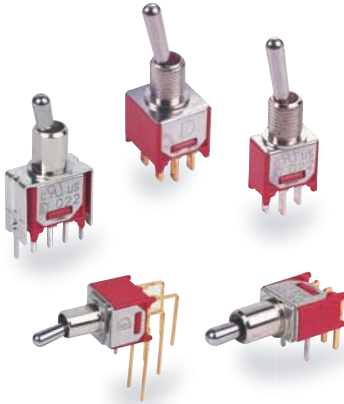




SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 28.

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: -30°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, with Silver or gold plated.
(See Page 28)



HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	CONTACT MATERIAL	SEAL	RoHS SOLDERING
Model NO.	Actuator		Terminations	Contact material	Seal	RoHS soldering
2MS1 SP On-None-On	T1 9.40 high		M1 Solder Lug	Q Silver	E EPOXY (std)	☐ RoHS Compliant
2MS2 SP On-None-Mom.	T2 5.33 high		M2 PC thru-hole	R Gold	N NO EPOXY	☐ RoHS & Lead Free
2MS3 SP On- Off -On	T3 7.37 high		M5 Wire wrap	G Gold,pure-tin		☐ Halogen Free+RoHS
2MS4 SP Mom.-Off-Mom.	T4 10.41 high		M6 Right angle, PC thru-hole	S Silver,pure-tin		
2MS5 SP On- Off -Mom.	T5 5.59 high		M6N Right angle, snap-in, PC thru-hole	C Gold over silver		
2MS6 SP Off- None -On.	TL1 Locking lever		M7 Vertical right angle, PC thru-hole	K Gold over silver,pure-tin		
2MD1 DP On-None-On	TL2 Locking lever		M7N Vertical right angle, snap-in, PC thru-hole			
2MD2 DP On-None-Mom.			VS2 V-bracket			
2MD3 DP On- Off -On.			V2N Snap-in V-bracket			
2MD6 DP On- On -On.			VS3 V-bracket			
			V3N Snap-in V-bracket			
	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)					



2M
Toggle Switches

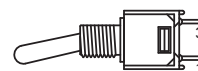
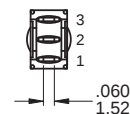
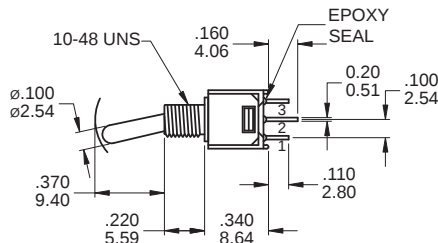
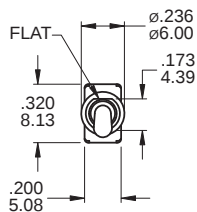
SWITCH FUNCTION

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		N/A	2-1
	Q2212	2MS2	ON	NONE	MOM			
	Q2213	2MS3	ON	OFF	ON		OPEN	
	Q2214	2MS4	MOM	OFF	MOM			
	Q2215	2MS5	ON	OFF	MOM	OPEN	N/A	3-1
	Q2216	2MS6	OFF	NONE	ON			
DP	Q2221	2MD1	ON	NONE	ON		N/A	2-1,5-4
	Q2222	2MD2	ON	NONE	MOM			
	Q2223	2MD3	ON	OFF	ON		OPEN	
	Q2226	2MD6	ON	ON	ON			

MOM=MOMENTARY

▲ Please check the availability in advance before order

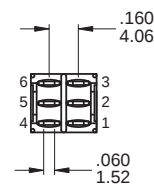
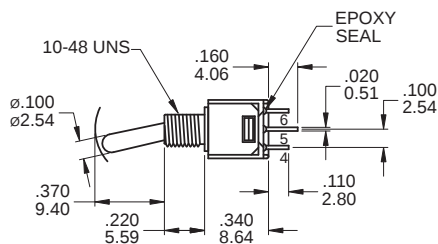
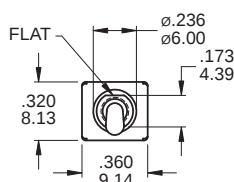
POLE OPTIONS



SPDT

2MS6 Models : Omit 2nd terminal

Part No. Shown : 2MS1T1B1M1QE

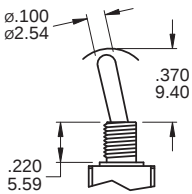


DPDT

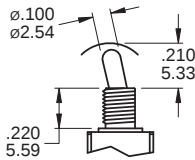
Part No. Shown : 2MD1T1B1M1RE

ACTUATOR OPTIONS

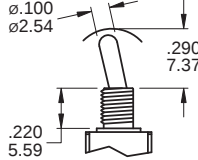
T1



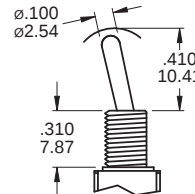
T2



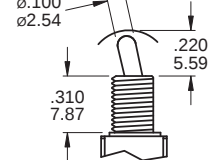
T3



T4



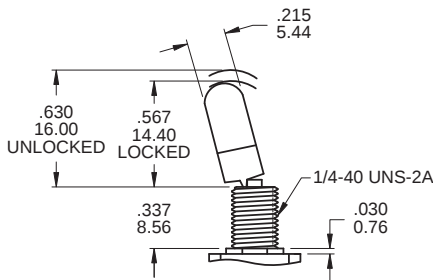
T5



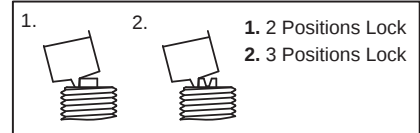
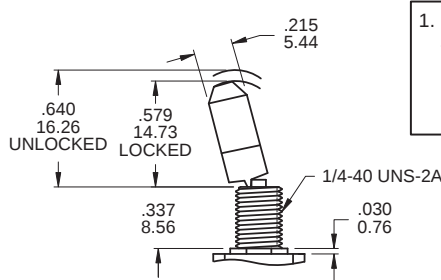
NONE: T1,T2,T3 Actuator shown with B1 to B4 bushing, subtract 0.09 (2.29) for B5 bushing, subtract 0.04 (1.02) for B7 bushing.
T4,T5 Actuator shown with B5,B6 bushing, add 0.09 (2.29) for B1 to B3 bushing, add 0.05 (1.27) for B7 bushing.
Std for M1,M2 Terminal sub .016(.040) for M6,M7,VSX



TL1B25

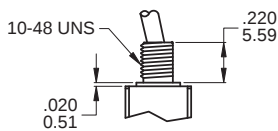
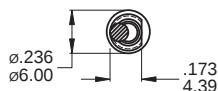


TL2B25

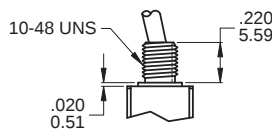
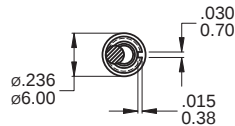


BUSHING OPTIONS

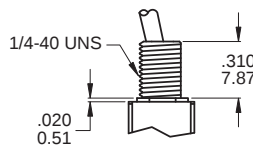
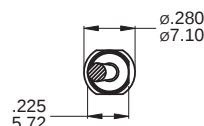
B1 THD
B2 NON-THD



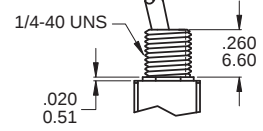
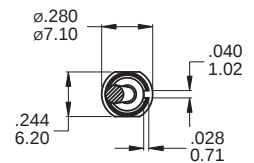
B3 THD
B4 NON-THD



B5 THD
B6 NON-THD

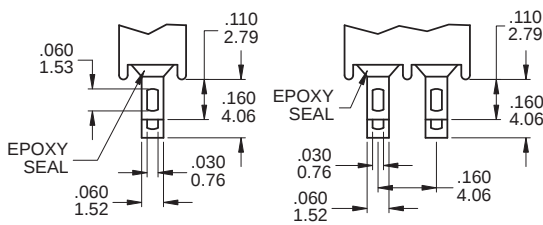


B7 THD
B8 NON-THD



TERMINATION OPTIONS

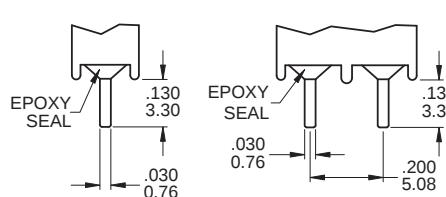
M1 Solder lug



Double Pole

.020(0.51) THK.

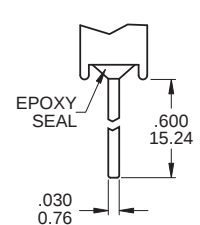
M2 PC Thru-hole



Double Pole

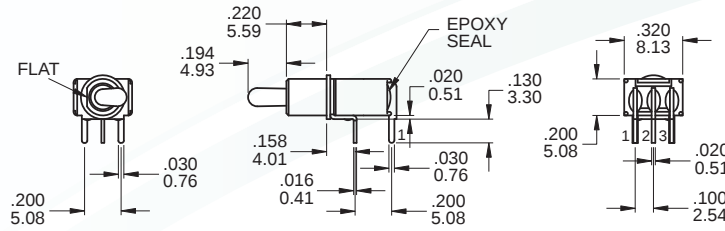
.020(0.51) THK.

M5 Wire Wrap

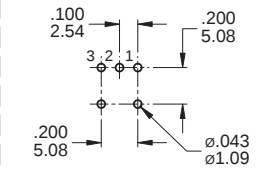


.020(0.51) THK.

M6



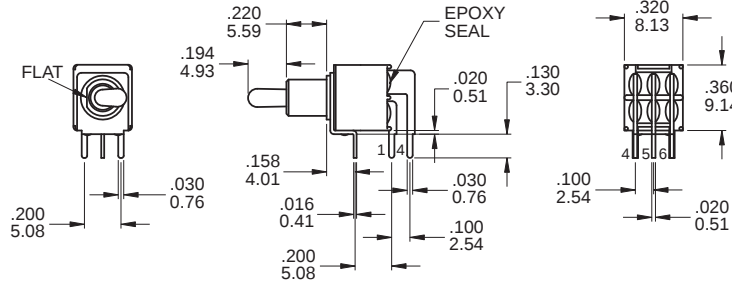
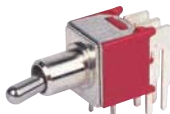
P.C. MOUNTING



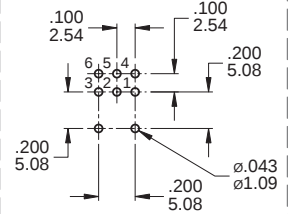
SPDT

Part No. Shown : 2MS1T2B2M6RE

M6



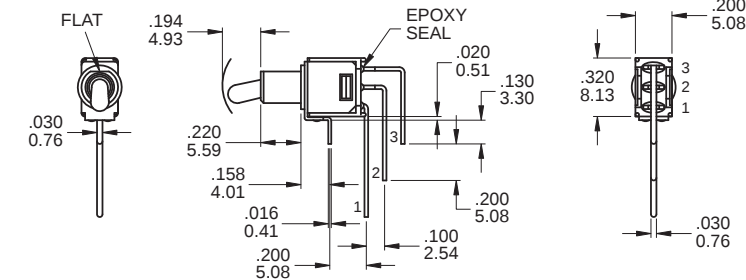
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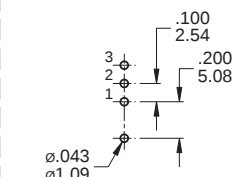
DPDT

Part No. Shown : 2MD1T2B2M6QE

M7



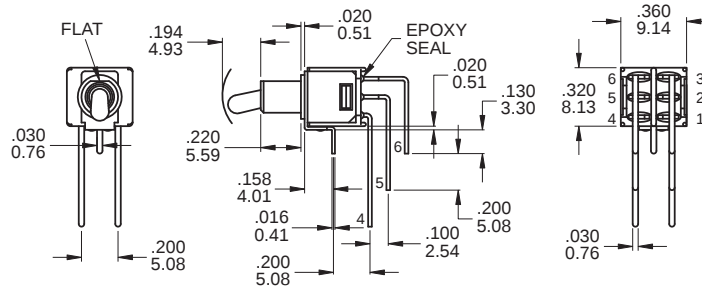
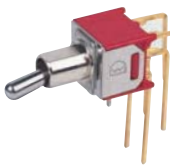
P.C. MOUNTING



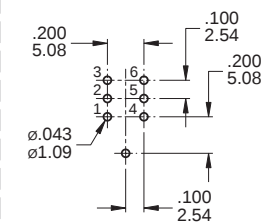
SPDT

Part No. Shown : 2MS1T2B2M7RE

M7



P.C. MOUNTING



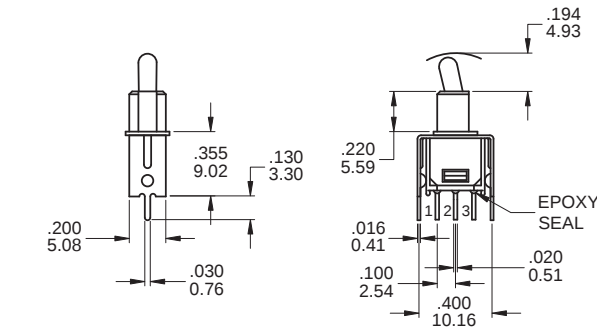
DPDT

Part No. Shown : 2MD1T2B2M7RE

VS2 - VS3

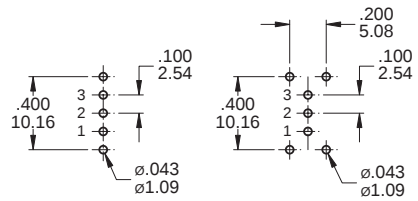


SPDT



Part No. Shown : 2MS1T2B2VS2QE

P.C. MOUNTING



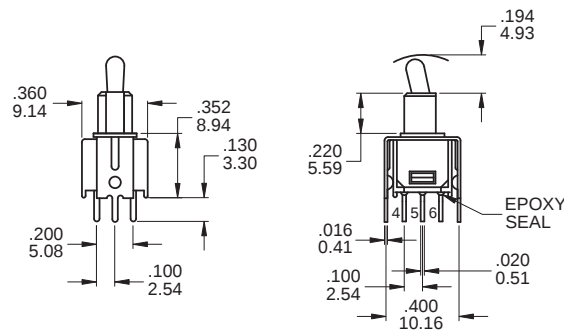
VS2

VS3

VS2 - VS3

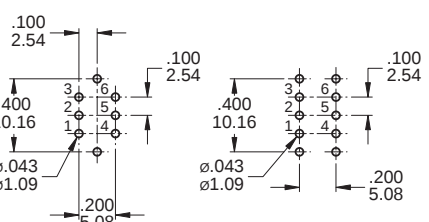


DPDT



Part No. Shown : 2MD1T2B2VS2QE

P.C. MOUNTING

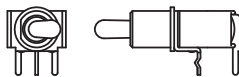


VS2

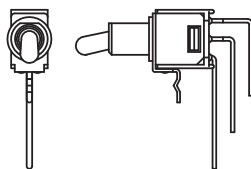
VS3

SNAP-IN TERMINATION OPTIONS

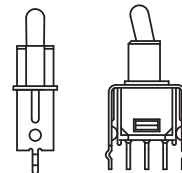
M6N



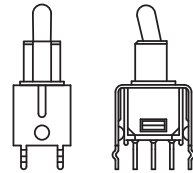
M7N



V2N

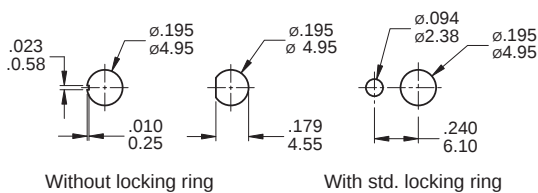


V3N

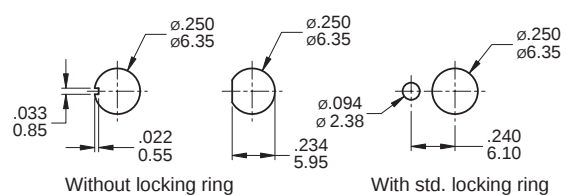


PANEL MOUNTING

10-48 BUSHING

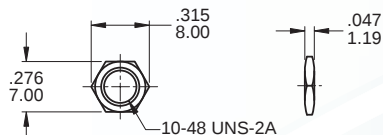


1/4 IN. BUSHING



HARDWARE

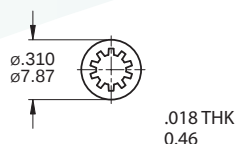
10-48 NUT



MNU-2M01

Supplied standard with
B1/ B3 bushing

LOCK WASHER



MNU-2M03

Supplied standard with
B1 / B3 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
S		S = Silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G		G = Gold,pure - tin	

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)