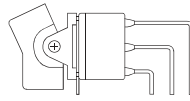
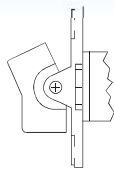
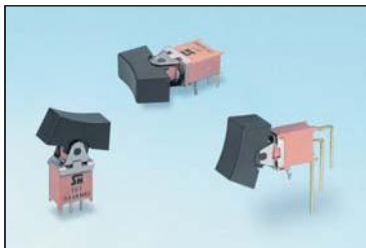
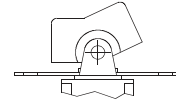
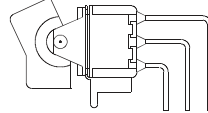
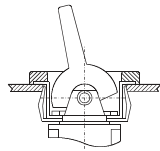


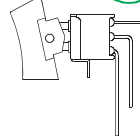
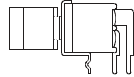
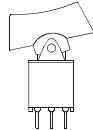
NE80-R Sealed Miniature Rocker and Paddle SwitchesB01



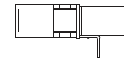
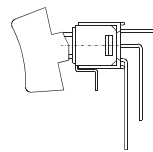
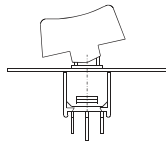
T80-R Miniature Rocker and Paddle Switches.....B05



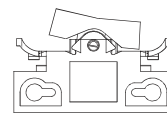
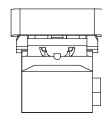
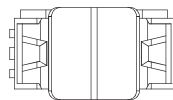
ES40-R Sealed Sub-miniature Rocker SwitchesB15



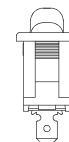
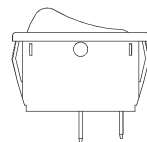
TS40-R Sub-miniature Rocker SwitchesB20



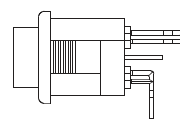
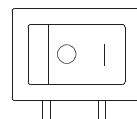
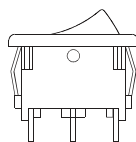
T60-R Rocker SwitchesB23

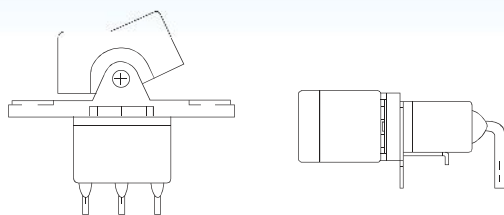


R70 Power Rocker SwitchesB24



IR90 Power Rocker SwitchesB25





SPECIFICATIONS

CONTACT RATING: 6A @125 VAC or 28 VDC (Q terminal)
 ELECTRICAL LIFE: 50,000 make-and-break cycles at full load
 CONTACT RESISTANCE: 10 mΩ max. initial @2-4 VDC, 100 mA
 INSULATION RESISTANCE: 1,000 MΩ min.
 DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.
 OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE & BUSHING- Glass filled nylon 6/6 or nylon 4/6 (UL94V-0)
 ACTUATOR - Nylon, black standard, internal o-ring
 seal standard with all actuators
 SWITCH SUPPORT- Copper alloy or steel, tin plated
 CONTACT AND TERMINAL- Copper alloy, silver plated
 TERMINAL SEAL- Epoxy



How do you build the switches you need!!

The straight terminal type , please see the (A) ;

The right angle P.C terminals, please see the (B)

(A) N E R 8 0 1 5 - R 1 1 - 2 - C Q - S 2 0 -

Switches Function			Actuator	Actuator Color	Termination	Contact Material	Vertical support Bracket
NER8015	SP	on-none-on	R11	1 white	B solder lug	Q silver plated	(none)
NER8015A	SP	on-none-(on)	R21	2 black(std)	C P.C 1.27width	R gold plated	
NER8016	SP	on-off-on	P13	3 red	D1 Quick connect	G gold over silver	11.68
NER8016A	SP	(on)-off-(on)	P23	4 orange	D1 wire wrap 19.05	K tin plated	
NER8016B	SP	on-off-(on)		5 yellow	D3 wire wrap 10.8		RoHS code
NER8017	DP	on-none-on		6 green			
NER8017A	DP	on-none-(on)		7 blue			H = RoHS Compliant
NER8018	DP	on-off-on		9 gray			
NER8018A	DP	(on)-off-(on)					
NER8018B	DP	on-off-(on)					
3 way position switches				now the available is code "1/2/3". The other please inquire first			
NER818	SP3T	on-on-on					

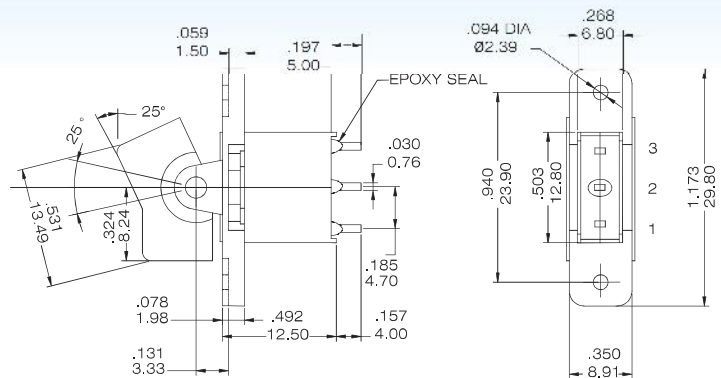
(B) N E R 8 0 1 5 P - R 1 1 - 2 - Q -

Horizon Right Angle	Vertical Right Angle	Switches Function	Actuator	Actuator Color	Contact Material	RoHS code
NER8015P	NER8015L / NER8013L	SP on-none-on	R11	1 white	Q silver plated	H = RoHS Compliant
NER8015PA	NER8015LA / NER8013LA	SP on-none-(on)	R21	2 black(std)	R gold plated	
NER8016P	NER8016L / NER8014L	SP on-off-on	P13	3 red	G gold over silver	11.68
NER8016PA	NER8016LA / NER8014LA	SP (on)-off-(on)	P23	4 orange	K tin plated	
NER8016PB	NER8016LB / NER8014LB	SP on-off-(on)		5 yellow		RoHS code
NER8017P	NER8017L / NER8011L	DP on-none-on		6 green		
NER8017PA	NER8017LA / NER8011LA	DP on-none-(on)		7 blue		H = RoHS Compliant
NER8018P	NER8018L / NER8012L	DP on-off-on		9 gray		
NER8018PA	NER8018LA / NER8012LA	DP (on)-off-(on)				
NER8018PB	NER8018LB / NER8012LB	DP on-off-(on)				
3 way position switches				now the available is code "1/2/3". The other please inquire first		
NER818P/ NER818L/ NER812L		SP3T on-on-on				



SPDT  2 Comm

Model No.	Switching position		
			
NER8015	ON	none	ON
NER8015A	ON	none	(ON)
NER8016	ON	OFF	ON
NER8016A	(ON)	OFF	(ON)
NER8016B	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

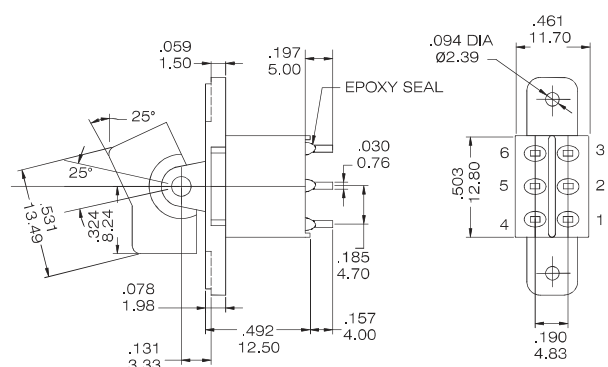
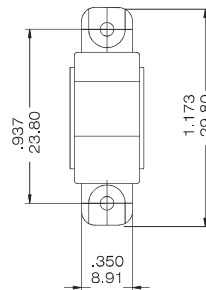


NER8015- R11-2-BQ



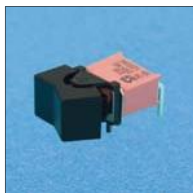
DPDT 

Model No.	Switching position		
			
NER8017	ON	none	ON
NER8017A	ON	none	(ON)
NER8018	ON	OFF	ON
NER8018A	(ON)	OFF	(ON)
NER8018B	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches			
NER818	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



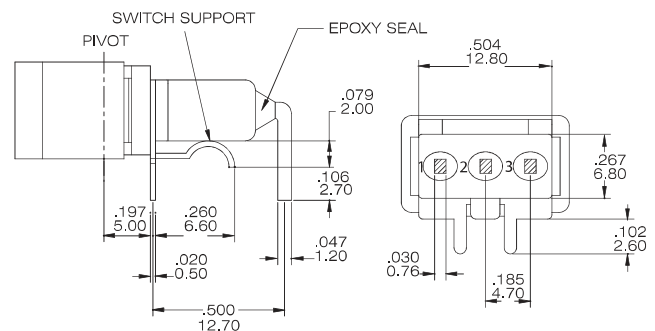
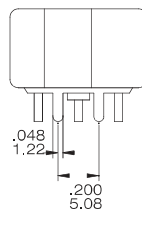
NER8017- R11-2-BQ

Please see page B14 to know more about NER818 (3-way Switches)

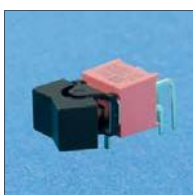


SPDT

Model No.	Switching position		
			
NER8015P	ON	none	ON
NER8015PA	ON	none	(ON)
NER8016P	ON	OFF	ON
NER8016PA	(ON)	OFF	(ON)
NER8016PB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

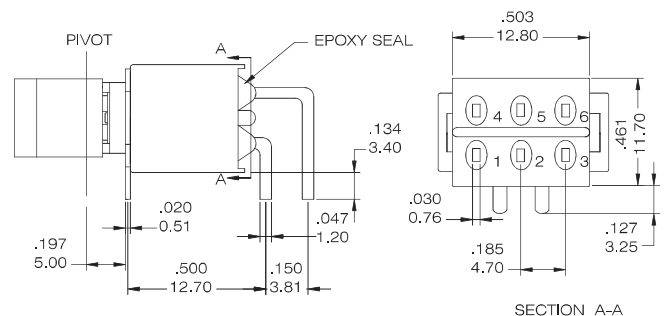
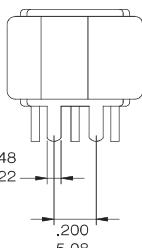


NER8015P - R11-2-Q



DPDT

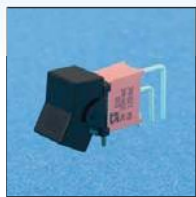
Model No.	Switching position		
			
NER8017P	ON	none	ON
NER8017PA	ON	none	(ON)
NER8018P	ON	OFF	ON
NER8018PA	(ON)	OFF	(ON)
NER8018PB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches			
NER818P	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



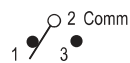
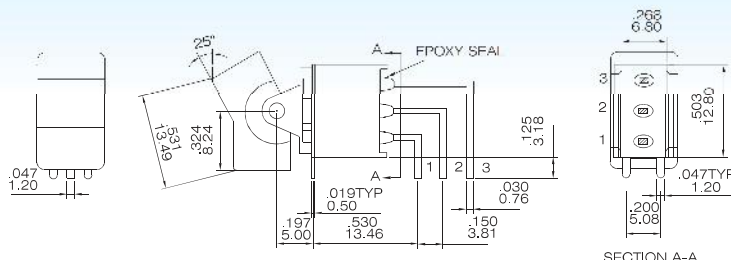
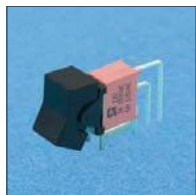
SECTION A-A

NER8017P - R11-2-Q

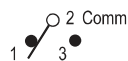
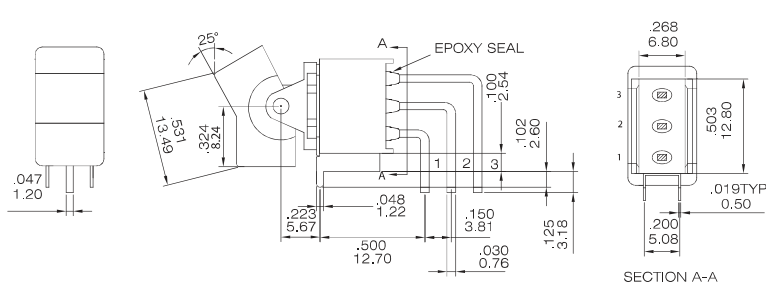
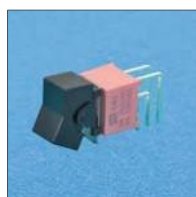
Please see page B14 to know more about NER818P (3-way Switches)

**NE80-R****Sealed Miniature Rocker and Paddle Switches****SPDT**

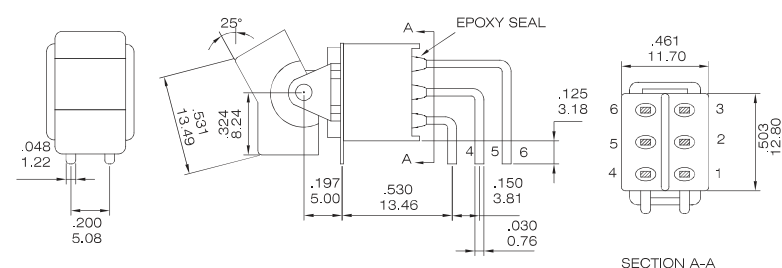
Model No.	Switching position		
NER8015L	ON	none	ON
NER8015LA	ON	none	(ON)
NER8016L	ON	OFF	ON
NER8016LA	(ON)	OFF	(ON)
NER8016LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

**NER8015L- R11-2-Q****SPDT**

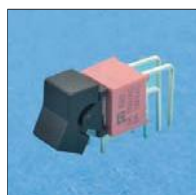
Model No.	Switching position		
NER8013L	ON	none	ON
NER8013LA	ON	none	(ON)
NER8014L	ON	OFF	ON
NER8014LA	(ON)	OFF	(ON)
NER8014LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

**NER8013L- R11-2-Q****DPDT**

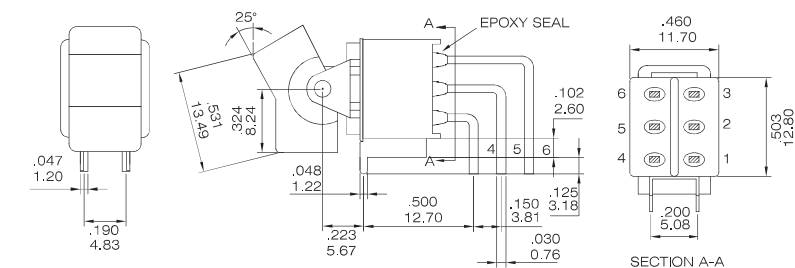
Model No.	Switching position		
NER8017L	ON	none	ON
NER8017LA	ON	none	(ON)
NER8018L	ON	OFF	ON
NER8018LA	(ON)	OFF	(ON)
NER8018LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches			
NER818L	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

**NER8017L - R11-2-Q**

Please see page B14 to know more about NER818L (3-way Switches)

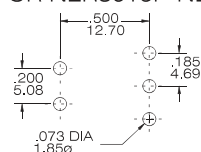
DPDT

Model No.	Switching position		
NER8011L	ON	none	ON
NER8011LA	ON	none	(ON)
NER8012L	ON	OFF	ON
NER8012LA	(ON)	OFF	(ON)
NER8012LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches			
NER812L	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

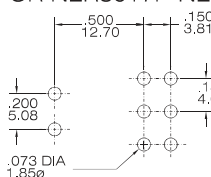
**NER8011L - R11-2-Q**

Please see page B14 to know more about NER812L (3-way Switches)

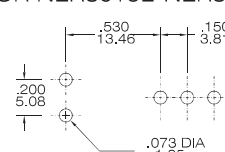
FOR NER8015P-NER8016PB



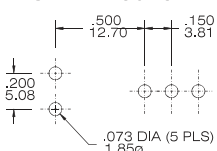
FOR NER8017P-NER8018PB



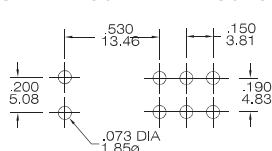
FOR NER8015L-NER8016LB



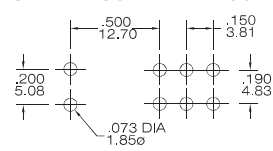
FOR NER8013L-NER8014LB

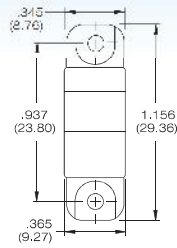
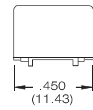
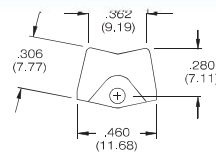
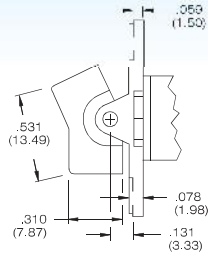
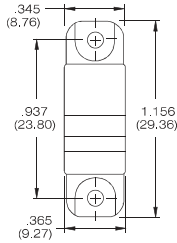
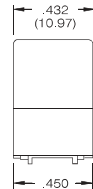
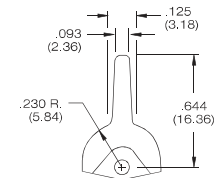
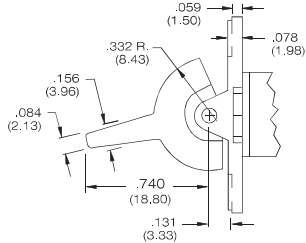
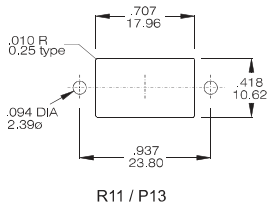


FOR NER8017L-NER8018LB

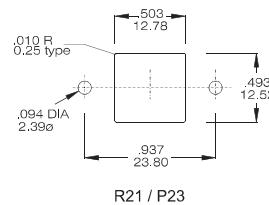


FOR NER8011L-NER8012LB

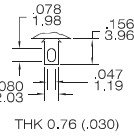
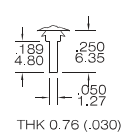
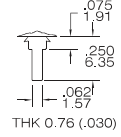
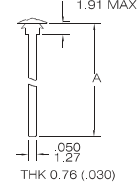


**NE80-R****Sealed Miniature Rocker and Paddle Switches****Actuator Option****R11****R21****P13****P23****Panel Mounting**

R11 / P13



R21 / P23

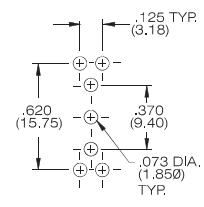
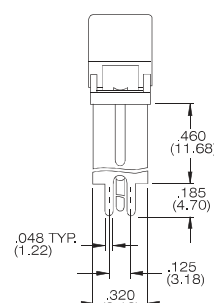
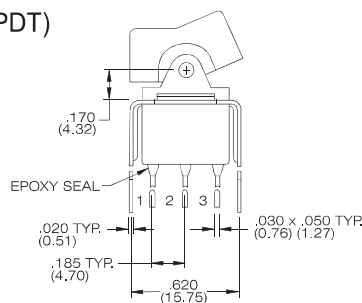
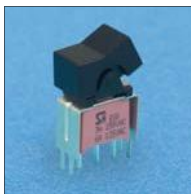
Terminal Option (only for straight type NER8015~NER8018)**B SOLDER LUG****C PRINTED CIRCUIT****D QUICK CONNECT****WIREWRAP****WIREWRAP**

CODE	"A" dimension
D1	.750 (19.05)
D3	.425 (10.8)

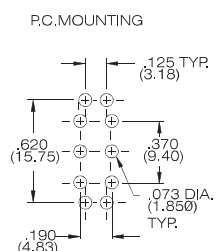
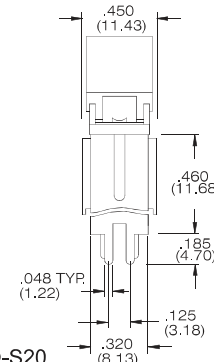
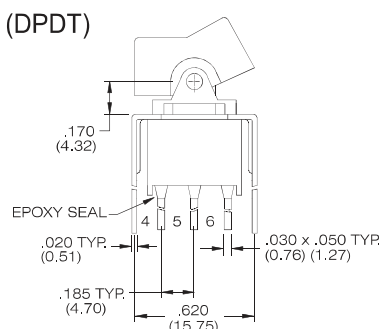
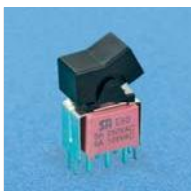
CONTACT MATERIAL OPTIONS

CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	6 A @ 125V AC or 28 V DC; 3 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 6 A @ 125V AC or 28 V DC; 3 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

* THE K option is only for some special item. Please inquire first when you need the "K" option

VERTICAL SUPPORT BRACKET (only apply the straight type terminal: page B02)**S20 (SPDT)**

NER8015-R11-2-CQ-S20

S20 (DPDT)

NER8017 - R11-2-CQ-S20

The dimensions in the catalogue and website are for reference only, not suitable for formal acknowledge.

B-04

INDEX

TOGGLE

ROCKER

SLIDE

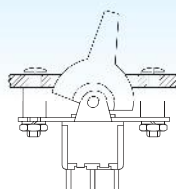
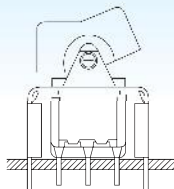
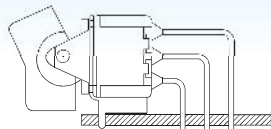
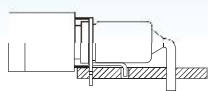
PUSH BUTTON

DIP

TACT

**T80-R (UL61058)**

Miniature Rocker and Paddle Switches

**UL** [®] **US**
UL 61058

SPECIFICATIONS

CONTACT RATING: 6A @125 VAC or 28 VDC (Q terminal)
 ELECTRICAL LIFE: 10,000 make-and-break cycles at full load
 CONTACT RESISTANCE: 10 mΩ max. initial @2-4 VDC, 100 mA
 INSULATION RESISTANCE: 1,000 MΩ min.
 DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.
 OPERATING TEMPERATURE: -30°C to +120°C

MATERIALS

CASE - diallyl phthalate (DAP)
 Actuator - ABS ,black standard.
 Frame - Nylon (UL 94V-0) ,black
 BUSHING - Copper alloy or Zinc , nickel plated
 HOUSING - Stainless Steel
 CONTACT AND TERMINAL - Copper alloy, silver plated

How do you build the switches you need!!

(A) R 9 0 1 5 - R 1 1 - 2 - C Q - E - S 2 0 -

Switches Function		
R9015	SP	R9017 DP on-none-on
R9015A	SP	R9017A DP on-none-(on)
R9016	SP	R9018 DP on-off-on
R9016A	SP	R9018A DP (on)-off-(on)
R9016B	SP	R9018B DP on-off-(on)
R9301V	3P	R9401V 4P on-none-on
R9303V	3P	R9403V 4P on-none-(on)
R9305V	3P	R9405V 4P on-off-on
R9307V	3P	R9407V 4P (on)-off-(on)
R9309V	3P	R9409V 4P on-off-(on)
3 way position switches		
R918		SP3T on-on-on
R918A		SP3T (on)-on-(on)
R918B		SP3T on-on-(on)
R945V		DP3T on-on-on
R947V		DP3T (on)-on-(on)
R949V		DP3T on-on-(on)

Actuator	Actuator Color
R11	1 white
R21	2 black(std)
P13	3 red
P23	4 orange
R15	5 yellow
R17	6 green
R12	7 blue
R22	9 gray
R32	
P14	now the available is code "1/2/3/4/7/9" the other please inquire first
P24	
P34	

Frame Color
1 white
2 black
3 red

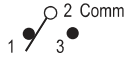
Termination
B solder lug
C P.C 1.27width
D Quick connect
D1 wire wrap 19.05
D3 wire wrap 10.8

Contact Material
Q silver plated
R gold plated
G gold over silver
K tin plated

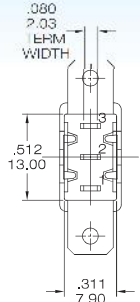
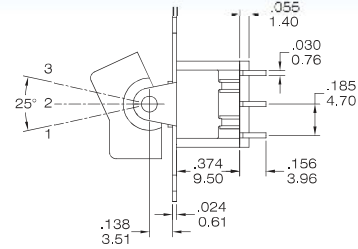
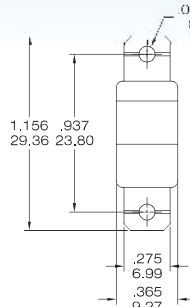
Epoxy seal
(none) none seal
E epoxy seal

Vertical support Bracket	
(none)	
S20	11.68
S25	16.00
S35	11.68
S40	16.00
V20	snap-in 11.68
V25	snap-in 16.00
V35	snap-in 11.68
V40	snap-in 16.00

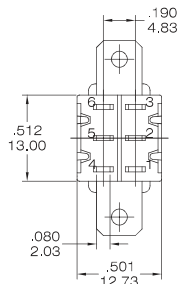
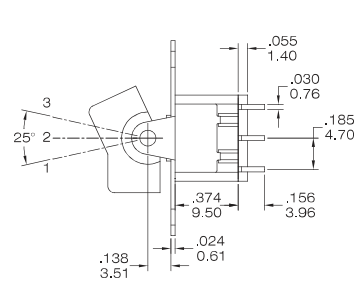
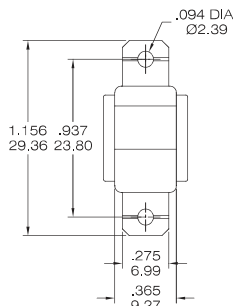
RoHS code
H = RoHS Compliant

SPDT


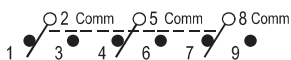
Model No.	Switching position		
R9015	ON	none	ON
R9015A	ON	none	(ON)
R9016	ON	OFF	ON
R9016A	(ON)	OFF	(ON)
R9016B	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1


R9015 - R11-2-BQ
DPDT

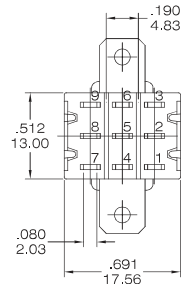
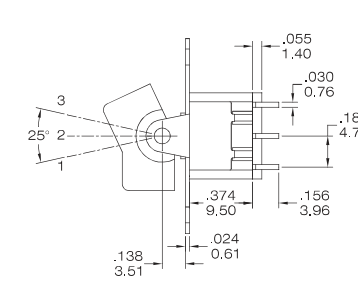
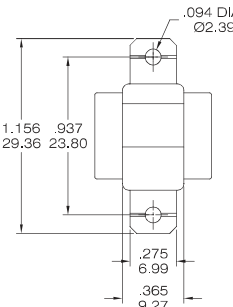
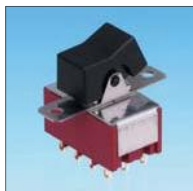

Model No.	Switching position		
R9017	ON	none	ON
R9017A	ON	none	(ON)
R9018	ON	OFF	ON
R9018A	(ON)	OFF	(ON)
R9018B	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R918	ON	ON	ON
R918A	(ON)	ON	(ON)
R918B	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4


R9017 - R11-2-BQ

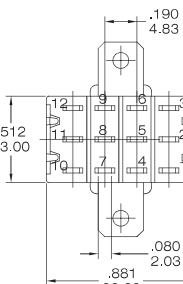
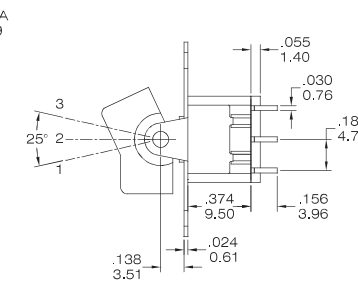
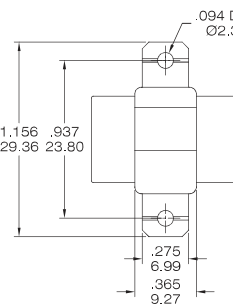
Please see page B14 to know more about R918 (3-way Switches)

3PDT


Model No.	Switching position		
R9301V	ON	none	ON
R9303V	ON	none	(ON)
R9305V	ON	OFF	ON
R9307V	(ON)	OFF	(ON)
R9309V	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9	open	2-1,5-4 8-7

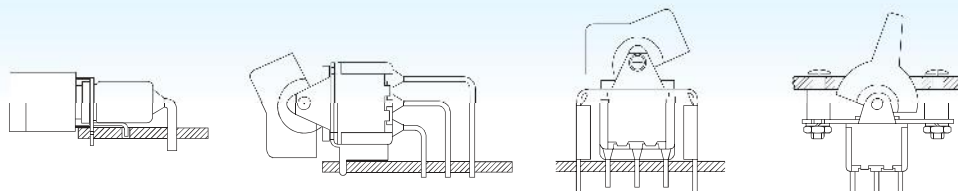

R9301V- R11-2-BQ
4PDT


Model No.	Switching position		
R9401V	ON	none	ON
R9403V	ON	none	(ON)
R9405V	ON	OFF	ON
R9407V	(ON)	OFF	(ON)
R9409V	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	open	2-1,5-4 8-7,11-10
3 way switches (DP3T)			
R945V	ON	ON	ON
R947V	(ON)	ON	(ON)
R949V	ON	ON	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10


R9401V -R11-2-BQ

Please see page B14 to know more about R945V (3-way Switches)

Actuator / Color / Terminal / Contact Material Option please see the page B11 ~ B13



SPECIFICATIONS

CONTACT RATING: 5A @125 VAC or 28 VDC (Q terminal)
ELECTRICAL LIFE: 50,000 make-and-break cycles at full load
CONTACT RESISTANCE: 10 mΩ max. initial @2-4 VDC,100 mA
INSULATION RESISTANCE: 1,000 MΩ min.
DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE - diallyl phthalate (DAP)
 Actuator - ABS ,black standard.
 Frame - Nylon (UL 94V-0) ,black
 BUSHING - Copper alloy or Zinc , nickel plated
 HOUSING - Stainless Steel
 CONTACT AND TERMINAL - Copper alloy, silver plated

How do you build the switches you need!!

The straight terminal type , please see the (A) :

The right angle P.C terminals, please see the (B)

(A)

R	8	0	1	5
---	---	---	---	---

 -

R	1	1
---	---	---

 -

2

 -

C

Q

 -

E

 -

S	2	0
---	---	---

 -

[illegible]

(B)

R	8	0	1	5	P
---	---	---	---	---	---

 -

R	1	1
---	---	---

 -

2

 -

Q

 -

E

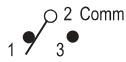
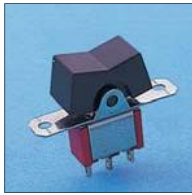
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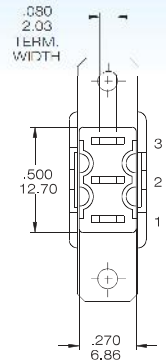
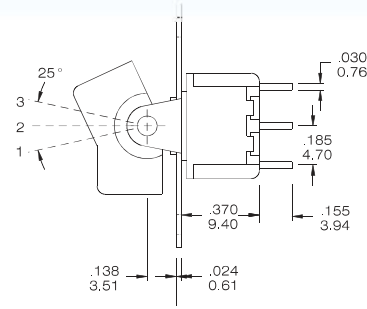
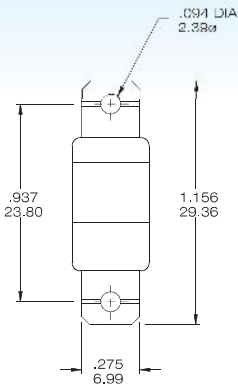
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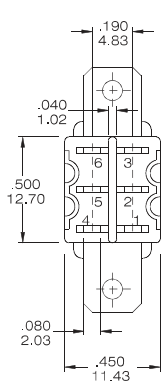
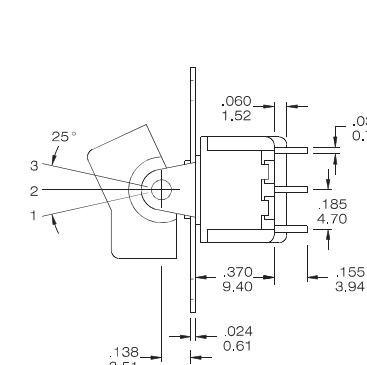
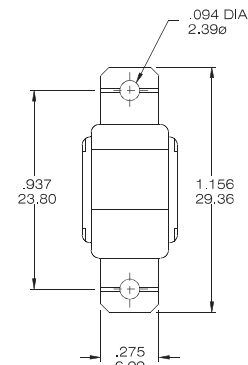
Horizon Right Angle	Vertical Right Angle	Switches Function	Actuator	Actuator Color	Contact Material	RoHS code
R8015P R8015PA R8016P R8016PA R8016PB R8017P R8017PA R8018P R8018PA R8018PB	R8015L / R8013L R8015LA / R8013LA R8016L / R8014L R8016LA / R8014LA R8016LB / R8014LB R8017L / R8011L R8017LA / R8011LA R8018L / R8012L R8018LA / R8012LA R8018LB / R8012LB R8301L R8303L R8305L R8307L R8309L R8401L R8403L R8405L R8407L R8409L	SP on-none-on SP on-none-(on) SP on-off-on SP (on)-off-(on) SP on-off-(on) DP on-none-on DP on-none-(on) DP on-off-on DP (on)-off-(on) DP on-off-(on) 3P on-none-on 3P on-none-(on) 3P on-off-on 3P (on)-off-(on) 3P on-off-(on) 4P on-none-on 4P on-none-(on) 4P on-off-on 4P (on)-off-(on) 4P on-off-(on)	R11 R21 R17 R19 P13 P23	1 white 2 black(std) 3 red 4 orange 5 yellow 6 green 7 blue 9 gray now the available is code "1/2/3/4/7/9"	Q silver plated R gold plated G gold over silver K tin plated Epoxy seal (none) none seal E epoxy seal Support Bracket type (none) std. S snap-in type	H = RoHS Compliant
3 way position switches						
R818P/R818L/ R812L R818PA/R818LA/R812LA R818PB/R818LB/R812LB R845L R847L R849L		SP3T on-on-on SP3T (on)-on-(on) SP3T on-on-(on) DP3T on-on-on DP3T (on)-on-(on) DP3T on-on-(on)				

**T80-R (UL1054)****Miniature Rocker and Paddle Switches (Straight Type)****SPDT**

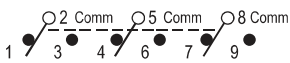
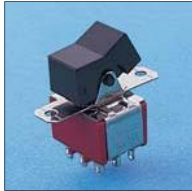
Model No.	Switching position		
R8015	ON	none	ON
R8015A	ON	none	(ON)
R8016	ON	OFF	ON
R8016A	(ON)	OFF	(ON)
R8016B	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

**R8015 - R11-2-BQ****DPDT**

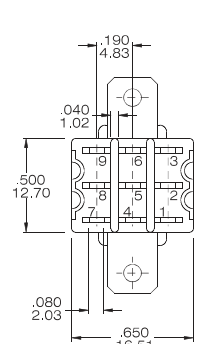
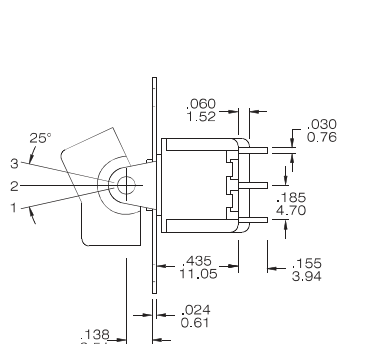
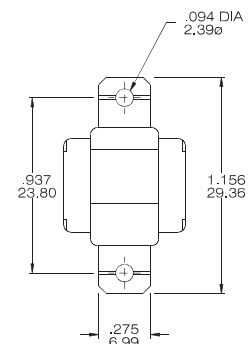
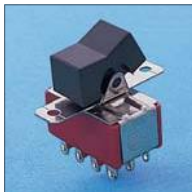
Model No.	Switching position		
R8017	ON	none	ON
R8017A	ON	none	(ON)
R8018	ON	OFF	ON
R8018A	(ON)	OFF	(ON)
R8018B	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R818	ON	ON	ON
R818A	(ON)	ON	(ON)
R818B	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

**R8017 - R11-2-BQ**

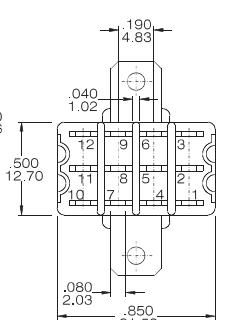
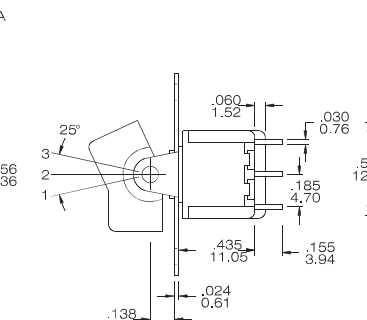
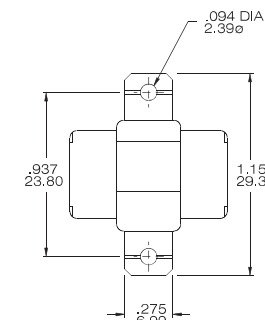
Please see page B14 to know more about R818 (3-way Switches)

3PDT

Model No.	Switching position		
R8301V	ON	none	ON
R8303V	ON	none	(ON)
R8305V	ON	OFF	ON
R8307V	(ON)	OFF	(ON)
R8309V	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9	open	2-1,5-4 8-7

**R8301V- R11-2-BQ****4PDT**

Model No.	Switching position		
R8401V	ON	none	ON
R8403V	ON	none	(ON)
R8405V	ON	OFF	ON
R8407V	(ON)	OFF	(ON)
R8409V	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	open	2-1,5-4 8-7,11-10
3 way switches (DP3T)			
R845V	ON	ON	ON
R847V	(ON)	ON	(ON)
R849V	ON	ON	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10

**R8401V -R11-2-BQ**

Please see page B14 to know more about R845V (3-way Switches)

INDEX

TOGGLE

ROCKER

SLIDE

PUSH BUTTON

DIP

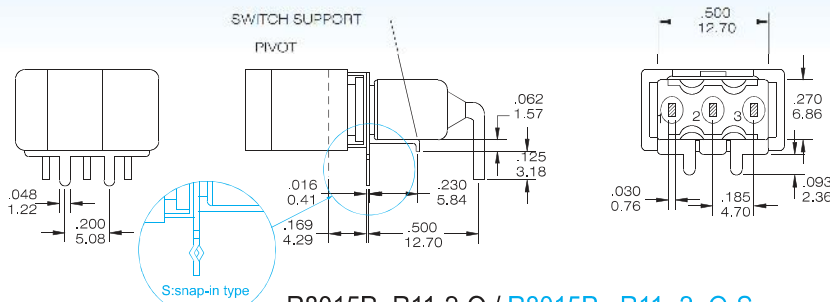
TACT

HORISON RIGHT ANGLE

SPDT

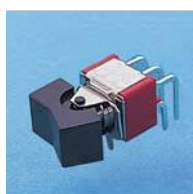


Model No.	Switching position		
R8015P	ON	none	ON
R8015PA	ON	none	(ON)
R8016P	ON	OFF	ON
R8016PA	(ON)	OFF	(ON)
R8016PB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

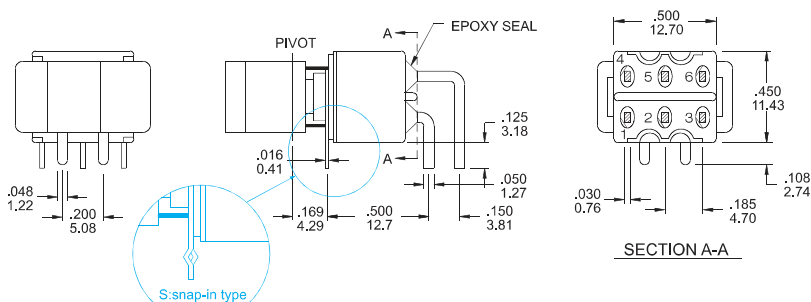


R8015P- R11-2-Q / R8015P - R11 -2 -Q-S

DPDT



Model No.	Switching position		
R8017P	ON	none	ON
R8017PA	ON	none	(ON)
R8018P	ON	OFF	ON
R8018PA	(ON)	OFF	(ON)
R8018PB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R818P	ON	ON	ON
R818PA	(ON)	ON	(ON)
R818PB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



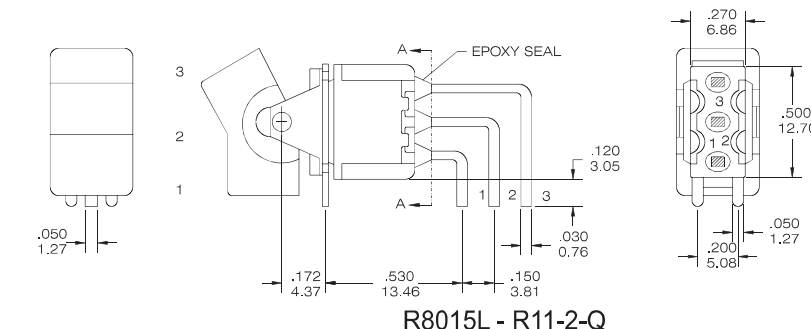
R8017P - R11-2-Q / R8017P - R11-2 -Q-S
Please see page B14 to know more about R818P (3-way Switches)

VERTICAL RIGHT ANGLE

SPDT



Model No.	Switching position		
R8015L	ON	none	ON
R8015LA	ON	none	(ON)
R8016L	ON	OFF	ON
R8016LA	(ON)	OFF	(ON)
R8016LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

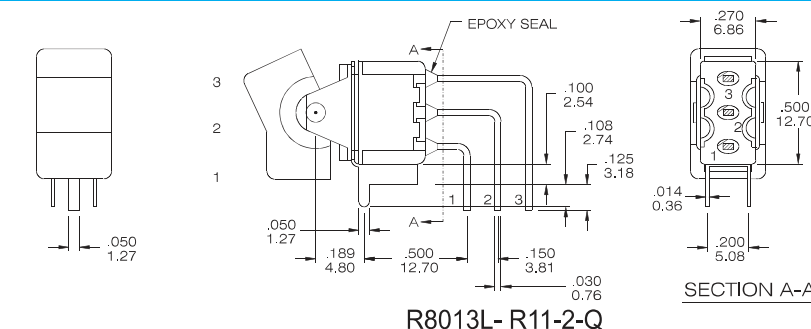


R8015L - R11-2-Q

SPDT



Model No.	Switching position		
R8013L	ON	none	ON
R8013LA	ON	none	(ON)
R8014L	ON	OFF	ON
R8014LA	(ON)	OFF	(ON)
R8014LB	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

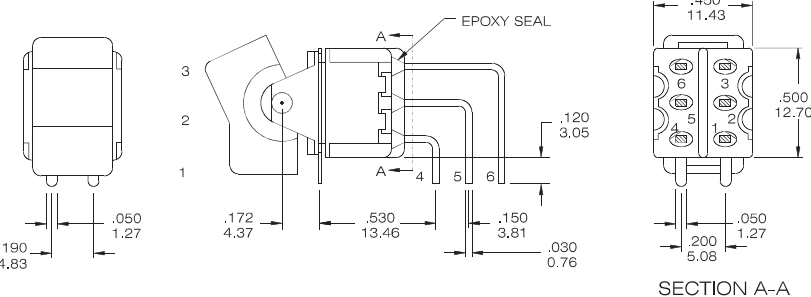


R8013L- R11-2-Q

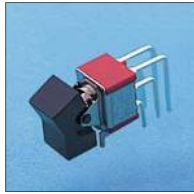
DPDT



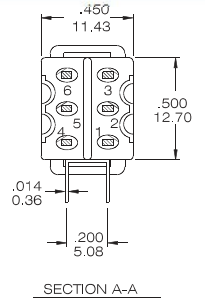
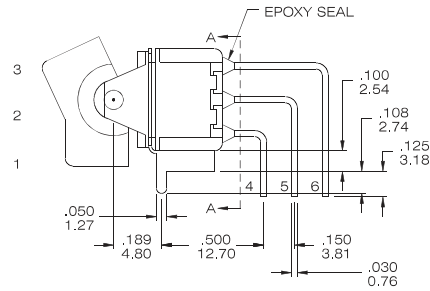
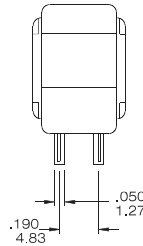
Model No.	Switching position		
R8017L	ON	none	ON
R8017LA	ON	none	(ON)
R8018L	ON	OFF	ON
R8018LA	(ON)	OFF	(ON)
R8018LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R818L	ON	ON	ON
R818LA	(ON)	ON	(ON)
R818LB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4



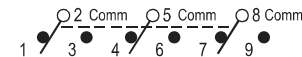
R8017L - R11-2-Q
Please see page B14 to know more about R818L (3-way Switches)

**T80-R (UL1054)****Miniature Rocker and Paddle Switches (Right Angle Type)****VERTICAL RIGHT ANGLE PAGE****DPDT**

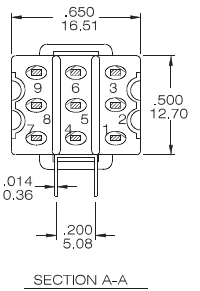
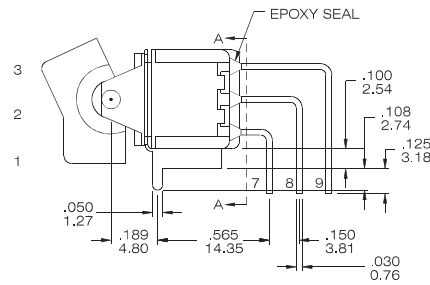
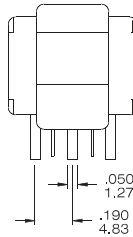
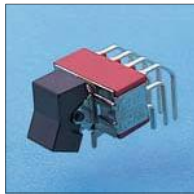
Model No.	Switching position		
R8011L	ON	none	ON
R8011LA	ON	none	(ON)
R8012L	ON	OFF	ON
R8012LA	(ON)	OFF	(ON)
R8012LB	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
R812L	ON	ON	ON
R812LA	(ON)	ON	(ON)
R812LB	ON	ON	(ON)
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

**R8011L - R11-2-Q**

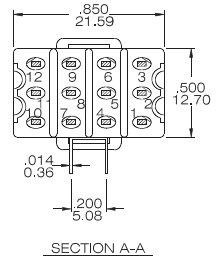
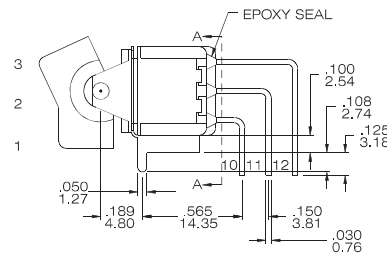
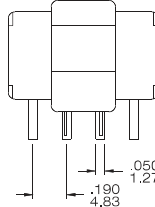
Please see page B14 to know more about R812L (3-way Switches)

3PDT

Model No.	Switching position		
R8301L	ON	none	ON
R8303L	ON	none	(ON)
R8305L	ON	OFF	ON
R8307L	(ON)	OFF	(ON)
R8309L	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9	open	2-1,5-4 8-7

**R8301L- R11-2-Q****4PDT**

Model No.	Switching position		
R8401L	ON	none	ON
R8403L	ON	none	(ON)
R8405L	ON	OFF	ON
R8407L	(ON)	OFF	(ON)
R8409L	ON	OFF	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	open	2-1,5-4 8-7,11-10
3 way switches (DP3T)			
R845L	ON	ON	ON
R847L	(ON)	ON	(ON)
R849L	ON	ON	(ON)
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10

**R8401L - R11-2-Q**

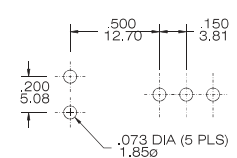
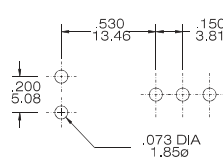
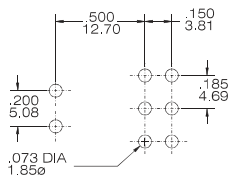
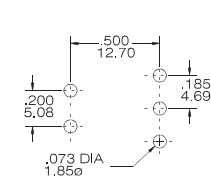
Please see page B14 to know more about R845L(3-way Switches)

FOR R8015P-R8016P

FOR R8017P-R8018P

FOR R8015L-R8016L

FOR R8013L-R8014L

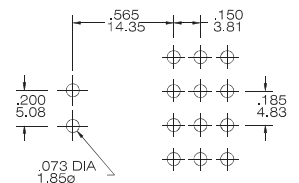
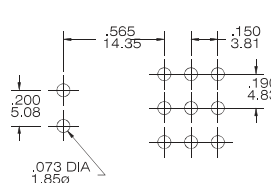
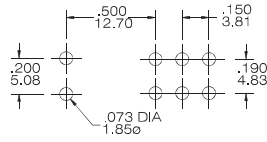
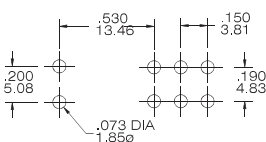


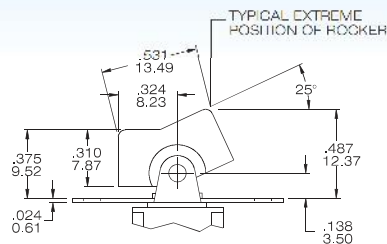
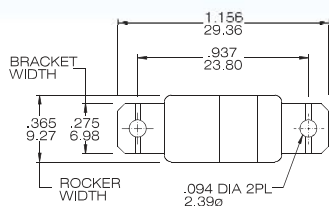
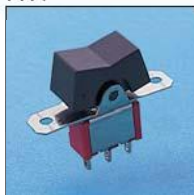
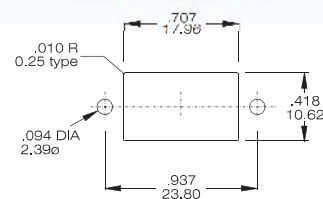
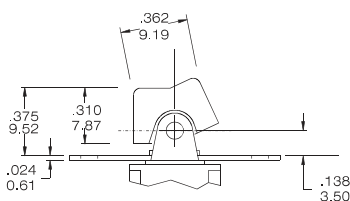
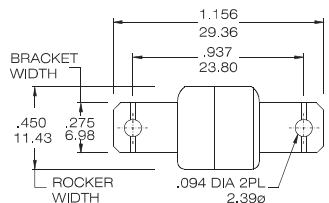
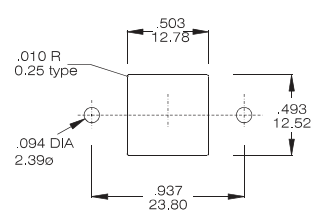
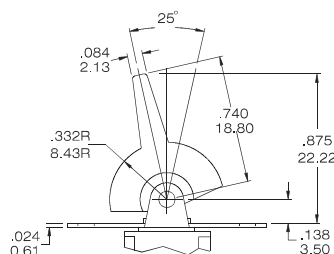
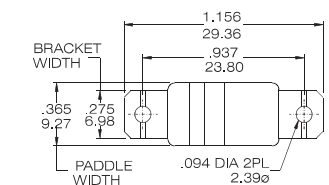
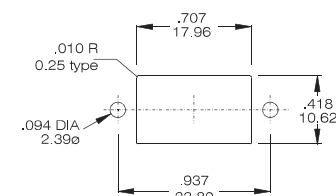
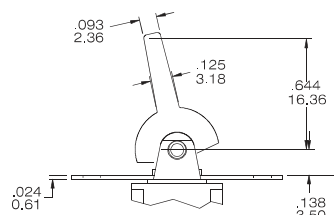
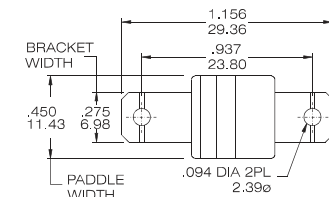
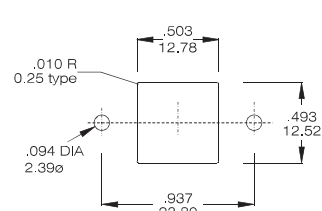
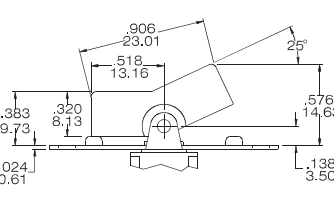
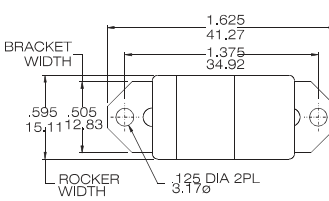
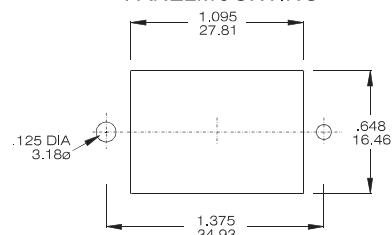
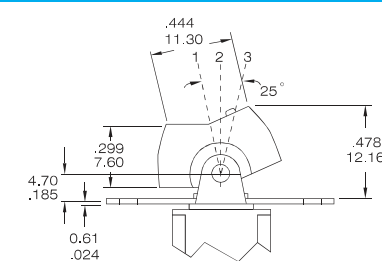
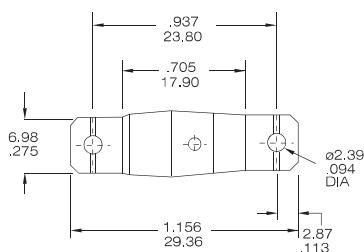
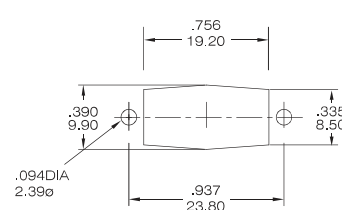
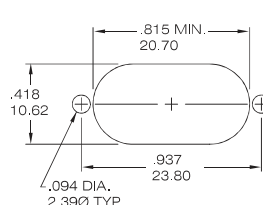
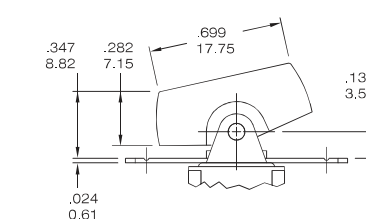
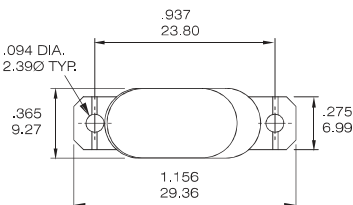
FOR R8017L-R8018L

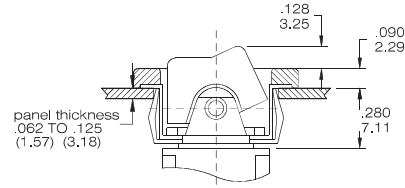
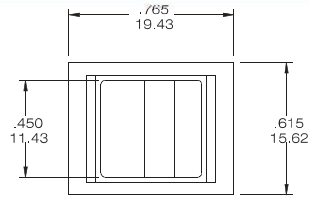
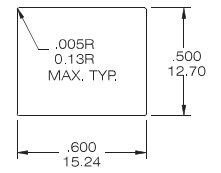
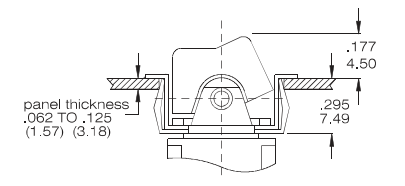
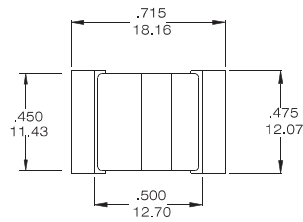
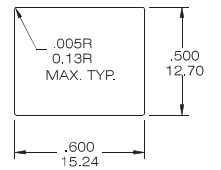
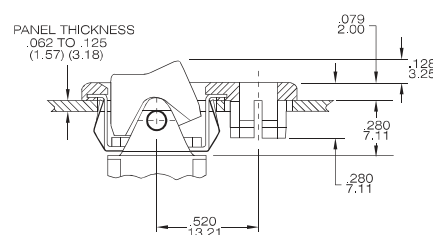
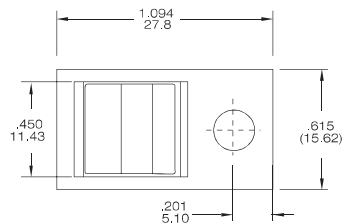
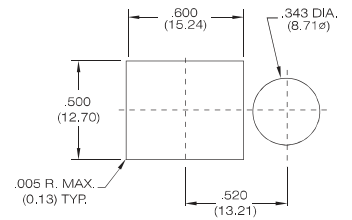
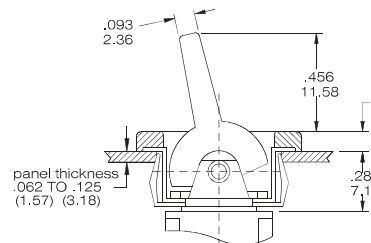
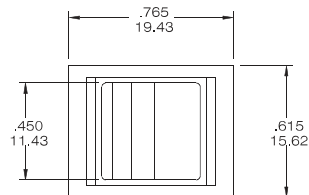
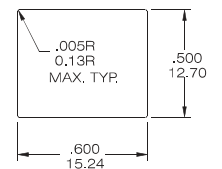
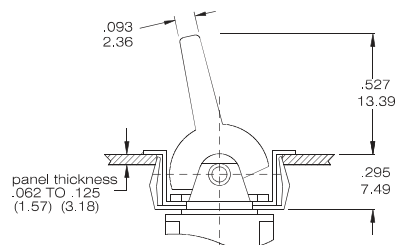
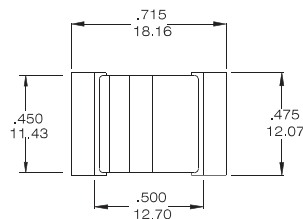
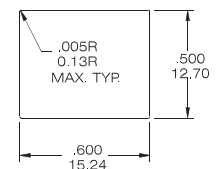
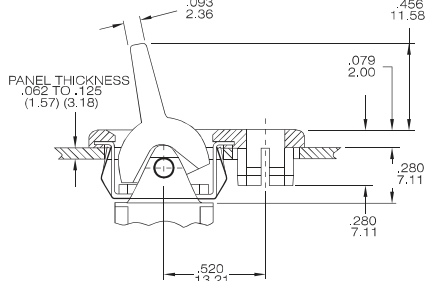
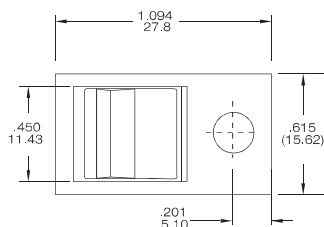
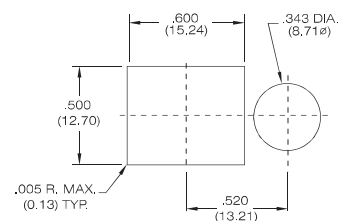
FOR R8011L-R8012L

FOR R8301L-R8309L

FOR R8401L-R8409L

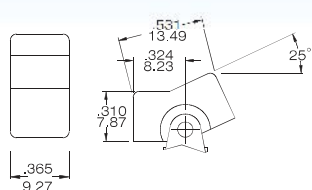
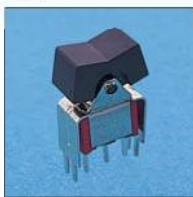


**T80-R****Miniature Rocker and Paddle Switches****Actuator Option(PANEL REAR MOUNT) only for the straight type (Page B08)****R11****PANELMOUNTING****R21****PANELMOUNTING****P13****PANELMOUNTING****P23****PANELMOUNTING****R15****PANELMOUNTING****R17****PANELMOUNTING****R19**

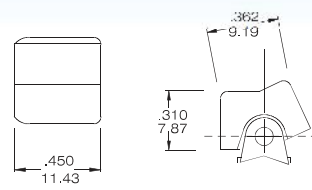
**T80-R****Miniature Rocker and Paddle Switches****Actuator Option(SNAP-IN FRONT MOUNT) only for the straight type (Page B08)****R12****PANEL MOUNTING****R22****PANEL MOUNTING****R32****PANEL MOUNTING****P14****PANEL MOUNTING****P24****PANEL MOUNTING****P34****PANEL MOUNTING**

Actuator Option (P.C.B MOUNT)

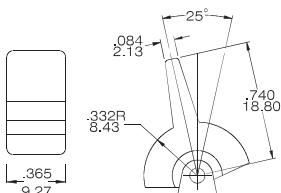
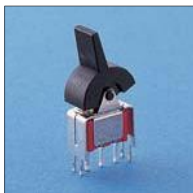
R11



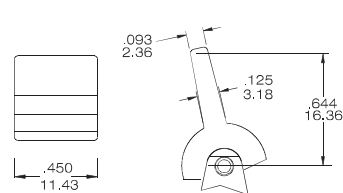
R21



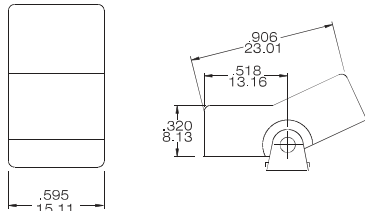
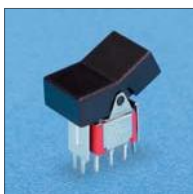
P13



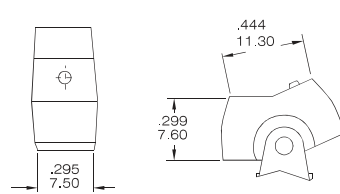
P23



R15



R17



Actuator Color Option

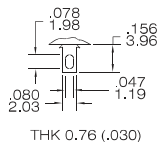
ACTUATOR AND FRAME COLORS

1	White	4	Orange	7	Blue
2	Black(Std.)	5	Yellow	9	Gray
3	Red	6	Green		

TERMINAL OPTION (ONLY FOR THE STRAIGHT TYPE R8015~R8401)

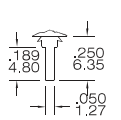
TERMINAL SEAL OPTION

B SOLDER LUG



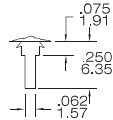
THK 0.76 (.030)

C PRINTED CIRCUIT



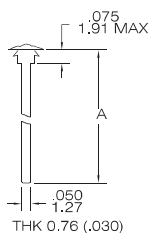
THK 0.76 (.030)

D QUICK CONNECT



THK 0.76 (.030)

WIREWRAP



THK 0.76 (.030)

CODE	"A" dimension
D1	.750 (19.05)
D3	.425 (10.8)

E TERMINAL SEAL



EPOXY SEAL

CONTACT MATERIAL OPTIONS

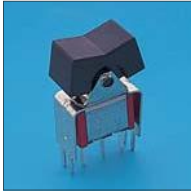
CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	5 A @ 125 V AC or 28 V DC; 3 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 5 A @ 125V AC or 28 V DC; 3 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

* THE K option is only for some special item. Please inquire first when you need the "K" option

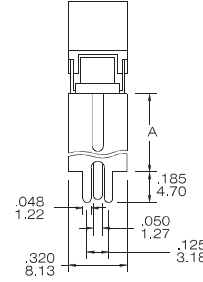
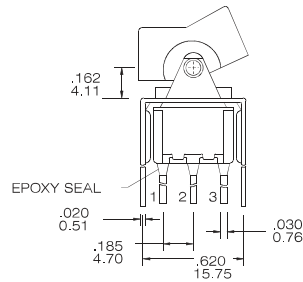
VERTICAL SUPPORT BRACKET OPTION

(only apply the straight type terminal -page B08. Please build the terminal option is "c" code)

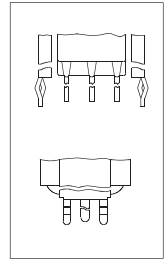
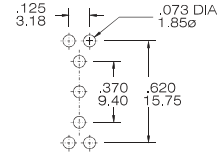
S20 / S25/ V20/V25



SPDT



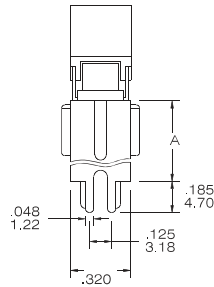
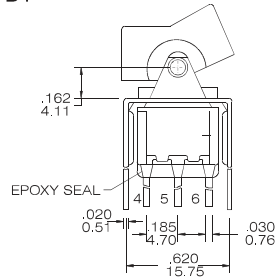
P.C. MOUNTING



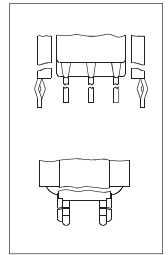
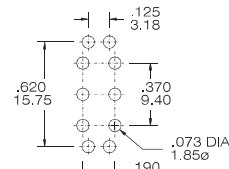
SNAP-IN
V20/ V25

R8015-R11-2-CQ-S20(S25)

DPDT



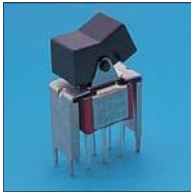
P.C. MOUNTING



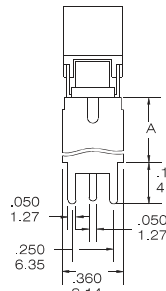
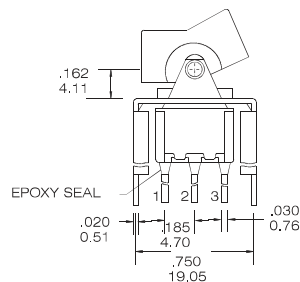
SNAP-IN
V20/ V25

R8017 - R11-2-CQ-S20(S25)

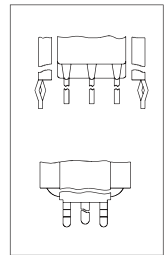
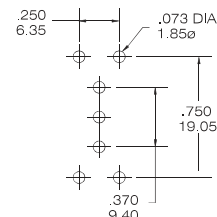
S35/S40 /V35/V40



SPDT



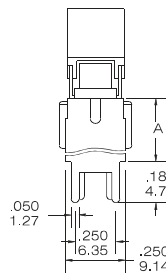
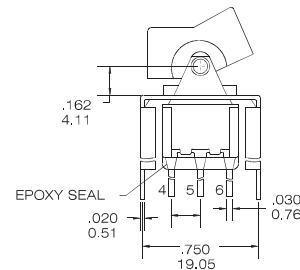
P.C. MOUNTING



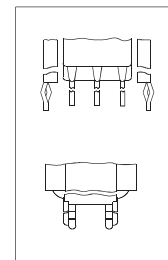
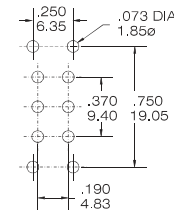
SNAP-IN
V35/ V40

R8015-R11-2-CQ-S35(S40)

DPDT



P.C. MOUNTING



SNAP-IN
V35/ V40

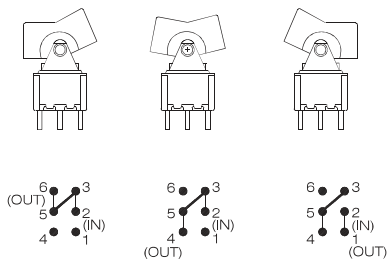
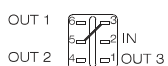
R8017-R11-2-CQ-S35(S40)

option Code	A dimension
S20/V20	.460 11.68
S25/V25	.630 16.00
V20/V25 : the snap-in type	

The information of 3-way rocker switches

POS.3
POS.2
POS.1

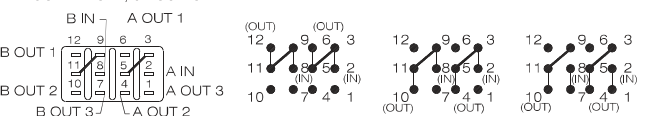
SINGLE POLE, 3 POSITION



SP3T

POS.3
POS.2
POS.1

DOUBLE POLE, 3 POSITION



DP3T

FEATURES

1. Sealed construction - internal actuator o-ring and epoxy terminal seal standard
2. IP67 protection Degree
3. Surface mounting (SMT)



SPECIFICATIONS

CONTACT RATING: R- 0.4 VA max @ 20 V AC or DC
 ELECTRICAL LIFE: 30,000 make-and-break cycles at full load
 CONTACT RESISTANCE: 20 mΩ max. initial @ 2-4 VDC, 100 mA
 INSULATION RESISTANCE: 1,000 MΩ min.
 DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.
 DEGREE OF PROTECTION : IP67
 OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE and BUSHING - glass filled nylon PA6T G30 , flame retardant heat stabilized (UL94V-0)
 Actuator - Nylon, black standard. Internal o-ring seal standard with all actuator.
 CONTACT AND TERMINAL - Copper alloy , silver or gold plated
 SWITCH SUPPORT - Copper alloy , tin-plated
 TERMINAL SEAL - Epoxy

How do you build the switches you need!!

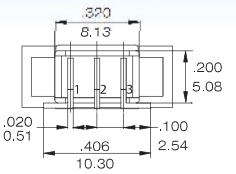
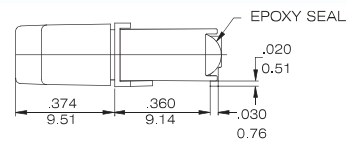
E R - 3 - A 2 - 2 - N R -

Switches Function		Actuator		Actuator Color		Contact Material		Package	
ER-3	SP on-none-on	A1	Std. 7.62	1	white	Q	silver plated	(none)	polly bag
ER-3B	SP on-none-(on)	A2	Std. 5.84	2	(std.) black	R	gold plated	T/R	tape & reel
ER-3A	SP on-off-on			3	Red	G	gold over silver		
ER-3H	SP (on)-off-(on)					K	gold / tin		
ER-3I	SP on-off-(on)								
				Marking				RoHS code	
				(none) No marking				H = RoHS Compliant	
				1 					
				2 					
				Terminal					
				(none) std					
				N backward					
				M backward					



1 2 Comm 3

Model No.	Switching position		
	ON	none	ON
ER-3	ON	none	ON
ER-3A	ON	OFF	ON
ER-3B	ON	None	(ON)
ER-3H	(ON)	OFF	(ON)
ER-3I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1



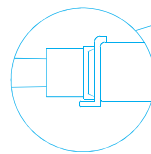
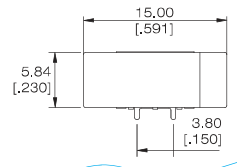
ER-3-A2-2-R

The M&N terminal type

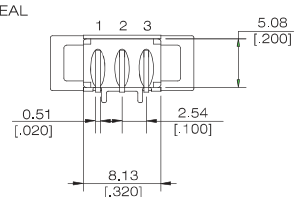
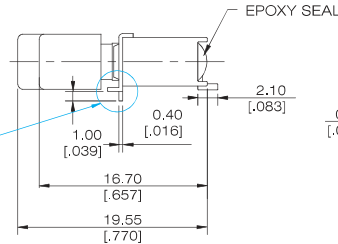


1 2 Comm 3

Model No.	Switching position		
	ON	none	ON
ER-3	ON	none	ON
ER-3A	ON	OFF	ON
ER-3B	ON	None	(ON)
ER-3H	(ON)	OFF	(ON)
ER-3I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

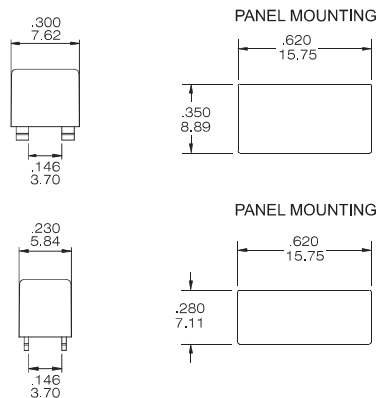
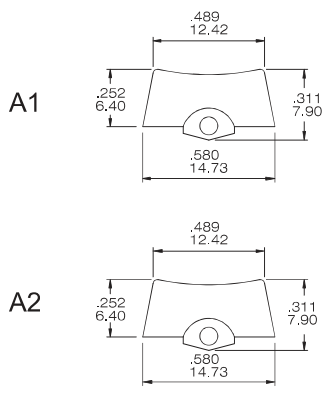


without positioning pins
ER-3-A2-2-NR



ER-3-A2-2-MR

Actuator Option

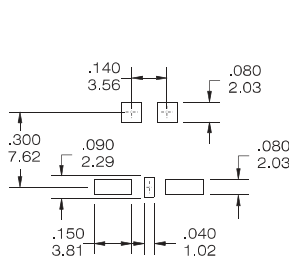


Actuator Color Option

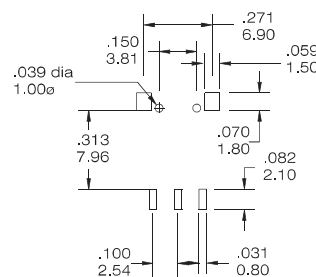
Code	Color
1	white
2	Black(std.)
3	Red

Other colors. custom actuator marking available consult factory.

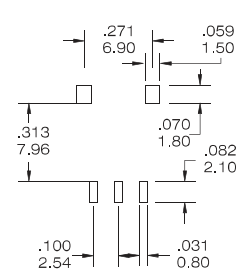
THE P.C.B MOUNTING



ER-3-A *



ER-3-A * -M



ER-3-A * -N

CONTACT MATERIAL OPTIONS

CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	3 A @ 120V AC or 28 V DC; 1.5 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 3 A @ 120V AC or 28 V DC; 1.5 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

FEATURES

1. Sealed construction - internal actuator o-ring and epoxy terminal seal standard
2. IP67 protection Degree

UL[®]
61058

15

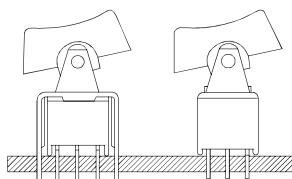
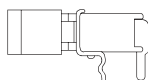
PATENT

SPECIFICATIONS

CONTACT RATING: R- 0.4 VA max @ 20 V AC or DC
ELECTRICAL LIFE: 30,000 make-and-break cycles at full load
CONTACT RESISTANCE: 20 mΩ max. initial @ 2-4 VDC, 100 mA
INSULATION RESISTANCE: 1,000 MΩ min.
DIELECTRIC STRENGTH: 1,500 V RMS @ sea level.
DEGREE OF PROTECTION : IP67
OPERATING TEMPERATURE: -30°C to +85°C

MATERIALS

CASE and BUSHING - glass filled nylon 6/6 , flame retardant heat stabilized (UL94V-0)
Actuator - Nylon, black standard. Internal o-ring seal standard with all actuator.
CONTACT AND TERMINAL - Copper alloy , gold plated
SWITCH SUPPORT - Copper alloy , tin-plated
TERMINAL SEAL - Epoxy



How do you build the switches you need!!

The ER-4 / ER-5 , please see the (A) ;

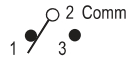
The ER-6/ER-7/ER-8/ER-9, please see the (B)

(A) E R - 4 - R 2 - 2 - C R - A 5 S -

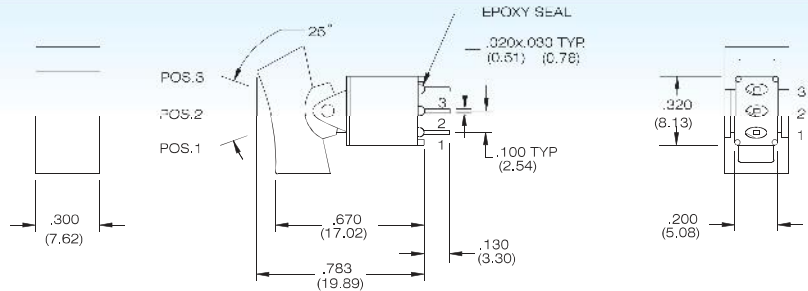
Switches Function		Actuator		Actuator Color		Contact Material		RoHS code
ER-4	SP on-none-on	R1	Std. 7.62	1	white	Q	silver plated	H = RoHS Compliant
ER-4B	SP on-none-(on)	R2	Std. 5.84	2	(std.) black	R	gold plated	
ER-4A	SP on-off-on	A1	7.62	3	Red	G	gold over silver	
ER-4H	SP (on)-off-(on)	A2	5.84			K	gold / tin	
ER-4I	SP on-off-(on)							
ER-5	DP on-none-on			Marking		Vertical support Bracket		
ER-5B	DP on-none-(on)			(none)	No marking	(none)	(std.) snap-in type	
ER-5A	DP on-off-on			1		A5S	straight type	
ER-5H	DP (on)-off-(on)			2		A5		
ER-5I	DP on-off-(on)			Termination				
ER-5C	DP on-on-on			C	(std) P.C			

(B) E R - 6 - R 2 - 2 - R - S -

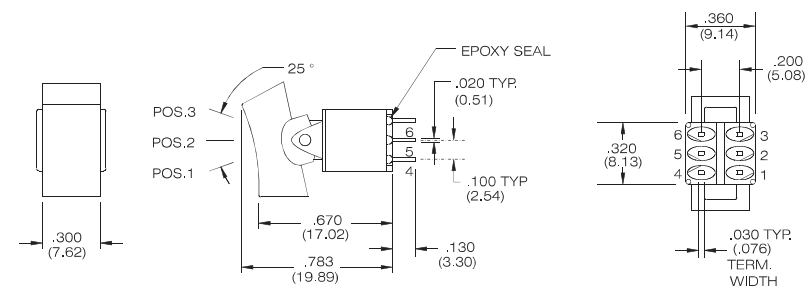
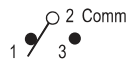
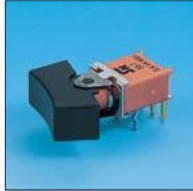
Horizon Right Angle	Vertical Right Angle	Switches Function	Actuator		Actuator Color		Support Bracket	
ER-6	ER-8	SP on-none-on	R1	Std. 7.62	1	white	S	(std.) snap-in type
ER-6B	ER-8B	SP on-none-(on)	R2	Std. 5.84	2	(std.) black	(none)	straight type
ER-6A	ER-8A	SP on-off-on	A1	7.62	3	Red	RoHS code	
ER-6H	ER-8H	SP (on)-off-(on)	A2	5.84			H = RoHS Compliant	
ER-6I	ER-8I	SP on-off-(on)			Marking			
ER-7	ER-9	DP on-none-on			(none)	No marking		
ER-7B	ER-9B	DP on-none-(on)			1			
ER-7A	ER-9A	DP on-off-on			2			
ER-7H	ER-9H	DP (on)-off-(on)			Contact Material			
ER-7I	ER-9I	DP on-off-(on)			Q	silver plated		
ER-7C	ER-9C	DP on-on-on			R	gold plated		
					G	gold over silver		
					K	gold / tin		

**ES40-R****Sealed Sub-Miniature Rocker Switches****SPDT**

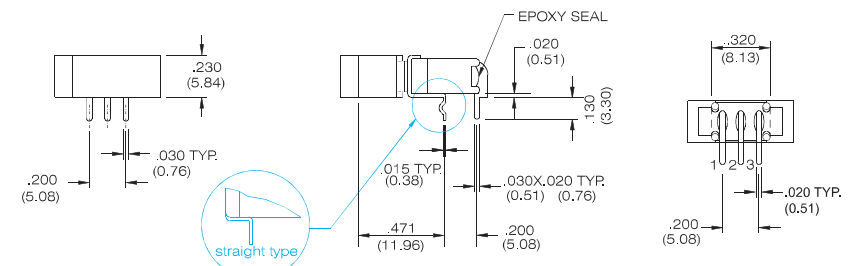
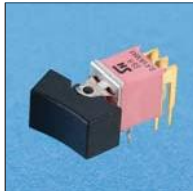
Model No.	Switching position		
ER-4	ON	none	ON
ER-4A	ON	OFF	ON
ER-4B	ON	None	(ON)
ER-4H	(ON)	OFF	(ON)
ER-4I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

**ER-4 - R1-2-CR****DPDT**

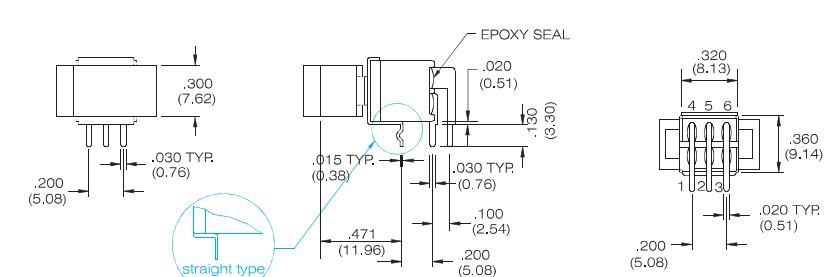
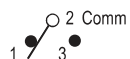
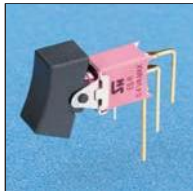
Model No.	Switching position		
ER-5	ON	none	ON
ER-5A	ON	OFF	ON
ER-5B	ON	None	(ON)
ER-5H	(ON)	OFF	(ON)
ER-5I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
ER-5C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

**ER-5 - R1-2-CR****SPDT**

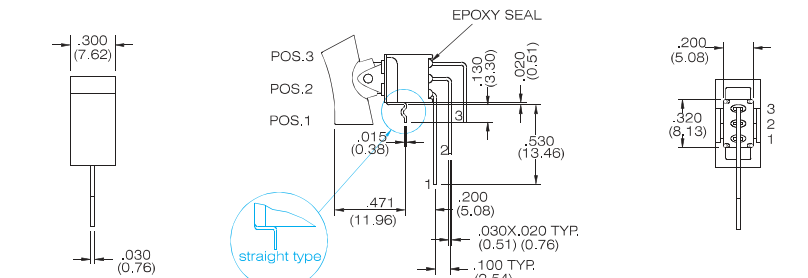
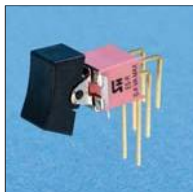
Model No.	Switching position		
ER-6	ON	none	ON
ER-6A	ON	OFF	ON
ER-6B	ON	None	(ON)
ER-6H	(ON)	OFF	(ON)
ER-6I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

**ER-6 - R2-2-R-S / ER-6-R2-2-R****DPDT**

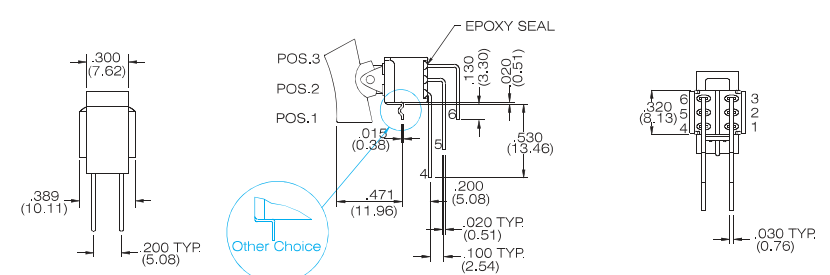
Model No.	Switching position		
ER-7	ON	none	ON
ER-7A	ON	OFF	ON
ER-7B	ON	None	(ON)
ER-7H	(ON)	OFF	(ON)
ER-7I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
ER-7C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

**ER-7 - R1-2-R-S / ER-7-R1-2-R****SPDT**

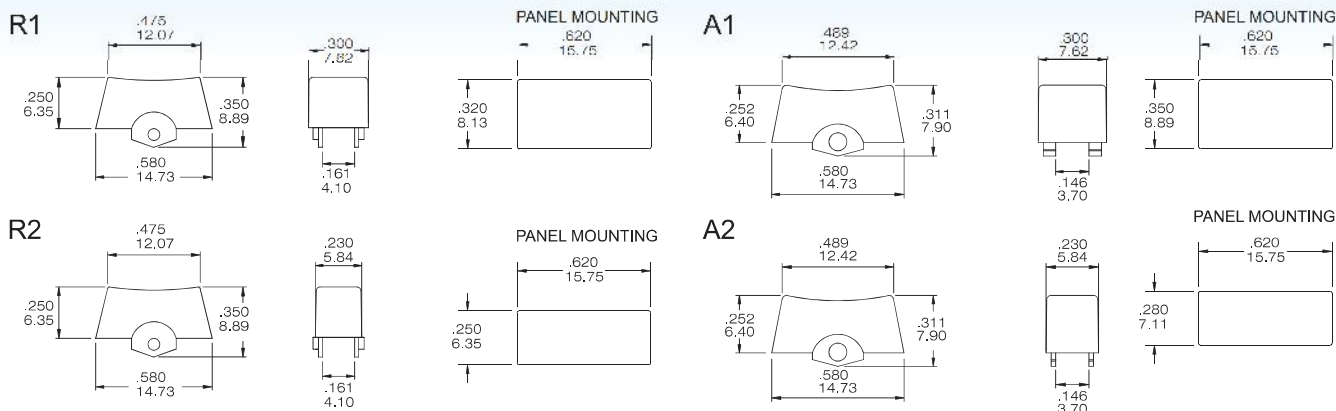
Model No.	Switching position		
ER-8	ON	none	ON
ER-8A	ON	OFF	ON
ER-8B	ON	None	(ON)
ER-8H	(ON)	OFF	(ON)
ER-8I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

**ER-8 - R1-2-R-S / ER-8-R1-2-R****DPDT**

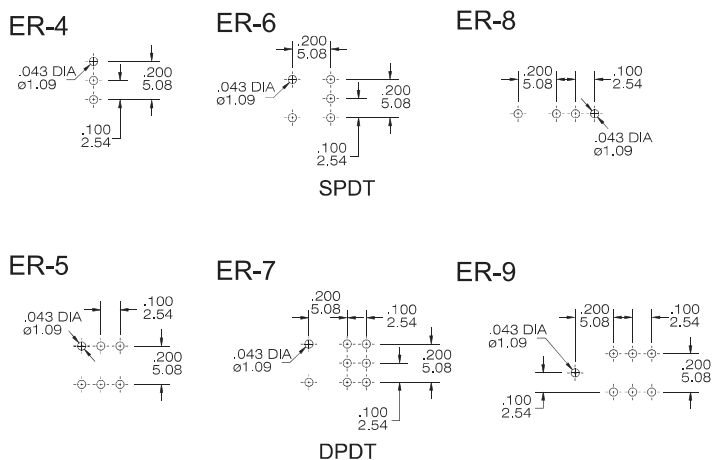
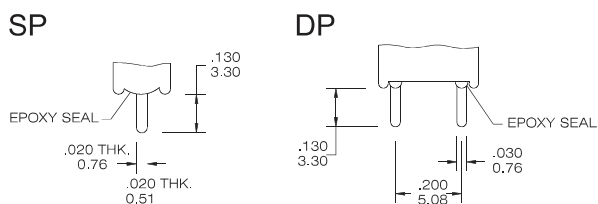
Model No.	Switching position		
ER-9	ON	none	ON
ER-9A	ON	OFF	ON
ER-9B	ON	None	(ON)
ER-9H	(ON)	OFF	(ON)
ER-9I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
ER-9C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

**ER-9 - R1-2-R-S / ER-9-R1-2-R**

The dimensions in the catalogue and website are for reference only, not suitable for formal acknowledgment.

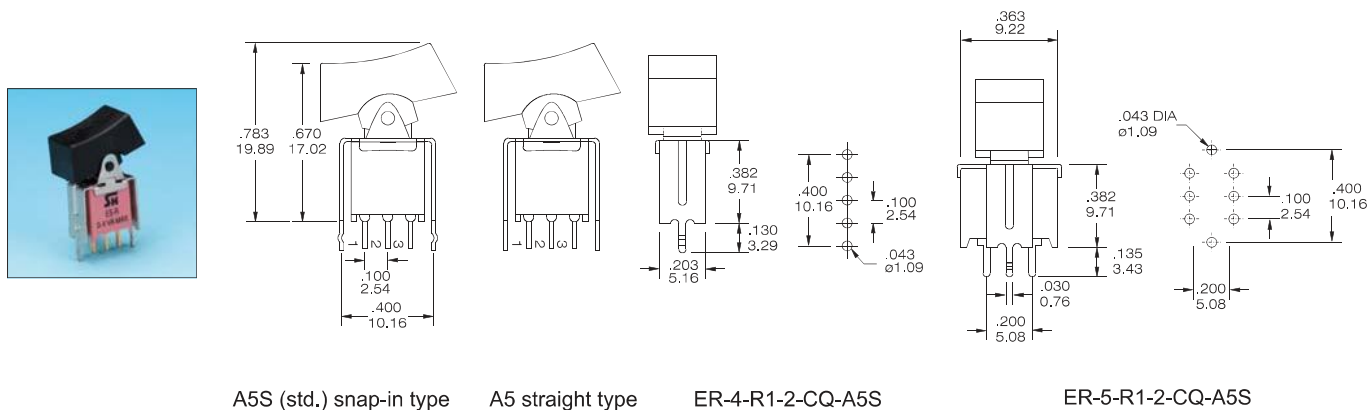
**ES40-R****Sealed Rocker Switches****Actuator Option****Actuator Color Option**

Code	Color
1	white
2	Black(std.)
3	Red

THE P.C.B MOUNTING**TERMINAL OPTION (ER-4 / ER-5)****CONTACT MATERIAL OPTIONS**

CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	3 A @ 120V AC or 28 V DC; 1.5 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plate over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 3 A @ 120V AC or 28 V DC; 1.5 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

* THE K option is only for some special item. Please inquire first when you need the "K" option

VERTICAL SUPPORT BRACKET OPTION



TS40-R

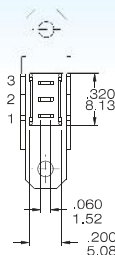
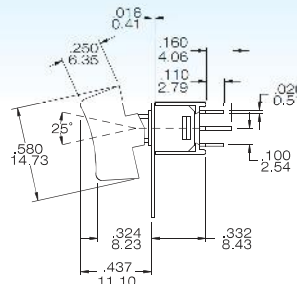
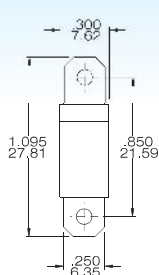
Sub-Miniature Rocker Switches



SPDT



Model No.	Switching position		
RS-4	ON	none	ON
RS-4A	ON	OFF	ON
RS-4B	ON	None	(ON)
RS-4H	(ON)	OFF	(ON)
RS-4I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

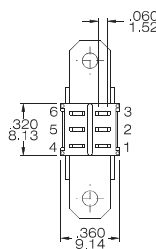
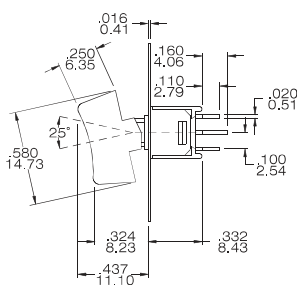
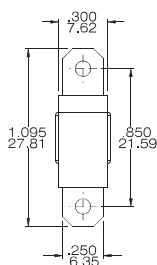


RS-4 - R1-2-BQ

DPDT

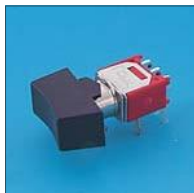


Model No.	Switching position		
RS-5	ON	none	ON
RS-5A	ON	OFF	ON
RS-5B	ON	None	(ON)
RS-5H	(ON)	OFF	(ON)
RS-5I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
RS-5C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

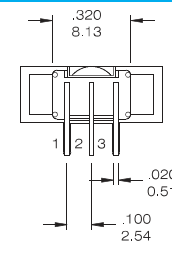
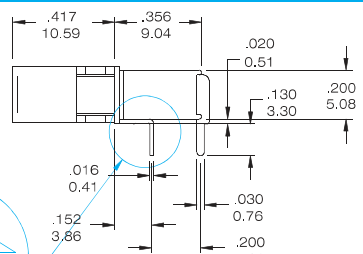
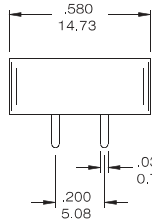


RS-5- R1-2-BQ

SPDT



Model No.	Switching position		
RS-6	ON	none	ON
RS-6A	ON	OFF	ON
RS-6B	ON	None	(ON)
RS-6H	(ON)	OFF	(ON)
RS-6I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

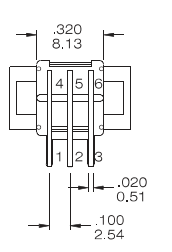
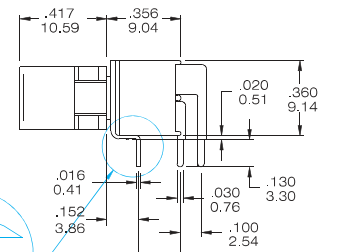
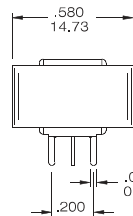


RS-6 - R2-2-Q / RS-6-R2-2-Q-S

DPDT



Model No.	Switching position		
RS-7	ON	none	ON
RS-7A	ON	OFF	ON
RS-7B	ON	None	(ON)
RS-7H	(ON)	OFF	(ON)
RS-7I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
RS-7C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

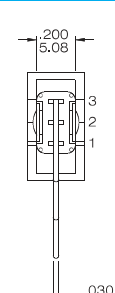
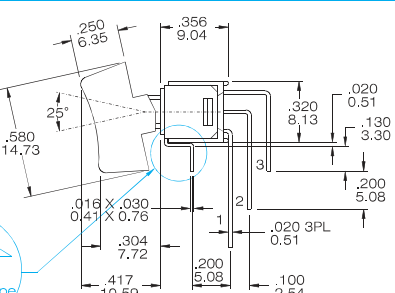
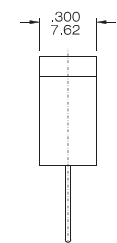


RS-7- R1-2-Q / RS-7-R1-2-Q-S

SPDT



Model No.	Switching position		
RS-8	ON	none	ON
RS-8A	ON	OFF	ON
RS-8B	ON	None	(ON)
RS-8H	(ON)	OFF	(ON)
RS-8I	ON	OFF	(ON)
Term. Comm.	2-3	open	2-1

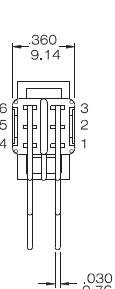
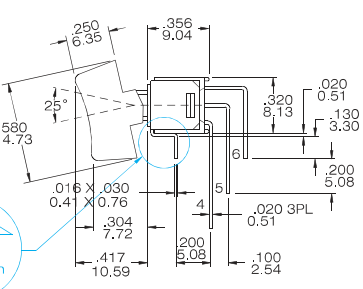
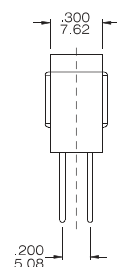


RS-8 - R1-2-Q / RS-8-R1-2-Q-S

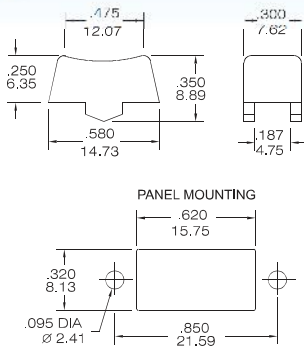
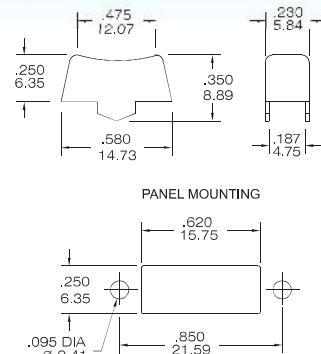
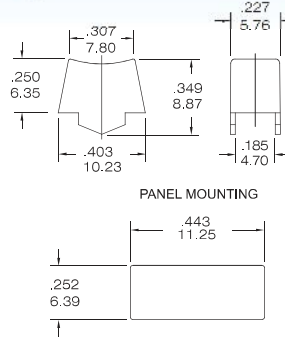
DPDT



Model No.	Switching position		
RS-9	ON	none	ON
RS-9A	ON	OFF	ON
RS-9B	ON	None	(ON)
RS-9H	(ON)	OFF	(ON)
RS-9I	ON	OFF	(ON)
Term. Comm.	2-3,5-6	open	2-1,5-4
3 way switches (SP3T)			
RS-9C	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

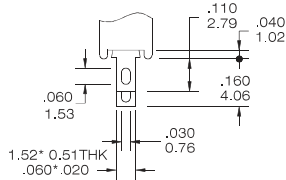
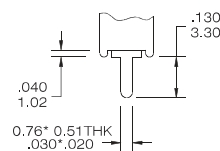
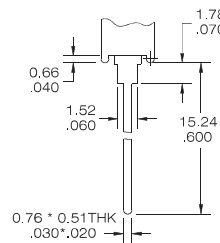
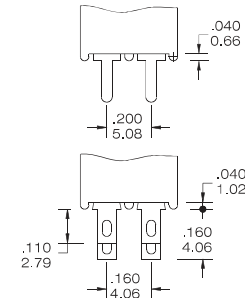


RS-9- R1-2-Q / RS-9-R1-2-Q-S

**TS40-R****Sub- Miniature Rocker Switches****Actuator Option****Actuator Color Option****R1****R2****R3**

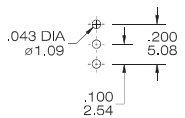
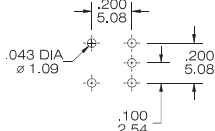
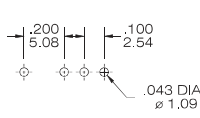
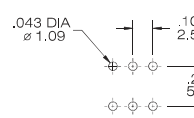
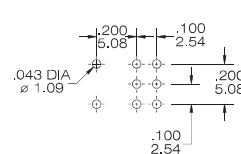
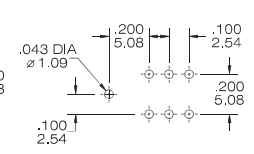
Code	Color
1	White
2	Black(std.)
3	Red

Other colors, customized actuator marking available consult factory.

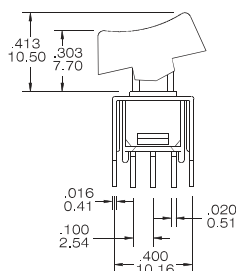
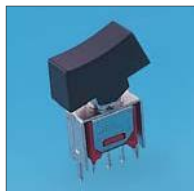
TERMINAL OPTION (ONLY FOR THE RS-4/RS-5)**B Solder Lug(STD)****C PRINTED CIRCUIT****D Wire Wrap****DPDT****CONTACT MATERIAL OPTIONS**

CODE	CONTACT MATERIAL	TERMINAL MATERIAL	RATING
Q	Silver plated	Silver plated	3 A @ 125V AC or 28 V DC; 1.5 A @ 250 VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4VA MAX @ 20 V AC or DC MAX
G	Gold plated over silver plated	Gold plated over silver plated	0.4 VA MAX @ 20 V AC or DC MAX or 3 A @ 125V AC or 28 V DC; 1.5 A @ 250 VAC
K	Gold plated over nickel plated	Tin over nickel plated	0.4VA MAX @ 20 V AC or DC MAX

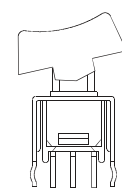
* THE K option is only for some special item. Please inquire first when you need the "K" option

P.C.B MOUNTING DIMENSION**RS-4 (PC terminal)****RS-6****RS-8****RS-5 (PC terminal)****RS-7****RS-9****VERTICAL SUPPORT BRACKET OPTION**

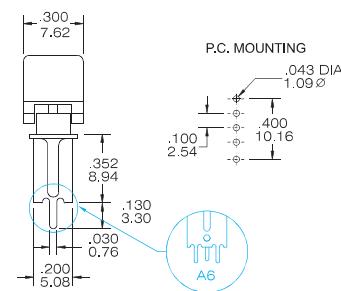
only for the RS-4/RS-5 . If you need the vertical support bracket , please build the terminal option is "C" code

A5/ A5S

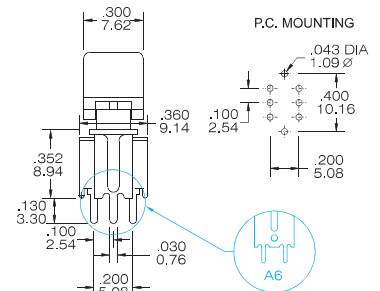
A5 (STD.)
A6



A5S (Snap-in)
A6S (Snap-in)

**A6**

RS-4-R1-2-CQ-A5 / RS-4-R1-2-CQ-A6

**P.C. MOUNTING****A6**

RS-5-R1-2-CQ-A5 / RS-5-R1-2-CQ-A6



SPECIFICATIONS

CONTACT RATING: 3A @125 VAC or 250 VAC
6A @250 VAC

ELECTRICAL LIFE: 10,000 cycles

CONTACT RESISTANCE: 30 mΩ max. initial

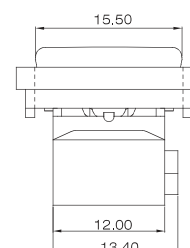
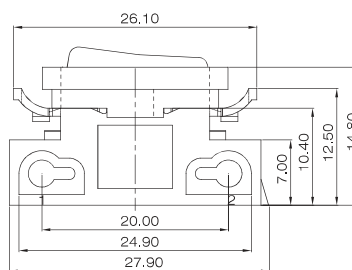
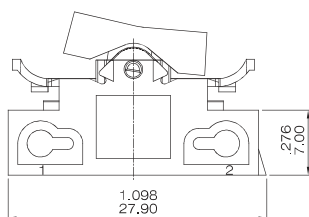
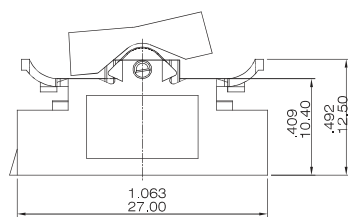
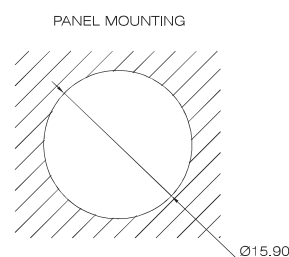
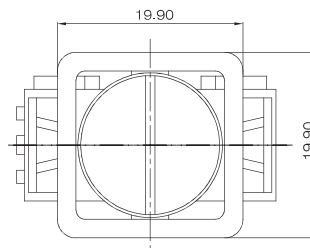
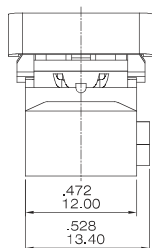
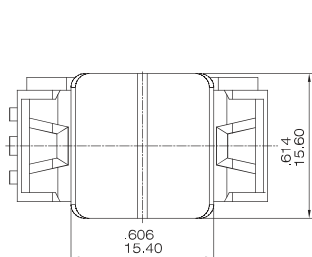
INSULATION RESISTANCE: 100 MΩ min. 500VDC

DIELECTRIC STRENGTH: 1,500 VAC / 1 min.

OPERATING TEMPERATURE: -20°C to +85°C



DIMENSIONS



R6010-R50-1-06

R6010-R51-1-S50-1-06

HOW TO ORDER

R6010 - R50 - 2 ☐ - S50 - 2 - 06 - ☐ - H

Switch Function:
R6010: SPST

Actuator:
50 = Squareness
51= Roundness
52= Long strip
53= Toggle form
54= Ø20 Roundness

Actuator Color:
1= White
2= Black
3= Red

Actuator Marking:
1= ○ I
2= ○ -

RoHS compliant

Degrees of temperature:
☐ =T85
T = T125
H =T150
G = T200

Ratings:
06=6A 250VAC

Frame Color:
1= White
2= Black
3= Red

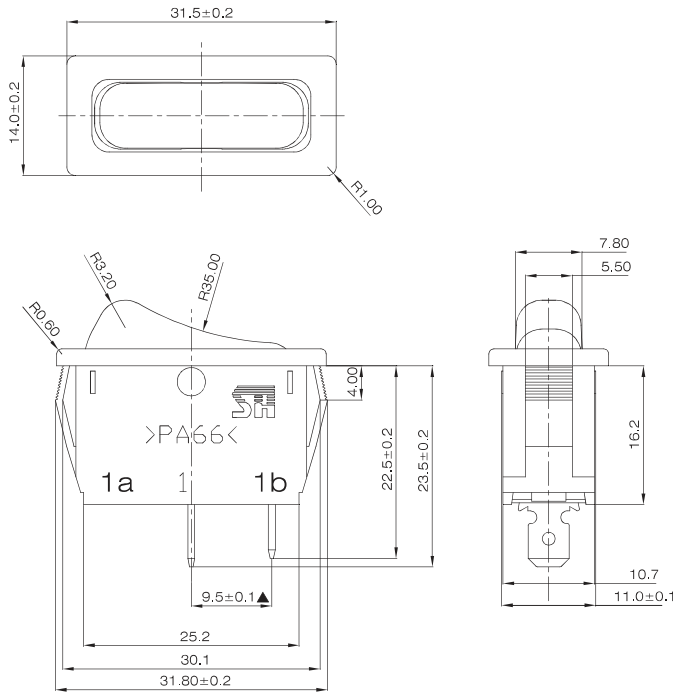
Frame:
(none)
S50



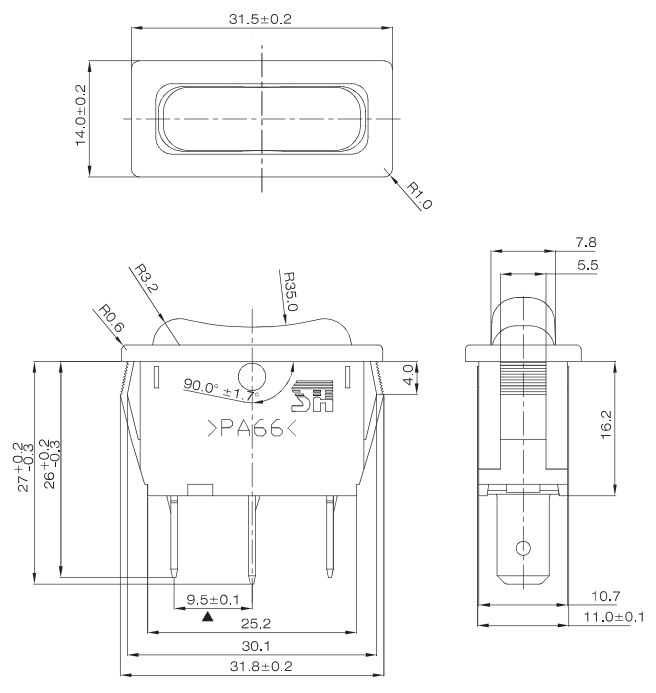
SPECIFICATIONS

CONTACT RATING: 4.5A 28VDC
ELECTRIC LIFE: 10,000 cycles
CONTACT RESISTANCE: 30 mΩ max. (initial)
INSULATION RESISTANCE: 100 MΩ min. 500VDC
DIELECTRIC STRENGTH: 1,000VAC/ 1 min.
OPERATING TEMPERATURE: 0°C to +55°C

Dimensions



R7015-2-D1Q-P45-2P



R7016-2-DQ-P45

How To Order

R7015 - 2 - - D Q - P45 - - H

Switch Function
R7015 = On-Non-On
R7015A = On-Non-MOM
R7016 = On-Off-On
R7016A = MOM-Off-MOM
R7016B = On-Off-MOM

Actuator Color
1 = white
2 = black
3 = red
4 = orange

Marking
Non = Std
1 = 0 I
2 = 0 -

ROHS Compliant

Agency approval
Non = Standard
2P = Two terminal

Ratings
P45 = 4.5A, 28VDC

Contact Material
Non = No plated
Q = Silver plated
R = Gold plated

Terminal
B = solder lug
C = PC lug
D = Quick connect

JS-606 (S.P rocker switch) / JS-606P (DP. rocker switch)

SPECIFICATIONS

- Rating: K/ 6A 125VA/3A 250VAC (UL~CSA)
H/ 10A 125VAC/ 6A 250VAC (UL-KEMA)
L/ 5A 125VAC
T/ 16A 125VAC/10A 250VAC T105
- CONTACT RESISTANCE: 30 mΩ(max)
- Insulation resistance: DC 500V 100MΩ(Min)
- Dielectric strength: 1,000 VAC/ 1minute.
- Safety approval:        

MATERIALS

- Housing Nylon #66 (UL 94V-2)
- Rocker Nylon #66 (UL 94V-2)
- Terminal: Copper alloy Sn or Ag Plated
- Contact: Ag-cd-O alloy
- Spring: Music wire

(A) J S - - - - - - - - - -

Model	Circuit	Terminal	Color Rocker/Housing	Stamp	Rating	RoHS code
JS-606	JS-606	Q S SI P PCB R G R1 PCC	B Black	1	K 6A	H = RoHS Compliant
	A 2P ON-OFF		W White	2	H 10A	
	B 3P ON-ON		R Red	3	L 5AL	
	C 3P ON-OFF-ON		G Green	4	T 16A	
	D 2P (ON)-OFF		I Ivory	5		
	E 2P ON-(OFF)		H Gray	6		
	F 3P (ON)-ON		S Slate Gray	7		
	I 2P indicator		Y Yellow	8		
	L 4P with led			9		
	AL 3P illuminated			10		
JS-606P	JS-606P			11		
	A 4P ON-OFF			12		
	B 6P ON-ON			13		
	C 6P ON-OFF-ON			14		
	D 4P (ON)-OFF			15		
	E 4P ON-(OFF)			16		
	F 6P (ON)-ON					
	AA 4P double ON-OFF					
	AB 5P ON-OFF ON-ON					
	BB 6P double ON-ON					
	AI 4P ON-OFF with INDICATOR					

Stamp:

Apply for JS-606

															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Apply for JS-606P

												
1	2	3	4	5	6	7	8	9	10	11	12	13

JS-606

JS-606C-S-R/B-6-□



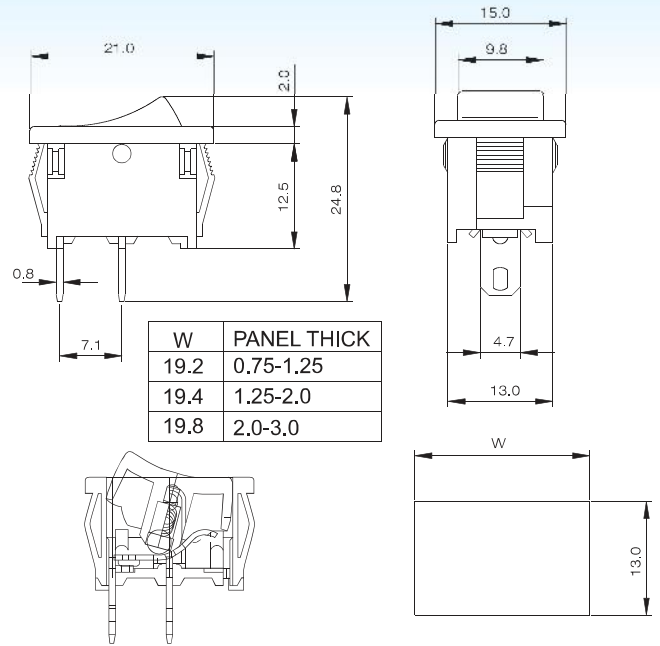
JS-606B-R-B/B-1-□



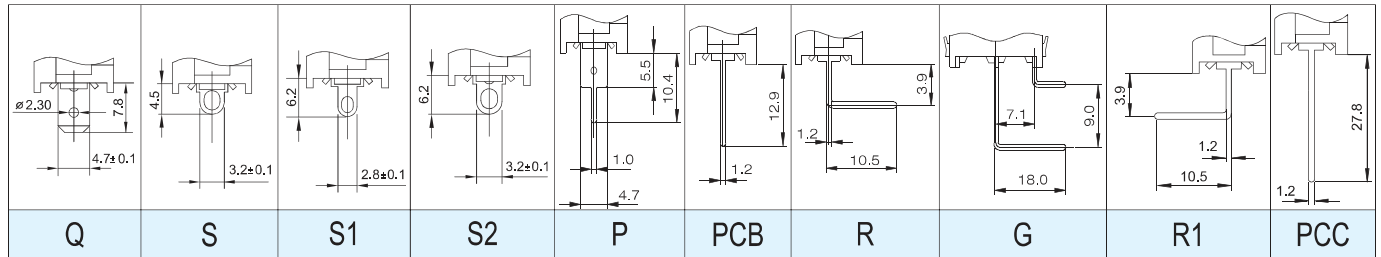
JS-606A-G-B/B-3-□



JS-606I-Q-G/B-1-□



TERMINAL OPTION:



JS-606P

JS-606PA-R-B/B-4-□



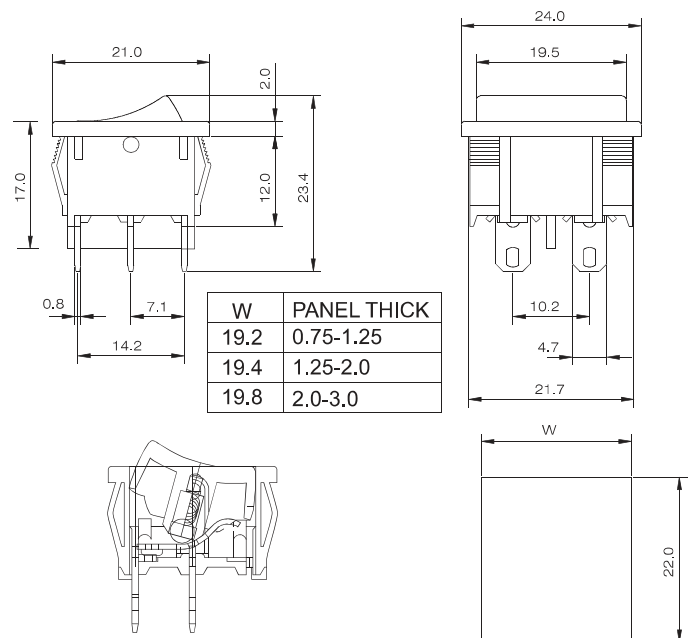
JS-606PAA-Q-B/B-1-□



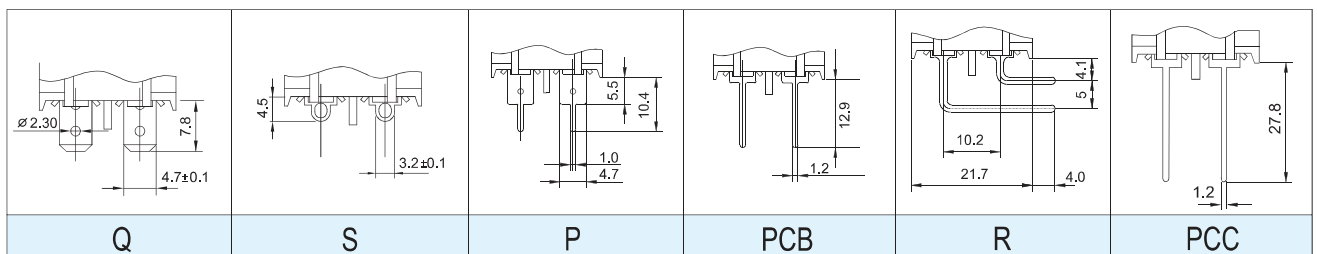
JS-606PB-P-O/B-6-□



JA-606PAI-Q-R/B-2-□



TERMINAL OPTION:



JS-606Q SERIES (D.P Mini Rocker Switch)

SPECIFICATIONS

1. Rating: 10A 125 VAC/6A 250 VAC
2. Contact resistance: 30 mΩ(max.)
3. Insulation resistance: DC 500V 100MΩ(Min)
4. Dielectric strength: 1500 VAC/ 1minute
5. Safety approval:   

JS-606Q -  -  -  - 

Circuit		
B1	3P	ON-ON
B2	6P	
C1	3P	ON-OFF-ON
C2	6P	
C3	9P	(ON)-OFF
D1	2P	
D2	4P	ON-(OFF)
E1	2P	
E2	4P	(ON)-ON
F1	3P	
F2	6P	ON-OFF-(ON)
H1	3P	
H2	6P	()....Momentary

Color Rocker/Housing	
B	Black
W	White
I	Ivory
H	Gray
S	Slate Gray

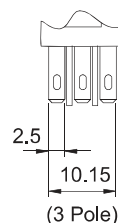
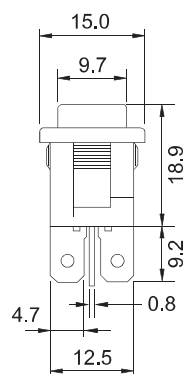
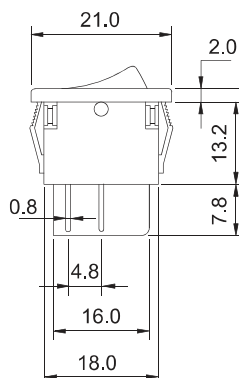
Stamp

					
1	2	3	4	5	6

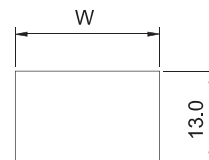
RoHS code

H = RoHS Compliant

JS-606Q-C2-B/B-6



W	Panel Thickness
19.2	0.75-1.25
19.4	1.25-2.0
19.8	2.0-3.0



JS-606Q-E2-S/S-1



JS-606Q-H2-W/W-1



JS-606Q-H2-S/S-1



JS-606Q-C2-H/H-1



JS-608 SERIES

SPECIFICATIONS

1. Rating: 10A 125/250 VAC
16A 250 VAC
2. Contact resistance: 30 mΩ(max.)
3. Insulation resistance: DC 500V 100MΩ(Min)
4. Dielectric strength: 2000 VAC/ 1minute
5. Safety approval:

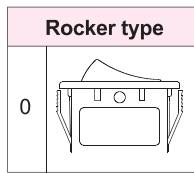
MATERIALS

1. Housing Nylon #66 UL 94V-2
2. Rocker: Nylon #66UL 94V-2
3. Terminal: Copper alloy Sn or Ag Plated
4. Contactor: Ag-cd-O alloy
5. Spring: Music wire

JS-608 -

Mounting hole	
R	22x28m/m
F	22x30m/m

Circuit	
A	4P ON-OFF
B	6P ON-ON
C	6P ON-OFF-ON
D	4P (ON)-OFF
F	6P (ON)-ON
G	6P (ON)-OFF-(ON)
H	6P ON-OFF-(ON)
AL	4P illuminated
BL	6P illuminated



Color Rocker/Housing	
B	Black
W	White
R	Red
I	Ivory
G	Green
H	Gray
Y	Yellow

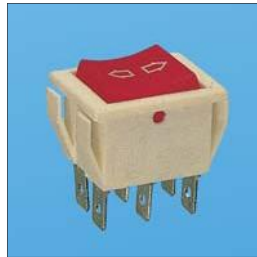
Stamp						
1	2	3	4	5	6	7

RoHS code	
H	= RoHS Compliant

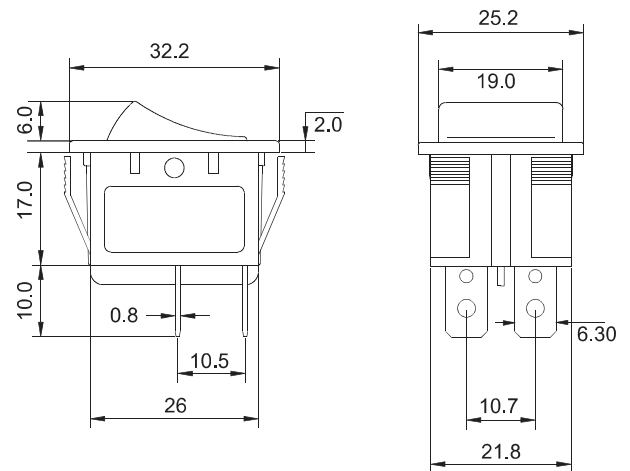
JS-608RA-O-B/ B-2



JS-608FG-O-R/ W-4



JS-608RAL-O-R/ W-2



R	W	PANEL THICKNESS	F	W	PANEL THICKNESS
	28.0	0.75~1.25		30.0	0.75~1.25
	28.2	1.25~2.0		30.2	1.25~2.0
	28.5	2.0~3.0		30.5	2.0~3.0