

SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 64.

MECHANICAL LIFE: 30,000 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 & BUSHING : Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0).

ACTUATOR: Nylon, black std. Internal O-ring seal standard with all actuators.

SWITCH SUPPORT: Brass or steel, tin plated.

ACTUATOR PIVOT & MOUNTING BRACKET: Nylon.

ACTUATOR PIVOT RETAINER: Stainless steel.

TERMINAL/CONTACT: Silver or gold plated copper alloy.
(See Page 64)

IP 67
ACCORDING TO
EN 60529:1991+A1:2001
IEC 60529:2001

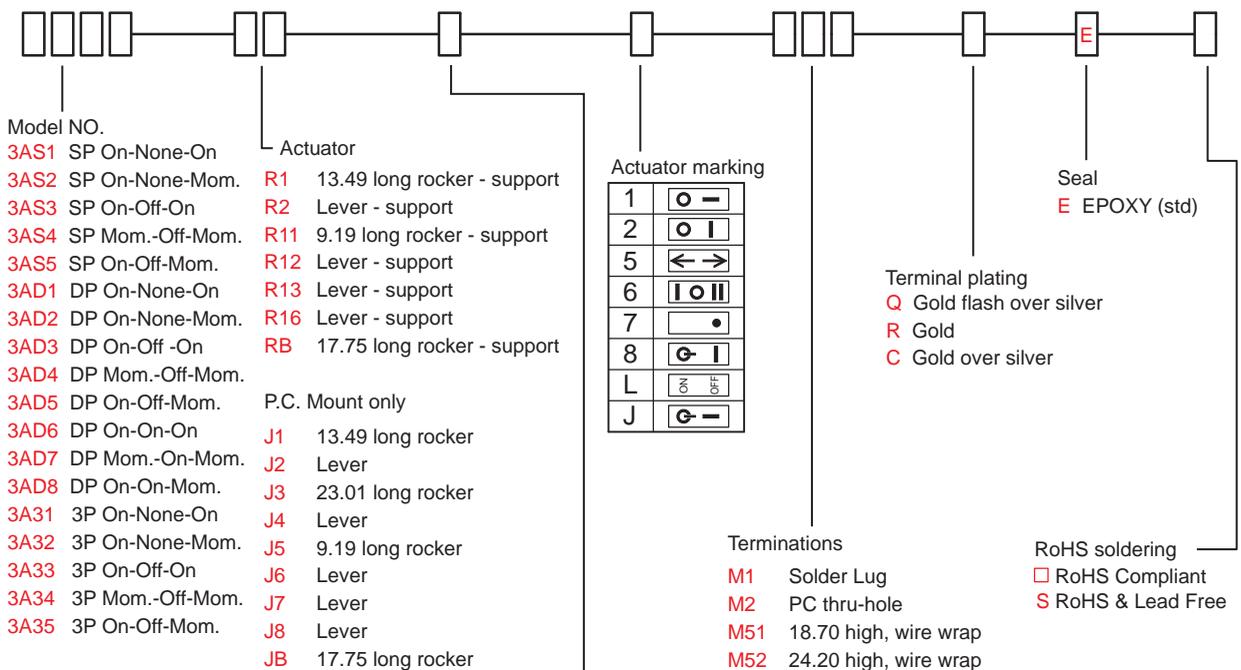
UL US
E 187490

RoHS
compliant

Pb
lead-free

HOW TO ORDER

MODEL NO. ACTUATOR ACTUATOR COLOR ACTUATOR MARKING TERMINATIONS TERMINAL PLATING SEAL RoHS SOLDERING



Model NO.	Actuator	Actuator Color	Actuator Marking
3AS1	SP On-None-On	R1	13.49 long rocker - support
3AS2	SP On-None-Mom.	R2	Lever - support
3AS3	SP On-Off-On	R11	9.19 long rocker - support
3AS4	SP Mom.-Off-Mom.	R12	Lever - support
3AS5	SP On-Off-Mom.	R13	Lever - support
3AD1	DP On-None-On	R16	Lever - support
3AD2	DP On-None-Mom.	RB	17.75 long rocker - support
3AD3	DP On-Off -On		
3AD4	DP Mom.-Off-Mom.		
3AD5	DP On-Off-Mom.	P.C. Mount only	
3AD6	DP On-On-On	J1	13.49 long rocker
3AD7	DP Mom.-On-Mom.	J2	Lever
3AD8	DP On-On-Mom.	J3	23.01 long rocker
3A31	3P On-None-On	J4	Lever
3A32	3P On-None-Mom.	J5	9.19 long rocker
3A33	3P On-Off-On	J6	Lever
3A34	3P Mom.-Off-Mom.	J7	Lever
3A35	3P On-Off-Mom.	J8	Lever
		JB	17.75 long rocker

Actuator marking

1	○ —
2	○
5	← →
6	○
7	— ●
8	⊕
L	ON OFF
J	⊕ —

Terminal plating

Q	Gold flash over silver
R	Gold
C	Gold over silver

Terminations

M1	Solder Lug
M2	PC thru-hole
M51	18.70 high, wire wrap
M52	24.20 high, wire wrap
M53	10.55 high, wire wrap
M54	26.97 high, wire wrap
M6	Right angle, PC thru-hole
M6N	Right angle, snap-in, PC thru-hole
M7	Vertical right angle, PC thru-hole
VS2	11.68 high, V-bracket
V2N	11.68 high, snap-in V-bracket
VS3	16.00 high, V-bracket

RoHS soldering

□	RoHS Compliant
S	RoHS & Lead Free

Actuator Color

ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

* Besides standard color, other colors need to check stocks available.

3A Series

Swaled Miniature Rocker & Paddle 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	Q13A11	3AS1	ON	NONE	ON	2-3	N/A	2-1	
	Q13A12	3AS2	ON	NONE	MOM				
	Q13A13	3AS3	ON	OFF	ON		OPEN		
	Q13A14	3AS4	MOM	OFF	MOM				
	Q13A15	3AS5	ON	OFF	MOM				
DP	Q13A21	3AD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	Q13A22	3AD2	ON	NONE	MOM				
	Q13A23	3AD3	ON	OFF	ON		OPEN		
	Q13A24	3AD4	MOM	OFF	MOM				
	Q13A25	3AD5	ON	OFF	MOM				
	▲	Q13A26	3AD6	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4
	▲	Q13A27	3AD7	MOM	ON	MOM			
	Q13A28	3AD8	ON	ON	MOM				
3P	Q13A31	3A31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	
	Q13A32	3A32	ON	NONE	MOM				
	Q13A33	3A33	ON	OFF	ON		OPEN		
	Q13A34	3A34	MOM	OFF	MOM				
	Q13A35	3A35	ON	OFF	MOM				

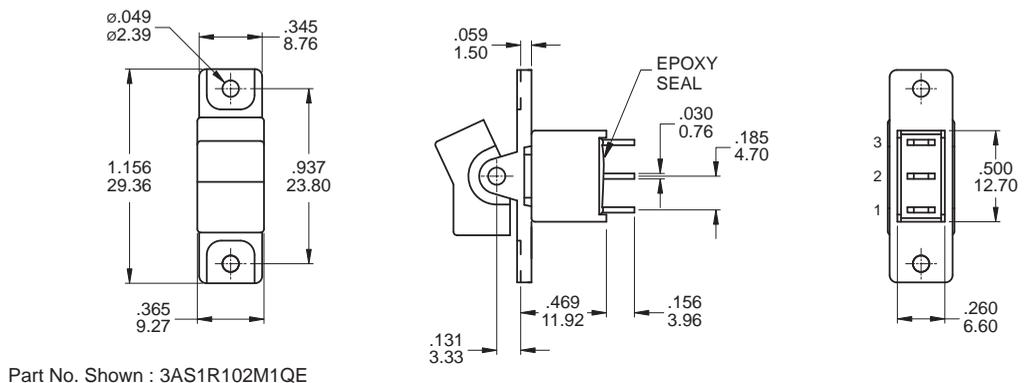
MOM=MOMENTARY

▲ Please check the availability in advance before order

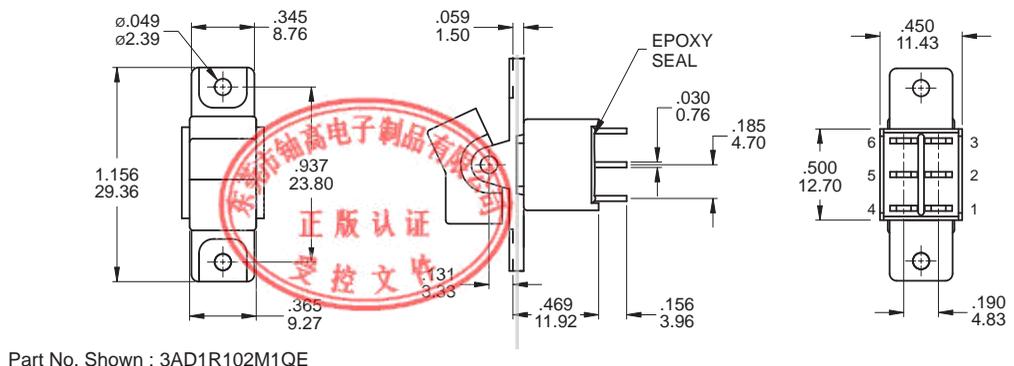
POLE OPTIONS

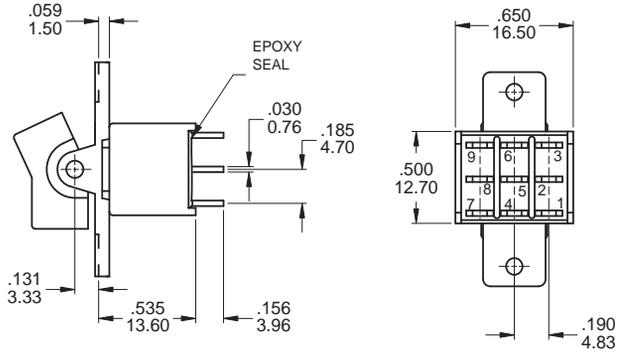
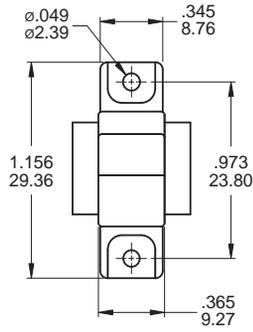


SPDT



DPDT



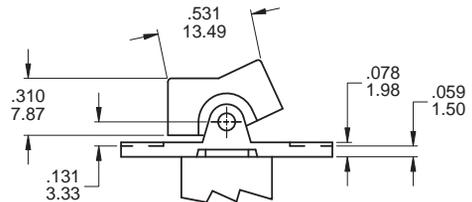
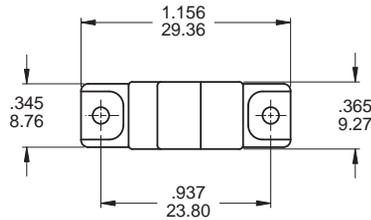


3PDT

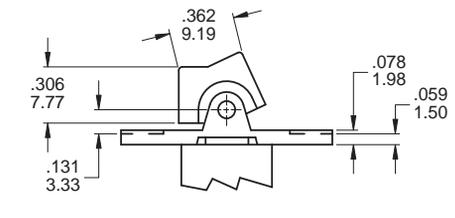
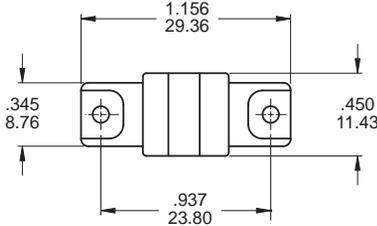
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ACTUATOR OPTIONS FOR PANEL MOUNT ONLY

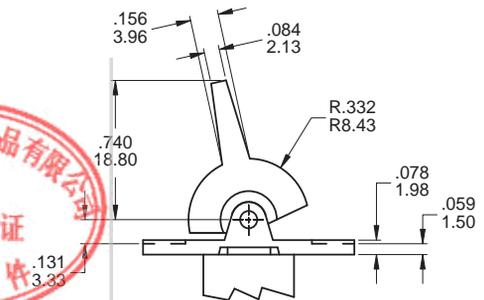
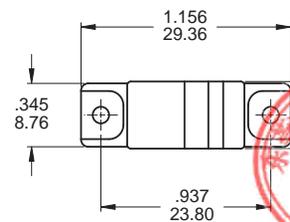
R1



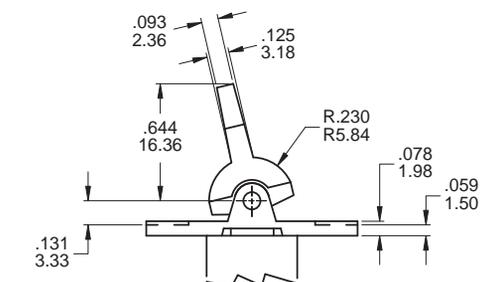
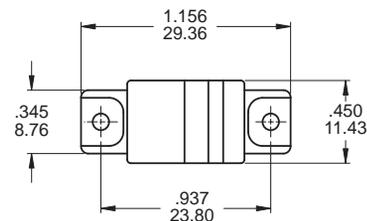
R11



R2



R12



永源电子科技有限公司
正版认证
受控文件

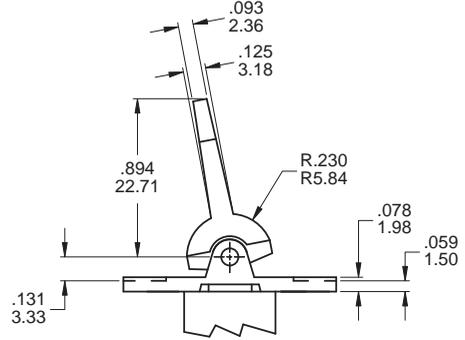
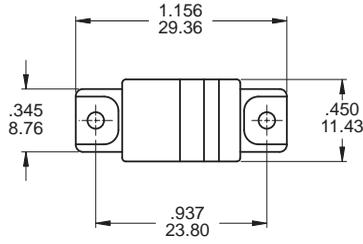
3A Series

Sealed Miniature Rocker & Paddle Switches

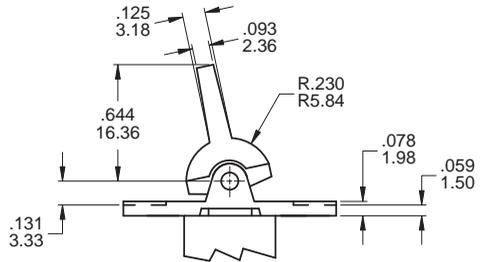
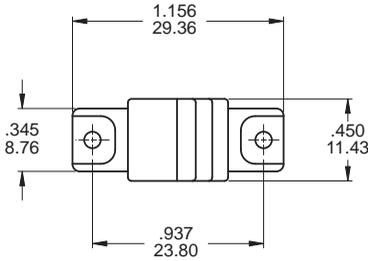


3A
Rocker Switches

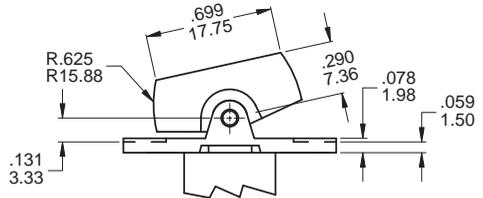
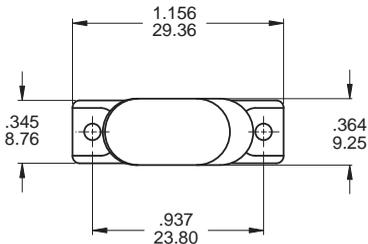
R13



R16

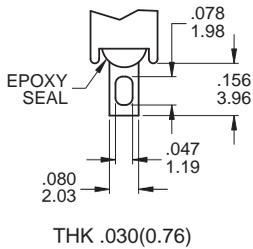


RB

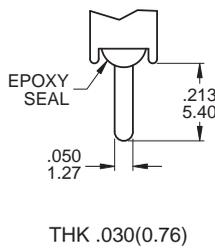


TERMINATION OPTIONS

M1 Solder lug



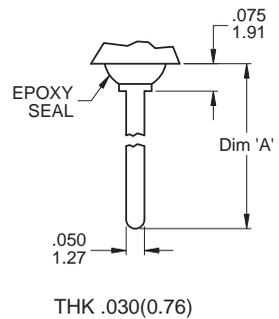
M2 PC Thru-hole



M3 Quick connect



M5 Wire Wrap



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

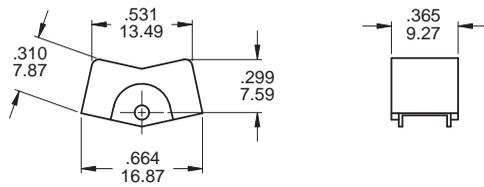
M6N Right angle P.C. Mount with snap-in bracket

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

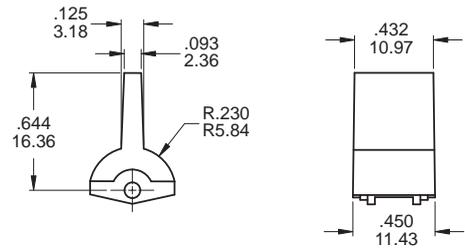
OPTION CODE	DIM. 'A'
M51	.736 (18.70)
M52	.953 (24.20)
M53	.415 (10.55)
M54	1.062 (26.97)

ACTUATOR OPTIONS FOR P.C. MOUNT ONLY

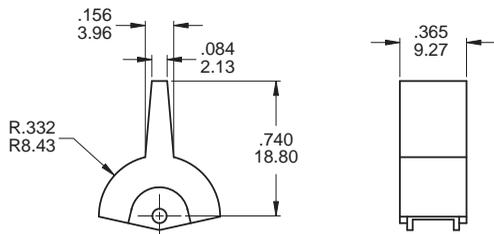
J1



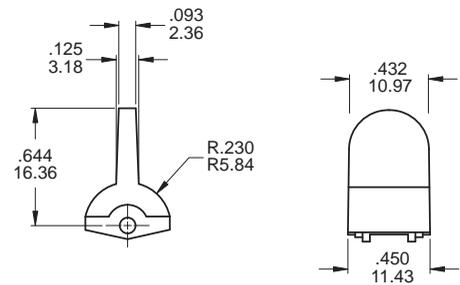
J6



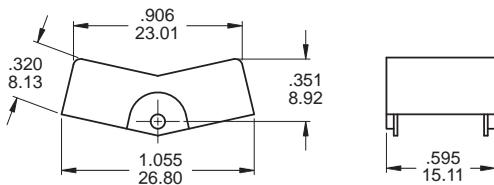
J2



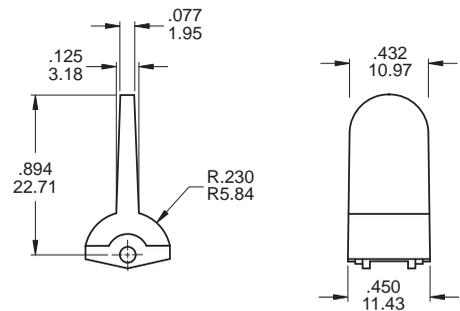
J7



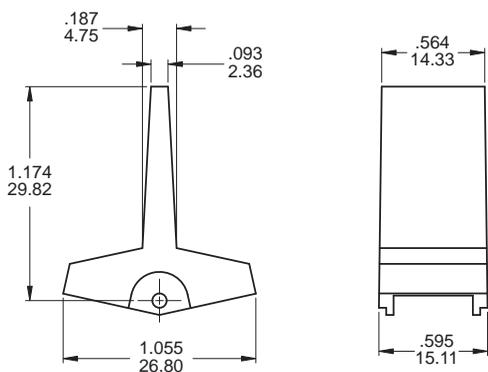
J3



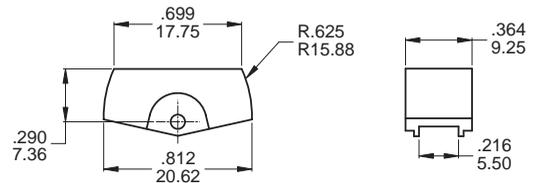
J8



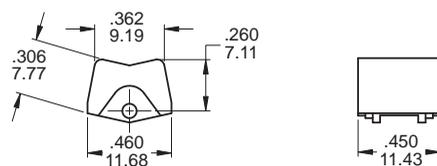
J4



JB



J5



Actuator colors:

ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

* Besides standard color, other colors need to check stocks available.



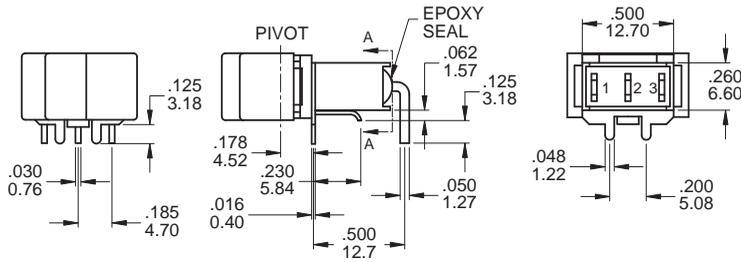
3A Series

Sealed Miniature Rocker & Paddle Switches

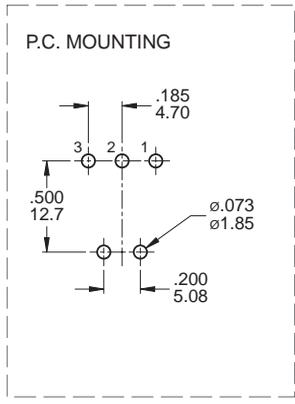


3A
Rocker Switches

M6



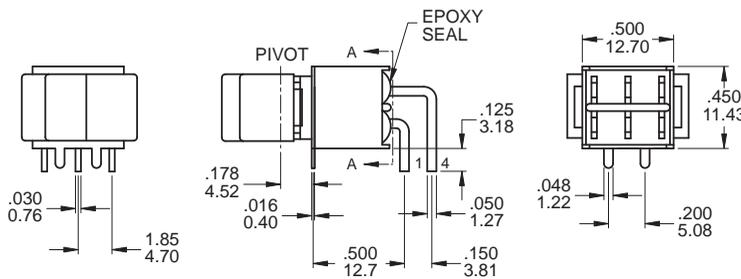
SECTION A-A
TERM.NOS.FOR
REFERENCE ONLY



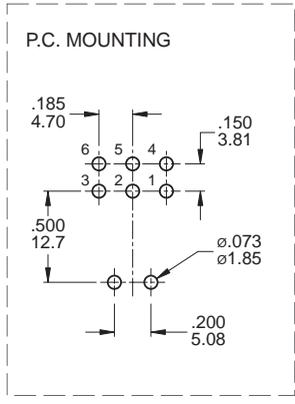
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M6



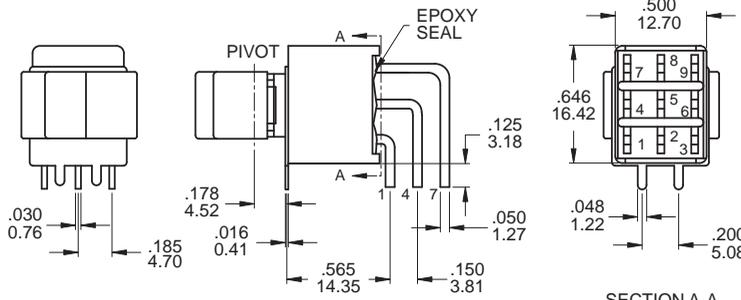
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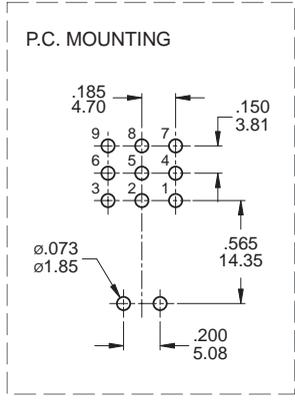
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M6



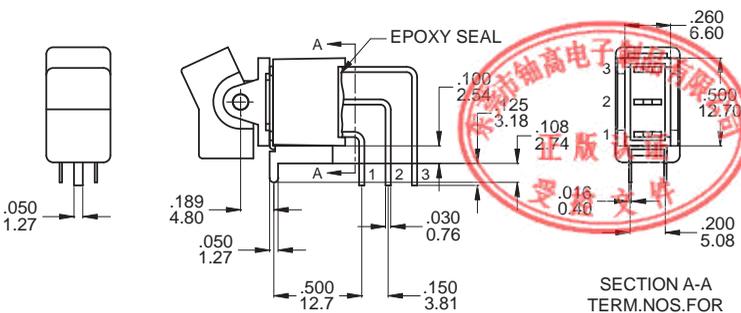
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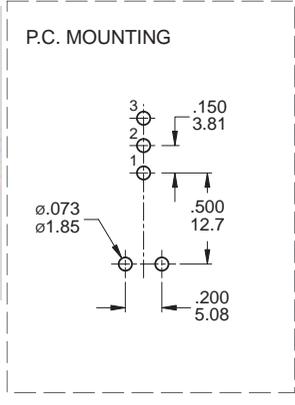
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M7

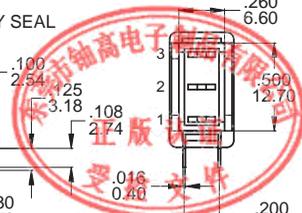


SECTION A-A
TERM.NOS.FOR
REFERENCE ONLY



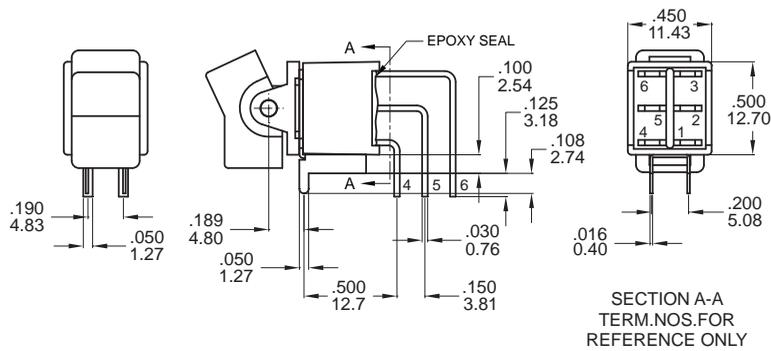
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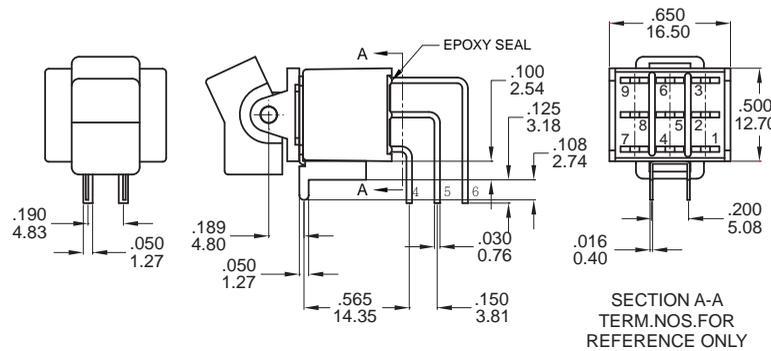
M7



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DPDT

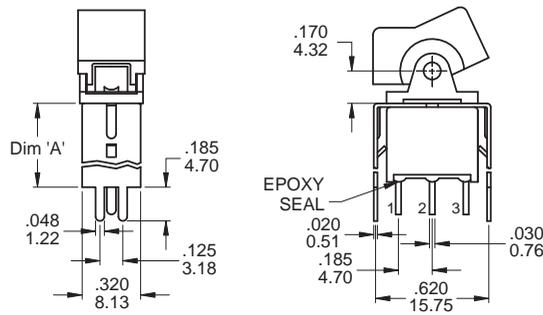
M7



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3PDT

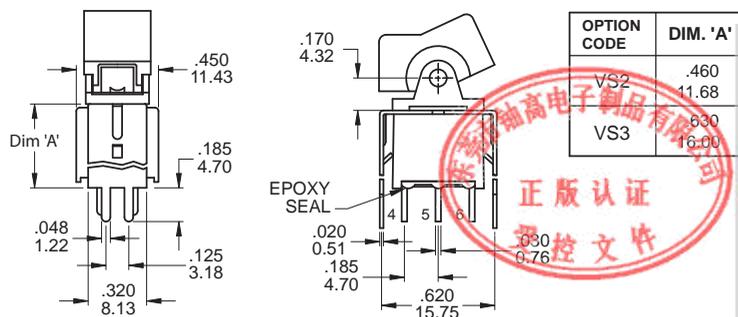
VS2 - VS3



Part No. Shown : 3AS1J102VS2QE

SPDT

VS2 - VS3



Part No. Shown : 3AD1J102VS2QE

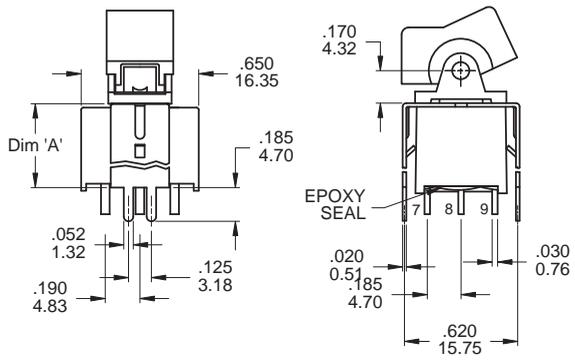
DPDT

3A Series

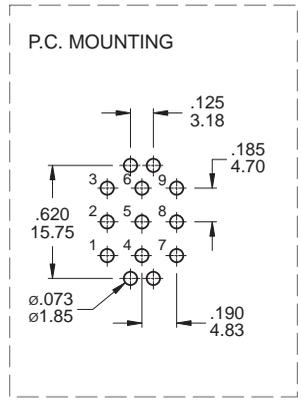
Sealed Miniature Rocker & Paddle Switches

3A Rocker Switches

VS2 - VS3



OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



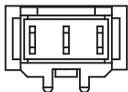
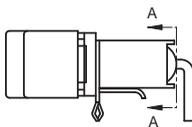
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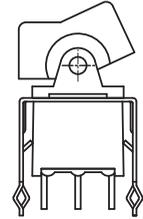
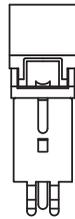
SNAP-IN TERMINATION OPTIONS

M6N

V2N



SECTION A-A



CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over 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)