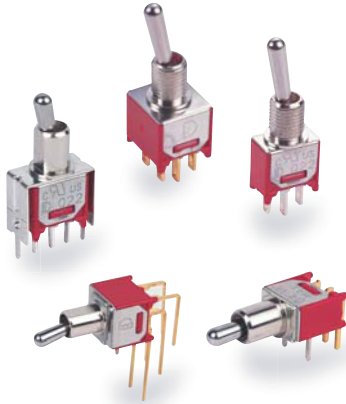


2M Series

Sub-Miniature Toggle Switches



2M Toggle Switches

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 29.

MECHANICAL LIFE: 30,000 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: -40°C to 85°C.

MATERIALS

CASE: Diallyl phthalate (DAP) (UL94v-0).

ACTUATOR: Brass, chrome plated.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless Steel.

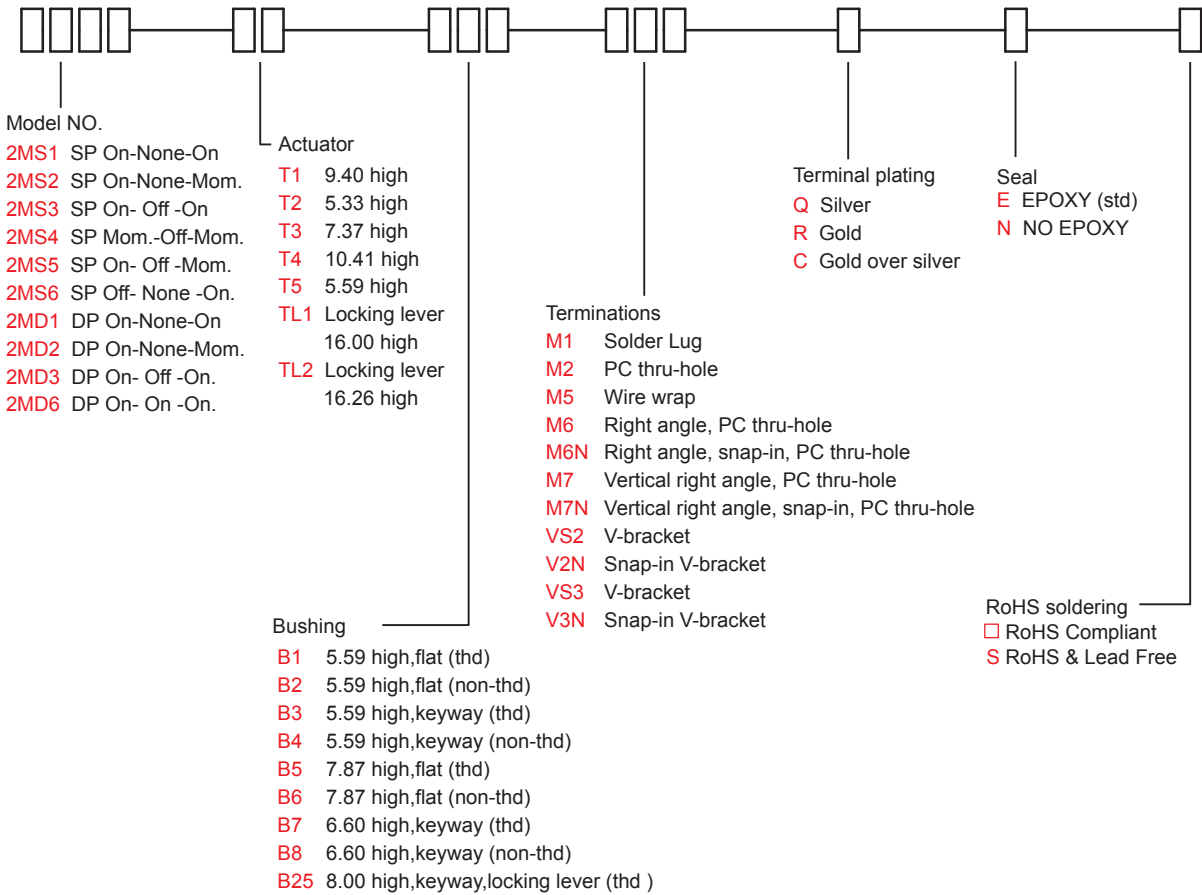
SWITCH SUPPORT: Brass, tin plated.

TERMINAL/CONTACT: Brass or copper alloy, with Silver or gold plated. (See Page 29)



HOW TO ORDER

MODEL NO. ACTUATOR BUSHING TERMINATIONS TERMINAL PLATING SEAL RoHS SOLDERING



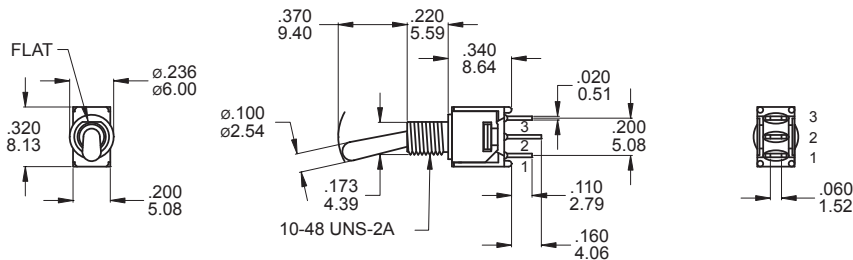
SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC			
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3	
SP	Q2211	2MS1	ON	NONE	ON	2-3	N/A	2-1	
	Q2212	2MS2	ON	NONE	MOM				OPEN
	Q2213	2MS3	ON	OFF	ON				
	Q2214	2MS4	MOM	OFF	MOM				
	Q2215	2MS5	ON	OFF	MOM				
	Q2216	2MS6	OFF	NONE	ON	OPEN	N/A	3-1	
DP	Q2221	2MD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	Q2222	2MD2	ON	NONE	MOM				OPEN
	Q2223	2MD3	ON	OFF	ON				
	Q2226	2MD6	ON	ON	ON	2-3,5-6		2-3,5-4	

MOM=MOMENTARY

▲ Please check the availability in advance before order

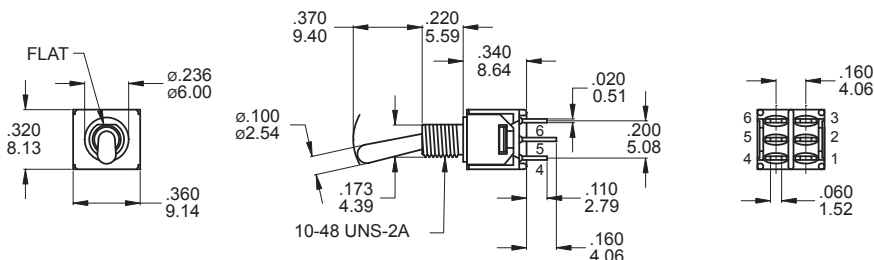
POLE OPTIONS



2MS6 Models : Omit 2nd terminal

SPDT

Part No. Shown : 2MS1T1B1M1QE



DPDT

Part No. Shown : 2MD1T1B1M1RE



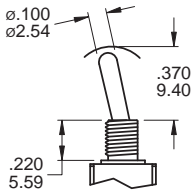
2M
Toggle Switches

2M Series

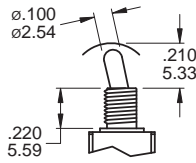
Sub-Miniature Toggle Switches

ACTUATOR OPTIONS

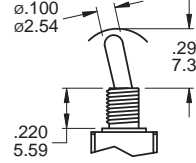
T1



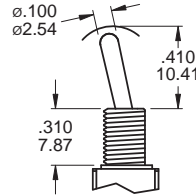
T2



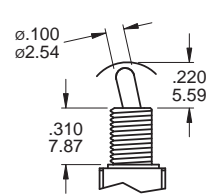
T3



T4

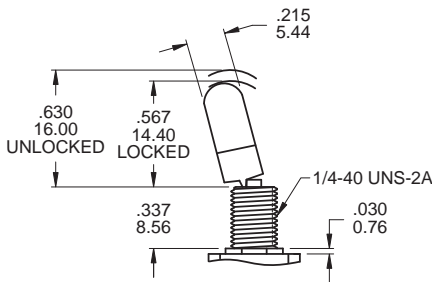


T5

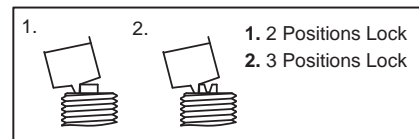
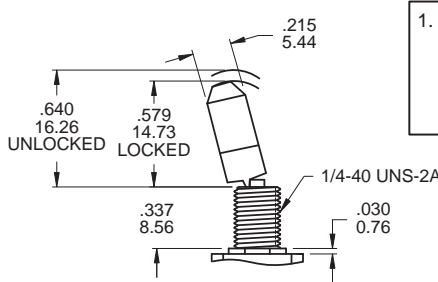


NONE: T1,T2,T3 Actuator shown with B1 to B4 bushing, subtract 0.09 (2.29) for B5 bushing, subtract 0.04 (1.02) for B7 bushing.
 T4,T5 Actuator shown with B5,B6 bushing, add 0.09 (2.29) for B1 to B3 bushing, add 0.05 (1.27) for B7 bushing.
 Std for M1,M2 Terminal sub .016(.040) for M6,M7,VSX

TL1B25

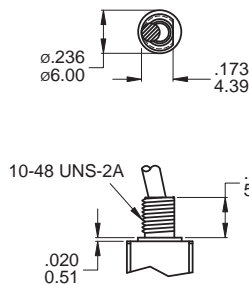


TL2B25

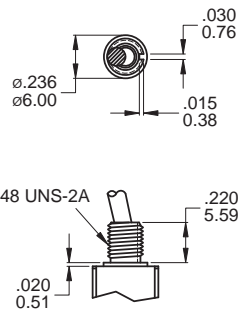


BUSHING OPTIONS

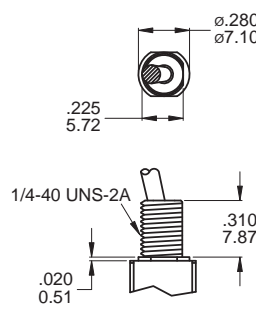
B1 THD
B2 NON-THD



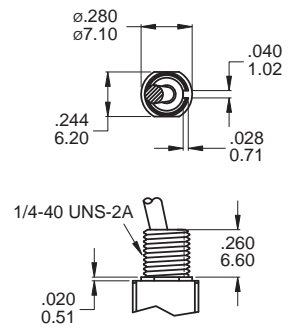
B3 THD
B4 NON-THD



B5 THD
B6 NON-THD

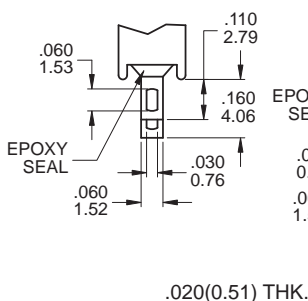


B7 THD
B8 NON-THD

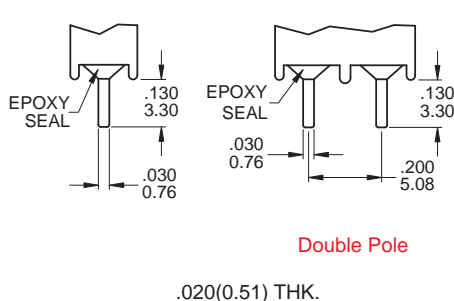


TERMINATION OPTIONS

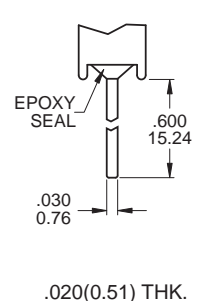
M1 Solder lug



M2 PC Thru-hole



M5 Wire Wrap



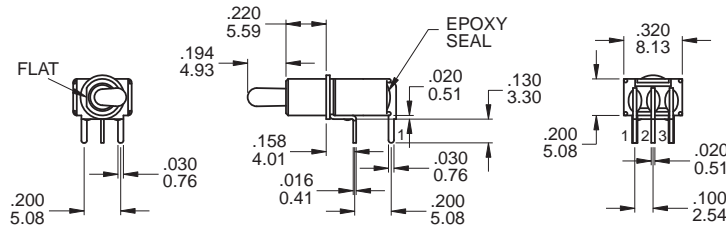
.020(0.51) THK.

.020(0.51) THK.

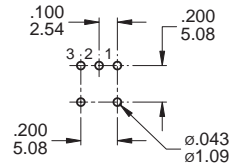
.020(0.51) THK.

2M
Toggle Switches

M6



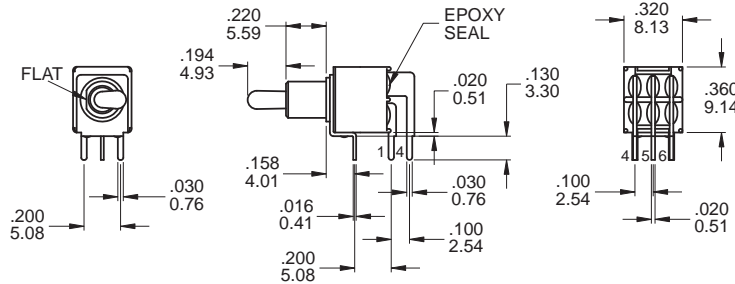
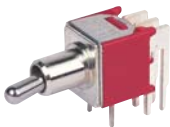
P.C. MOUNTING



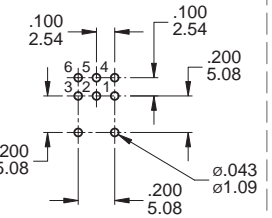
SPDT

Part No. Shown : 2MS1T2B2M6RE

M6



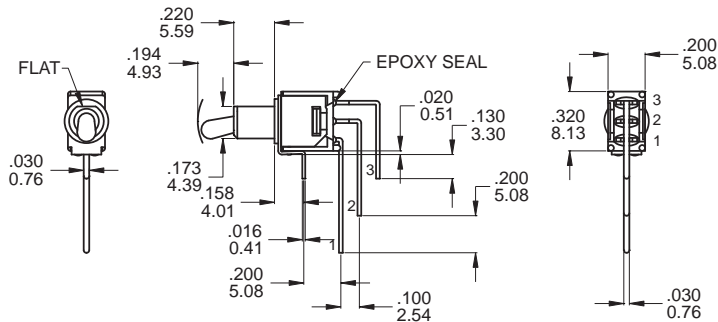
P.C. MOUNTING



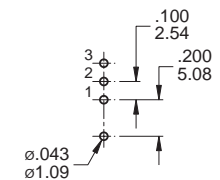
DPDT

Part No. Shown : 2MD1T2B2M6QE

M7



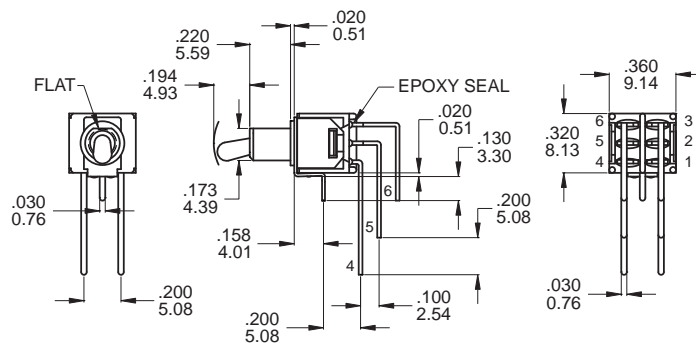
P.C. MOUNTING



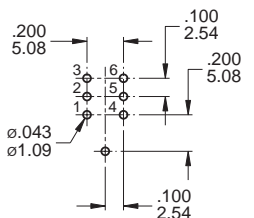
SPDT

Part No. Shown : 2MS1T2B2M7RE

M7



P.C. MOUNTING



DPDT

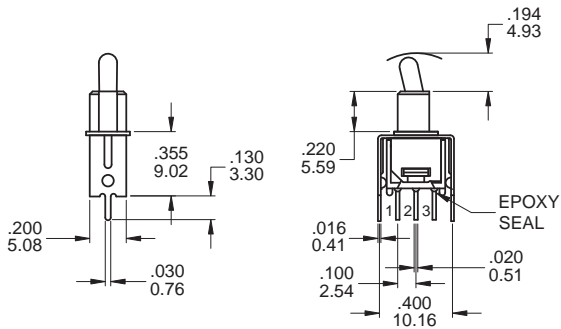
Part No. Shown : 2MD1T2B2M7RE

2M Series

Sub-Miniature Toggle Switches

2M
Toggle Switches

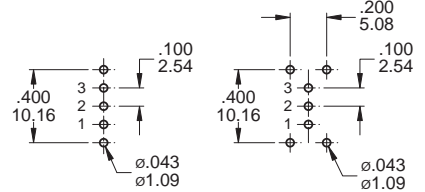
VS2 - VS3



SPDT

Part No. Shown : 2MS1T2B2VS2QE

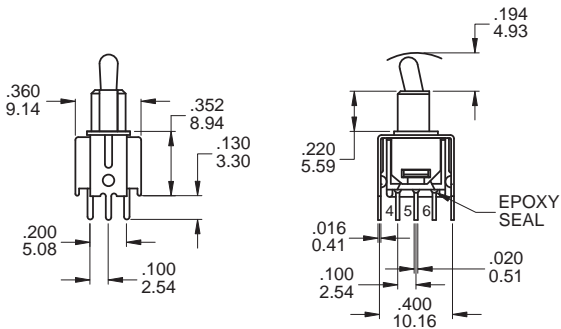
P.C. MOUNTING



VS2

VS3

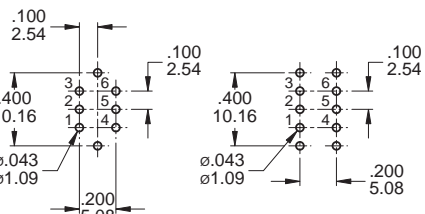
VS2 - VS3



DPDT

Part No. Shown : 2MD1T2B2VS2QE

P.C. MOUNTING

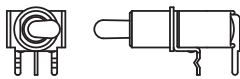


VS2

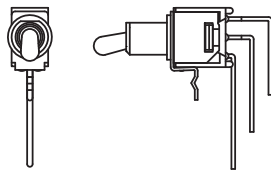
VS3

SNAP-IN TERMINATION OPTIONS

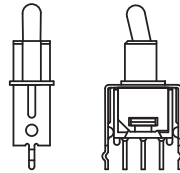
M6N



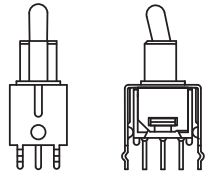
M7N



V2N

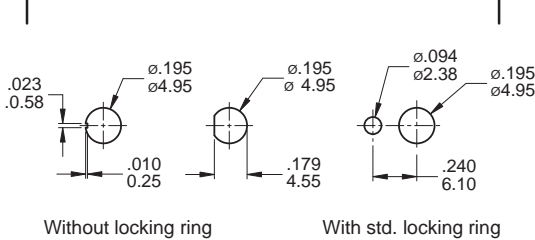


V3N



PANEL MOUNTING

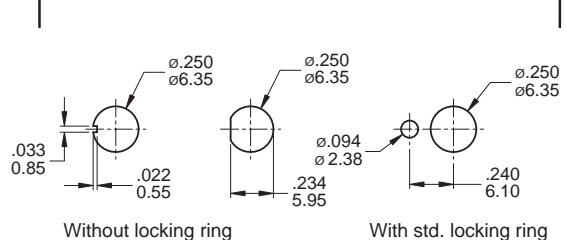
10-48 BUSHING



Without locking ring

With std. locking ring

1/4 IN. BUSHING

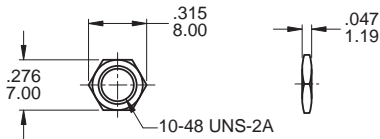


Without locking ring

With std. locking ring

HARDWARE

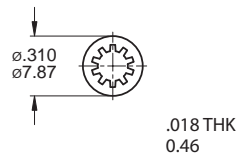
10-48 NUT



MNU-2M01

Supplied standard with B1/ B3 bushing

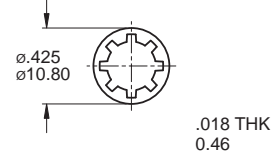
LOCKWASHER



MNU-2M03

Supplied standard with B1 / B3 bushing

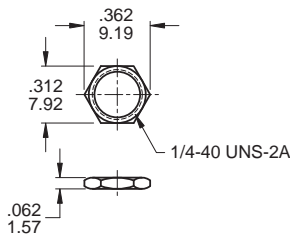
LOCKWASHER



MNU-1M03

Supplied standard with B5 / B7 bushing

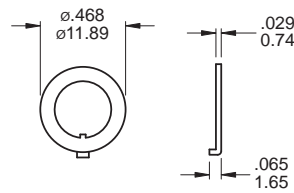
1/4 NUT



MNU-1M01A

Supplied standard with B5/ B7 bushing

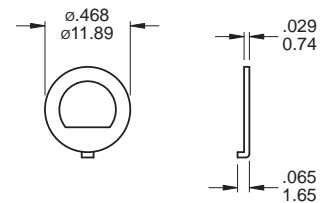
LOCKING RING



MNU-1M02

Supplied standard with B7 bushing

LOCKING RING



MNU-1M11

Supplied standard with B5 bushing

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)