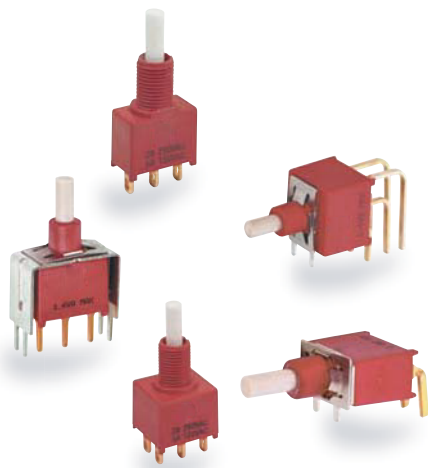


SP7A Series

Sealed Snap-Acting Pushbutton Switches



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.

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

CONTACT RESISTANCE: 20 m Ω max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 M Ω min.

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

OPERATING TEMPERATURE: -30°C to 85°C.

CAP INSTALLATION FORCE: 10 lbs,max. permissible.

MATERIALS

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

PLUNGER: Glass filled Nylon or Glass filled 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.

TERMINAL SEAL : Epoxy.



IP 67
ACCORDING TO
EN 60529:1989+A1:2001
IEC 60529:2001

HOW TO ORDER

MODEL NO.	BUSHING	TERMINATIONS	CONTACT MATERIAL	SEAL	ROHS SOLDERING	CAPS	CAP COLOR				
□□□□ MODEL NO. SP7AS7 On-Mom SP7AD7 On-Mom	□□□ BUSHING B10 8.80 high B40 6.10 high	□□□ TERMINATIONS M1 Solder Lug M2 PC thru-hole M5 Wire wrap M6 Right angle, PC thru-hole M6N Right angle, snap-in, PC thru-hole M7 Vertical right angle, PC thru-hole VS2 11.68 high, V-bracket V2N 11.68 high, snap-in V-bracket VS3 16.00 high, V-bracket VS4 11.68 high, V-bracket VS5 16.00 high, V-bracket	□ CONTACT MATERIAL Q Silver R Gold G Gold,pure-tin S Silver,pure-tin C Gold over silver K Gold over silver,pure-tin	E SEAL E EPOXY (std)	□ ROHS SOLDERING □ RoHS Compliant S RoHS & Lead Free F Halogen Free+RoHS	□□ CAPS C1 C2 C3 C4 C5	□ CAP COLOR See below <table><tr><th>ITEM NO</th><th>COLOR</th></tr><tr><td>1</td><td>White</td></tr></table>	ITEM NO	COLOR	1	White
ITEM NO	COLOR										
1	White										

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
SP	SP7AS7	ON	MOM	1-3 	1-2
DP	SP7AD7	ON	MOM	1-3,4-6 	1-2,4-5

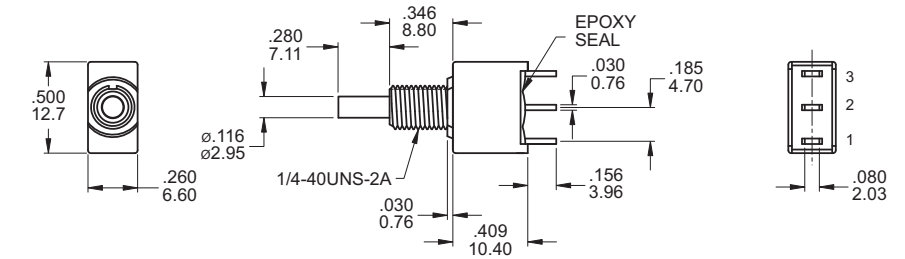
MOM=MOMENTARY

POLE OPTIONS



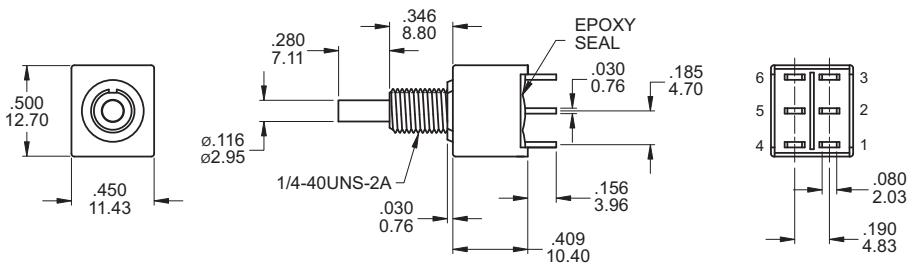
SPDT

Part No. Shown : SP7AS7P2B10M1QE



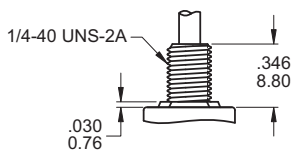
DPDT

Part No. Shown : SP7AD7P2B10M1QE



BUSHING OPTIONS

B10



Std for M1

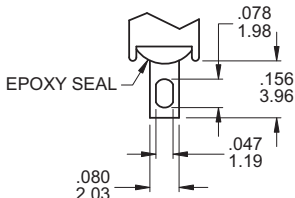
B40



Std for M2, M6, M7, VS termination

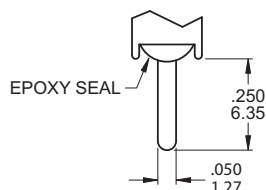
TERMINATION OPTIONS

M1 SOLDER LUG



THK .030(0.76)

M2 PC THRU-HOLE



THK .030(0.76)

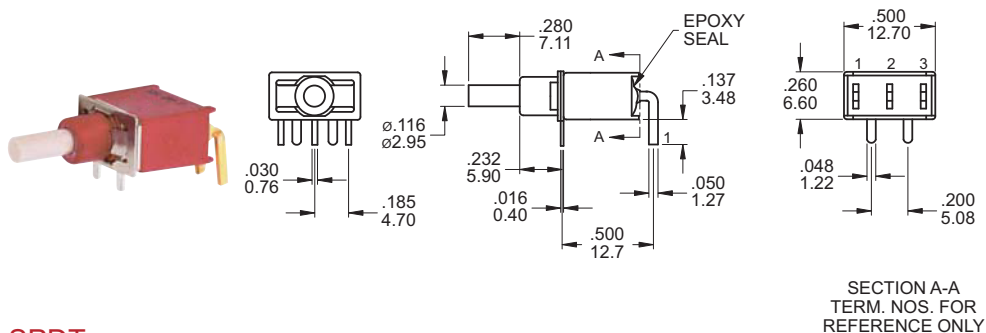
M6 RIGHT ANGLE P.C. MOUNT

M7 RIGHT ANGLE P.C. MOUNT

VS2 VERTICAL BRACKET P.C. MOUNT

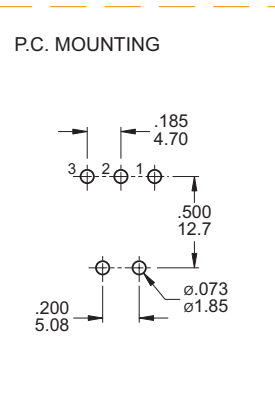
VS3 VERTICAL BRACKET P.C. MOUNT

M6

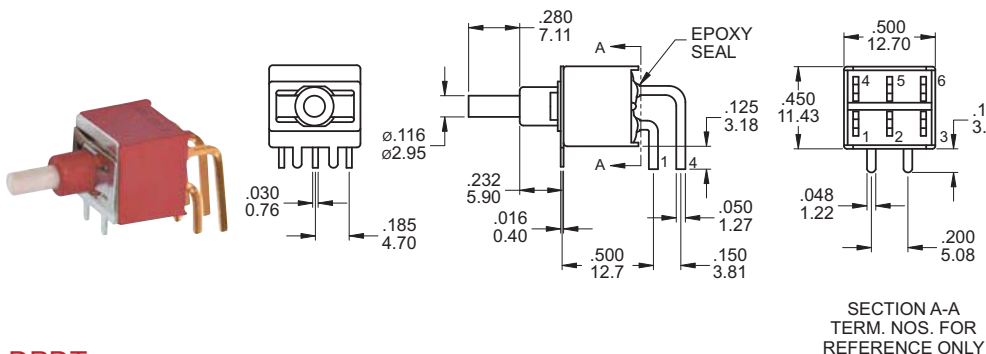


SPDT

Part No. Shown : SP7AS7B40M6RE

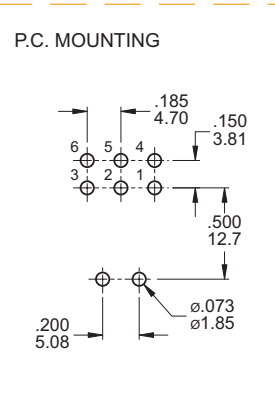


M6

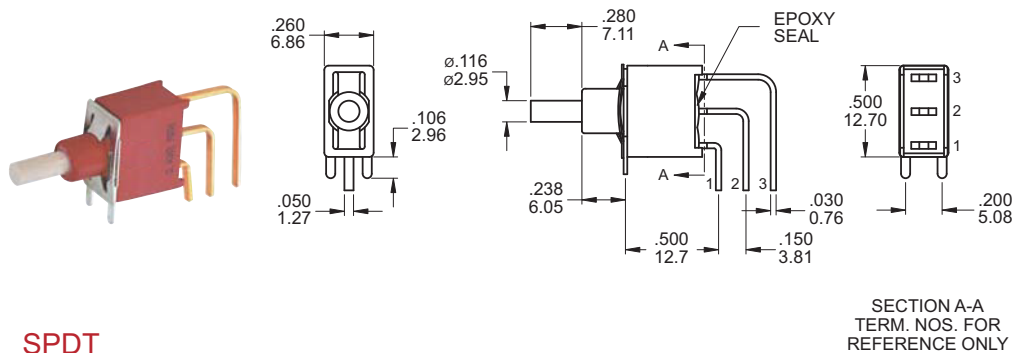


DPDT

Part No. Shown : SP7AD7B40M6RE

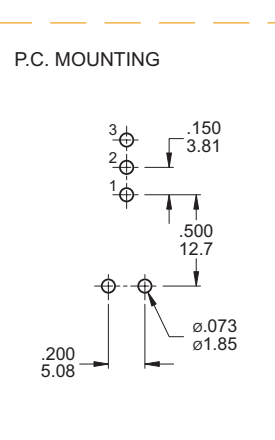


M7

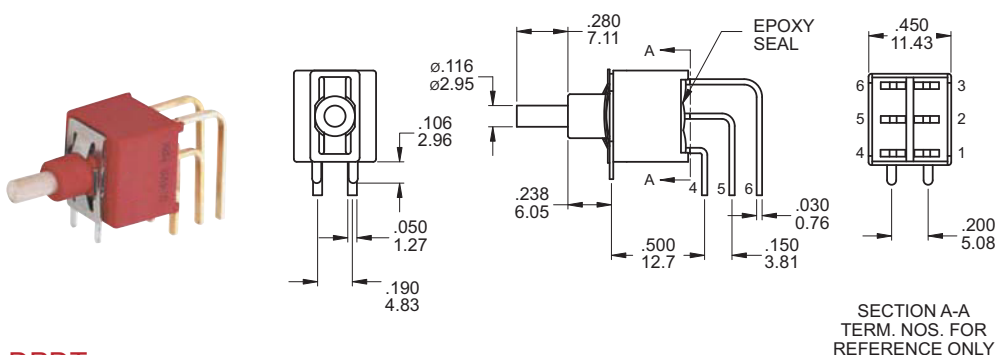


SPDT

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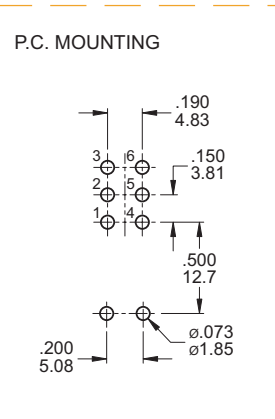


M7

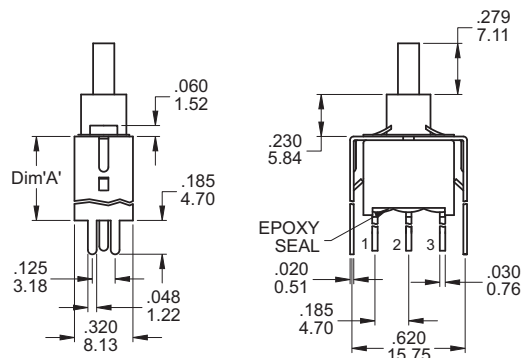


DPDT

Part No. Shown : SP7AD7B40M7RE

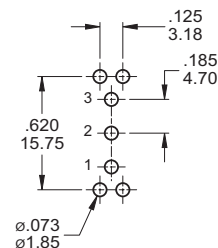


VS2 - VS3



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

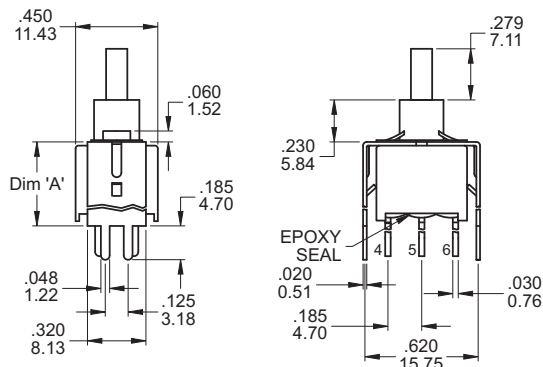
P.C. MOUNTING



SPDT

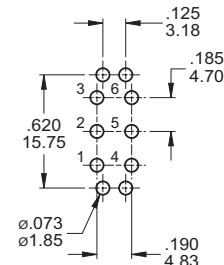
Part No. Shown : SP7AS7B40VS2RE

VS2 - VS3



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

P.C. MOUNTING

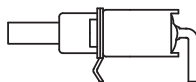


DPDT

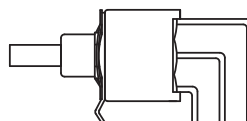
Part No. Shown : SP7AD7B40VS2RE

SNAP-IN TERMINATION OPTIONS

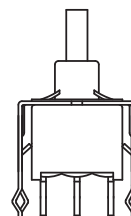
M6N



M7N



V2N



CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
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	

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 : Max 5 sec (PCB is 1.6mm in thickness)

SOLDERING : Vapor phase