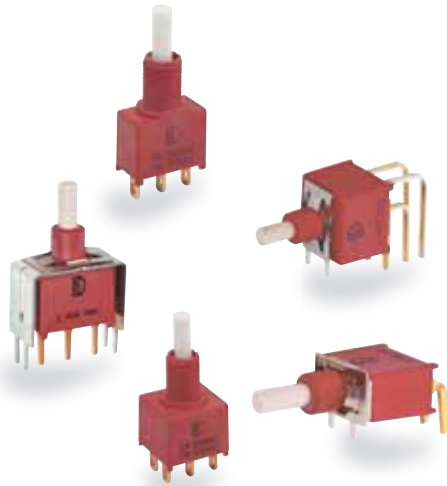


# Sealed Snap-Acting Pushbutton Switches **7A SERIES**



## SPECIFICATIONS

**CONTACT RATING:** Dependent upon contact material see page 115.

**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:** 1,500 V RMS min. @sea level.

**OPERATING TEMPERATURE:** -30°C to 85°C.

**CAP INSTALLATION FORCE:** 10 lbs,max.permmissible.

## MATERIALS

**CASE & BUSHING :** Glass filled Nylon 6/6, flame retardant, heat stabilized (UL 94v-0).

**PLUNGER:** Glass filled Nylon or Glass fill polyester (UL 94v-0).

**SWITCH SUPPORT:** Brass or steel, tin plate.

**SWITCH SUPPORT RETAINER:** Stainless steel.

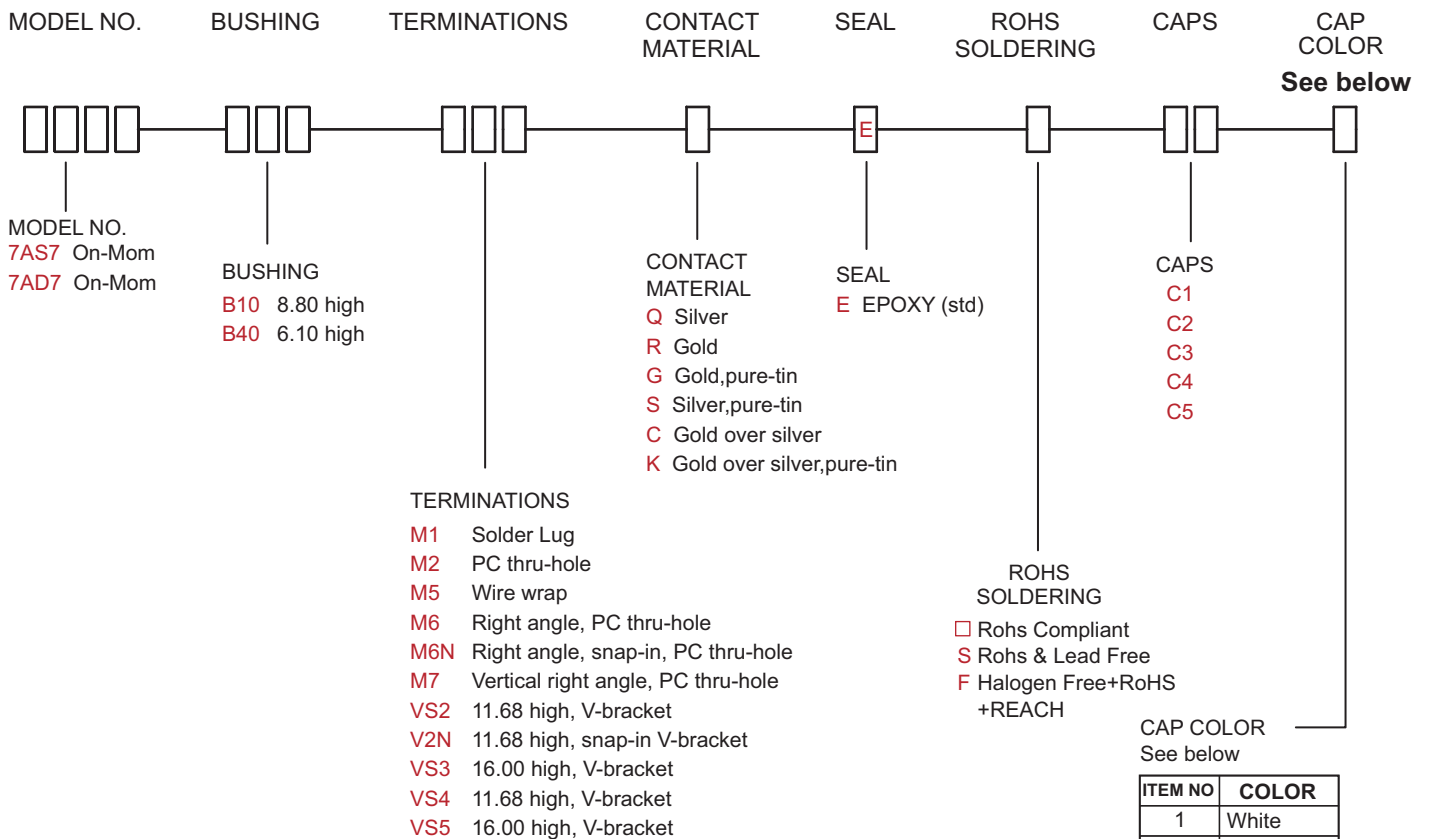
**N.O.&N.C. CONTACTS :** Brass, with silver or gold plate over nickel plate.

**COMMON CONTACTS & ALL TERMINALS :**

Copper alloy, with silver or gold plated. (See Page 115)

**TERMINAL SEAL :** Epoxy.

## HOW TO ORDER



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

## SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
SP	7AS7	ON	MOM	1-3 	1-2 
DP	7AD7	ON	MOM	1-3,4-6 	1-2,4-5 

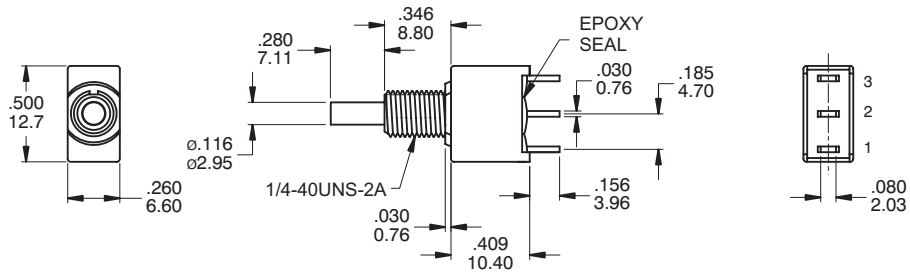
MOM=MOMENTARY

## POLE OPTIONS



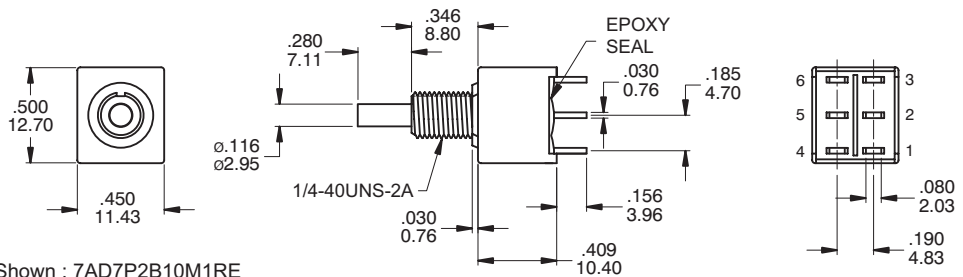
SPDT

Part No. Shown : 7AS7P2B10M1RE



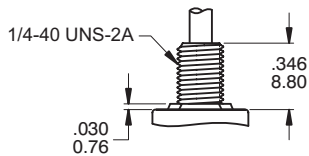
DPDT

Part No. Shown : 7AD7P2B10M1RE



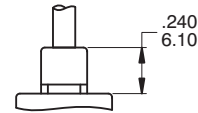
## BUSHING OPTIONS

B10



Std for M1

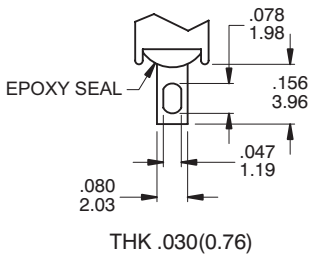
B40



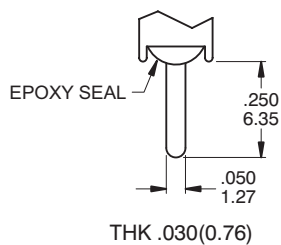
Std for M2, M6, M7, VS termination

## TERMINATION OPTIONS

M1 SOLDER LUG



M2 PC THRU-HOLE



M6 RIGHT ANGLE P.C. MOUNT

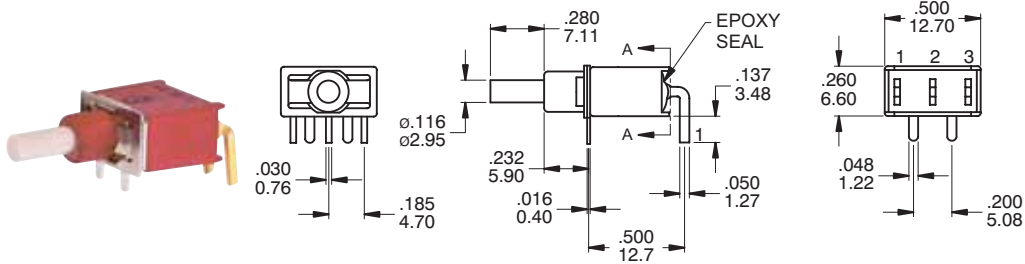
M7 RIGHT ANGLE P.C. MOUNT

VS2 VERTICAL BRACKET P.C. MOUNT

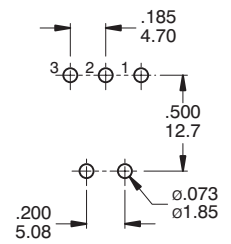
VS3 VERTICAL BRACKET P.C. MOUNT

# Sealed Snap-Acting Pushbutton Switches **7A SERIES**

**M6**



P.C. MOUNTING

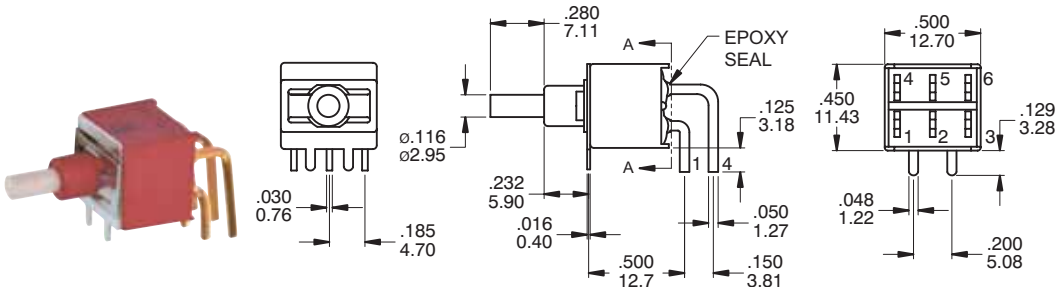


SECTION A-A  
TERM. NOS. FOR  
REFERENCE ONLY

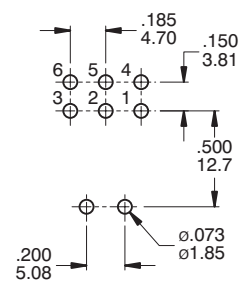
**SPDT**

Part No. Shown : 7AS7B40M6RE

**M6**



P.C. MOUNTING

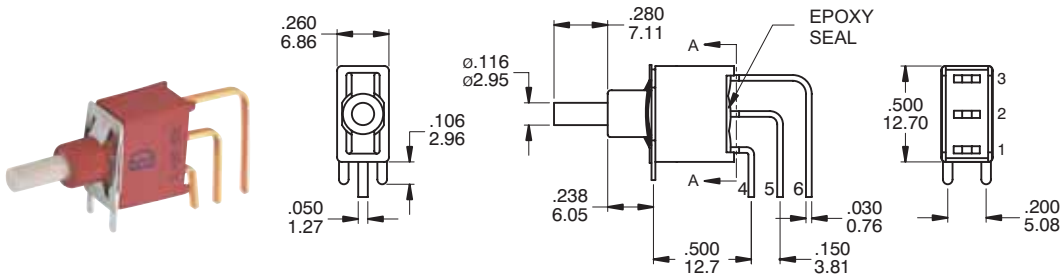


SECTION A-A  
TERM. NOS. FOR  
REFERENCE ONLY

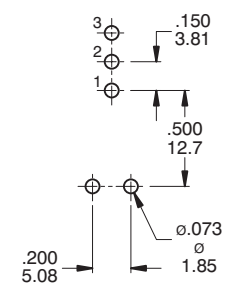
**DPDT**

Part No. Shown : 7AD7B40M6RE

**M7**



P.C. MOUNTING

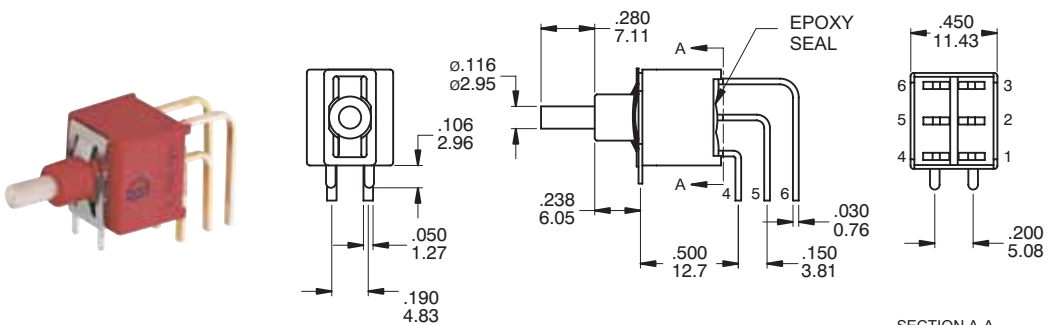


SECTION A-A  
TERM. NOS. FOR  
REFERENCE ONLY

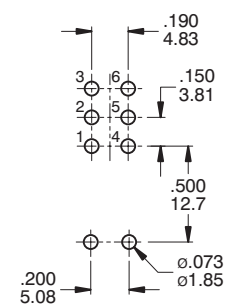
**SPDT**

Part No. Shown : 7AS7B40M7RE

**M7**



P.C. MOUNTING



SECTION A-A  
TERM. NOS. FOR  
REFERENCE ONLY

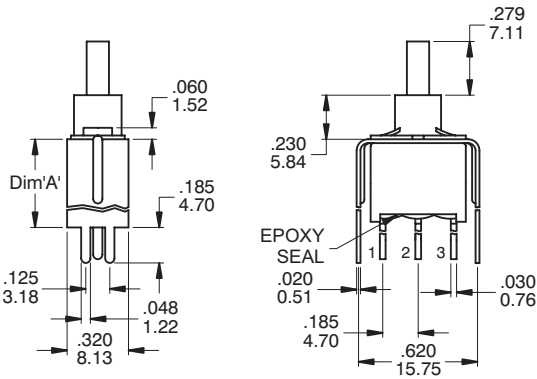
**DPDT**

Part No. Shown : 7AD7B40M7RE

Pushbutton Switches

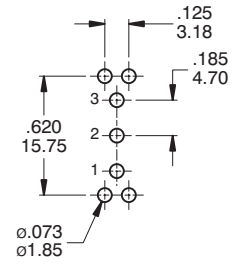
# Sealed Snap-Acting Pushbutton Switches **7A SERIES**

## VS2 - VS3



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

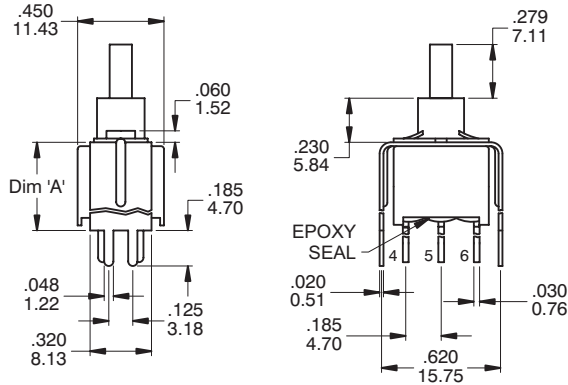
### P.C. MOUNTING



## SPDT

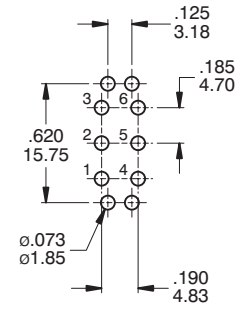
Part No. Shown : 7AS7B40VS2RE

## VS2 - VS3



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

### P.C. MOUNTING

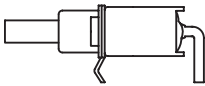
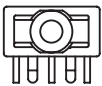


## DPDT

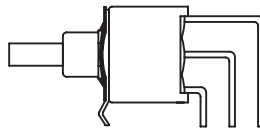
Part No. Shown : 7AD7B40VS2RE

## SNAP-IN TERMINATION OPTIONS

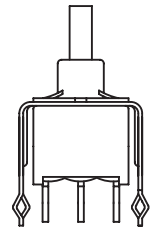
### M6N



### M7N



### V2N



## CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VA
S		S = Gold flash over silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps ( VA ) max. @ 20V max. ( AC or DC )
G		G = Gold,pure - tin	



**IP 67**  
 ACCORDING TO  
 EN 60529:1991+A1:2001  
 IEC 60529:2001

**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 : 260 ± 5°C  
 Duration of Solder Immersion : 5 ± 1 seconds  
 (PCB is 1.6mm in thickness)

**SOLDERING : Vapor phase**

**Temperature Profile**

Zone	Room Temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	180°C ~ 200°C	Min 150s
Peak (C)	200°C ~ 235°C	Min 30s
Peak (D)	235°C ~ 260°C	Min 40s
Peak (E)	260°C	Min 10s

