



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material

MECHANICAL LIFE: 40,000 make-and-break cycles.

CONTACT RESISTANCE: 10 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: Nylon,black std.

BUSHING: Brass or Zinc,nickel plated.

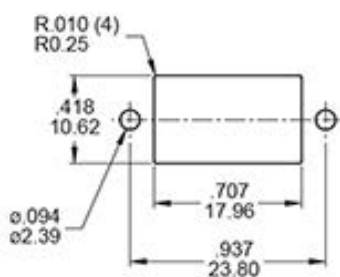
HOUSING: Stainless Steel.

SWITCH SUPPORT: Brass,tin plated or stainless steel.

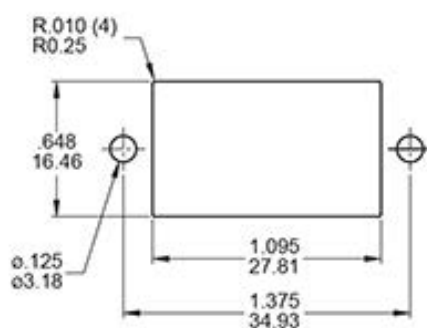
TERMINAL/CONTACT: Copper alloy,with silver or gold plated.

PANEL MOUNTING

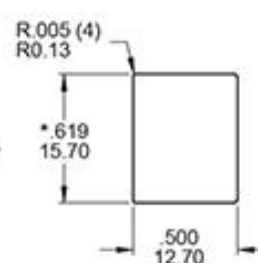
For R1-R2



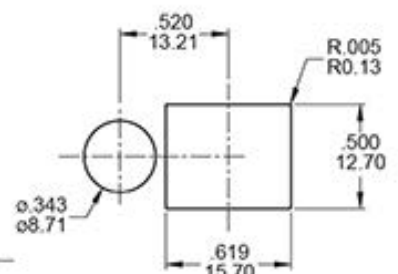
For R3-R4



For R6-R9



For R17-R18

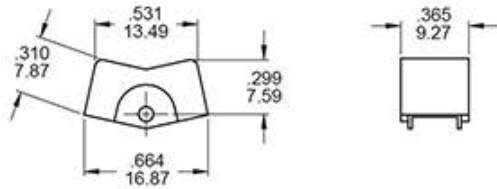


* For R6 and R7: Increase this dim. to .620/.625(15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.

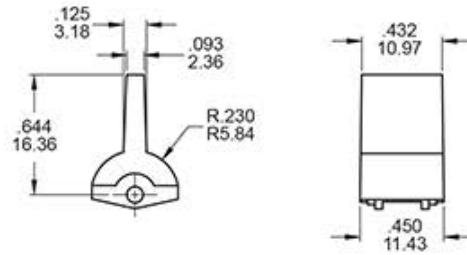
* For R8 and R9: Increase this dim. to .620/.625(15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

ACTUATOR OPTIONS FOR P.C. MOUNT ONLY

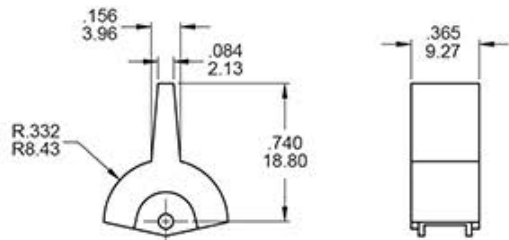
J1



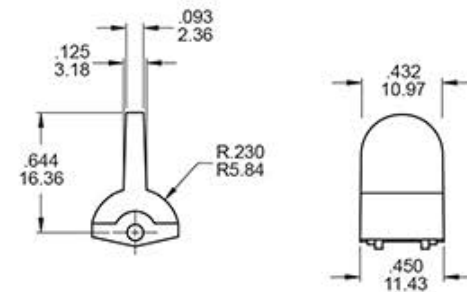
J6



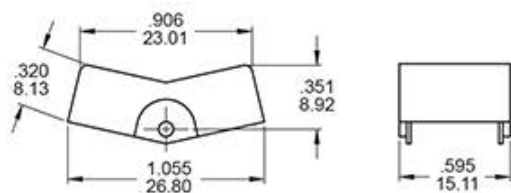
J2



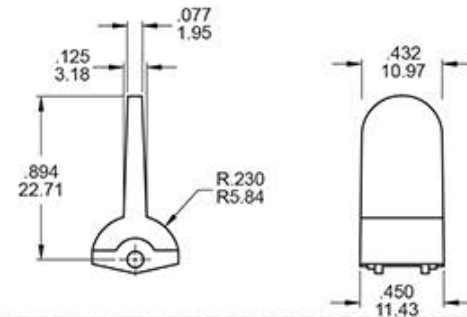
J7



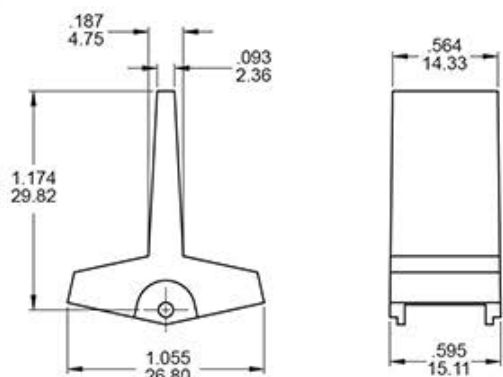
J3



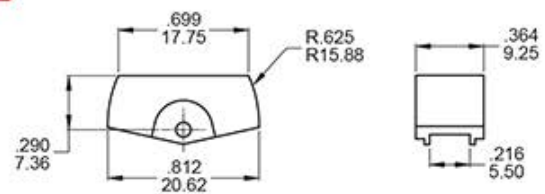
J8



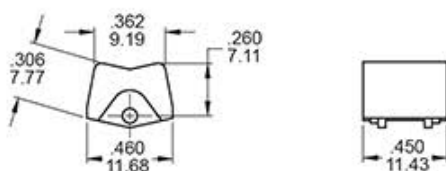
J4



JB



J5



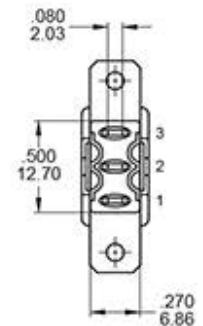
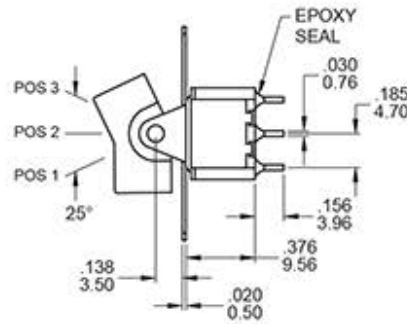
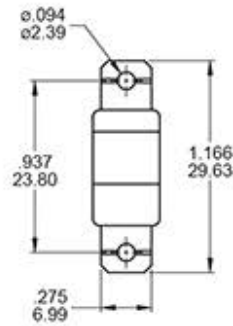
SWITCH FUNCTION

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	Q1311	3MS1	ON	NONE	ON	2-3 	N/A	2-1
	Q1312	3MS2	ON	NONE	MOM			
	Q1313	3MS3	ON	OFF	ON			
	Q1314	3MS4	MOM	OFF	MOM		OPEN	
	Q1315	3MS5	ON	OFF	MOM			
DP	Q1321	3MD1	ON	NONE	ON	2-3,5-6 	N/A	2-1,5-4
	Q1322	3MD2	ON	NONE	MOM			
	Q1323	3MD3	ON	OFF	ON			
	Q1324	3MD4	MOM	OFF	MOM		OPEN	
	Q1325	3MD5	ON	OFF	MOM			
	Q1326	3MD6	ON	ON	ON			
	▲ Q1327	3MD7	MOM	ON	MOM		2-3,5-4	
	▲ Q1328	3MD8	ON	ON	MOM			
3P	Q1331	3M31	ON	NONE	ON	2-3,5-6,8-9 	N/A	2-1,5-4,8-7
	Q1332	3M32	ON	NONE	MOM			
	Q1333	3M33	ON	OFF	ON			
	Q1334	3M34	MOM	OFF	MOM		OPEN	
	Q1335	3M35	ON	OFF	MOM			
4P	Q1341	3M41	ON	NONE	ON	2-3,5-6,8-9,11-12 	N/A	2-1,5-4,8-7,11-10
	Q1342	3M42	ON	NONE	MOM			
	Q1343	3M43	ON	OFF	ON			
	Q1344	3M44	MOM	OFF	MOM		OPEN	
	Q1345	3M45	ON	OFF	MOM			
	Q1346	3M46	ON	ON	ON			
	▲ Q1347	3M47	MOM	ON	MOM		2-3,5-4,8-9,11-10	
	▲ Q1348	3M48	ON	ON	MOM			

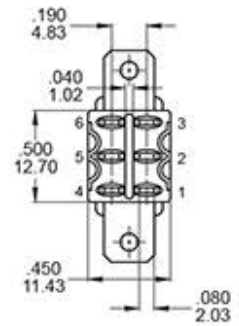
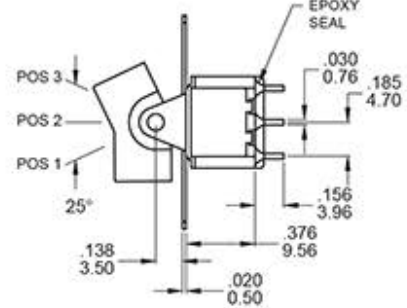
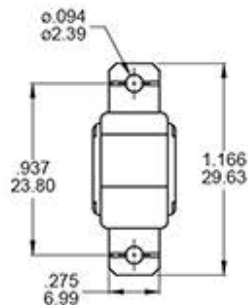
MOM=MOMENTARY

▲ Please check the availability in advance before order

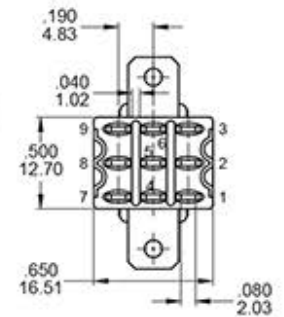
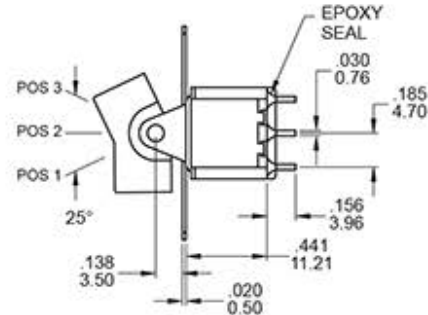
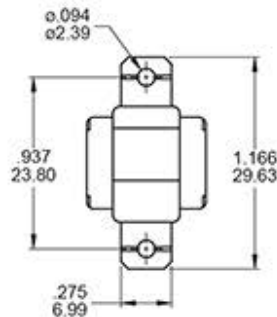
POLE OPTIONS



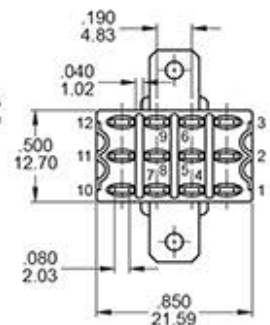
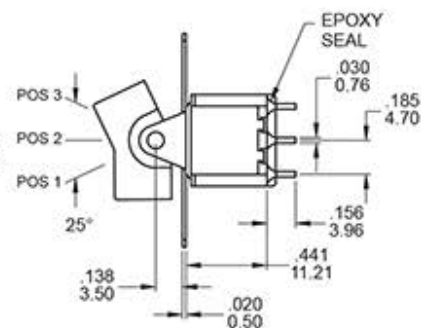
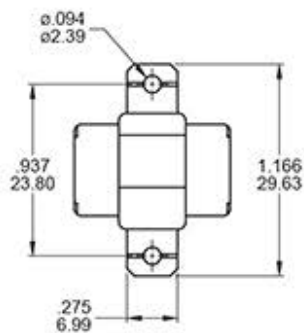
SPDT



DPDT



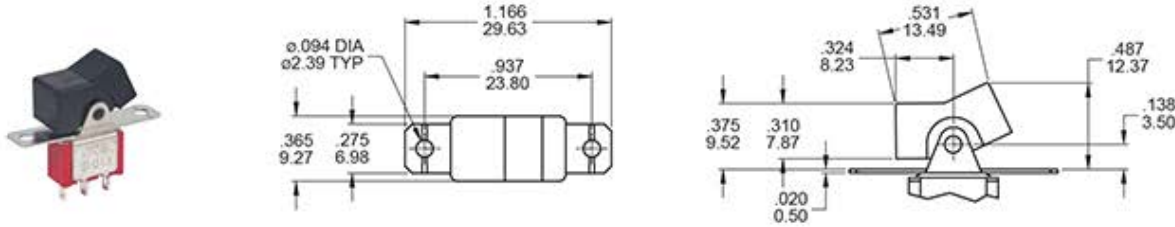
3PDT



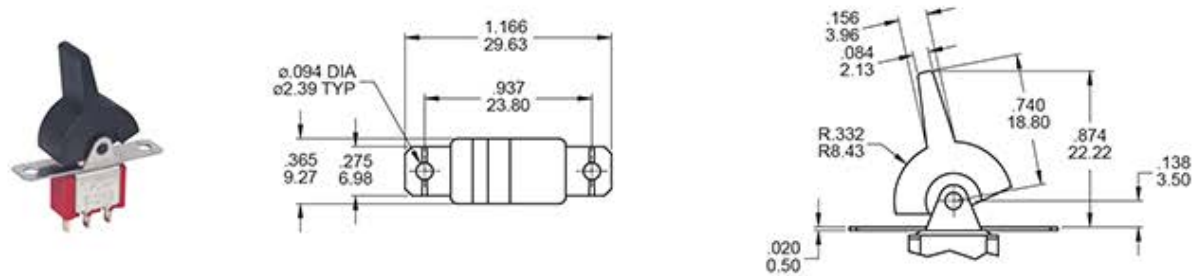
4PDT

ACTUATOR OPTIONS FOR PANEL MOUNT ONLY

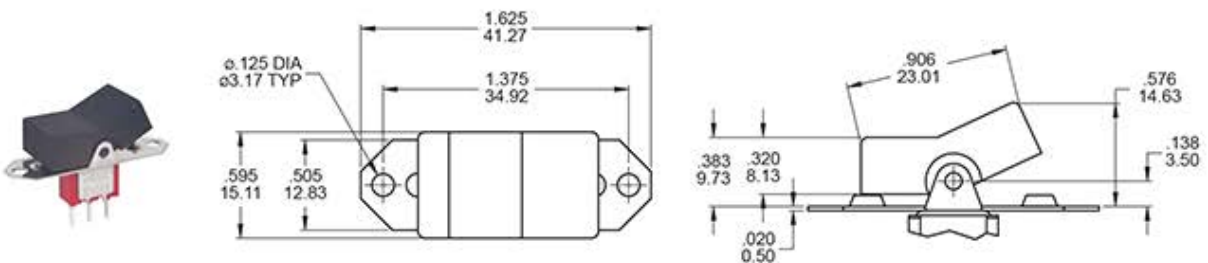
R1



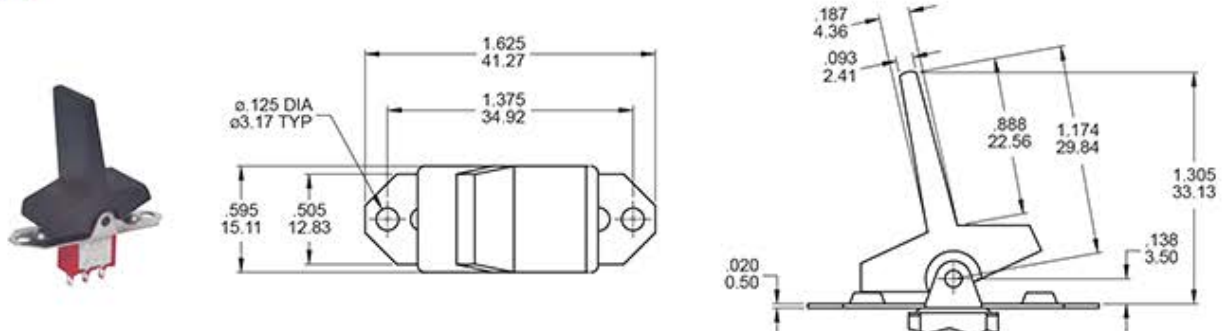
R2



R3

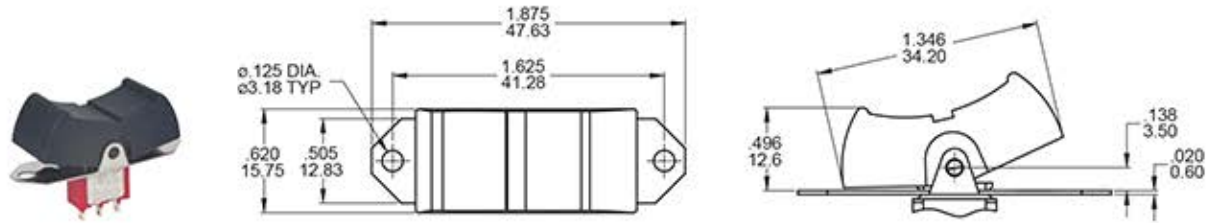


R4

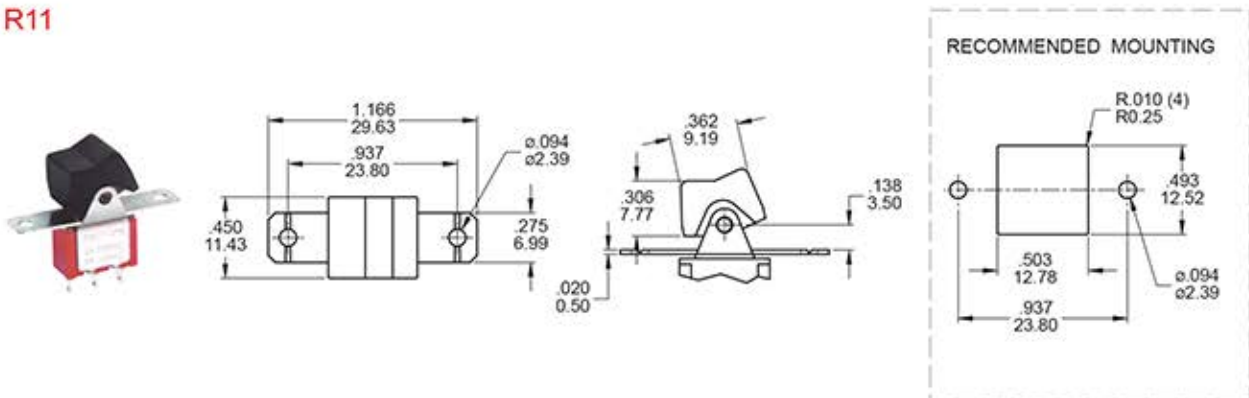


ACTUATOR OPTIONS SNAP-IN FRONT MOUNT

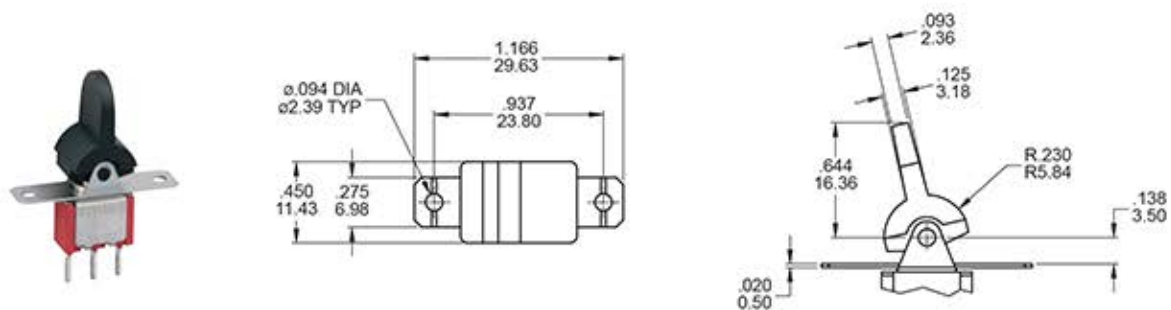
R5



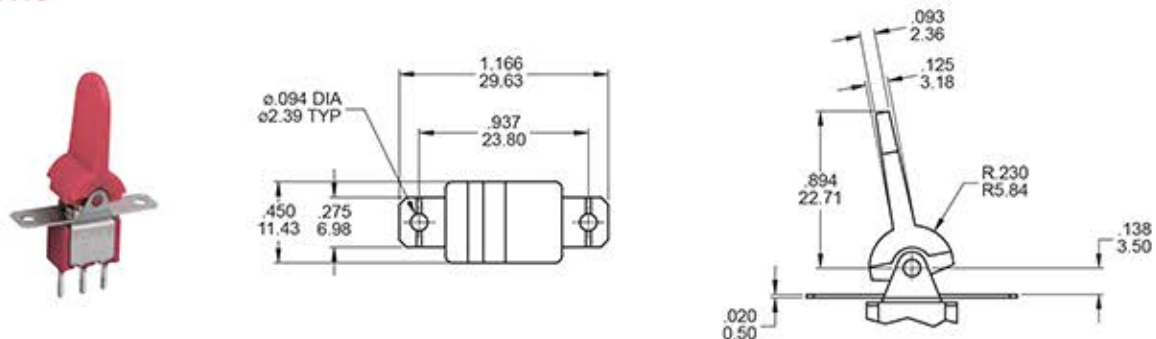
R11



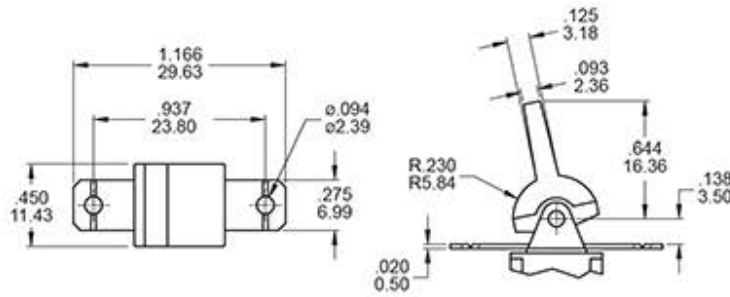
R12



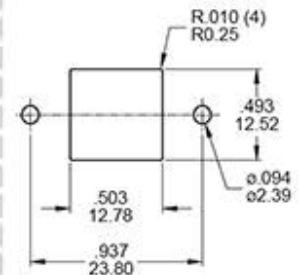
R13



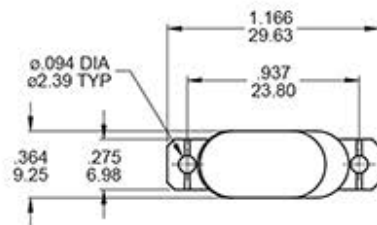
R16



RECOMMENDED MOUNTING

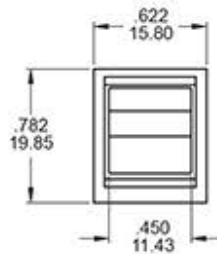


RB

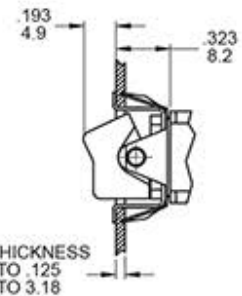


ACTUATOR OPTIONS SNAP-IN FRONT MOUNT

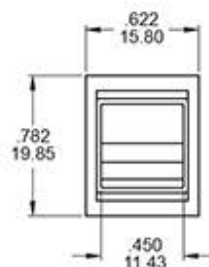
R6



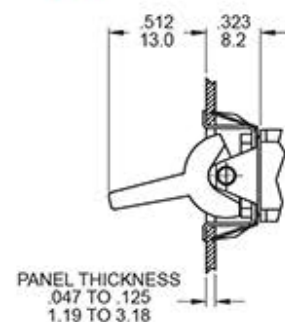
R6K Snap-in



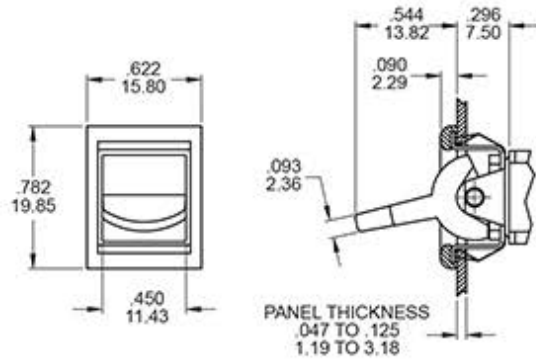
R7



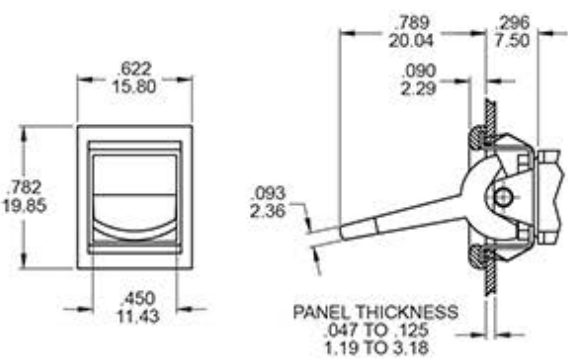
R7K Snap-in



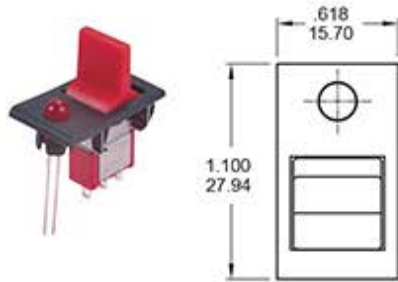
R8



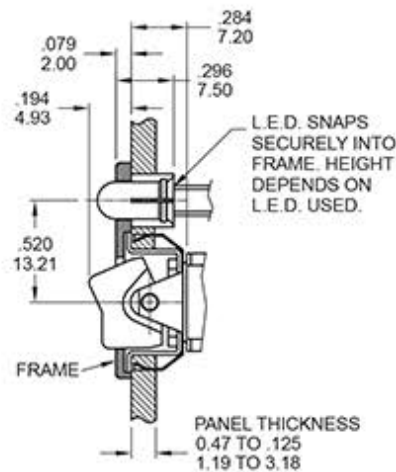
R9



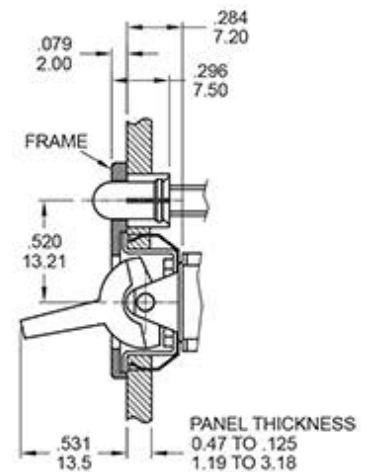
R18



▲R17

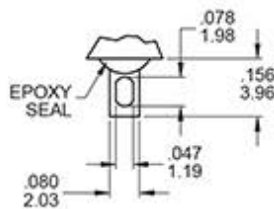


▲R17



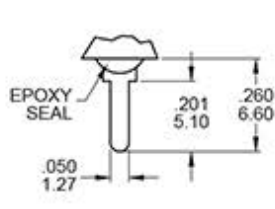
TERMINATION OPTIONS

M1 Solder lug



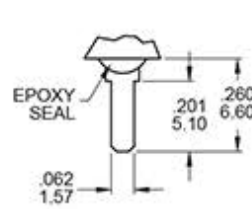
THK .030(0.76)

M2 PC Thru-hole



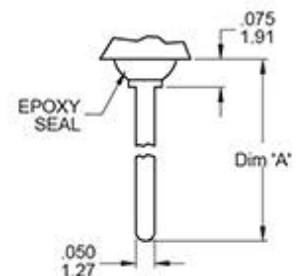
THK .030(0.76)

M3 Quick connect



THK .030(0.76)

M5 Wire Wrap



THK .030(0.76)

OTHER TERMINATION OPTIONS

M6 Right angle P.C. Mount

M7 Right angle P.C. Mount

VS2 Vertical bracket P.C. Mount

VS3 Vertical bracket P.C. Mount

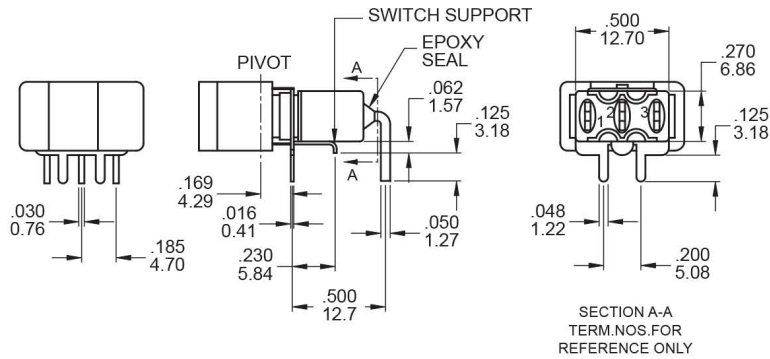
VS4 Vertical bracket P.C. Mount

VS5 Vertical bracket P.C. Mount

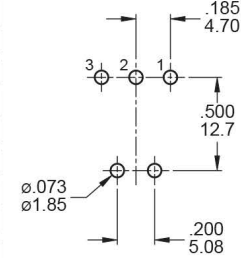
V2N Vertical bracket P.C. Mount with snap-in bracket

OPTION CODE	DIM. 'A'
M51	.736 (18.70)
M52	.953 (24.20)
M53	.415 (10.55)
M54	1.062 (26.97)

M6

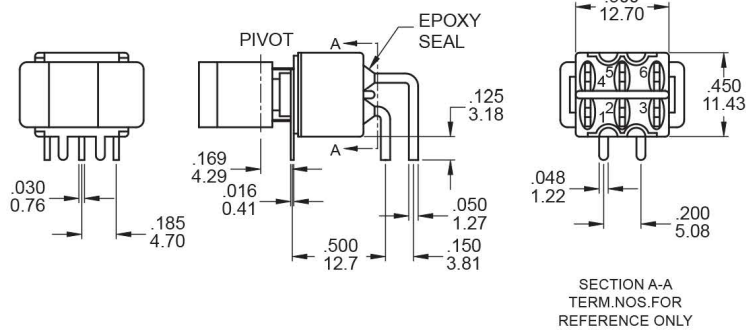


P.C. MOUNTING

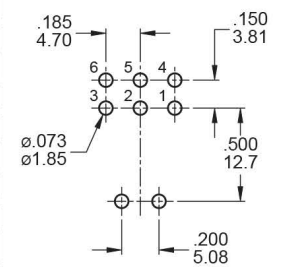


SPDT

M6

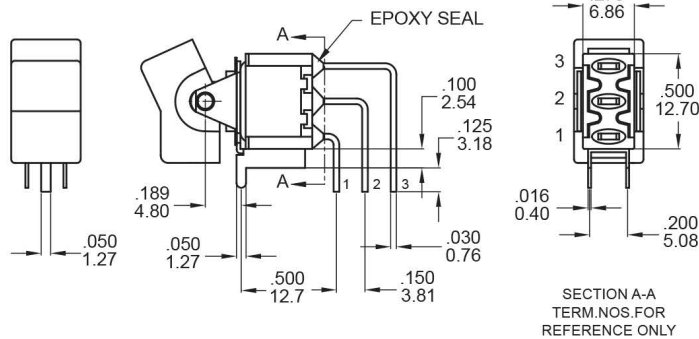


P.C. MOUNTING

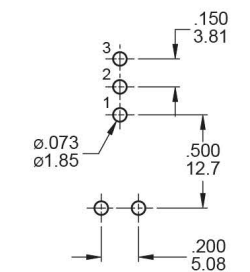


DPDT

M7

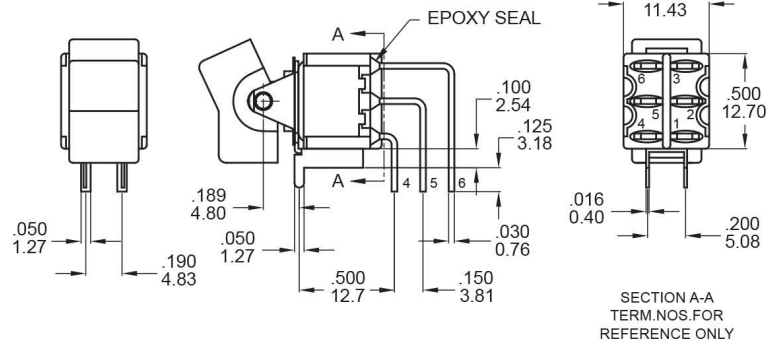


P.C. MOUNTING

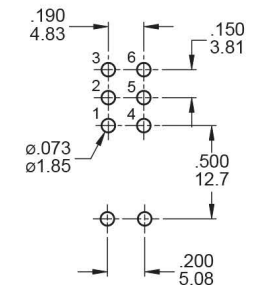


SPDT

M7

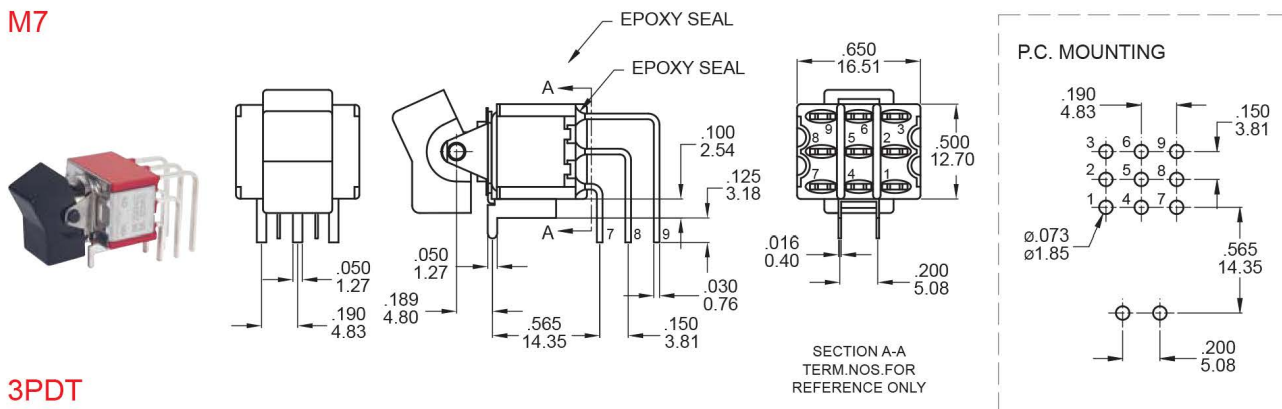


P.C. MOUNTING



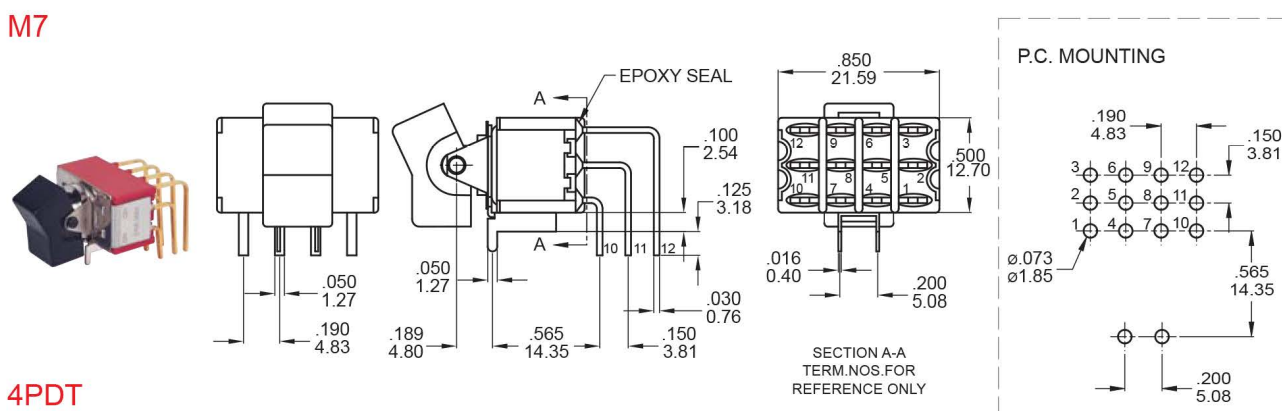
DPDT

M7



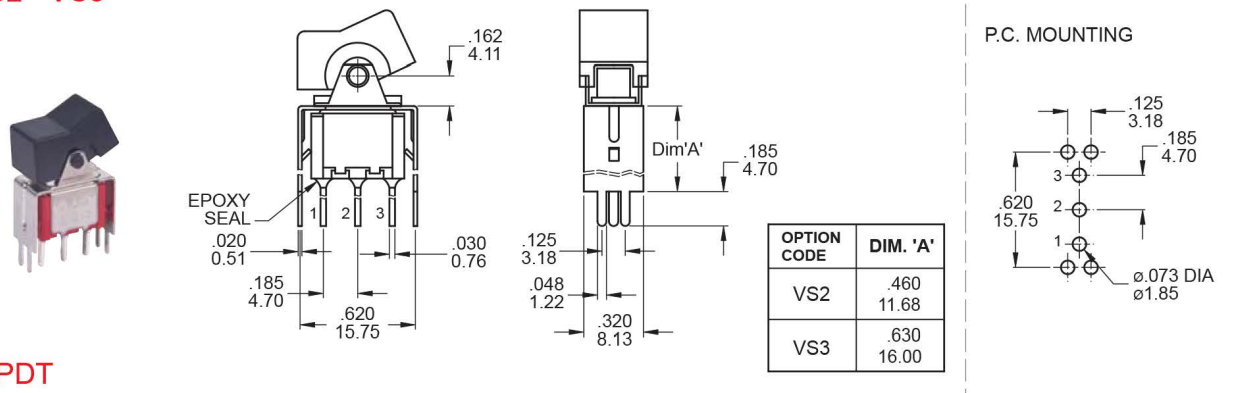
3PDT

M7



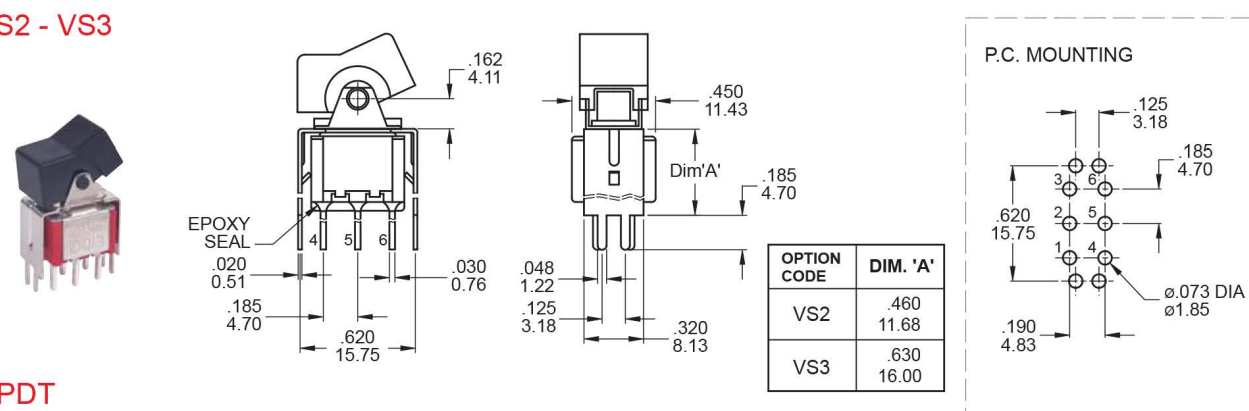
4PDT

VS2 - VS3



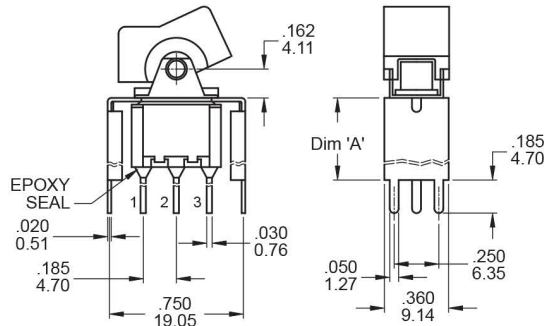
SPDT

VS2 - VS3



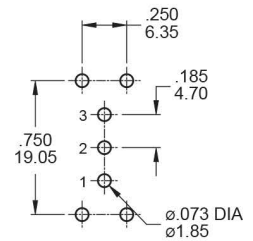
DPDT

VS4 - VS5



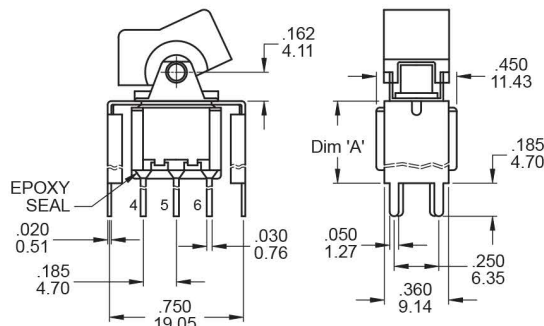
OPTION CODE	DIM. 'A'
VS4	.460 11.68
VS5	.630 16.00

P.C. MOUNTING



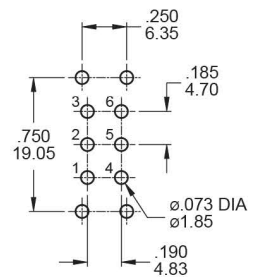
SPDT

VS4 - VS5



OPTION CODE	DIM. 'A'
VS4	.460 11.68
VS5	.630 16.00

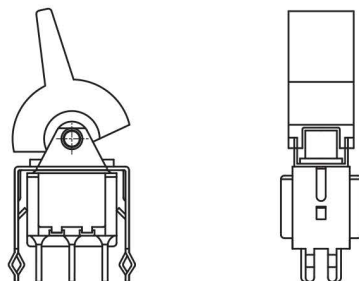
P.C. MOUNTING



DPDT

SNAP-IN TERMINATION OPTIONS

V2N



CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	5 Amps with resistant load @ 120VAC or 28VDC
C	Gold over Silver	C = Gold over silver	2 Amps with resistant load @ 250VAC
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)