

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material

see page 106.

MECHANICAL LIFE: 50,000 make-and-break cycles. **CONTACT RESISTANCE:** $20m\Omega$ max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: $1,000M\Omega$ min.

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

OPERATING TEMPERATURE: -30°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: Brass or Copper alloy, silver or gold plated.

%7MSL/7MDL with gold over silver for plating

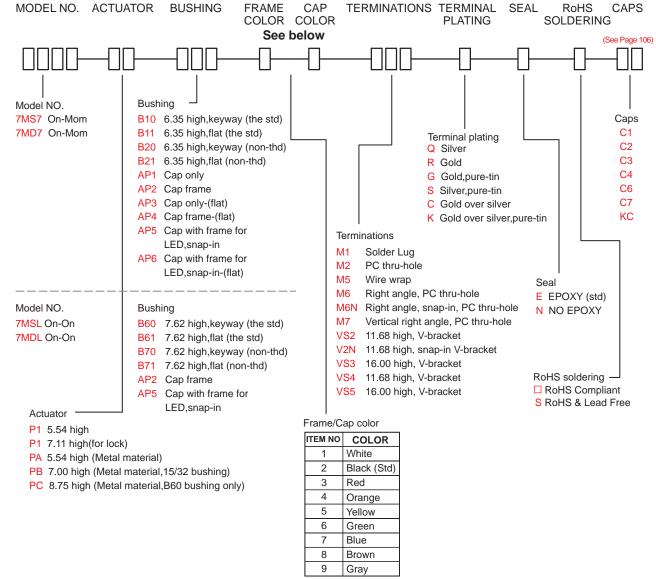
(See Page 106)

C 711 US





HOW TO ORDER



^{*} Besides standard color,

other colors need to check stocks available.

SWITCH FUNCTION

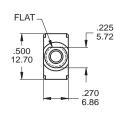
	UL/CSA	MODEL	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC			
NO.	MODEL	MODEL NO.	POS.1	POS.2		POS.1		POŞ.2
. 0220	NO.		1	4		4		1
SP	Q2717	7MS7	ON	MOM	1-3	1 (COMM) NC 3 • 2 NO	1-2	NC 3 • 1 (COMM) 2 NO
DP	Q2727	7MD7	ON	MOM	1-3,4-6	NC 3 2 NO NC 6 5 NO	1-2,4-5	NC 3 • 1 (COMM) 4 • 5 NO

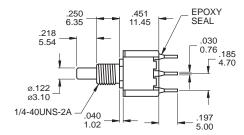
MOM= MOMENTARY

POLE OPTIONS

M1







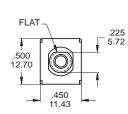


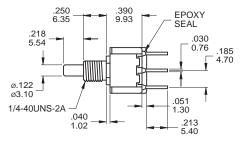
SPDT

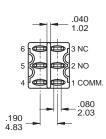
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M1







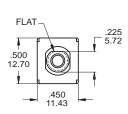


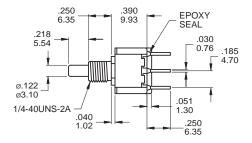
DPDT

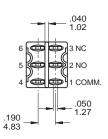
Part No. Shown: 7MD7P1B11M1QE

M2









DPDT

Part No. Shown: 7MD7P1B11M2RE

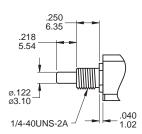
ACTUATOR OPTIONS

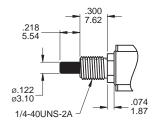
Р1

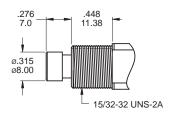
PAB60 handle, metal material

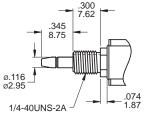
PBB13 handle, metal material

PCB60 handle, metal material









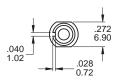
Use with B13 bushing only

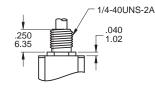
Use with B60 bushing std

* PC Actuator only for KC Cap

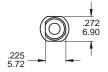
BUSHING OPTIONS

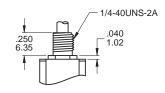
B10 THD STD B20 NON-THD





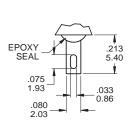
B11 THD STD B21 NON-THD





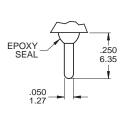
TERMINATION OPTIONS

M1 Solder lug



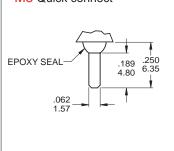
.030(0.76) THK.

M2 PC Thru-hole



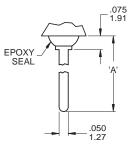
.030(0.76) THK.

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

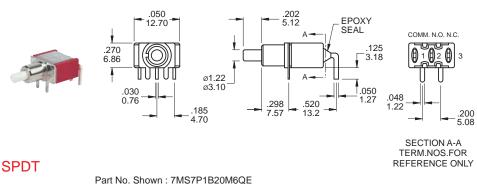
VS4 Vertical bracket P.C. Mount

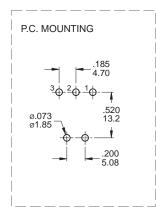
VS5 Vertical bracket P.C. Mount

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

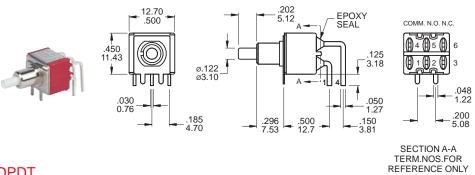
Pushbutton Switches

M6







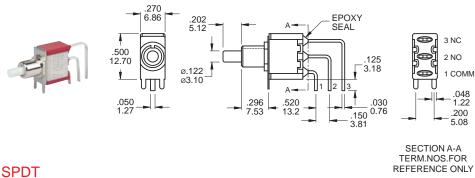


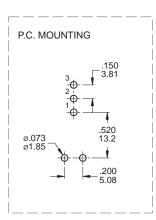
P.C. MOUNTING .185 4.70 3.81 5 d 4 d .500 ø.073 ø1.85 12.7 200 5.08

DPDT

Part No. Shown: 7MD7P1B20M6QE

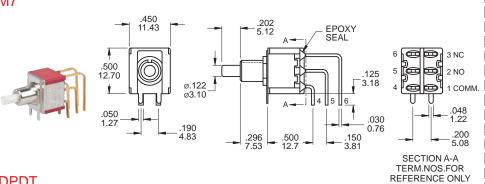
M7





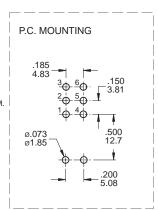
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M7

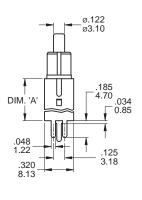


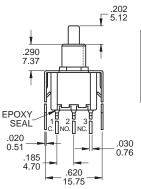


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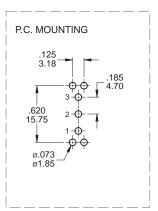








OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00

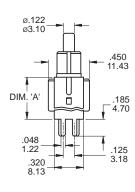


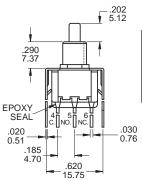
SPDT

Part No. Shown: 7MS7P1B20VS2RE

VS2 - VS3



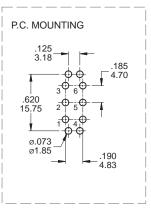




 OPTION CODE
 DIM. 'A'

 VS2
 .460 11.68

 VS3
 .630 16.00



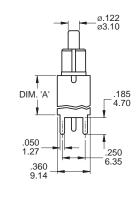
DPDT

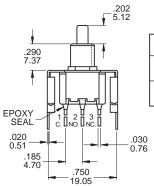
Pushbutton Switches

Part No. Shown: 7MD7P1B20VS2QE

VS4 - VS5







 OPTION CODE
 DIM. 'A'

 VS4
 .460 11.68

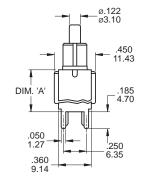
 VS5
 .630 16.00

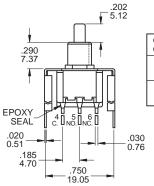
SPDT

Part No. Shown: 7MS7P1B20VS4QE

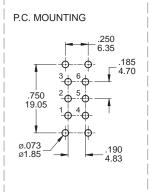
VS4 - VS5







OPTION CODE	DIM. 'A'
VS4	.460 11.68
VS5	.630 16.00



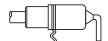
DPDT

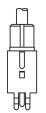
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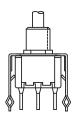
SNAP-IN TERMINATION OPTIONS

M6N V2N





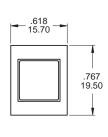


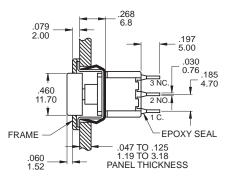


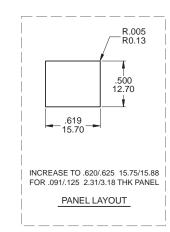
PANEL MOUNTING

AP2 CAP & FRAME







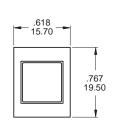


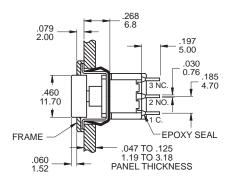
SPDT

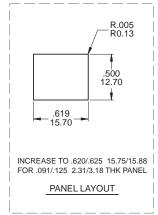
Part No. Shown: 7MS7AP223M1QE

AP2 CAP & FRAME







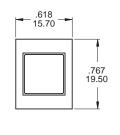


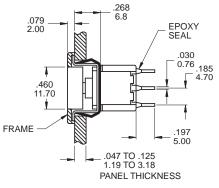
DPDT

Part No. Shown: 7MD7AP223M1QE

AP4 CAP & FRAME

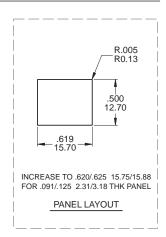






SPDT

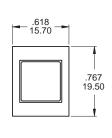
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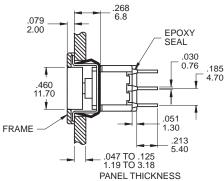


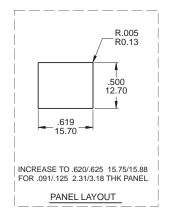
PANEL MOUNTING

AP4 CAP & FRAME







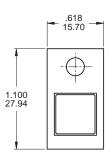


DPDT

Part No. Shown: 7MD7AP423M1RE

AP5 CAP & FRAME

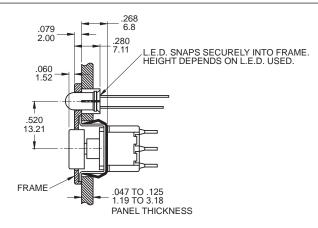






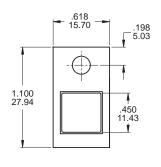
Pushbutton Switches

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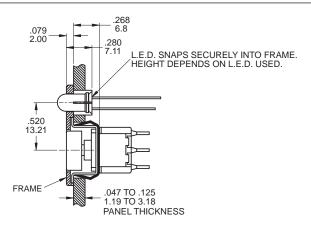
AP6 CAP & FRAME



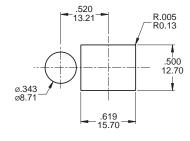


DPDT

Part No. Shown: 7MS7AP629M1RE



FOR AP5/AP6



PANEL LAYOUT

CAP AND FRAME COLORS

OPTION CODE	COLOR
1	WHITE
2	BLACK(std)
3	RED

^{*} Besides standard color, other colors need to check stocks available.

LED COLORS

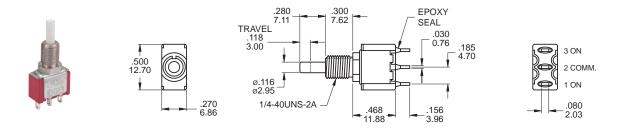
OPTION CODE	COLOR
3	RED(std)
4	ORANGE
6	GREEN

SWITCH FUNCTION

	UL/CSA		SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC			
NO. POLES	MODEL	MODEL	POS.1	POS.2		POS.1		POS.2 _.
FOLES	NO.	NO.	4	4		1		1
SP	Q27	7MSL	ON	ON	1-2	ON 1 • 3 ON	2-3	ON 1 • 2 (COMM)
DP	Q27	7MDL	ON	ON	1-2,4-5	2 (COMM) 59 0N 1 3 ON ON 4 6 ON	2-3,5-6	ON 1 • 3 ON ON 4 • 6 ON

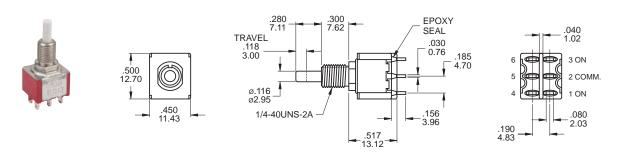
MOM=MOMENTARY

POLE OPTIONS



SPDT

Part No. Shown: 7MSLP1B60M1QE

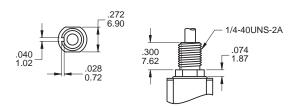


DPDT

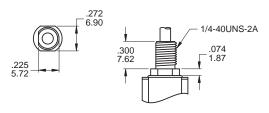
Part No. Shown: 7MDLP1B60M1QE

BUSHING OPTIONS

B60 THD STD B70 NON-THD

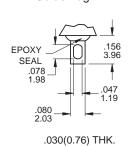


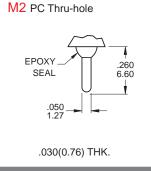
B61 THD STD B71 NON-THD

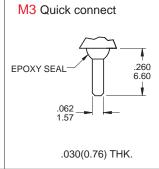


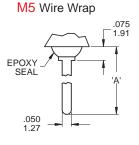
TERMINATION OPTIONS

M1 Solder lug









.030(0.76) THK.

OPTIONS TERMINATION

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

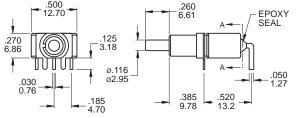
TERMINATION OPTIONS

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

M6

Pushbutton Switches

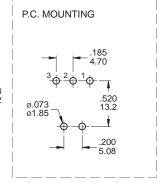






SECTION A-A TERM.NOS.FOR

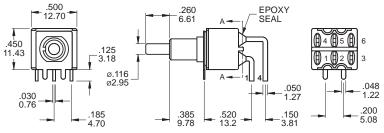
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M6

SPDT

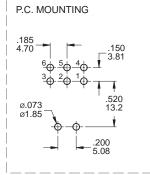




DPDT

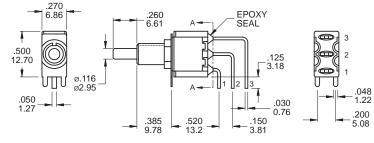
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SECTION A-A TERM.NOS.FOR REFERENCE ONLY



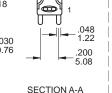
M7



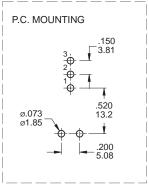


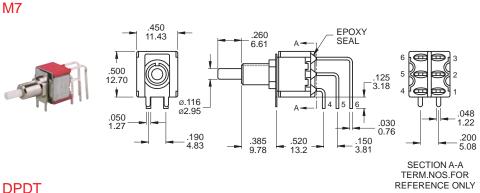
SPDT

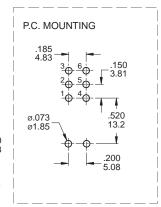
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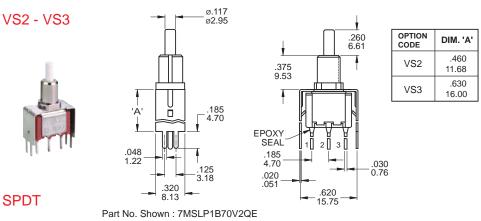
SECTION A-A TERM.NOS.FOR REFERENCE ONLY

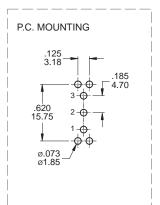


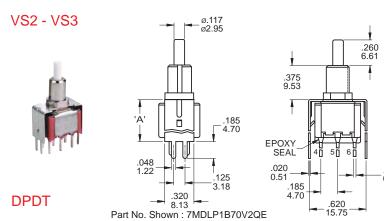


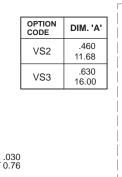


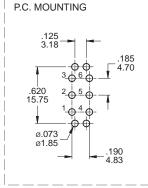
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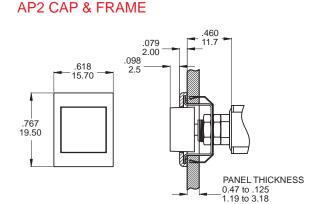


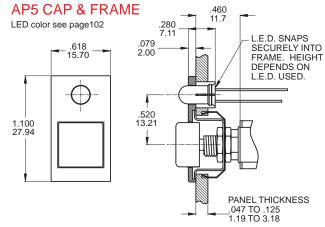






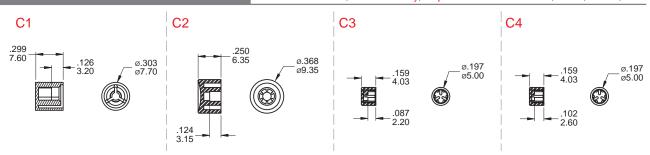


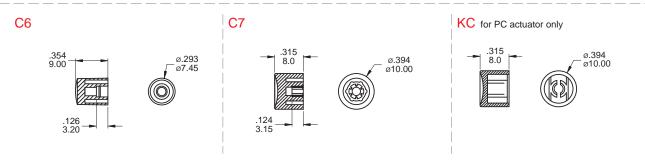




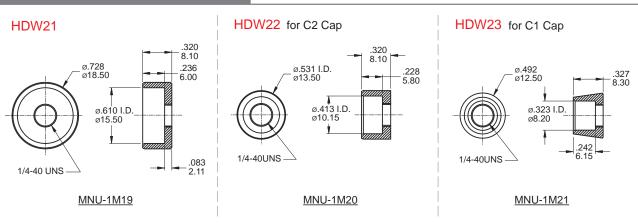
CAP OPTIONS

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





DRESS NUTS



CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	
S	※7MSL/7MDL with gold over silver for plating	S = Silver,pure - tin	3 Amps with resistant load @ 120VAC or 28VDC
С	Gold over Silver	C = Gold over silver	1 Amps with resistant load @ 250VAC
K	Gold over Sliver	K = Gold over silver,pure - tin	
R	Gold R = Gold		0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G	Gold	G = Gold,pure - tin	O.4 VOIL - AITIPS (VA) ITIAX. @ 20V ITIAX. (AC OI 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: 260 ± 5°C

Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)