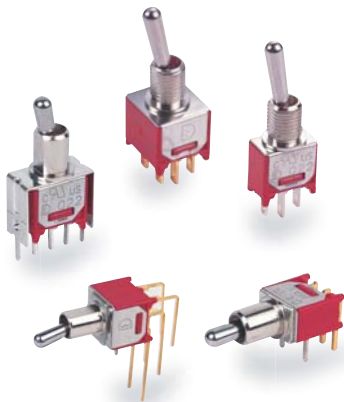


2M Series

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.

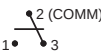
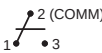
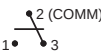
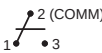
TERMINAL/CONTACT: Brass or copper alloy,with Silver or gold plated.(See Page 29)

HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	TERMINAL PLATING	SEAL	RoHS SOLDERING
Model NO.	Actuator		Terminations	Terminal plating	Seal	RoHS soldering
2MS1 SP ON-NONE-ON	T1 9.40 high		M1 Solder Lug	Q Silver	E EPOXY (std)	
2MS2 SP ON-NONE-(ON)	T2 5.33 high		M2 PC thru-hole	R Gold	N NO EPOXY	
2MS3 SP ON-OFF-ON	T3 7.37 high		M51 15.24 high, wire wrap	C Gold over silver		
2MS4 SP (ON)-OFF-(ON)	T4 10.41 high		M52 6.00 high, wire wrap			
2MS5 SP ON-OFF-(ON)	T5 5.59 high		M6 Right angle, PC thru-hole			
2MS6 SP OFF-NONE-ON	TL1 Locking lever		M6N Right angle, snap-in, PC thru-hole			
2MD1 DP ON-NONE-ON	TL2 Locking lever		M7 Vertical right angle, PC thru-hole			
2MD2 DP ON-NONE-(ON)			M7N Vertical right angle, snap-in, PC thru-hole			
2MD3 DP ON-OFF-ON			VS2 V-bracket			
2MD6 DP ON- ON -ON.			V2N Snap-in V-bracket			
			VS3 V-bracket			
			V3N Snap-in V-bracket			
						S RoHS & Lead Free
Bushing						
B1 5.59 high,flat (thd)						
B2 5.59 high,flat (non-thd)						
B3 5.59 high,keyway (thd)						
B4 5.59 high,keyway (non-thd)						
B5 7.87 high,flat (thd)						
B6 7.87 high,flat (non-thd)						
B7 6.60 high,keyway (thd)						
B8 6.60 high,keyway (non-thd)						
B25 8.00 high,keyway,locking lever (thd)						

* 2MS6 model type not applicable to
M6/M6N/M7/M7N terminations

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	(ON)		OPEN	
	Q2213	2MS3	ON	OFF	ON			
	Q2214	2MS4	(ON)	OFF	(ON)	1-2 (COMM) 	OPEN	
	Q2215	2MS5	ON	OFF	(ON)			
	Q2216	2MS6	OFF	NONE	ON			
DP	Q2221	2MD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4
	Q2222	2MD2	ON	NONE	(ON)		OPEN	
	Q2223	2MD3	ON	OFF	ON			
	Q2226	2MD6	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4

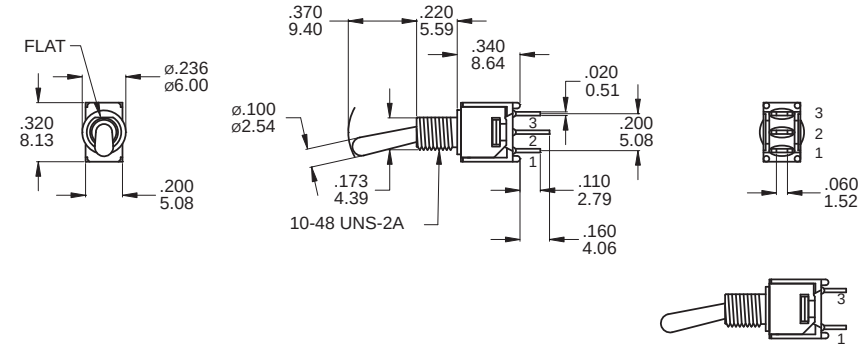


2M
Toggle Switches

()=MOMENTARY

▲ Please check the availability in advance before order

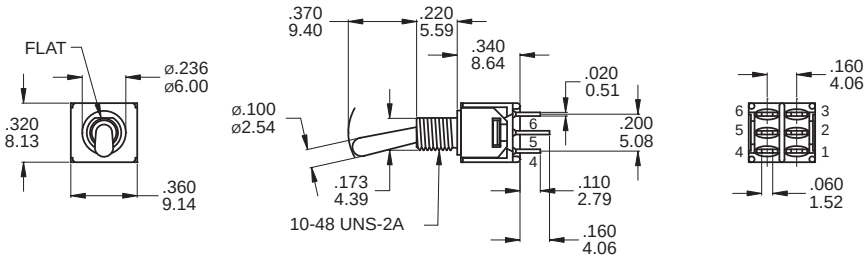
POLE OPTIONS



SPDT

2MS6 Models : Omit 2nd terminal

Part No. Shown : 2MS1T1B1M1QES



DPDT

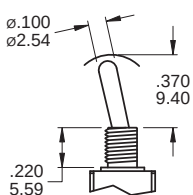
Part No. Shown : 2MD1T1B1M1RES

2M Series

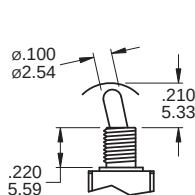
Sub-Miniature Toggle Switches

ACTUATOR OPTIONS

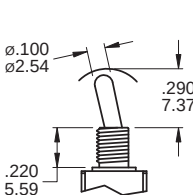
T1



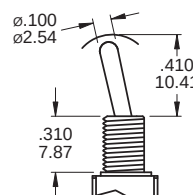
T2



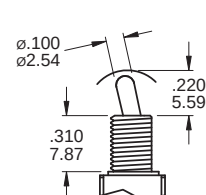
T3



T4



T5

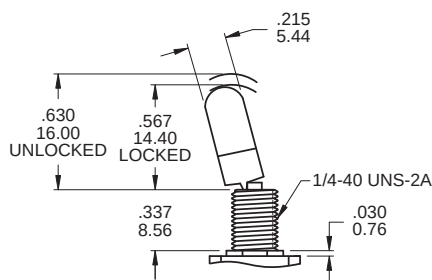


NONE: T1,T2,T3 Actuator shown with B1 to B4 bushing, subtract 0.09 (2.29) for B5 bushing, subtract 0.04 (1.02) for B7 bushing.

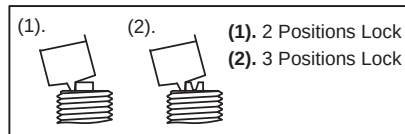
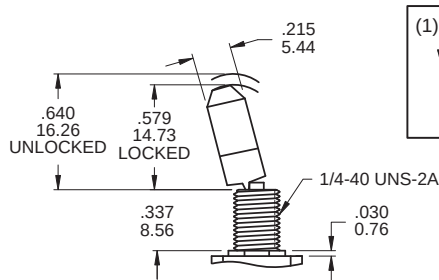
T4,T5 Actuator shown with B5,B6 bushing, add 0.09 (2.29) for B1 to B3 bushing, add 0.05 (1.27) for B7 bushing.

Std for M1,M2 Terminal sub .016(.040) for M6,M7,VSX

TL1B25

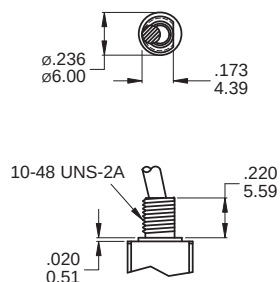


TL2B25

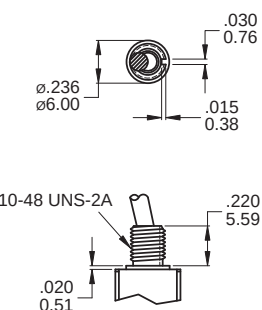


BUSHING OPTIONS

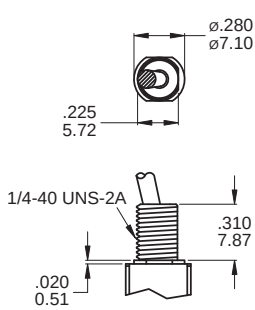
B1 THD
B2 NON-THD



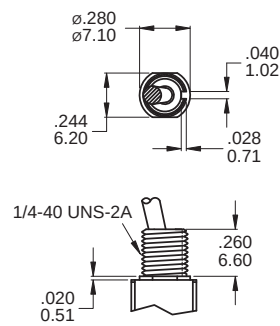
B3 THD
B4 NON-THD



B5 THD
B6 NON-THD

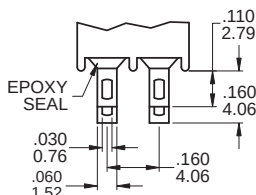
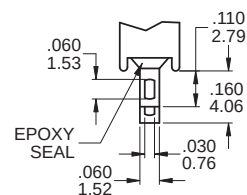


B7 THD
B8 NON-THD



TERMINATION OPTIONS

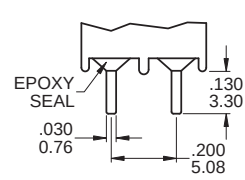
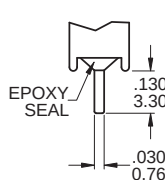
M1 Solder lug



Double Pole

.020(0.51) THK.

M2 PC Thru-hole



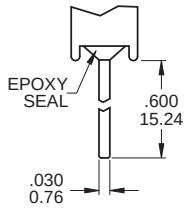
Double Pole

.020(0.51) THK.

2M Series

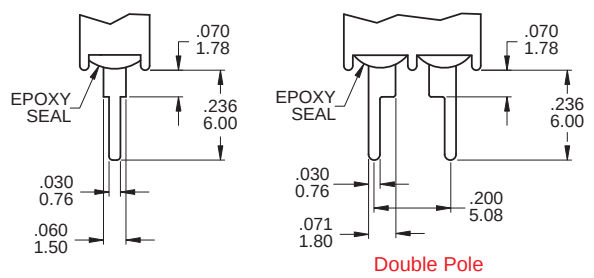
Sub-Miniature Toggle Switches

M51 Wire Wrap



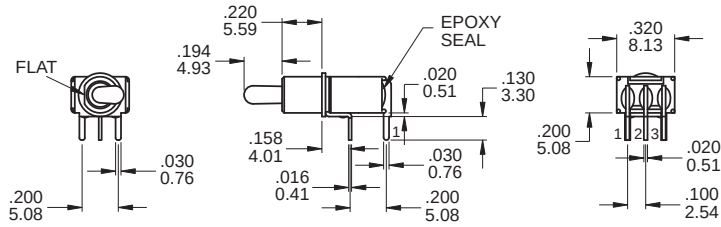
.020(0.51) THK.

M52 Wire Wrap

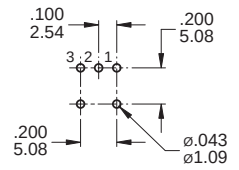


.020(0.51) THK.

M6



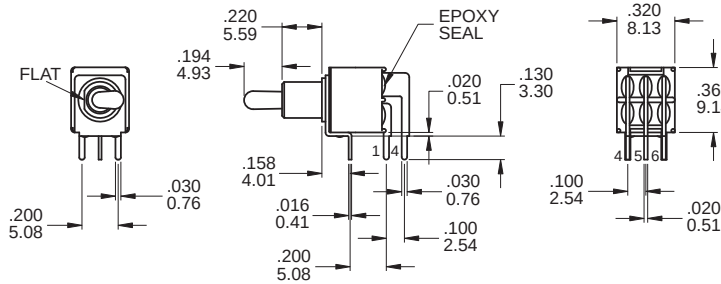
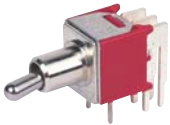
P.C. MOUNTING



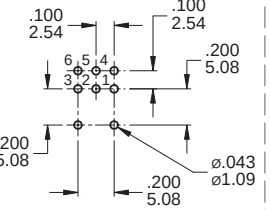
SPDT

Part No. Shown : 2MS1T2B2M6RES

M6



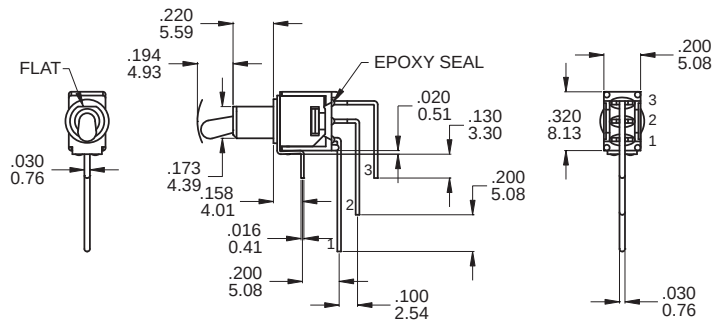
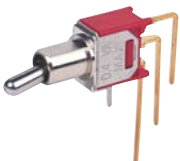
P.C. MOUNTING



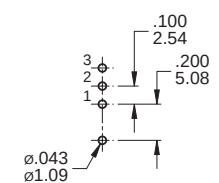
DPDT

Part No. Shown : 2MD1T2B2M6QES

M7



P.C. MOUNTING



SPDT

Part No. Shown : 2MS1T2B2M7RES

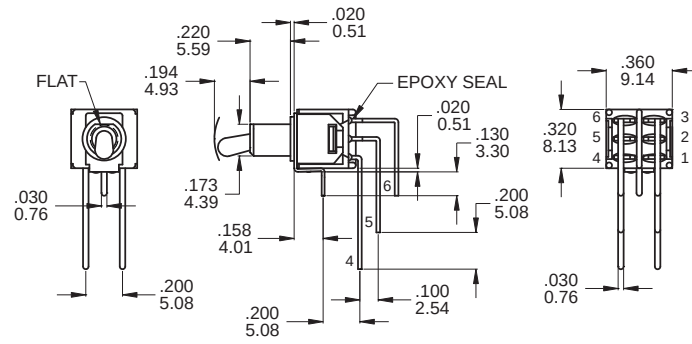
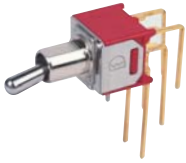
2M Series

Sub-Miniature Toggle Switches

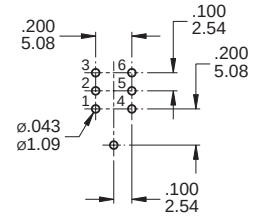


2M
Toggle Switches

M7



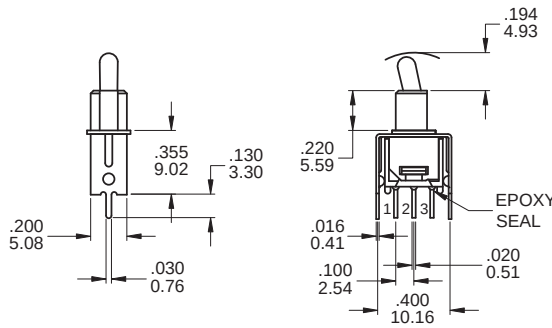
P.C. MOUNTING



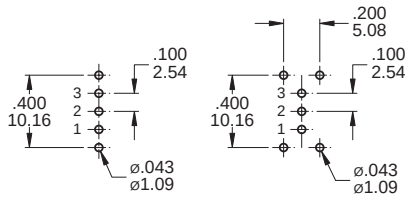
DPDT

Part No. Shown : 2MD1T2B2M7RES

VS2 - VS3



P.C. MOUNTING



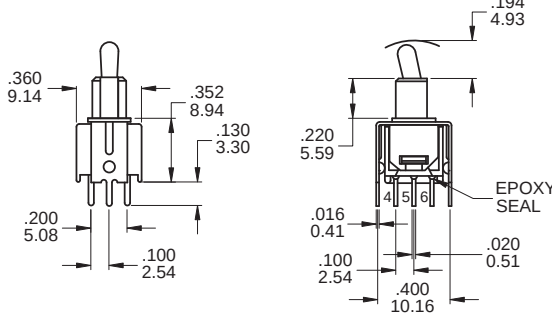
VS2

VS3

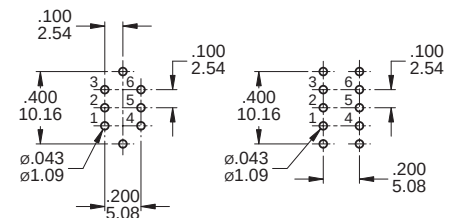
SPDT

Part No. Shown : 2MS1T2B2VS2QES

VS2 - VS3



P.C. MOUNTING



VS2

VS3

DPDT

Part No. Shown : 2MD1T2B2VS2QES

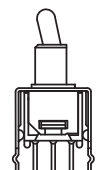
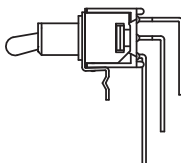
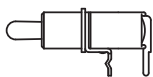
SNAP-IN TERMINATION OPTIONS

M6N

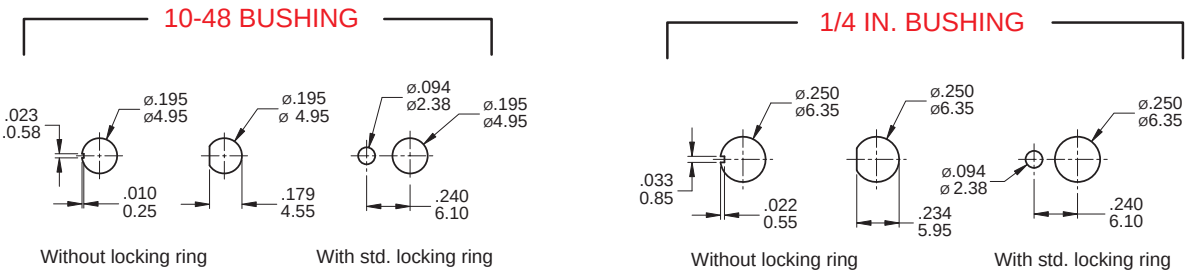
M7N

V2N

V3N

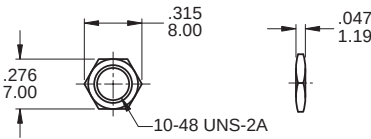


PANEL MOUNTING



HARDWARE

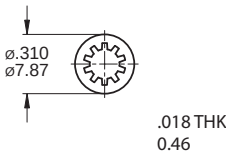
10-48 NUT



MNU-2M01

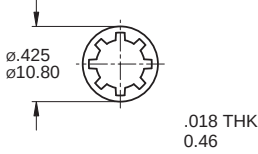
Supplied standard with B1/ B3 bushing

LOCKWASHER



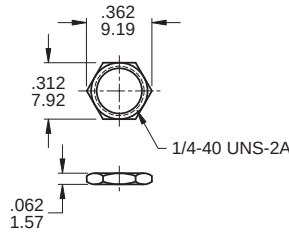
Supplied standard with B1 / B3 bushing

LOCKWASHER



Supplied standard with B5 / B7 bushing

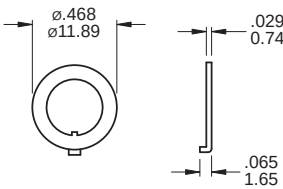
1/4 NUT



MNU-1M01A

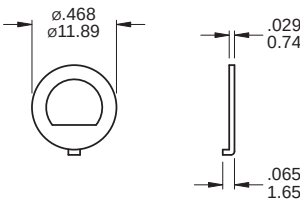
Supplied standard with B5/ B7 bushing

LOCKING RING



Supplied standard with B7 bushing

LOCKING RING



Supplied standard with B5 bushing

CONTACT MATERIAL OPTIONS

	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)

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)



2M
Toggle Switches

Mouser Electronics

Authorized Distributor

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[Dailywell:](#)

[2MD1T1B1M1QES](#) [2MD1T1B1M2QES](#) [2MD1T1B3M2QES](#) [2MD1T2B2M6QES](#) [2MD1T2B3M1QES](#)
[2MD1T2B3M2QES](#) [2MD1T2B4M2QES](#) [2MD1T3B1M7QES-5](#) [2MD3T1B1M2QES](#) [2MD3T1B3M2QES](#)
[2MD3T2B3M2QES](#) [2MS1T1B1M1QES](#) [2MS1T1B1M1QNS](#) [2MS1T1B1M2QES](#) [2MS1T1B2M6RES](#)
[2MS1T1B2VS2QES](#) [2MS1T1B3M2QES](#) [2MS1T1B4M2QES](#) [2MS1T1B4M7QES](#) [2MS1T2B2M2RES](#)
[2MS1T2B2M6QES](#) [2MS1T2B2M6RES](#) [2MS1T2B3M1QES](#) [2MS1T2B3M2QES](#) [2MS1T2B4M2QES](#)
[2MS1T2B4M6QNS](#) [2MS1T4B3M2CES](#) [2MS3T1B1M1QES](#) [2MS3T1B1M2QES](#) [2MS3T1B3M2QES](#)
[2MS3T1B4M2QES](#) [2MS3T2B1M2QES](#) [2MS3T2B2M6QES](#) [2MS3T2B3M1QES](#) [2MS3T2B3M2QES](#)
[2MS6T1B3M2QES](#) [2MS6T2B4M2QES](#) [2MS6T4B3M2CES](#) [2MD1T2B4M2RES](#) [2MS1T1B1M6QES](#)
[2MS1T1B1M7QES](#) [2MS1T2B4M7QES](#) [2MS3T2B3M6QES](#) [2MS1T2B1M2QES-1](#) [2MS1T2B3M7QES](#)
[2MS6T1B1M1QES](#) [2MS9T2B2M2QES](#) [2MS4T1B2M7QES](#) [2MS1T2B1M2QES](#) [2MS1T1B2M2QES](#)
[2MS1T2B2M7QES](#) [2MS2T2B2M2QES](#) [2MS1T2B1M7QES](#)