

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 117.

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

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

INSULATION RESISTANCE: 1,000 MΩ min.

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

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE: Diallyl phthalate(DAP) (UL94V-0).

PLUNGER: Nylon 6/6,black.

BUSHING: Brass or zinc,nickel plated.

HOUSING: Stainless Steel.

SWITCH SUPPORT: Brass.tin plated.

CONTACT/TERMINAL: Copper alloy or Brass, with silver or gold plated.(See Page 117)



HOW TO ORDER

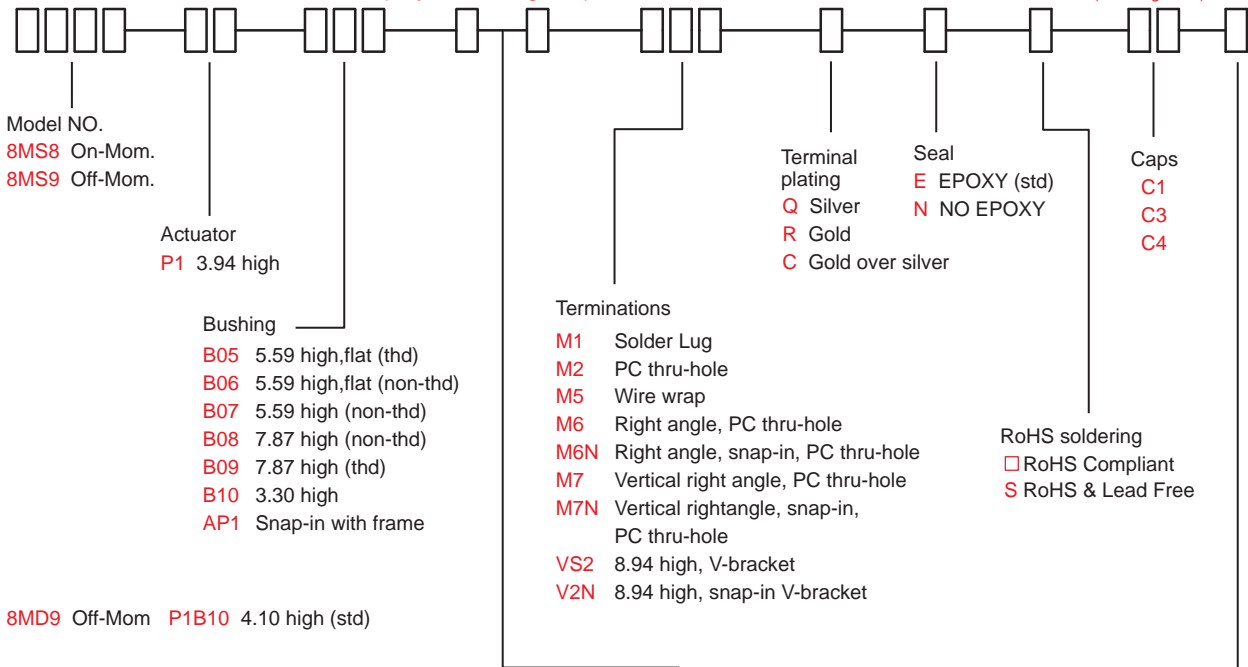
MODEL NO. ACTUATOR BUSHING FRAME CAP TERMINATIONS TERMINAL SEAL RoHS CAPS CAP
COLOR COLOR COLOR COLOR PLATING SOLDERING COLOR COLOR

See below

See below

(only for bushing AP1)

(See Page 115)



8MD9 Off-Mom P1B10 4.10 high (std)

Model NO. Actuator Bushing
8MSL On-On P1 4.29 high B05 5.24 high,flat (thd)
B06 5.24 high,flat (non-thd)

Frame/Cap color

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

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



8M Pushbutton Switches

8M Series

Sub-Miniature Pushbutton Switches

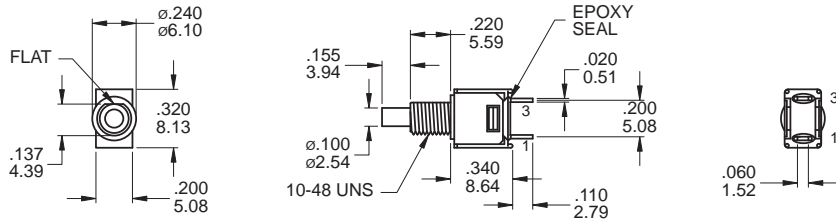
SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
			POS.1	POS.2	POS.1	POS.2
SP	Q2818	8MS8	ON	MOM	2-1 	2-3
	Q2819	8MS9	OFF	MOM	OPEN	1-3
DP	Q2829	8MD9	OFF	MOM	OPEN	1-3,4-6

MOM=MOMENTARY

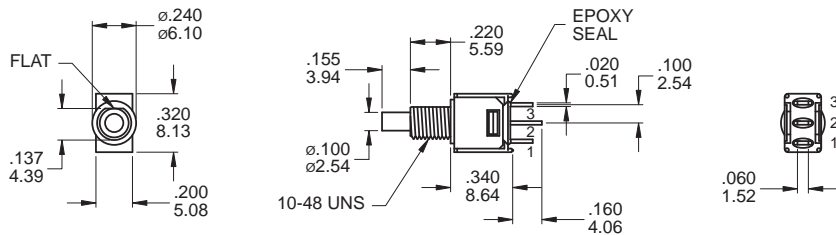
POLE OPTIONS

8M Pushbutton Switches



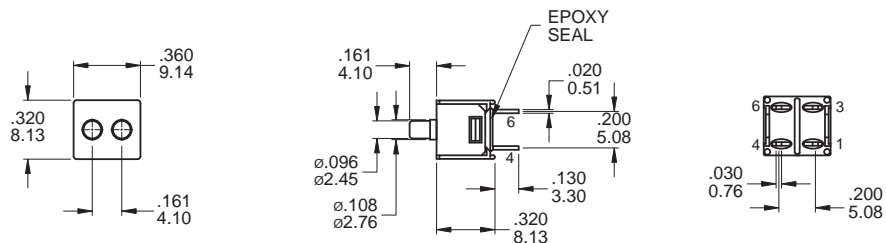
SPST

Part No. Shown : 8MS9P1B05M1QE



SPDT

Part No. Shown : 8MS8P1B05M1QE

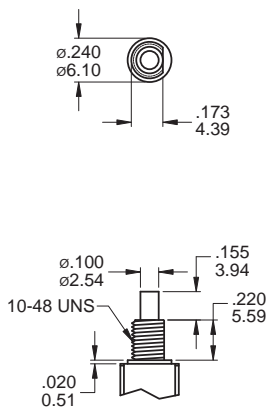


DPST

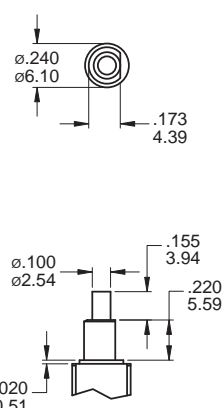
Part No. Shown : 8MD9P1B10M2RE

BUSHING OPTIONS

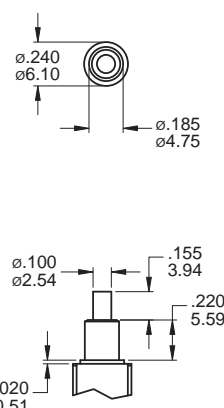
B05 THD



B06 NON-THD

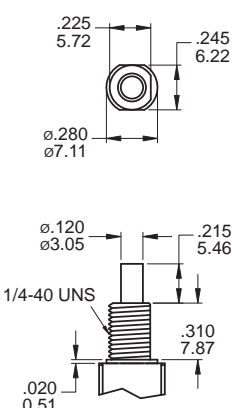


B07 NON-THD

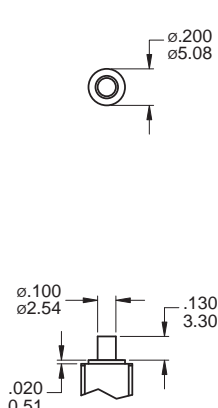


B08 NON-THD

B09 THD



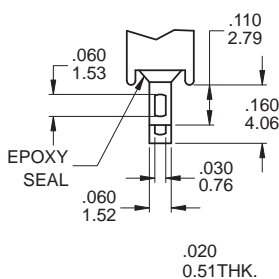
B10



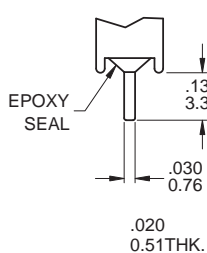
8M Pushbutton Switches

TERMINATION OPTIONS

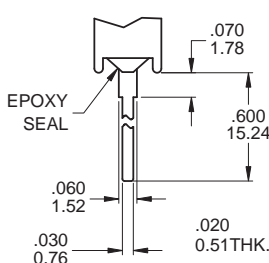
M1 Solder lug



M2 PC Thru-hole



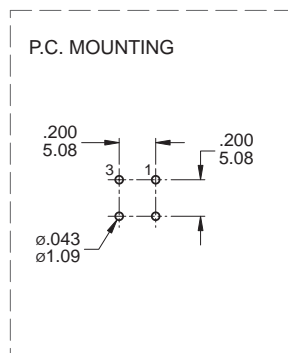
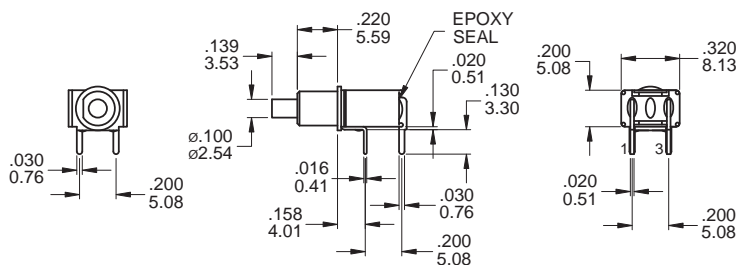
M5 Wire Wrap



OTHER TERMINATION OPTIONS

- M6** Right angle P.C. Mount
- M6N** Right angle P.C. Mount with snap-in bracket
- M7** Right angle P.C. Mount
- M7N** Right angle P.C. Mount with snap-in bracket
- VS2** Right angle P.C. Mount
- V2N** Vertical bracket P.C. Mount with snap-in bracket

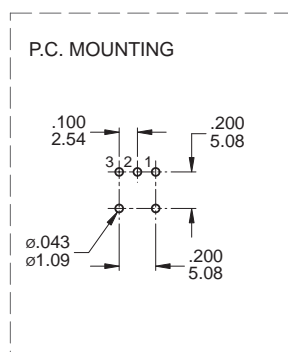
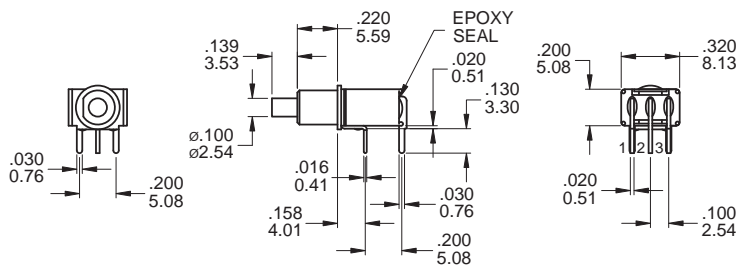
M6



SPST

Part No. Shown : 8MS9P1B06M6RE

M6



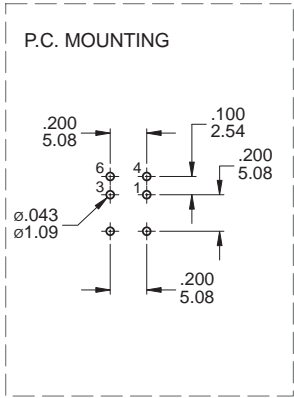
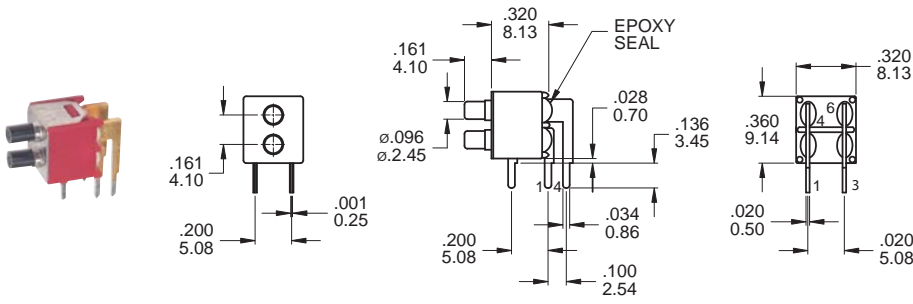
SPDT

Part No. Shown : 8MS8P1B06M6QE

8M Series

Sub-Miniature Pushbutton Switches

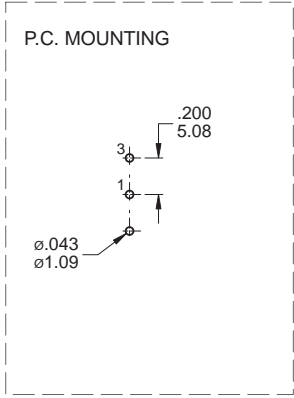
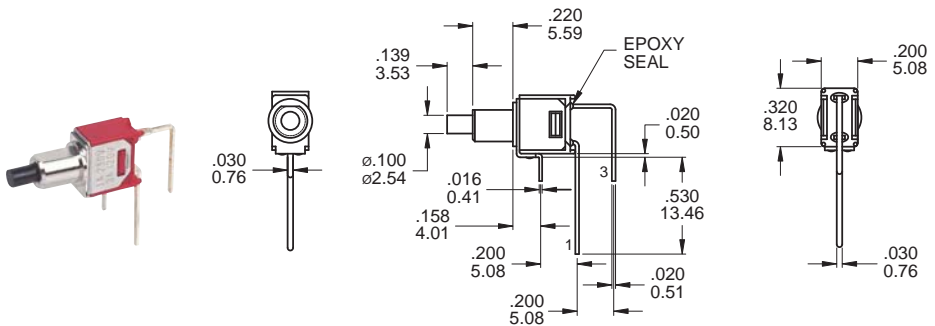
M6



DPST

Part No. Shown : 8MD9P1B10M6RE

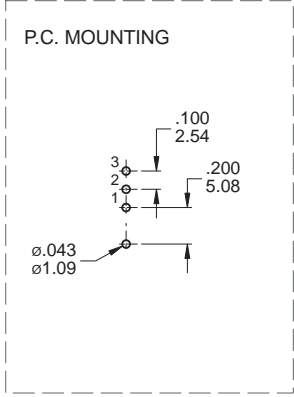
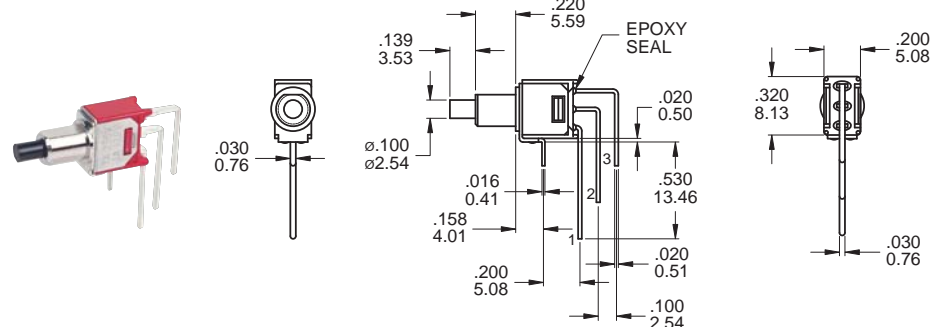
M7



SPST

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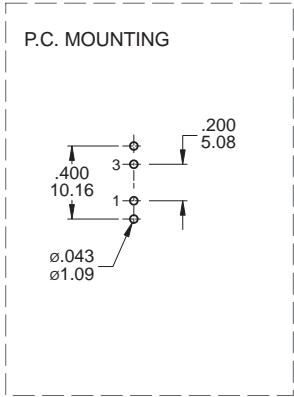
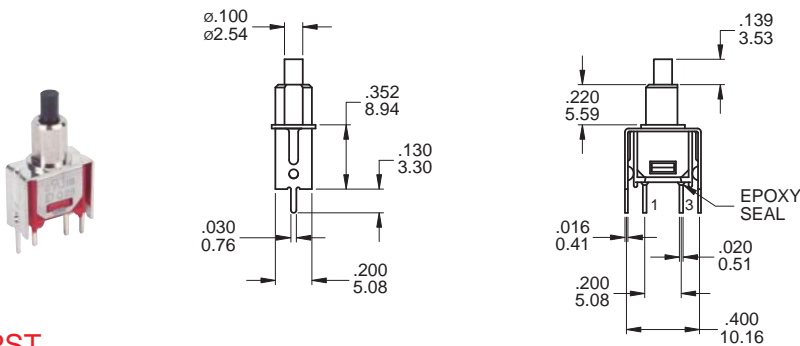
M7



SPDT

Part No. Shown : 8MS8P1B06M7QE

VS2

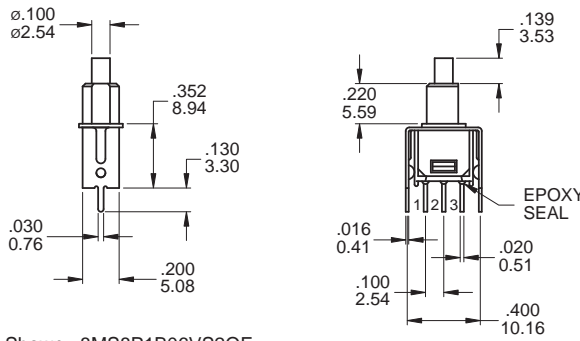


SPST

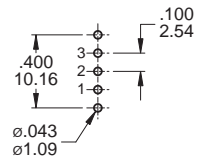
Part No. Shown : 8MS9P1B06VS2QE

8M Pushbutton Switches

VS2



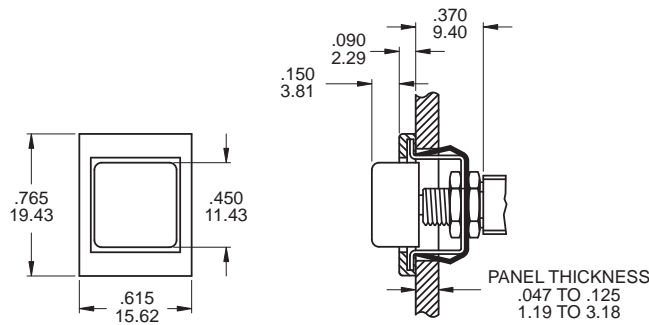
P.C. MOUNTING



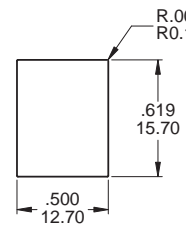
SPDT

Part No. Shown : 8MS8P1B06VS2QE

AP1



PANEL MOUNTING

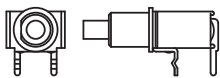


SPST

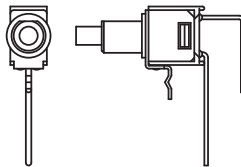
Part No. Shown : 8MS9AP122M1QE

SNAP-IN TERMINATION OPTIONS

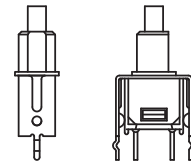
M6N



M7N

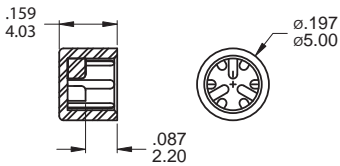


V2N

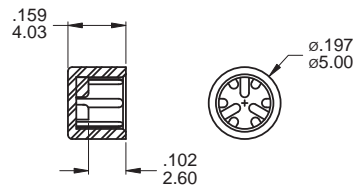


CAP OPTIONS

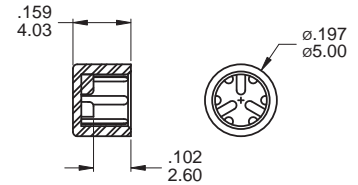
C1 For 8M Series ONLY



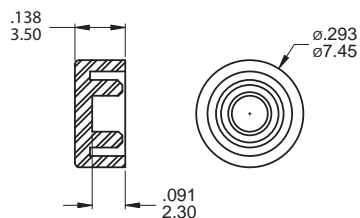
C2 For 8A,8B Series ONLY



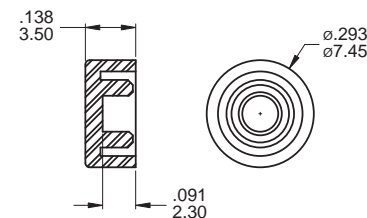
C3 For 8M Series B8,B9 Bushing ONLY



C4 For 8M Series ONLY



C5 For 8A,8B Series ONLY



Cap Standard Color : White, Black, Red, Green



8M Series

Sub-Miniature Pushbutton Switches

SWITCH FUNCTION

SPECIFICATIONS

RATING: 1A 250VAC, 3A 120VAC or 28VDC
ELECTRICAL LIFE: 6,000 cycles.
CONTACT RESISTANCE: R=20 mΩ max. ,Q=50 mΩ max.
INSULATION RESISTANCE: 1,000 MΩ min., 1000VDC
DIELECTRIC STRENGTH: 1,000 VAC for 1 Minute.
OPERATING TEMPERATURE: -30°C to 85°C.

FULL TRAVEL: 1.88±0.30mm
OPERATING TRAVEL: 1.34±0.25mm
OPERATING FORCE: 350±100g

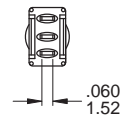
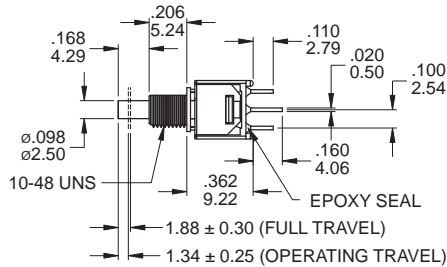
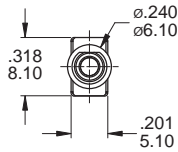
MATERIALS

CASE: Diallyl phthalate(DAP) (UL94V-0).
PLUNGER: Nylon glass fiber.
BUSHING: Brass,nickel plated.
HOUSING: Stainless.
SWITCH SUPPORT: Brass,tin plated.
CONTACT/TERMINAL:Brass, with silver or gold plated. (See Page 117)

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION	
			POS.1	POS.2
SP	Q28	8MSL	ON	ON
CONNECTED TERMINALS / SCHEMATIC				
POS.1			POS.2	

POLE OPTIONS

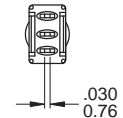
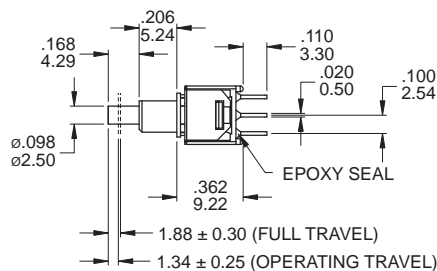
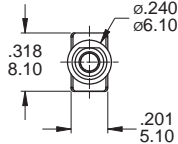
M1



SPDT

Part No. Shown : 8MSL1B05M1QE

M2

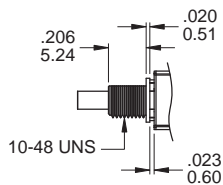
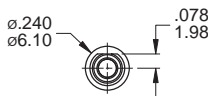


SPDT

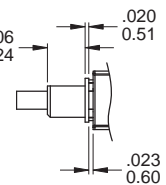
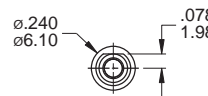
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BUSHING AND TERMINATION OPTIONS

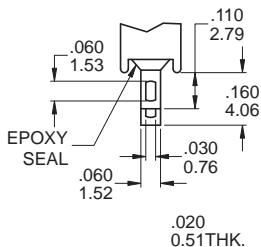
B05 THD



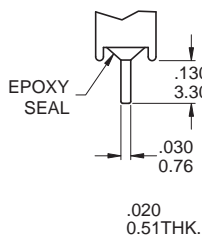
B06 NON-THD



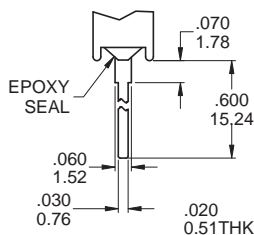
M1 Solder lug



M2 PC Thru-hole



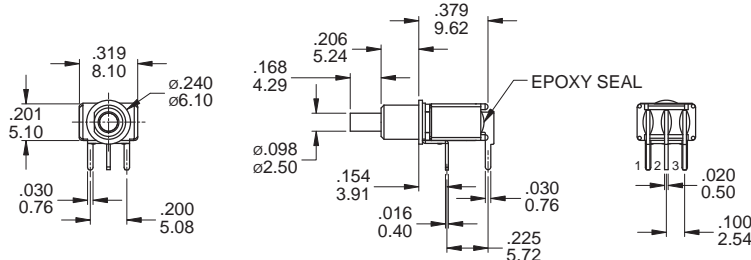
M5 Wire Wrap



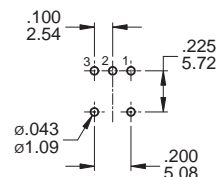
OTHER TERMINATION OPTIONS

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

M6



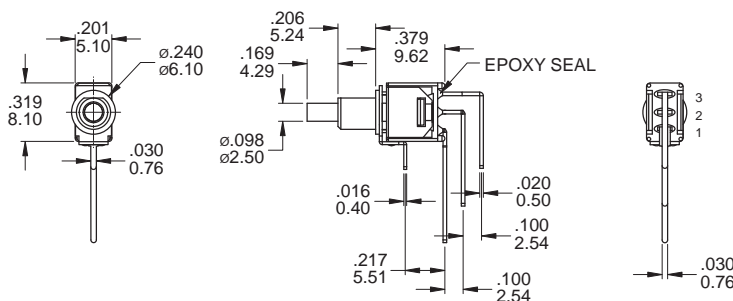
P.C. MOUNTING



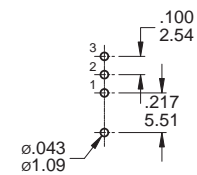
SPDT

Part No. Shown : 8MSLP1B06M6QE

M7



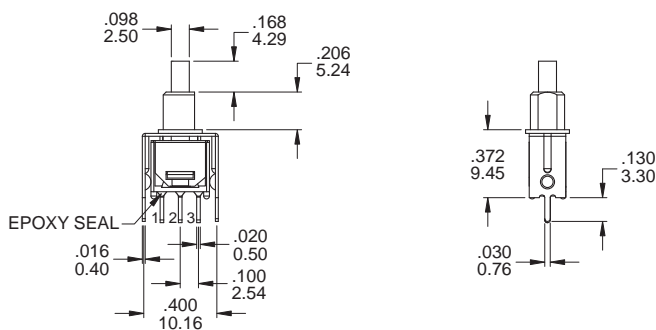
P.C. MOUNTING



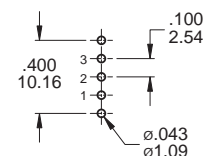
SPDT

Part No. Shown : 8MSLP1B06M7QE

VS2



P.C. MOUNTING



SPDT

Part No. Shown : 8MSLP1B06VS2QE

CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
C	Gold over Silver	C = Gold over silver	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or 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: 270 ± 5°C

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



8M(Lock)
Pushbutton Switches