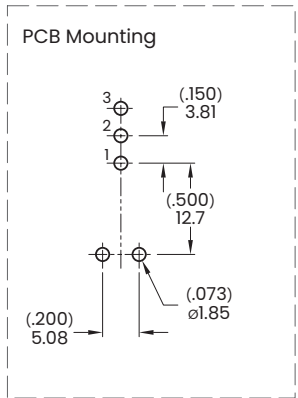
**DPDT**

Model name. 7AD7P1B40M6RES

**M7**



Section drawing for A-A.

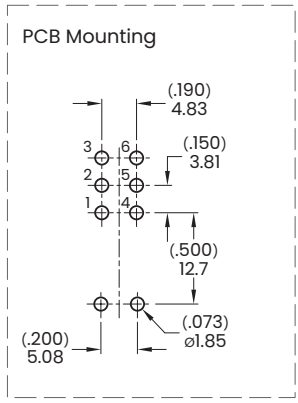
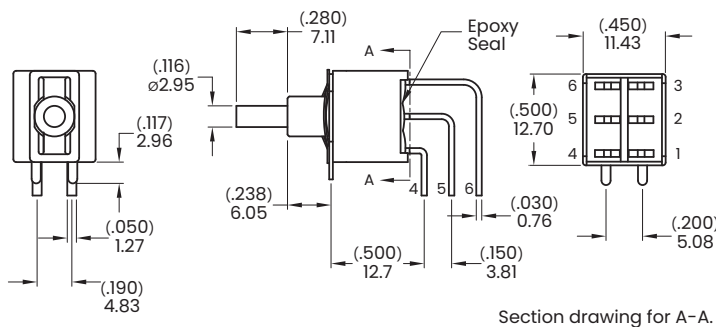


**SPDT**

Model name. 7AS7P1B40M7RES



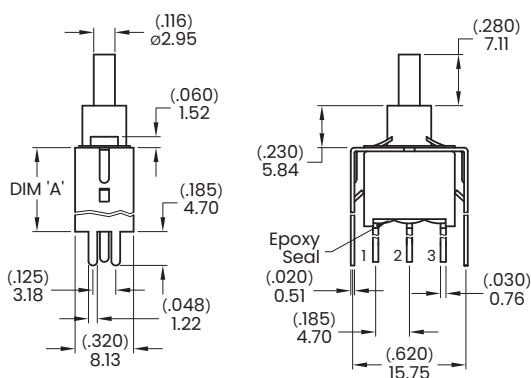
M7



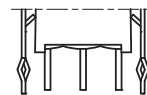
DPDT

Model name. 7AD7PIB40M7RES

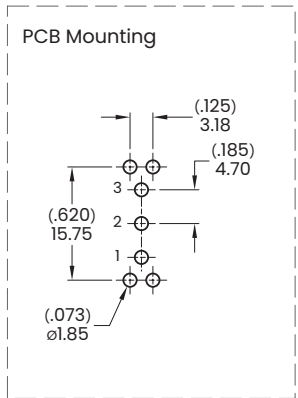
VS2 - VS3



Option Code	DIM 'A'
VS2 (V2N)	(.460) 11.68
VS3	(.630) 16.00



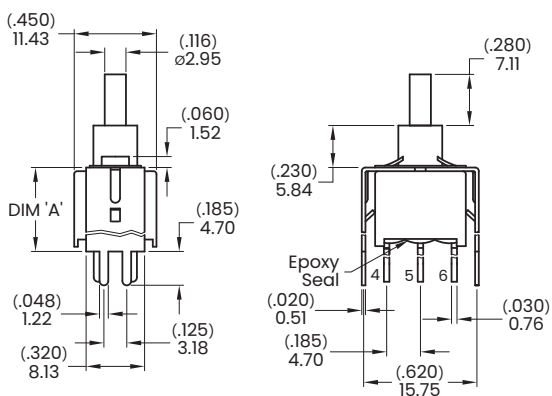
V2N (Snap-In)



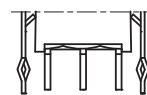
SPDT

Model name. 7AS7PIB40VS2RES

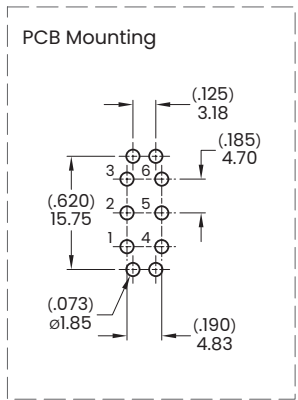
VS2 - VS3



Option Code	DIM 'A'
VS2 (V2N)	(.460) 11.68
VS3	(.630) 16.00



V2N (Snap-In)



DPDT

Model name. 7AD7PIB40VS2RES

7A Pushbutton Switches