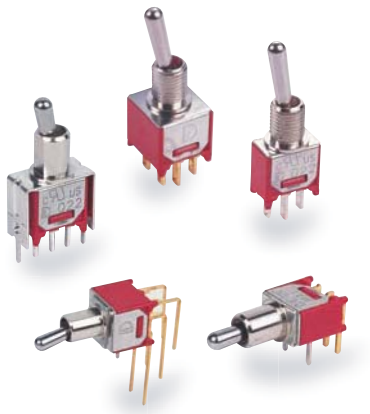


SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.
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.

HOW TO ORDER

MODEL NO. | ACTUATOR | BUSHING | TERMINATIONS | CONTACT MATERIAL | SEAL | RoHS SOLDERING

Model NO.
- 2MS1 SP On-None-On
- 2MS2 SP On-None-Mom.
- 2MS3 SP On- Off -On
- 2MS4 SP Mom.-Off-Mom.
- 2MS5 SP On- Off -Mom.
- 2MS6 SP Off- None -On.
- 2MD1 DP On-None-On
- 2MD2 DP On-None-Mom.
- 2MD3 DP On- Off -On.
- 2MD6 DP On- On -On.

Actuator
- T1 9.40 high
- T2 5.33 high
- T3 7.37 high
- T4 10.41 high
- T5 5.59 high
- TL1 Locking lever 16.00 high
- TL2 Locking lever 16.26 high

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)

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
- M7N Vertical right angle, snap-in, PC thru-hole
- VS2 V-bracket
- V2N Snap-in V-bracket
- VS3 V-bracket
- V3N Snap-in V-bracket

Contact material
- Q Silver
- R Gold
- G Gold,pure-tin
- S Silver,pure-tin
- C Gold over silver
- K Gold over silver,pure-tin

Seal
- E EPOXY (std)
- N NO EPOXY

RoHS soldering
- ☐ Rohs Compliant
- S Rohs & Lead Free
- F Halogen Free+RoHS

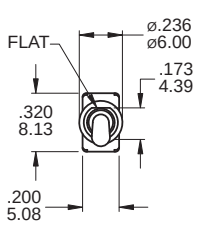
SWITCH FUNCTION

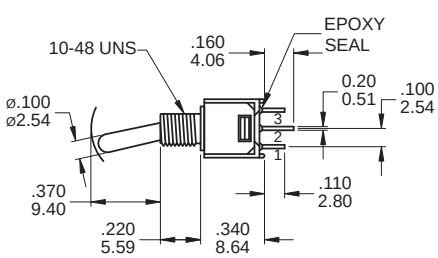
NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	Q2211	2MS1	ON	NONE	ON	2-3	N/A	2-1
	Q2212	2MS2	ON	NONE	MOM			
	Q2213	2MS3	ON	OFF	ON	2 (COMM) 1 3	OPEN	2 (COMM) 1 3
	Q2214	2MS4	MOM	OFF	MOM			
	Q2215	2MS5	ON	OFF	MOM			
	Q2216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

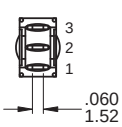
MOM=MOMENTARY

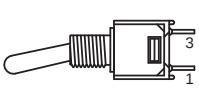
▲ Please check the availability in advance before order

POLE OPTIONS





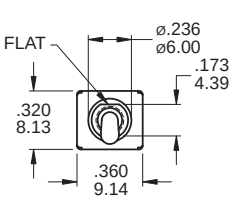


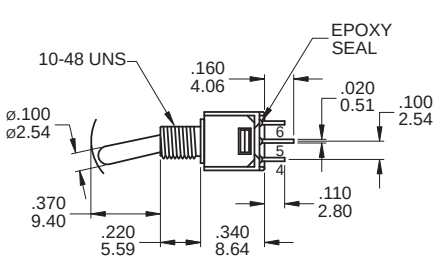


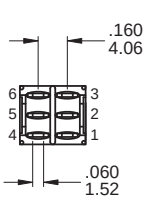
SPDT

2MS6 Models : Omit 2nd terminal

Part No. Shown : 2MS1T1B1M1QE





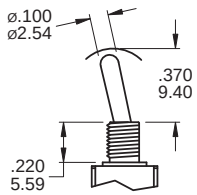


DPDT

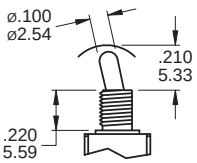
Part No. Shown : 2MD1T1B1M1RE

ACTUATOR OPTIONS

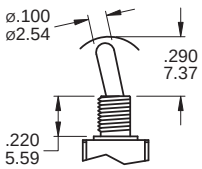
T1



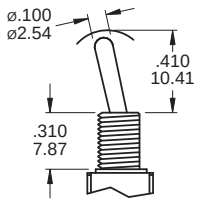
T2



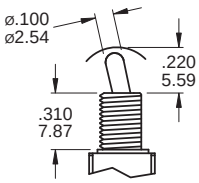
T3



T4

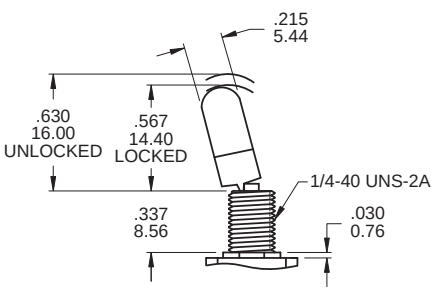


T5

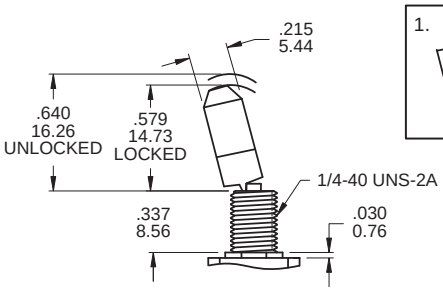


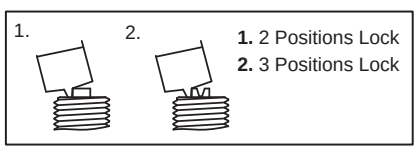
NONE: T1,T2,T3 Actuator shown with B1 to B4 bushing, subtract 0.09 (2.29) for B5 bushing, subtract 0.04 (1.02) for B7 bushing.
T4,T5 Actuator shown with B5,B6 bushing, add 0.09 (2.29) for B1 to B3 bushing, add 0.05 (1.27) for B7 bushing.
Std for M1,M2 Terminal sub .016(.040) for M6,M7,VSX

TL1B25



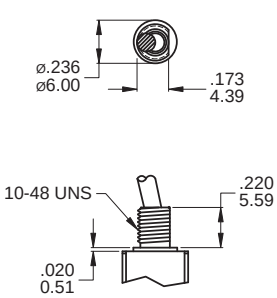
TL2B25



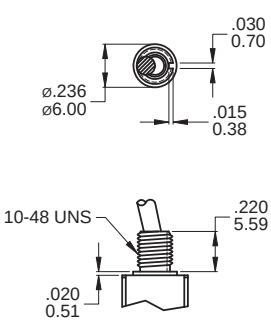


BUSHING OPTIONS

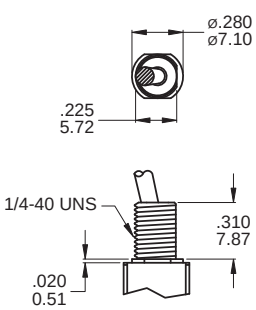
B1 THD
B2 NON-THD



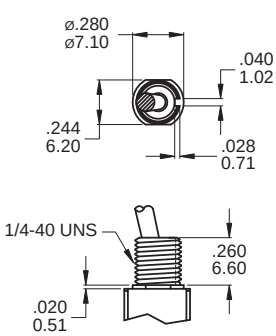
B3 THD
B4 NON-THD



B5 THD
B6 NON-THD

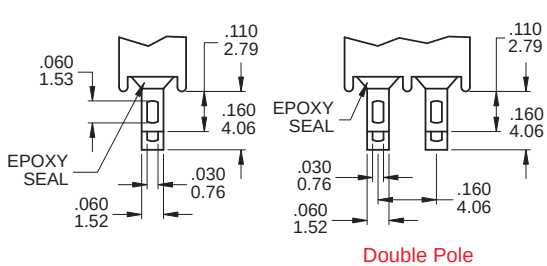


B7 THD
B8 NON-THD



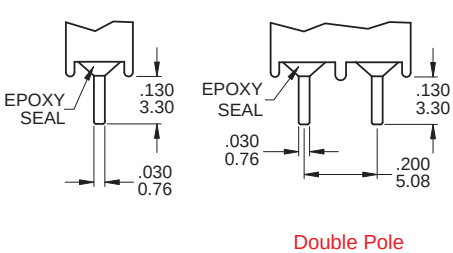
TERMINATION OPTIONS

M1 Solder lug



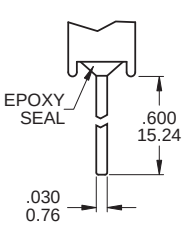
.020(0.51) THK.

M2 PC Thru-hole



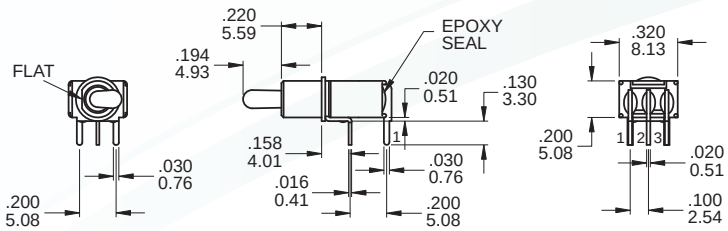
.020(0.51) THK.

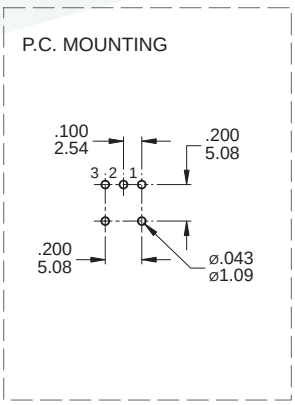
M5 Wire Wrap



.020(0.51) THK.

M6

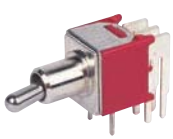


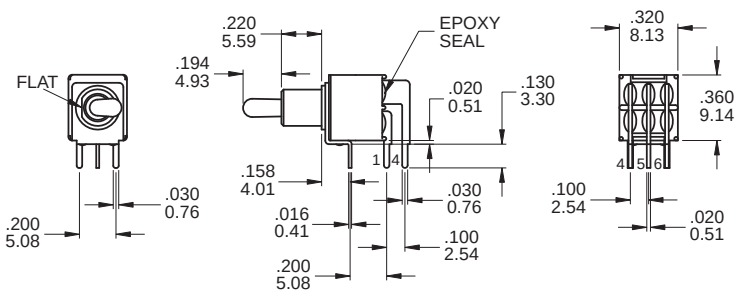


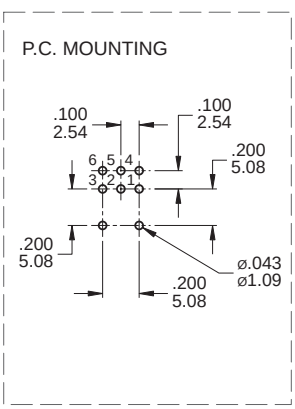
SPDT

Part No. Shown : 2MS1T2B2M6RE

M6



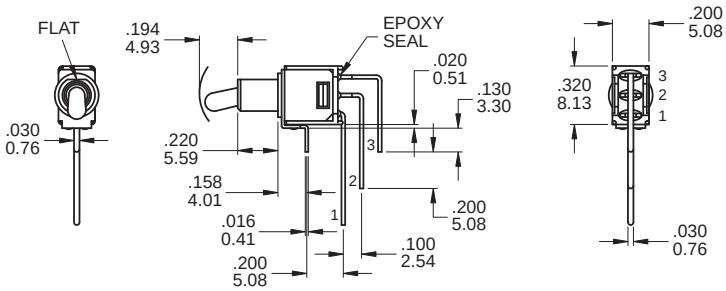


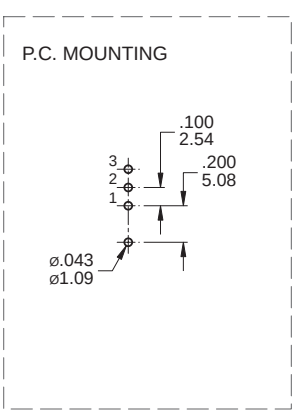


DPDT

Part No. Shown : 2MD1T2B2M6QE

M7

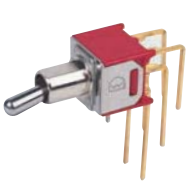


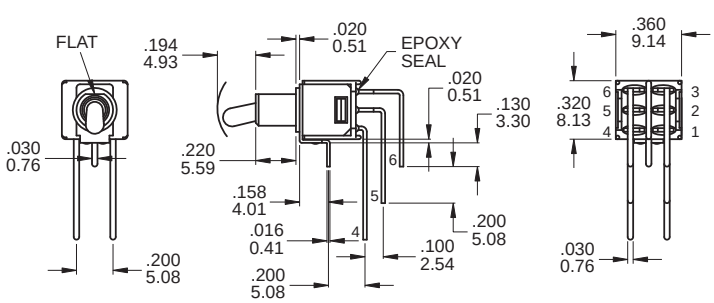


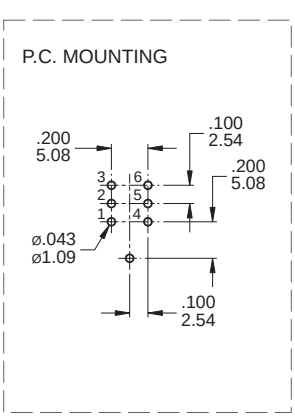
SPDT

Part No. Shown : 2MS1T2B2M7RE

M7





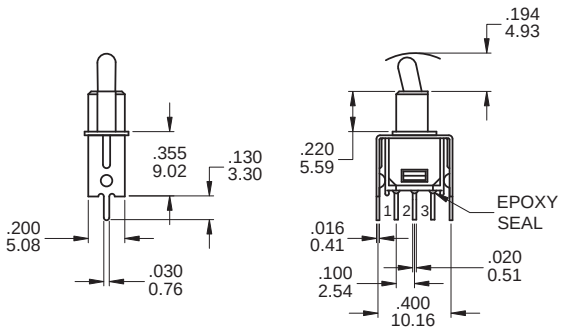


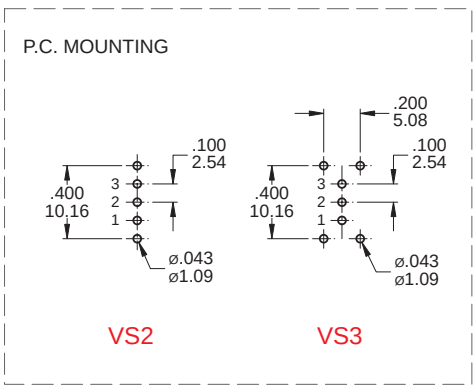
DPDT

Part No. Shown : 2MD1T2B2M7RE

VS2 - VS3

SPDT

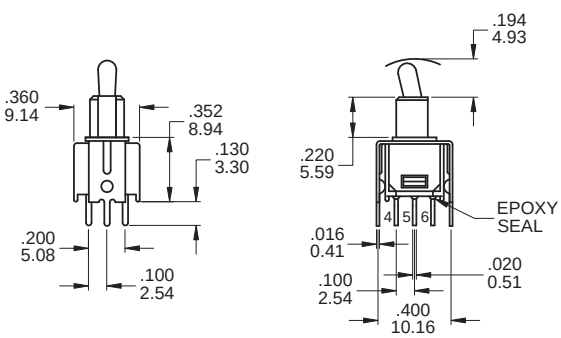


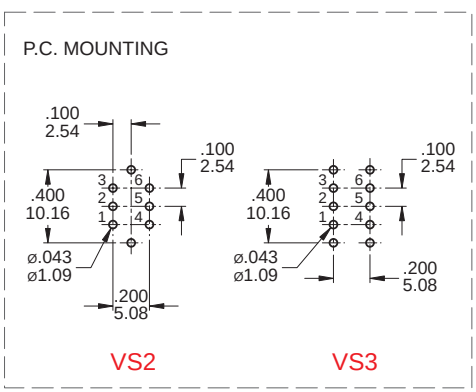


Part No. Shown : 2MS1T2B2VS2QE

VS2 - VS3

DPDT

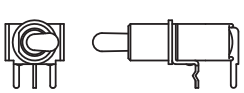




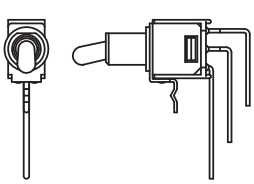
Part No. Shown : 2MD1T2B2VS2QE

SNAP-IN TERMINATION OPTIONS

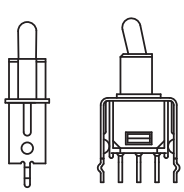
M6N



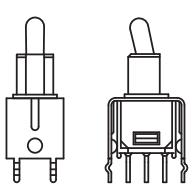
M7N



V2N

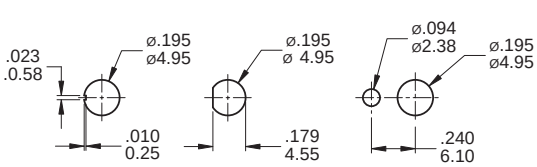


V3N



PANEL MOUNTING

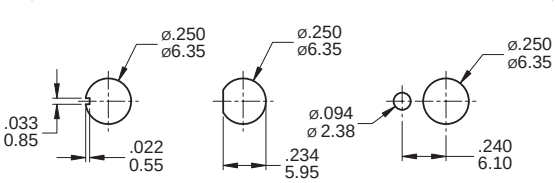
10-48 BUSHING



Without locking ring

With std. locking ring

1/4 IN. BUSHING

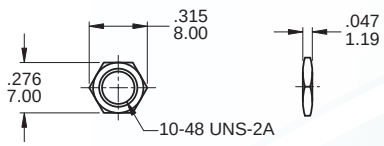


Without locking ring

With std. locking ring

HARDWARE

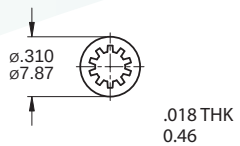
10-48 NUT



MNU-2M01

Supplied standard with
B1/ B3 bushing

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)