

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material, see page 106.

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

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

INSULATION RESISTANCE: 1,000MΩ min./1000VDC

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level. (initial value)

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 gold over silver for plating
(See page 106)

HOW TO ORDER

MODEL NO.	PLUNGER	BUSHING	TERMINAL TYPE	TERMINAL PLATING	SEAL	RoHS SOLDERING
SP 7MSL On-On	P1 7.11 high(std) <u>Metal plunger</u> PA 5.54 high PB 7.00 high PC 8.75 high *	B60 7.62 high,keyway (thd std) B61 7.62 high,flat (thd std) B70 7.62 high,keyway (non-thd) B71 7.62 high,flat (non-thd) B13 11.38 high, keyway * (15/32 bushing)	M1 Solder Lug M2 PC thru-hole M51 19.50, Wire wrap M52 24.48, Wire wrap M53 10.80, Wire wrap M54 16.50, Wire wrap M6 Right angle, PC thru-hole M7 Vertical right angle, PC thru-hole <u>V-bracket</u> VS2 11.68 high V2N 11.68 high, snap-in VS3 16.00 high	Q Silver R Gold C Gold over silver	E EPOXY (std) N NO EPOXY	S RoHS & Lead Free

Note: Actuator cap options see page 105.

* PC plunger are only available with B13 bushing

EXAMPLE:

7MS7P1B60M1QES(STD)



7M(LOCK) Series

Snap-Acting Pushbutton Switches

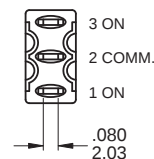
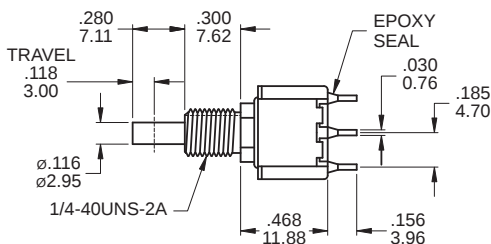
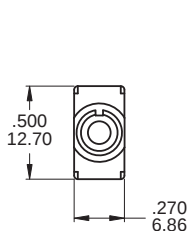


7M(LOCK)
Pushbutton Switches

▼ SWITCH FUNCTION

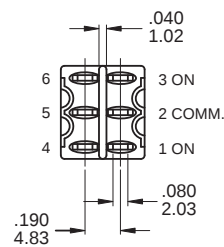
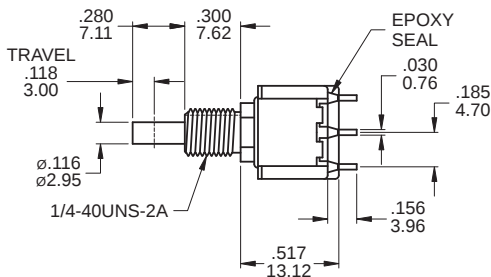
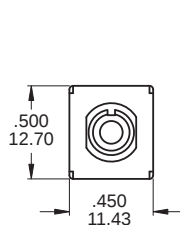
NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
		POS.1	POS.2	POS.1	POS.2
SP	7MSL	ON	ON	1-2 	2-3
DP	7MDL	ON	ON	1-2,4-5 	2-3,5-6

▼ POLE OPTIONS



SPDT

Model name. 7MSLP1B60M1QES

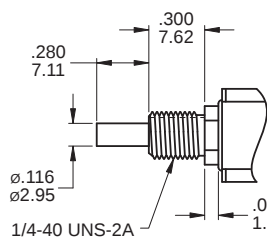


DPDT

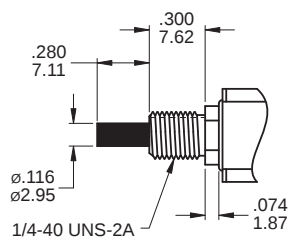
Model name. 7MDLP1B60M1QES

▼ PLUNGER OPTIONS

P1 (Std.)

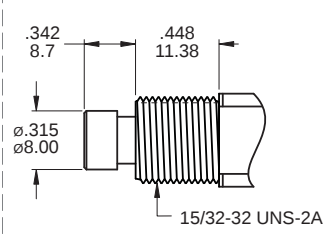


PA Metal plunger



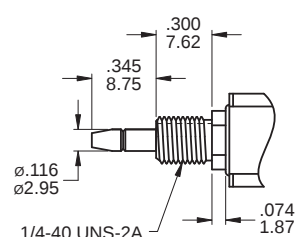
Standard for B60, B70 bushing.

PB Metal plunger



Standard for B13 bushing.

PC Metal plunger

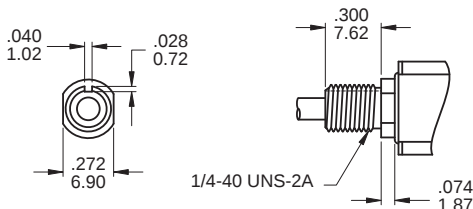


Standard for B60, B70 bushing
Note: PC plunger only for K1 Cap

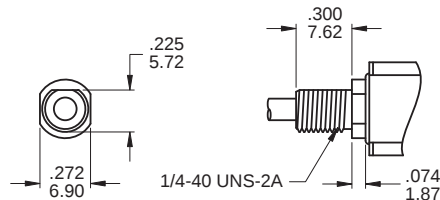
Note: P1, PA, PC plunger for terminal M6, M7, VS2~3: -.020inch(0.50mm)

▼ BUSHING OPTIONS

B60 THD STD
B70 NON-THD



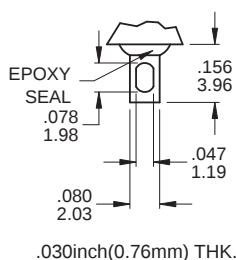
B61 THD STD
B71 NON-THD



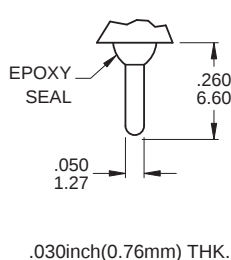
Note: Panel mounting see page 98.

▼ TERMINAL OPTIONS

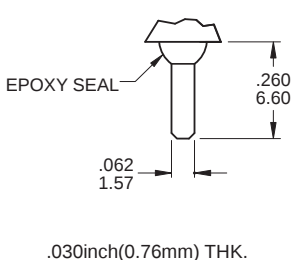
M1 Solder lug



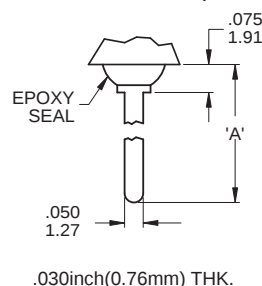
M2 PC Thru-hole



M3 Quick connect



M5 Wire Wrap

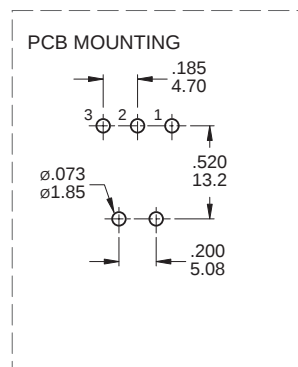
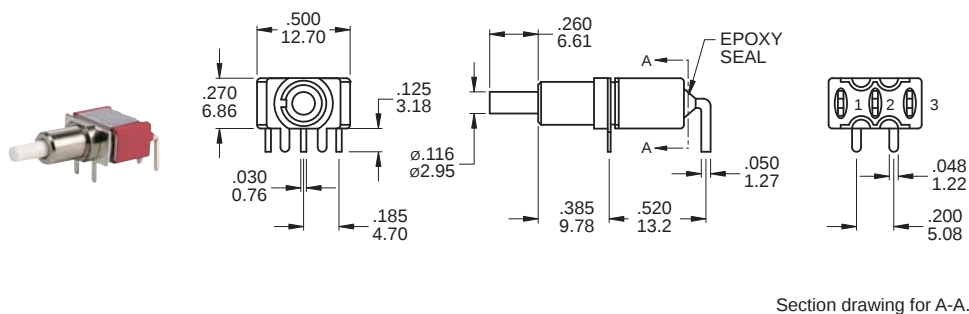


▼ OTHER TERMINAL OPTIONS

- M6** Right angle P.C. Mount
- M7** Right angle P.C. Mount
- VS2** Vertical bracket P.C. Mount
- VS3** Vertical bracket P.C. Mount
- 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)

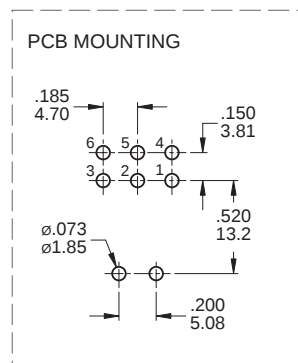
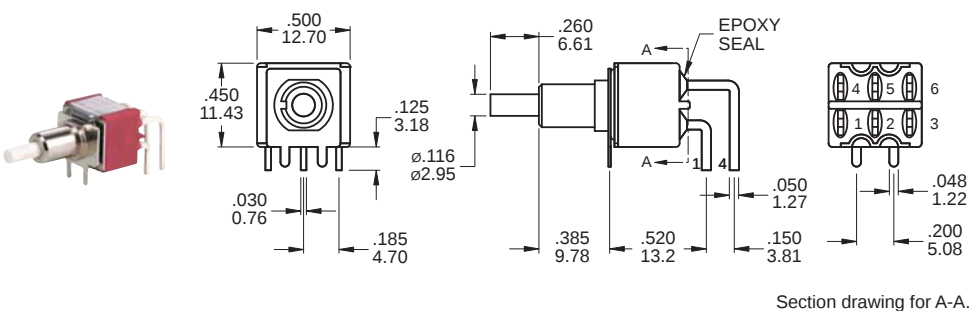
M6



SPDT

Model name. 7MSLP1B70M6QES

M6



DPDT

Model name. 7MDLP1B70M6QES



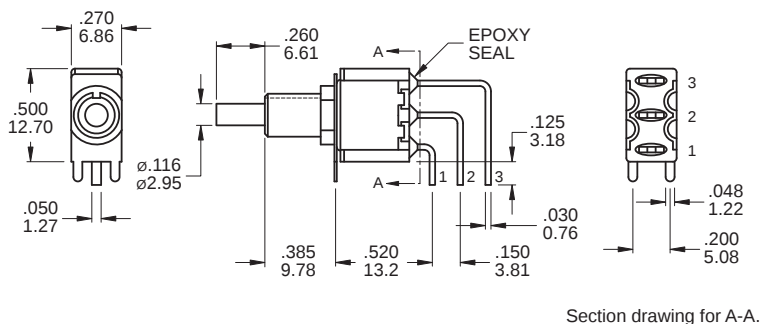
7M(LOCK) Series

Snap-Acting Pushbutton Switches

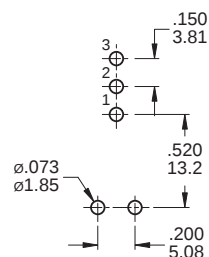


7M(LOCK)
Pushbutton Switches

M7



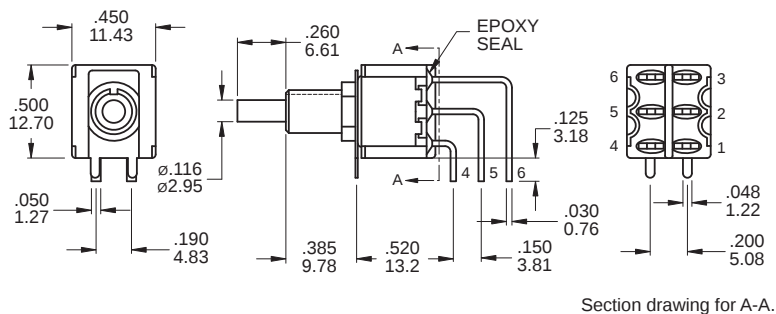
PCB MOUNTING



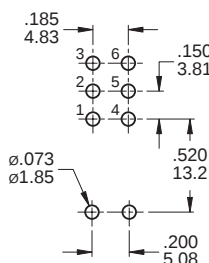
SPDT

Model name. 7MSLP1B70M7QES

M7



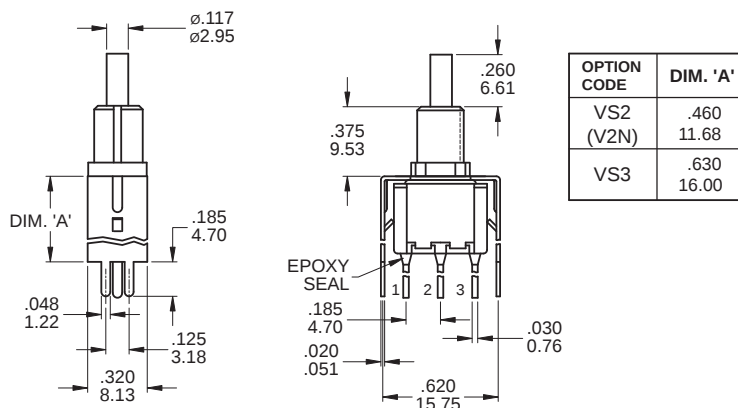
PCB MOUNTING



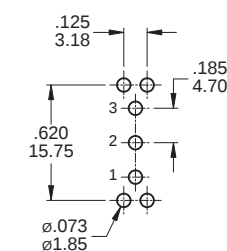
DPDT

Model name. 7MDLP1B70M7QES

VS2 / VS3
(V2N - Snap-in)



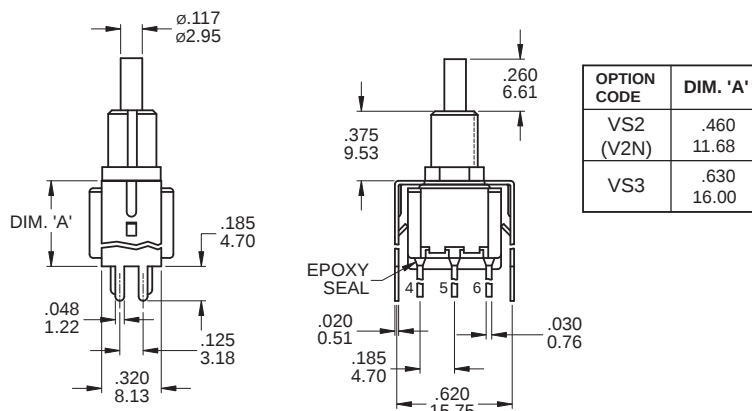
PCB MOUNTING



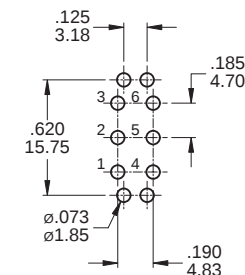
SPDT

Model name. 7MSLP1B70VS2QES

VS2 / VS3
(V2N - Snap-in)



PCB MOUNTING

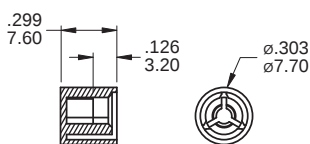


DPDT

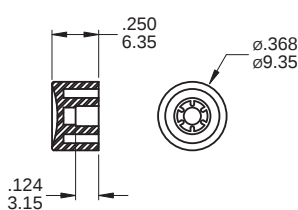
Model name. 7MDLP1B70VS2QES

▼ PLUNGER CAP OPTIONS

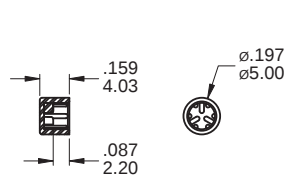
C1



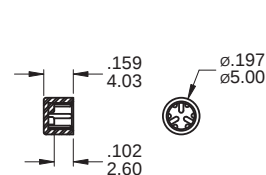
C2



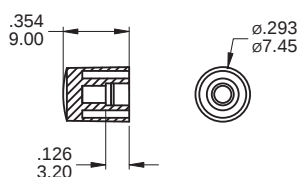
C3



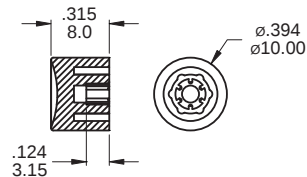
C4



C6



C7



CAP Color :

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

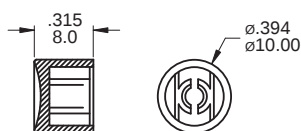
Note: Only available for 7M, 7A series

* Except standard color, for other colors information please consult sales representativity.

EXAMPLE:

Model name. Cap color
Cap type
0 No hardware
5 Standard hardware

K1



Only available for plunger PC

▼ HARDWARE

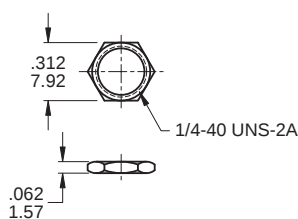
EXAMPLE: Model name. 5 Standard hardware

* Standard Hardware: 2 nut, 1 locking ring, 1 lockwasher

* For further information please consult sales representativity.

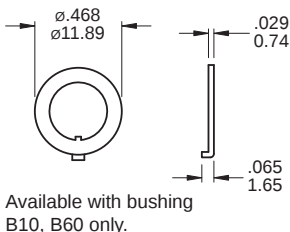
1/4 NUT (Std.)

Model name. MNU-1M01A



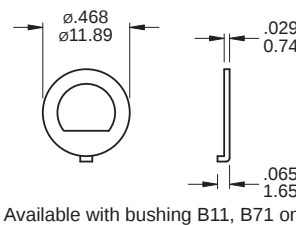
LOCKING RING (Std.)

Model name. MNU-1M02



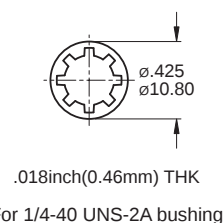
LOCKING RING (Std.)

Model name. MNU-1M11



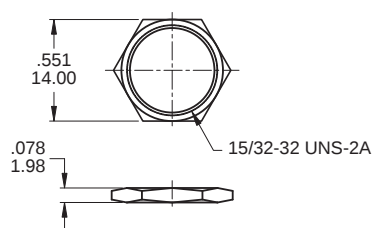
LOCKWASHER (Std.)

Model name. MNU-1M03



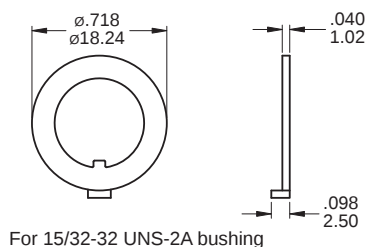
15/32 NUT (Std.)

Model name. MNU-1M07



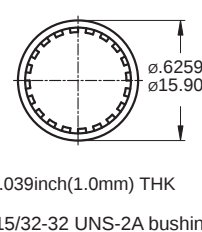
LOCKING RING (Std.)

Model name. MNU-1M08



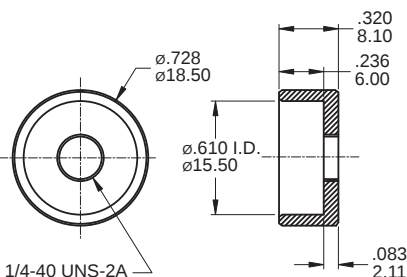
LOCKWASHER (Std.)

Model name. MNU-1M09



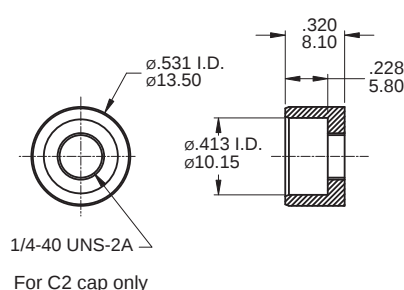
DRESS NUT

Model name. MNU-1M19 MOQ: 10K



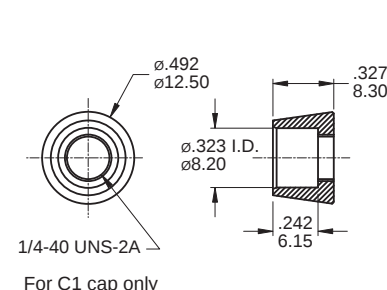
DRESS NUT

Model name. MNU-1M20 MOQ: 10K



DRESS NUT

Model name. MNU-1M21 MOQ: 10K





▼ CONTACT & TERMINAL PLATING OPTIONS

7M series

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

7M(LOCK) series

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

▼ 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 1.6mm)