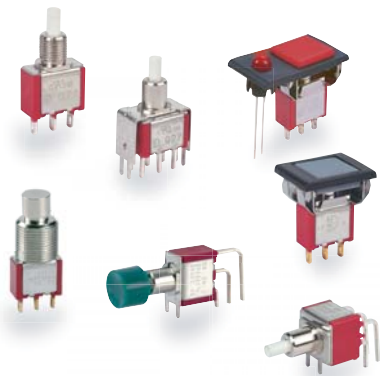


7M Series

Snap-Acting Pushbutton Switches



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material
see page 107.

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: 1,000 Vrms min.@sea level.

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: Brass or Copper alloy, silver or gold plated.

※7MSL/7MDL with gold over silver for plating
(See Page 107)

7M
Pushbutton Switches

HOW TO ORDER

MODEL NO.

ACTUATOR

BUSHING

TERMINATIONS

TERMINAL PLATING

SEAL

RoHS SOLDERING

ADDITIONAL HARDWARE

CAP

CAP COLOR

Model NO.
7MS7 ON-(ON)
7MD7 ON-(ON)

Bushing
B10 6.35 high,keyway (the std)
B11 6.35 high,flat (the std)
B20 6.35 high,keyway (non-thd)
B21 6.35 high,flat (non-thd)
B60 7.62 high,keyway (the)
B61 7.62 high,flat (thd)
B70 7.62 high,keyway (non-thd)
B71 7.62 high,flat (non-thd)

Actuator
P1 5.54 high
PA 5.54 high (Metal material)
PB 7.00 high (Metal material,15/32 bushing)
PC 8.75 high (Metal material,B60 bushing only)

Terminal plating
Q Silver
R Gold
C Gold over silver

Seal
E EPOXY (std)
N NO EPOXY

RoHS soldering
S RoHS & Lead Free

Additional hardware
0 Without
5 Additional hardware

Cap (See Page 107)
C1
C2
C3
C4
C6
C7
KC

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

Cap Color

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

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

MODEL NO.

FRAME

FRAME COLOR

CAP COLOR

TERMINATIONS

TERMINAL PLATING

SEAL

RoHS SOLDERING

LED COLOR

Model NO.
7MS7 ON-(ON)
7MD7 ON-(ON)

Frame
AP2 Cap
AP4 Cap(flat)
AP5 Cap with frame for LED,snap-in
AP6 Cap with frame for LED,snap-in(flat)

Color

ITEM NO	COLOR
0	Without
1	White
2	Black (Std)
3	Red

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

Terminations
M1 Solder Lug
M2 PC thru-hole
M5 Wire wrap
M6 Right angle, 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

Terminal plating
Q Silver
R Gold
C Gold over silver

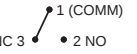
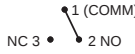
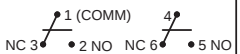
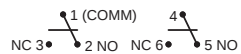
Seal
E EPOXY (std)
N NO EPOXY

RoHS soldering
S RoHS & Lead Free

LED Color

ITEM NO	COLOR
R	Red (Std)
G	Green
Y	Yellow

SWITCH FUNCTION

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

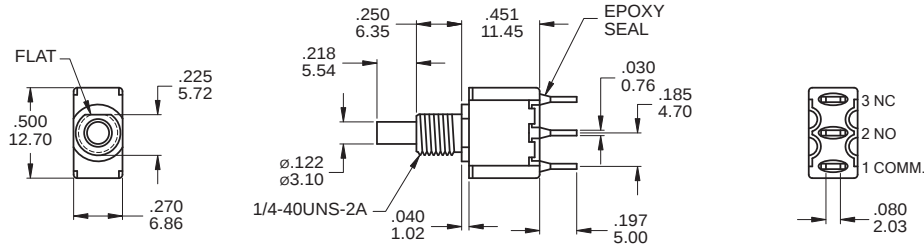
() = MOMENTARY

POLE OPTIONS



7M
Pushbutton Switches

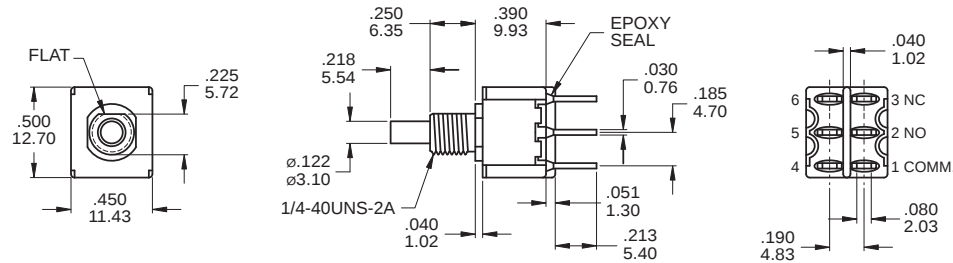
M1



SPDT

Part No. Shown : 7MS7P1B11M1QES

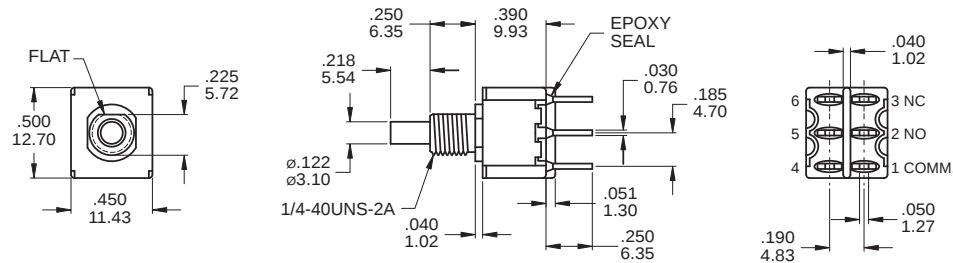
M1



DPDT

Part No. Shown : 7MD7P1B11M1QES

M2



DPDT

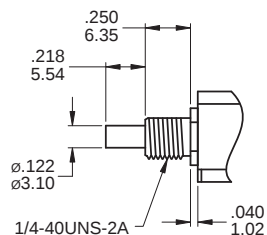
Part No. Shown : 7MD7P1B11M2RES

7M Series

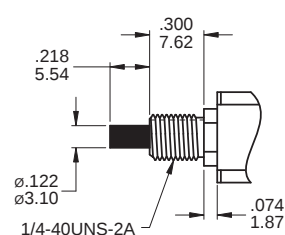
Snap-Acting Pushbutton Switches

ACTUATOR OPTIONS

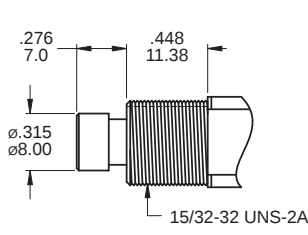
P1



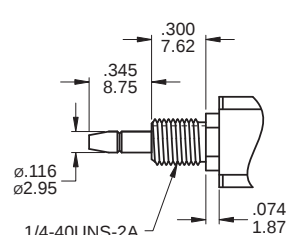
PAB60 handle, metal material



PBB13 handle, metal material



PCB60 handle, metal material

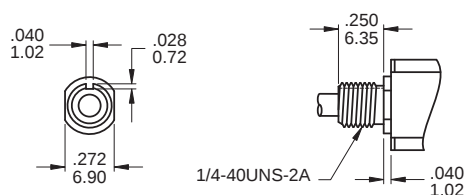


Use with B13 bushing only

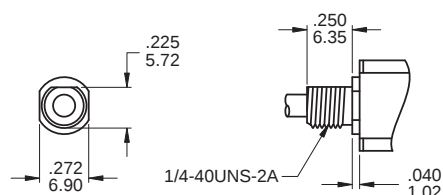
Use with B60 bushing std
* PC Actuator only for KC Cap

BUSHING OPTIONS

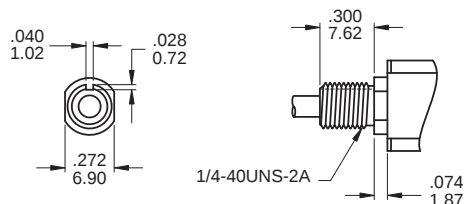
B10 THD STD
B20 NON-THD



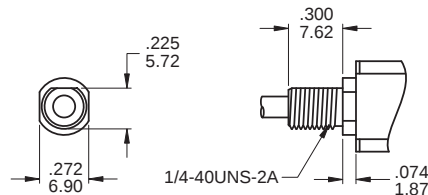
B11 THD STD
B21 NON-THD



B60 THD
B70 NON-THD

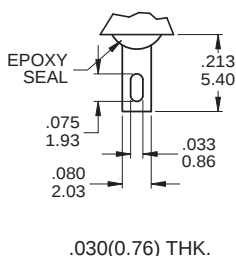


B61 THD
B71 NON-THD

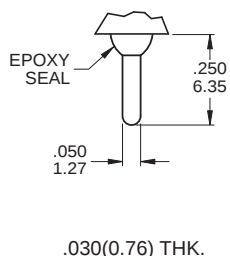


TERMINATION OPTIONS

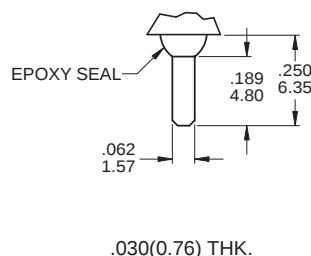
M1 Solder lug



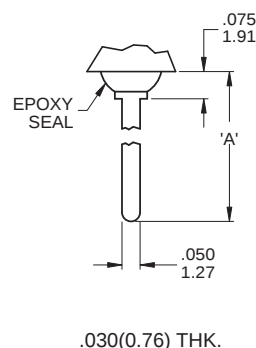
M2 PC Thru-hole



M3 Quick connect



M5 Wire Wrap



OTHER TERMINATION OPTIONS

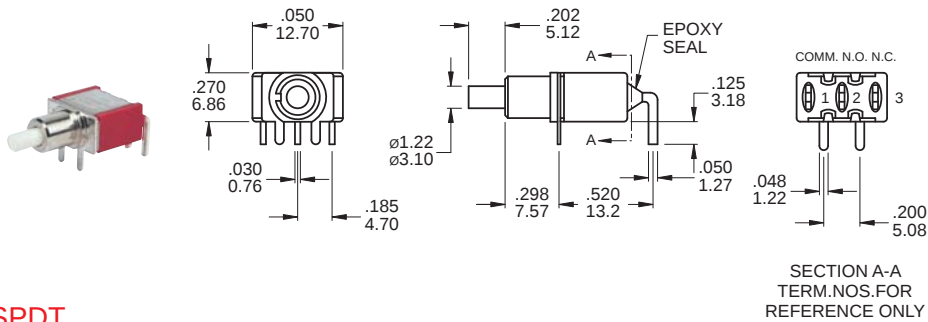
M6 Right angle P.C. Mount
M7 Right angle P.C. Mount
VS2 Vertical bracket P.C. Mount
VS3 Vertical bracket P.C. Mount
VS4 Vertical bracket P.C. Mount
VS5 Vertical bracket P.C. Mount

M6N Right angle P.C. Mount
Snap-in bracket
V2N Vertical bracket P.C. Mount
Snap-in bracket

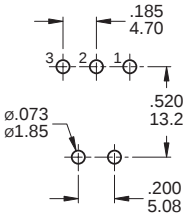
OPTION CODE	DIM. 'A'
M51	.750 (19.50)
M52	.964 (24.48)
M53	.426 (10.80)
M54	.650 (16.50)



M6



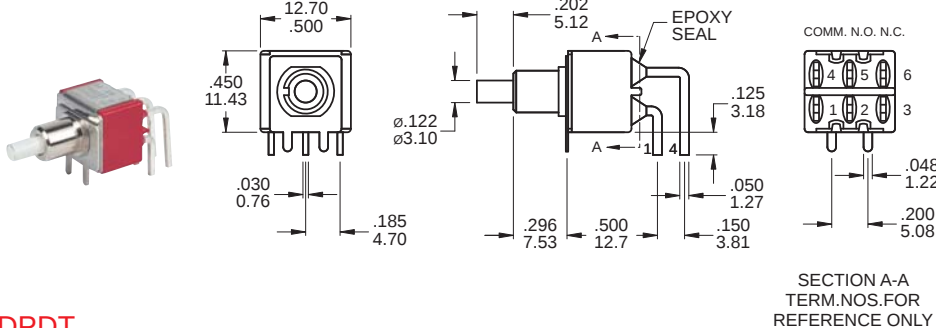
P.C. MOUNTING



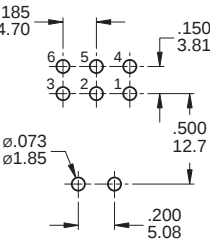
SPDT

Part No. Shown : 7MS7P1B20M6QES

M6



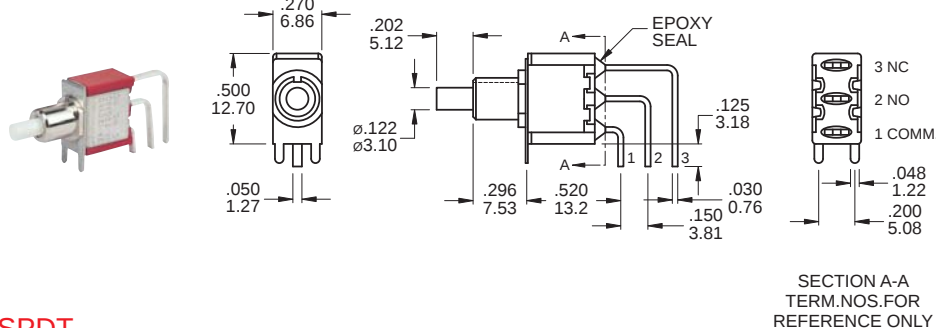
P.C. MOUNTING



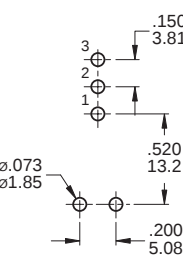
DPDT

Part No. Shown : 7MD7P1B20M6QES

M7



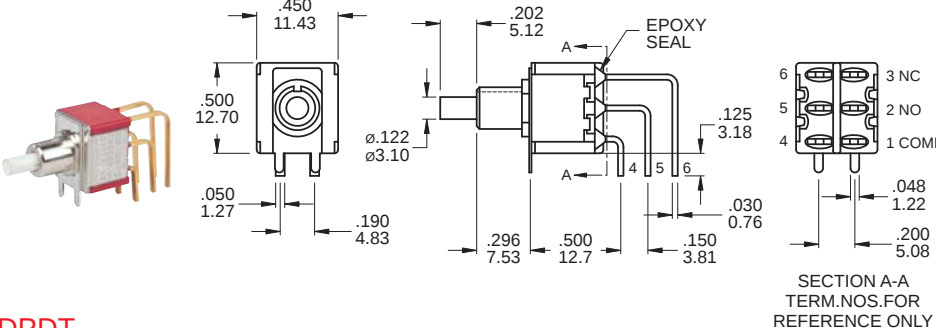
P.C. MOUNTING



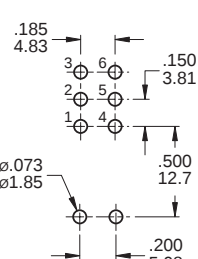
SPDT

Part No. Shown : 7MS7P1B20M7QES

M7



P.C. MOUNTING



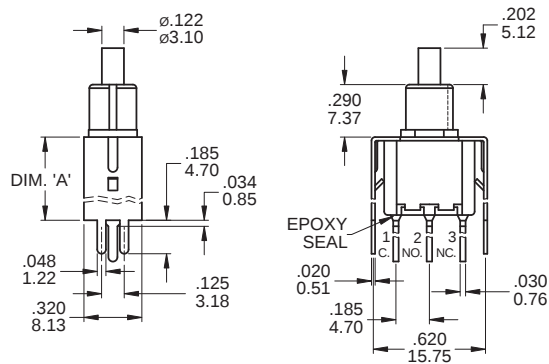
DPDT

Part No. Shown : 7MD7P1B20M7RES

7M Series

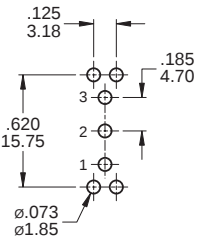
Snap-Acting Pushbutton Switches

VS2 - VS3



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

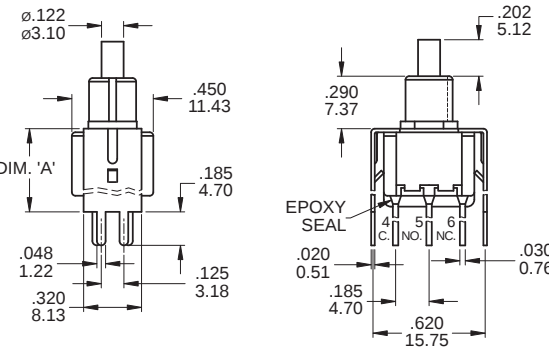
P.C. MOUNTING



SPDT

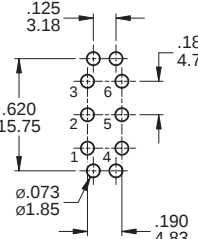
Part No. Shown : 7MS7P1B20VS2RES

VS2 - VS3



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

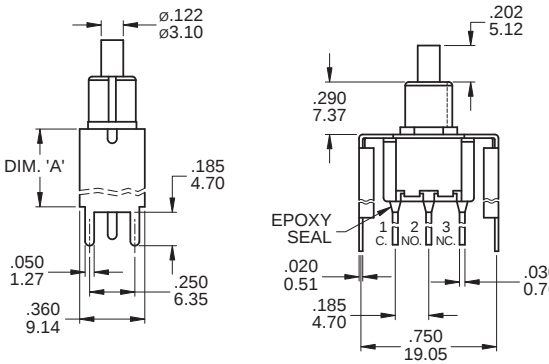
P.C. MOUNTING



DPDT

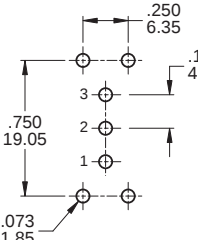
Part No. Shown : 7MD7P1B20VS2QES

VS4 - VS5



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

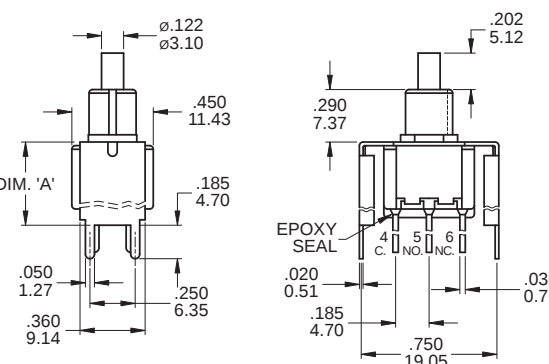
P.C. MOUNTING



SPDT

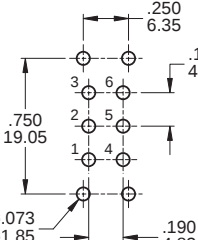
Part No. Shown : 7MS7P1B20VS4QES

VS4 - VS5



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

P.C. MOUNTING

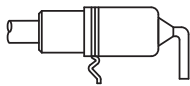


DPDT

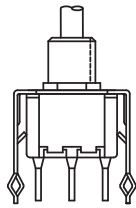
Part No. Shown : 7MD7P1B20VS4QES

SNAP-IN TERMINATION OPTIONS

M6N

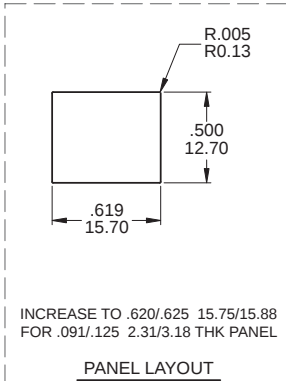
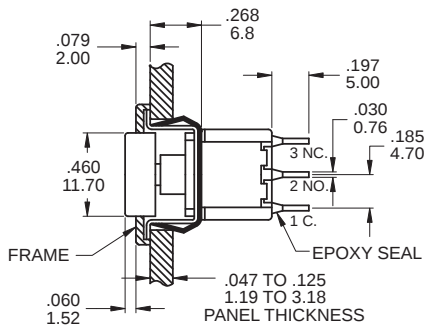
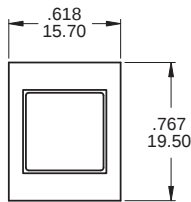


V2N



PANEL MOUNTING

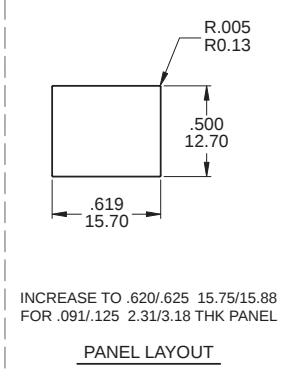
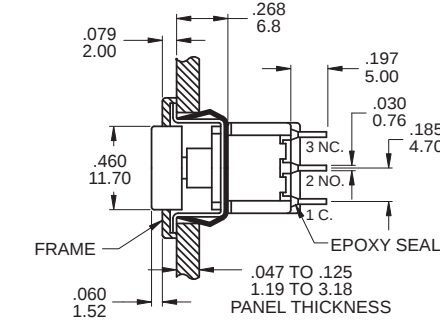
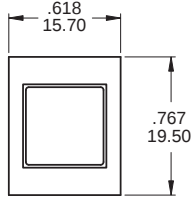
AP2 CAP & FRAME



SPDT

Part No. Shown : 7MS7AP223M1QES

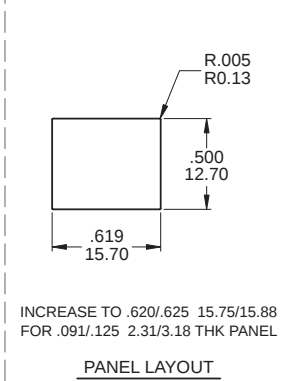
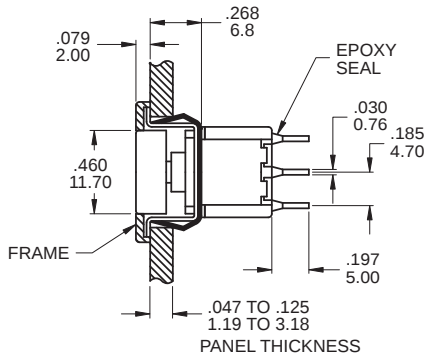
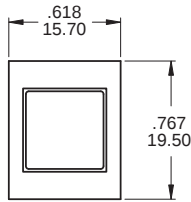
AP2 CAP & FRAME



DPDT

Part No. Shown : 7MD7AP223M1QES

AP4 CAP & FRAME



SPDT

Part No. Shown : 7MS7AP429M1RES



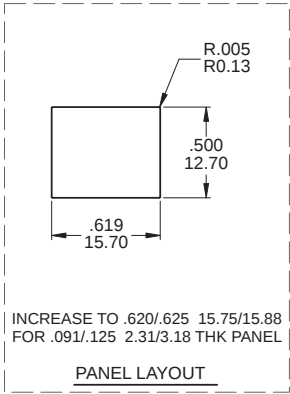
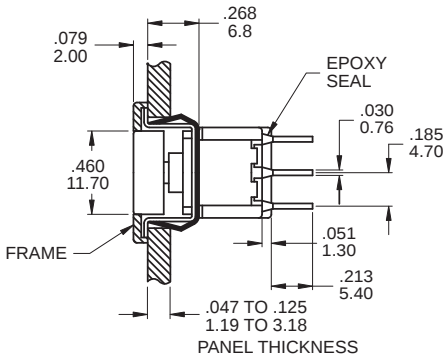
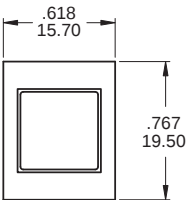
7M
Pushbutton Switches

7M Series

Snap-Acting Pushbutton Switches

PANEL MOUNTING

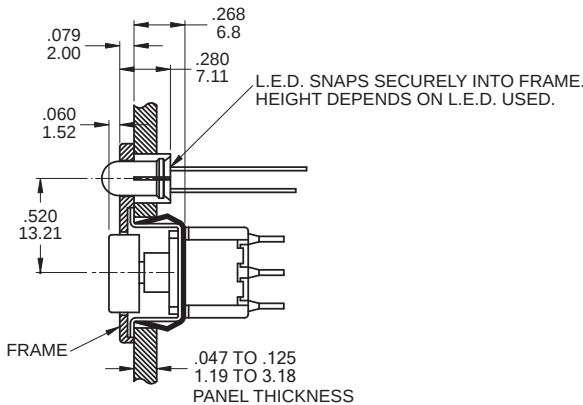
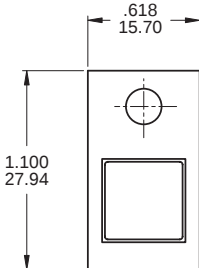
AP4 CAP & FRAME



DPDT

Part No. Shown : 7MD7AP423M1RES

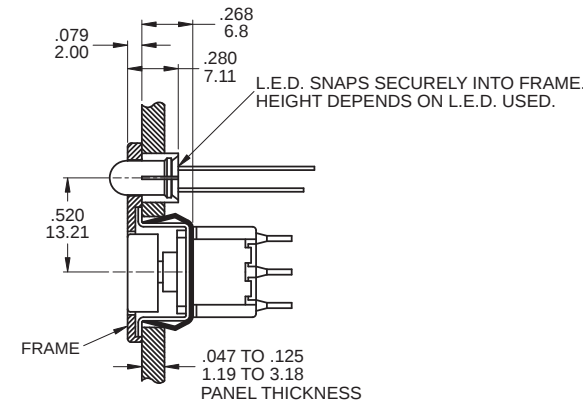
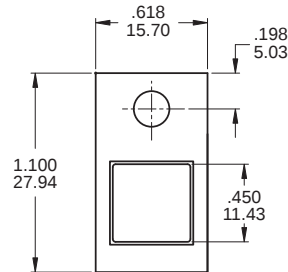
AP5 CAP & FRAME



SPDT

Part No. Shown : 7MS7AP523M1QES

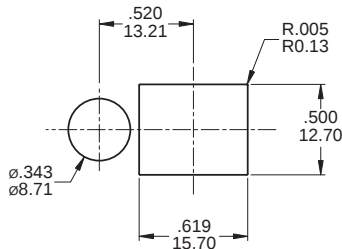
AP6 CAP & FRAME



SPDT

Part No. Shown : 7MS7AP629M1RES

FOR AP5/AP6



PANEL LAYOUT

CAP AND FRAME COLORS

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

LED COLORS

OPTION CODE	COLOR
R	RED(std)
G	GREEN
Y	YELLOW

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Dailywell:](#)

[7MD7B11M7QES](#) [7MS7P1B20M7QES](#) [7MS7P1B20M6QES](#) [7MS7P1B10M1QES-1C23](#) [7MD7B11M1QES](#)
[7MS7AP223M1QES](#) [7MS7B10M1QES](#) [7MD7P1B11M1QES](#) [7MD7P1B20M6QES](#) [7MS7P1B10M6QES](#)
[7MS7P1B20VS2QES](#) [7MDLP1B70M6QES](#) [7MSLP1B70M6QES](#) [7MS7P1B60M1QES](#) [7MDLPBB13M1QES](#)
[7MS7P1B11M1QES](#) [7MD7P1B10M1QES](#) [7MS7PCB60M1QES](#) [7MD7PCB60M1QES](#) [7MS7P1B10M1QES](#)