

HOMYET

鴻壹部品

SWITCH · JACK · CONNECTOR

深圳市鴻壹部品電子有限公司致力於電子元器件的开发、设计、生产、销售于一体的专业公司，一贯秉承创新研发及质量至上之精神，针对日趋多元化的市场需求，不断开拓，成功的开发了一系列新产品并推向市场。主要产品包括：轻触开关、拨动开关、耳机插座、DC电源座、卡座、连接器等。产品广泛应用于时尚数码、通讯、多媒体、数字家庭等相关领域。公司拥有完善的品质管理系统、经验丰富的专业技术人才，积极推动着尖端技术的开发和运用。

深圳市鴻壹部品電子有限公司

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公众号

[www.homyet.com](http://www.homyet.com)

专业开关插座连接器制造商

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# 目录 CONTENT

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	HY-1124		HY-1127		HY-1177		HY-1177W		HY-1185L
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	HY-6609		HY-6650		HY-DD6611		HY-1102HS		

## HY-1100



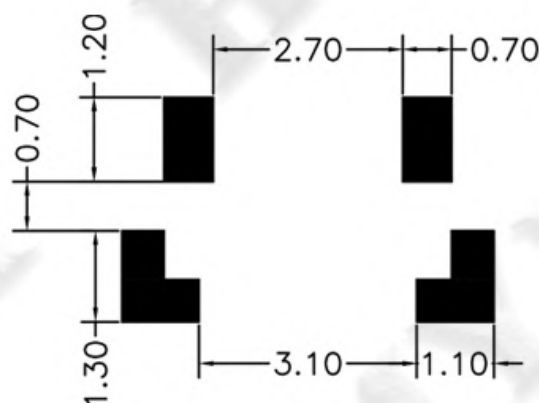
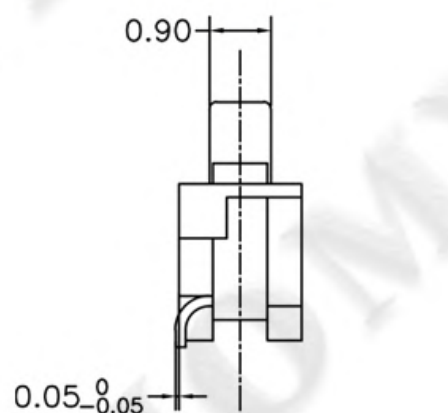
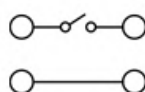
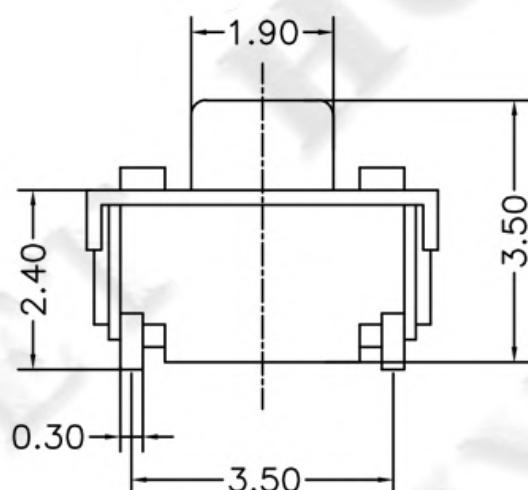
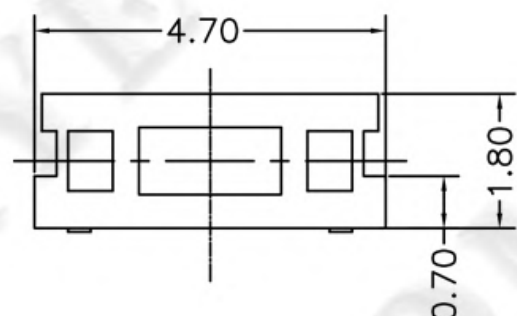
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Full Travel	$0.17 \pm 0.1\text{mm}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



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## HY-1100E



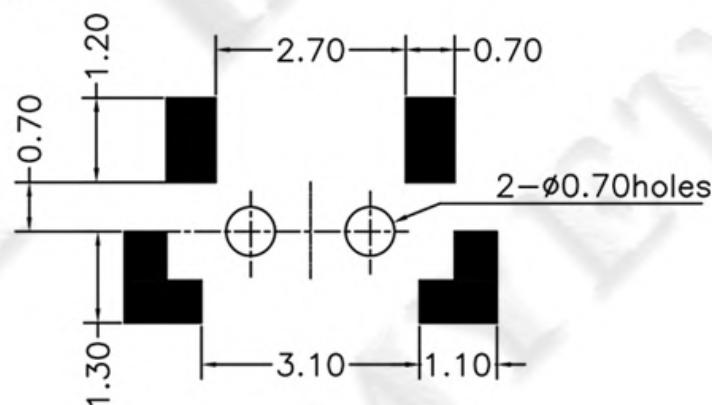
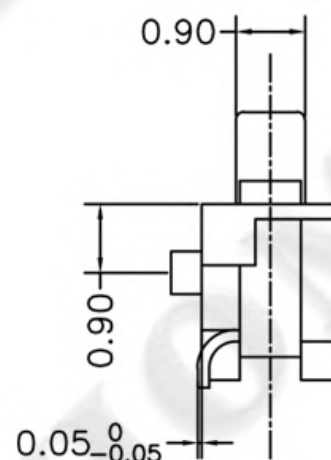
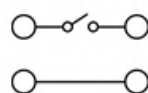
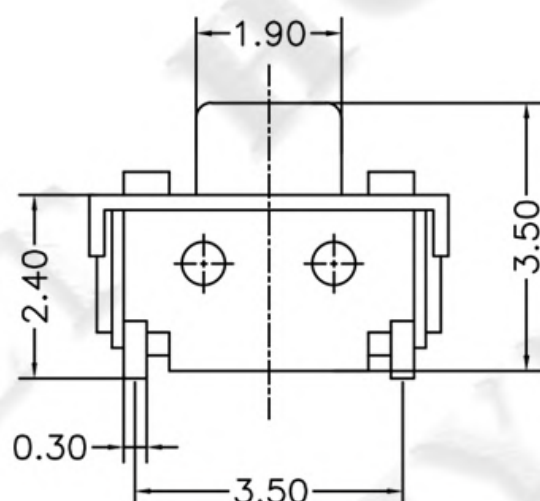
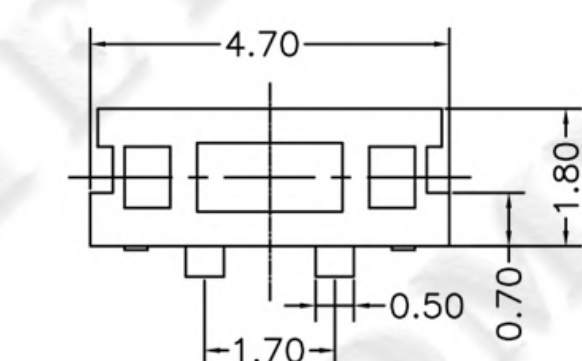
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Full Travel	$0.17 \pm 0.1\text{mm}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



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# TACT SWITCH

## HY-1100K



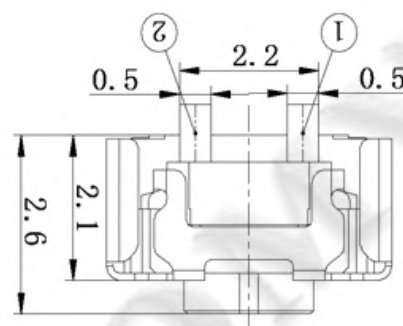
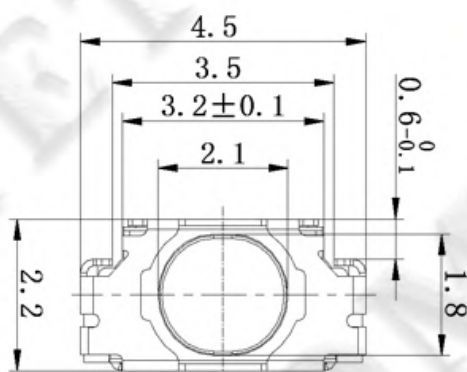
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$2.2 \pm 0.7\text{N}$
Operation life	600,000

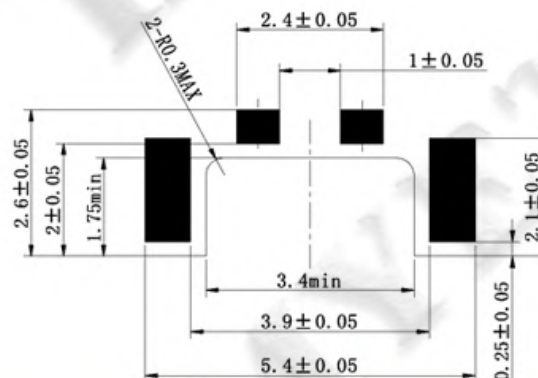
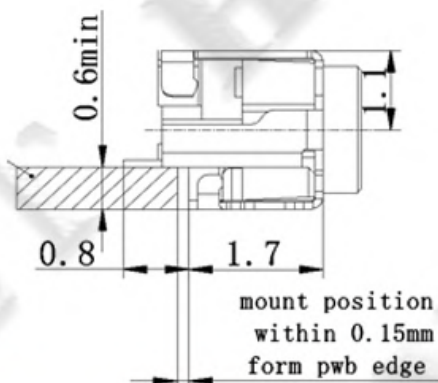


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



# TACT SWITCH

## HY-1100N



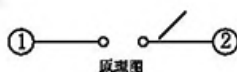
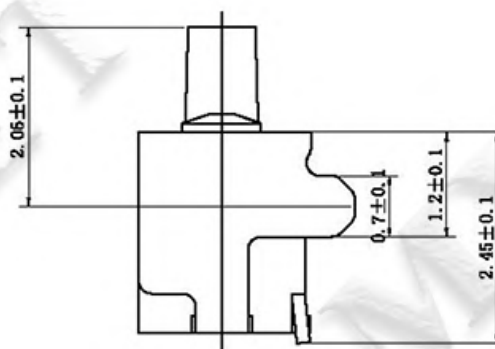
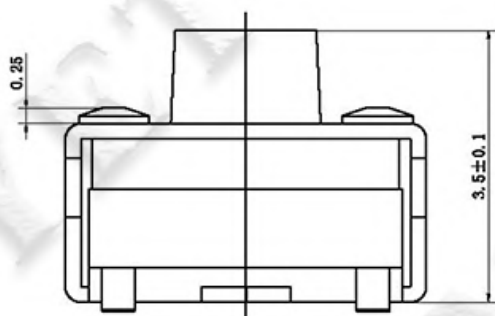
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$120 \pm 50\text{gf}$
Full Travel	$0.15 \pm 0.05\text{mm}$
Operation life	100,000

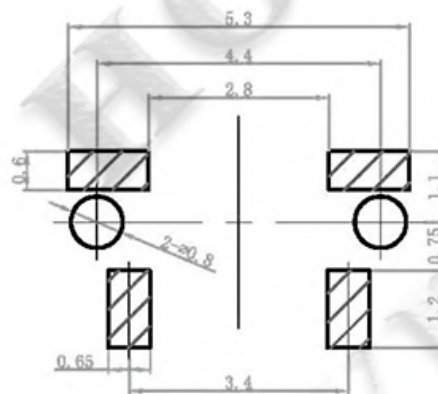
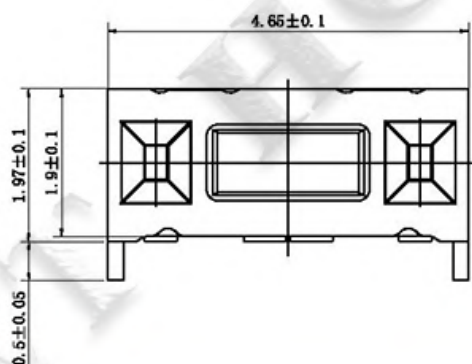


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



原理图



# TACT SWITCH

## HY-1100N-D



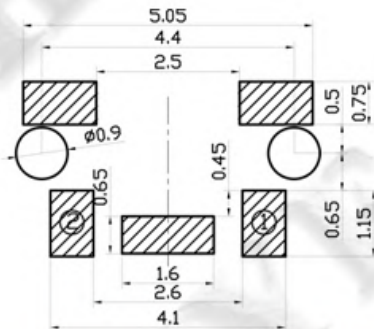
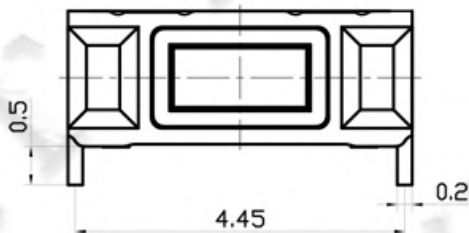
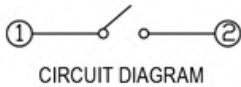
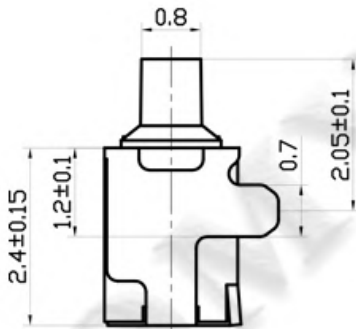
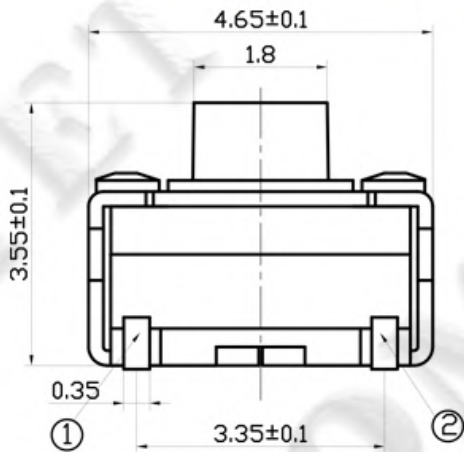
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	120±50gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1100N-D2



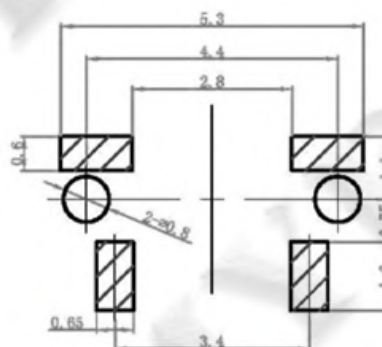
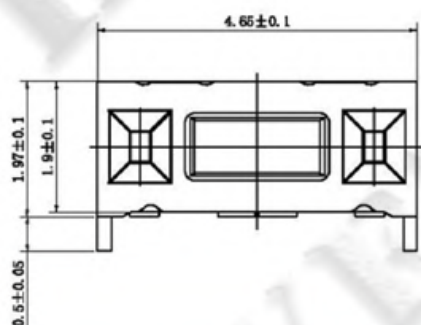
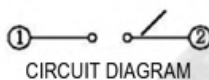
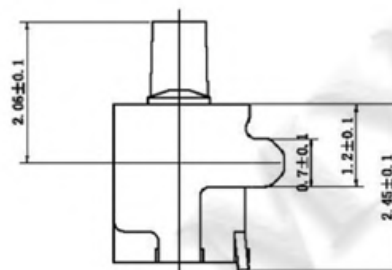
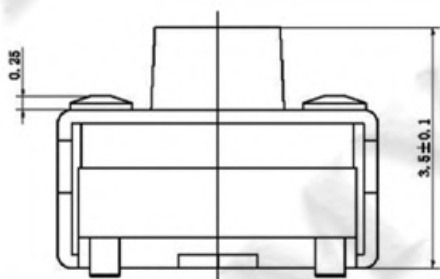
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	120 $\pm$ 50gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1101



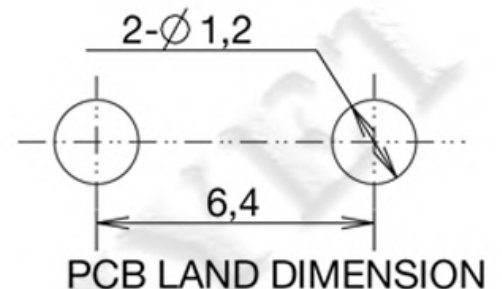
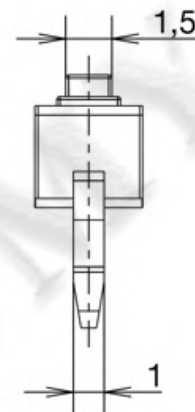
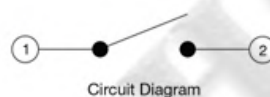
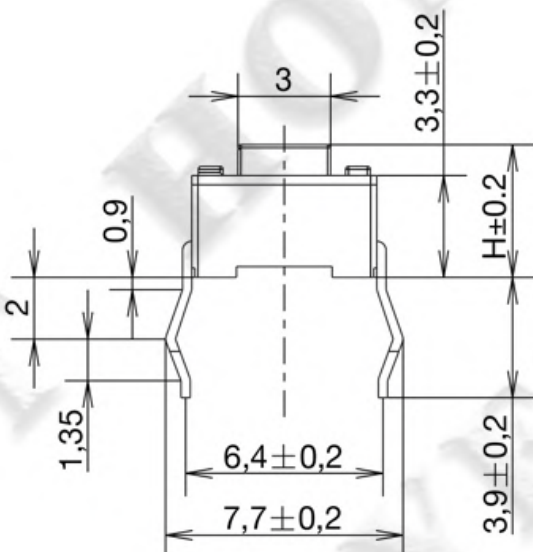
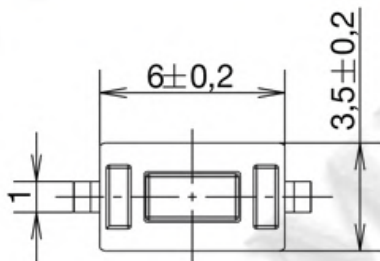
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$120 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



HY-1101ES



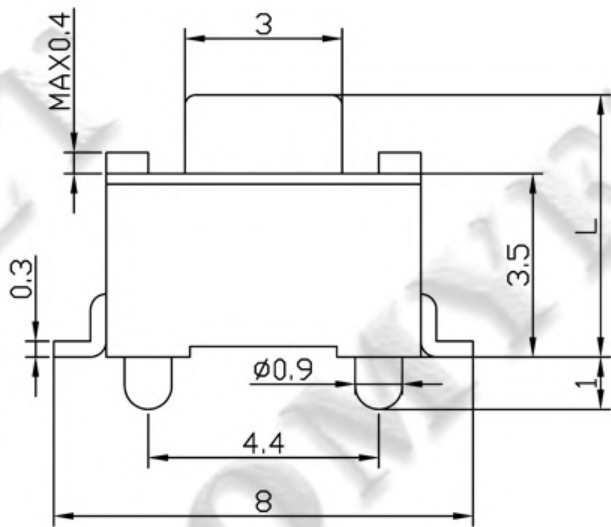
SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	≦ 100 mΩ
Insulation Resistance	≧ 100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±30gf
Operation life	50,000



SOLDERING CONDITIONS

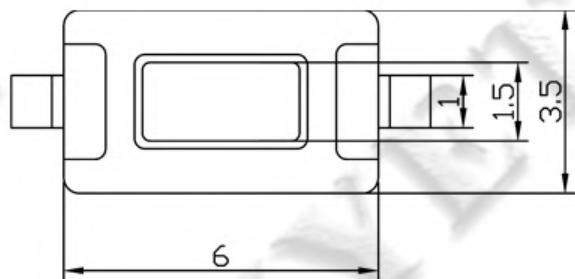
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



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# TACT SWITCH

## HY-1101S



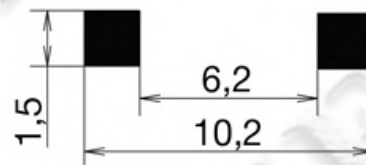
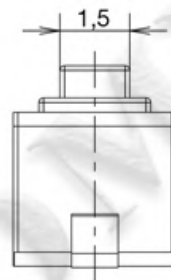
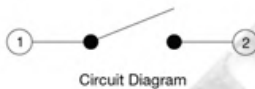
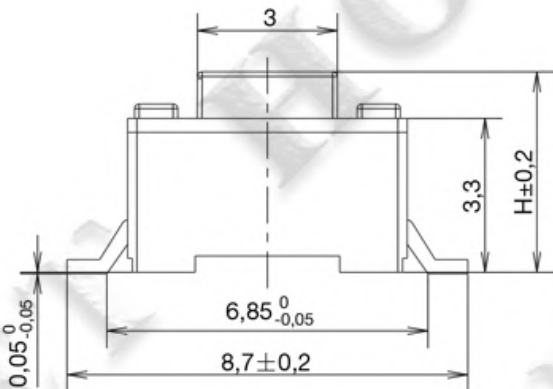
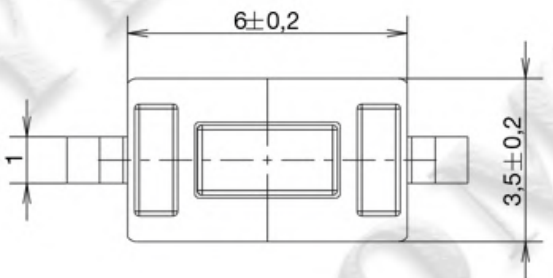
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	120±50gf
Full Travel	0.15±0.05mm
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PCB LAND DIMENSION

# TACT SWITCH

## HY-1101S-BK



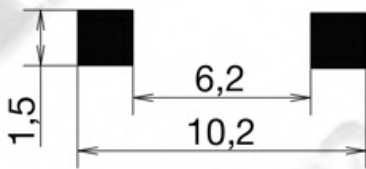
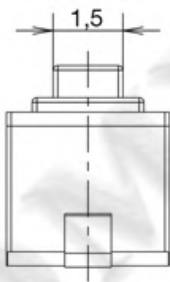
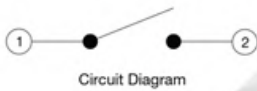
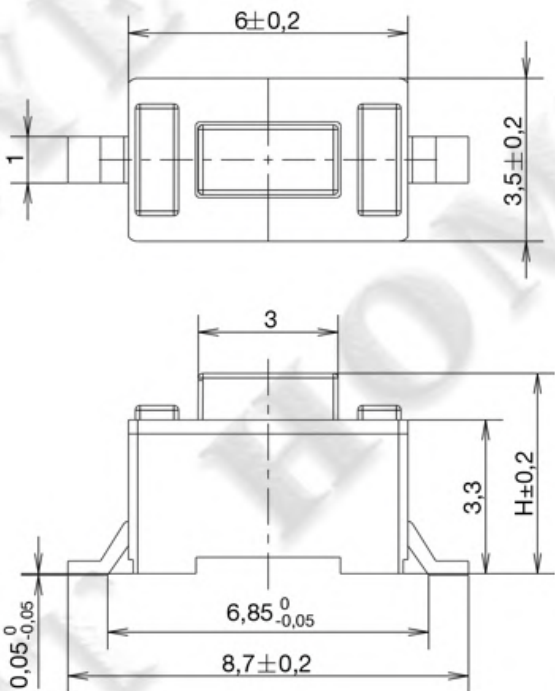
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	120±50gf
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PCB LAND DIMENSION

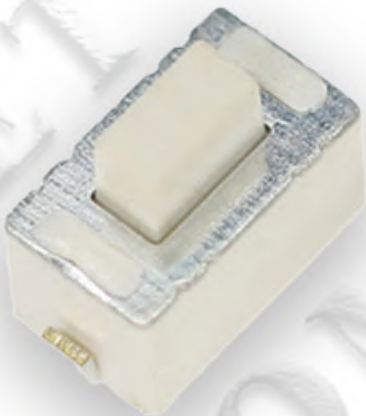
# TACT SWITCH

HY-1101U



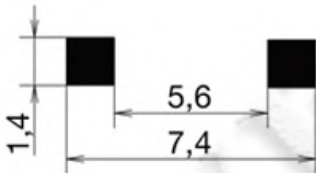
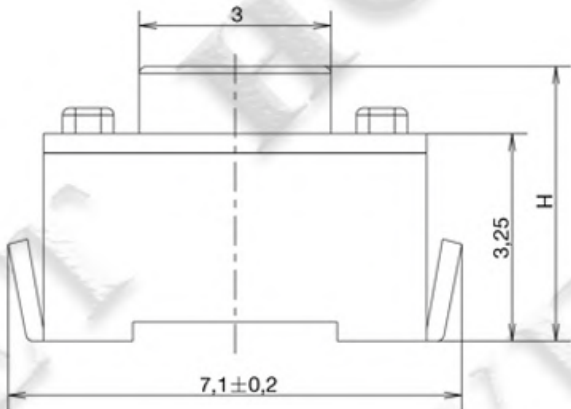
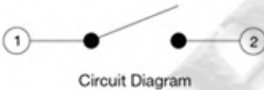
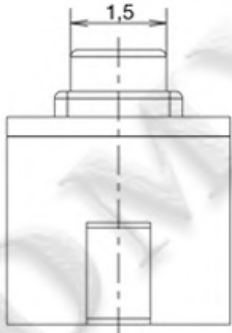
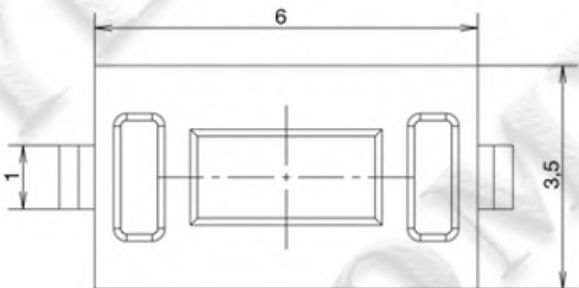
## SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	120±50gf
Full Travel	0.15±0.05mm
Operation life	100,000



## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PCB LAND DIMENSION

# TACT SWITCH

## HY-1101V-H6



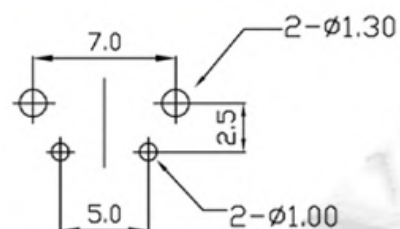
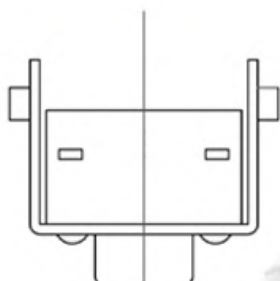
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$180 \pm 50 \text{ gf}$
Full Travel	$0.25 \pm 0.1 \text{ mm}$
Operation life	50,000



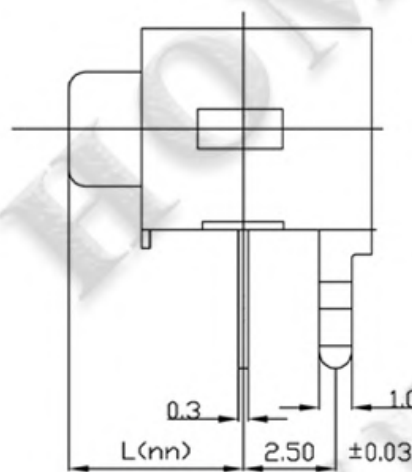
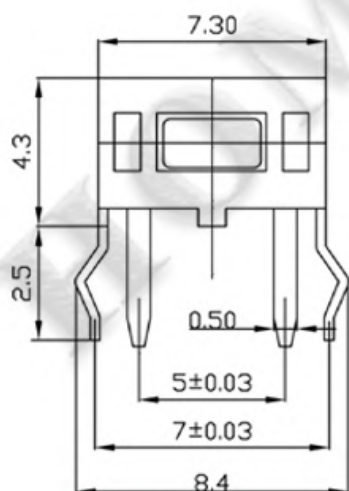
### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



P.C.B. DIMENSIONS

Circuit Diagram



## HY-1101WES



### SPECIFICATIONS

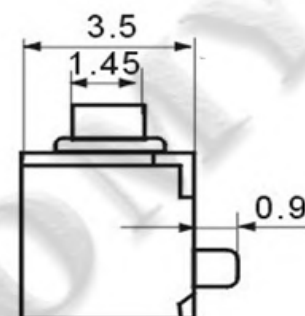
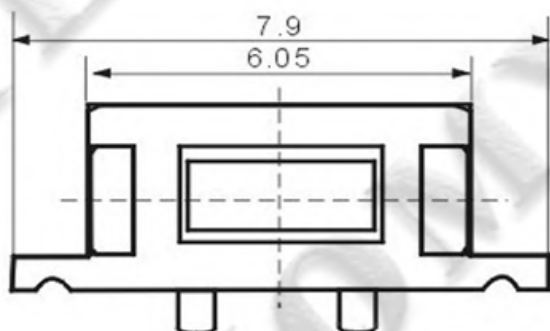
Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 30 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operation life	50,000



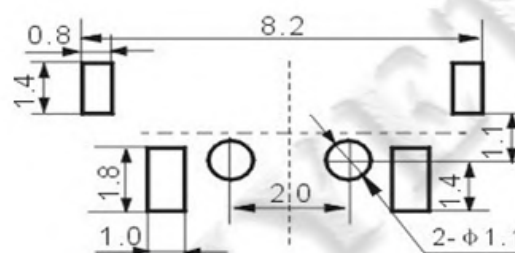
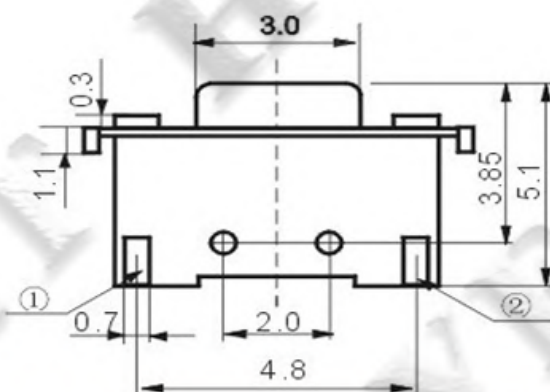
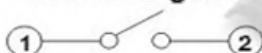
### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

H 4.3 4.5 4.7 5.0 6.8



**Circuit Diagram**



**P.C.B Land Pattern**

## HY-1102



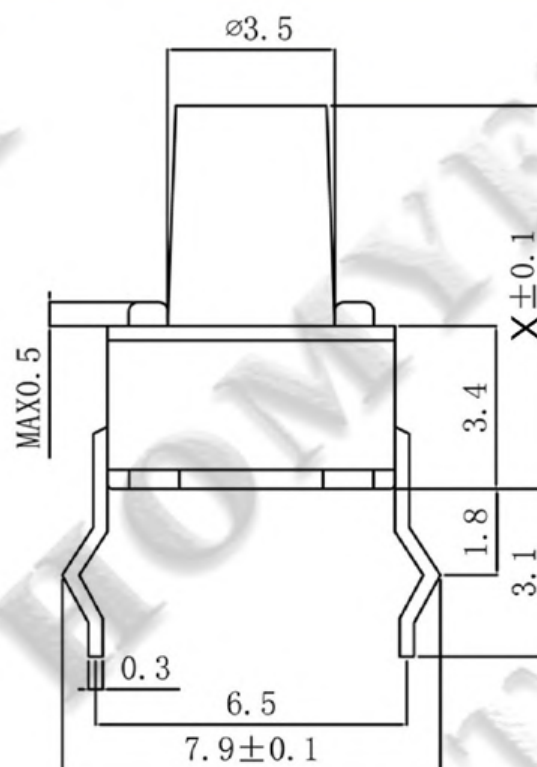
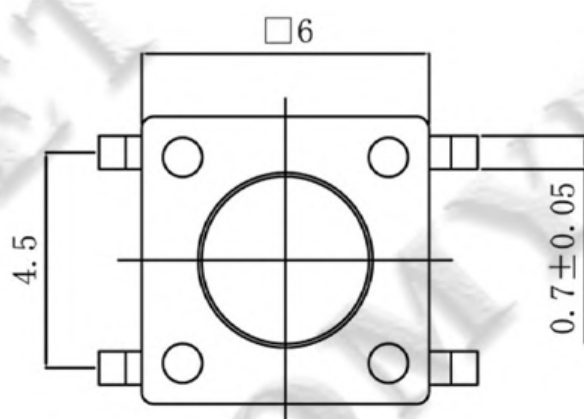
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	100,000

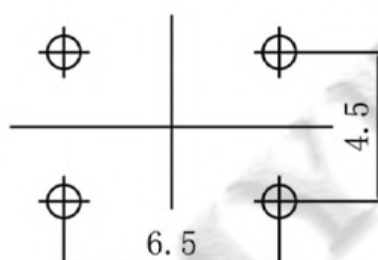


### SOLDERING CONDITIONS

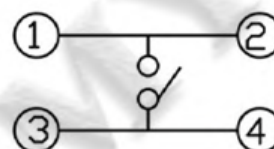
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### P. C. B. Land Pattern



### Circuit Diagram



## HY-1102H



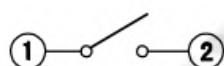
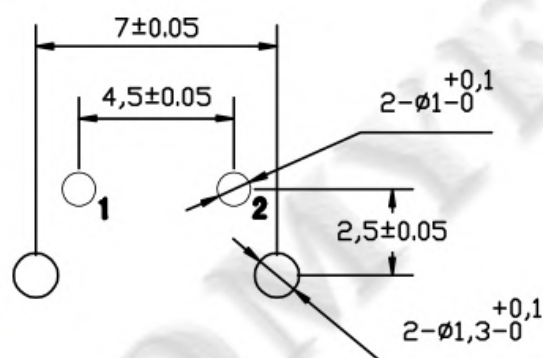
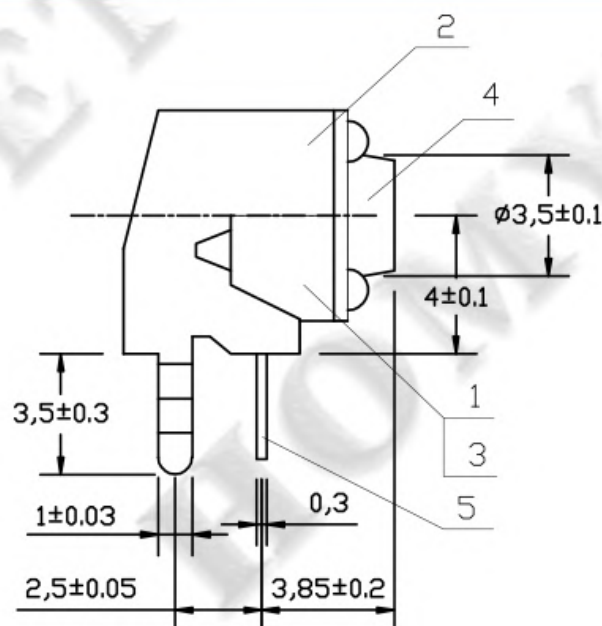
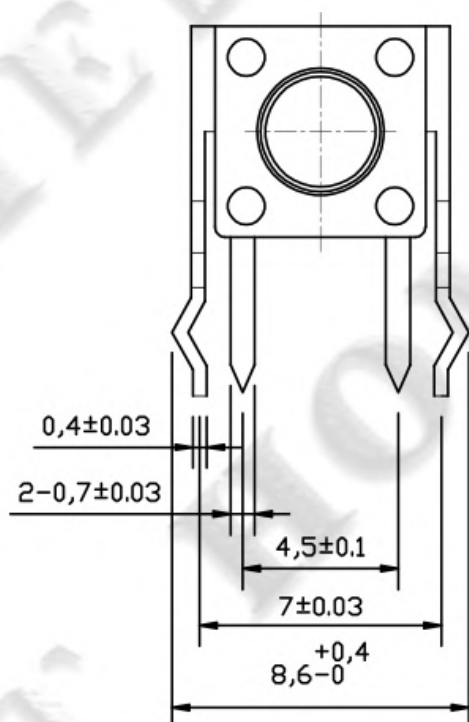
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM

# TACT SWITCH

## HY-1102HB



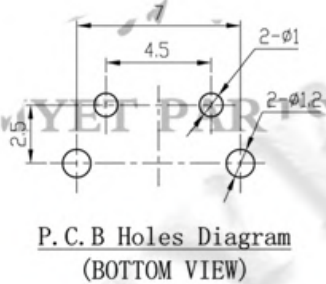
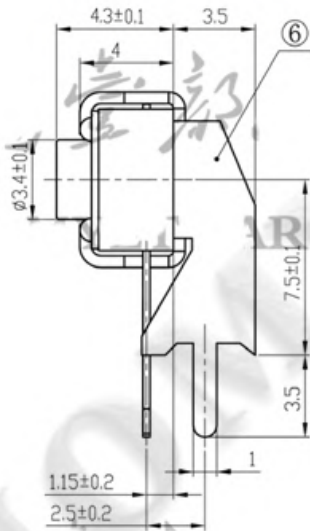
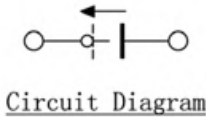
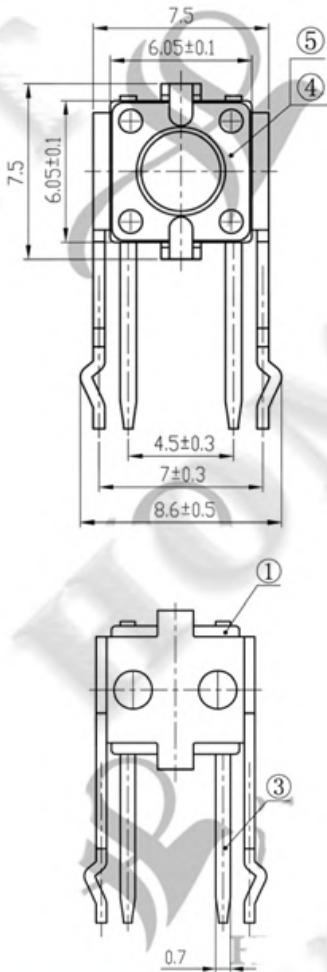
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	≤25 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±50gf
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

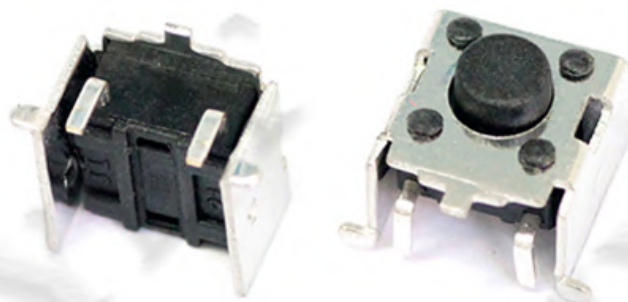


## HY-1102HD



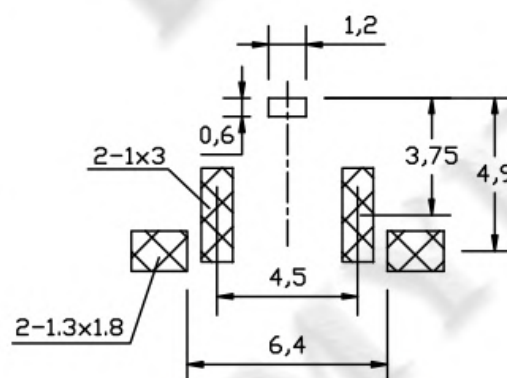
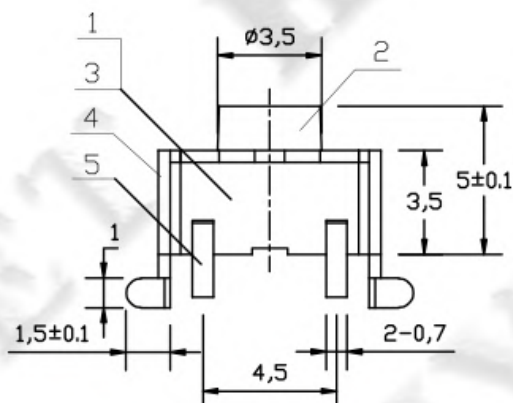
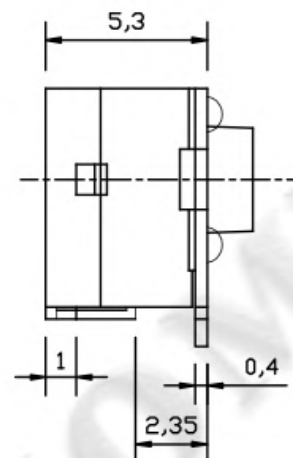
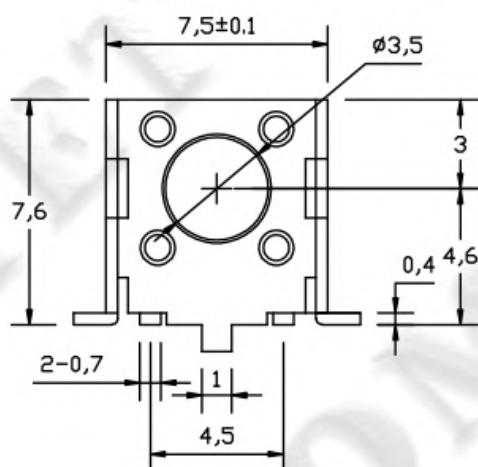
### SPECIFICATIONS

Rated Input Current	0.5 A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1102HD1



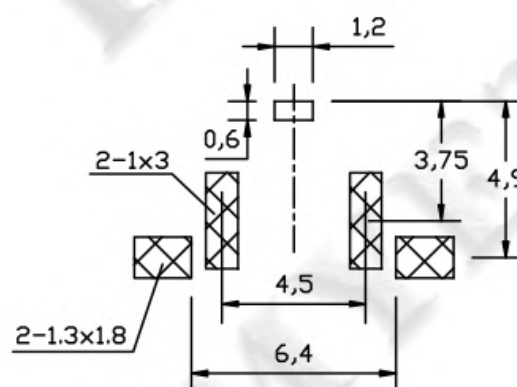
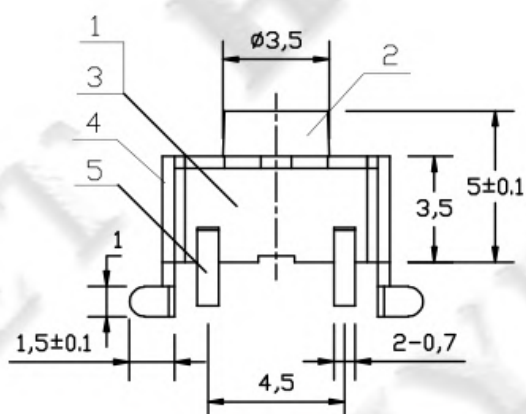
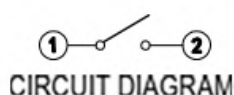
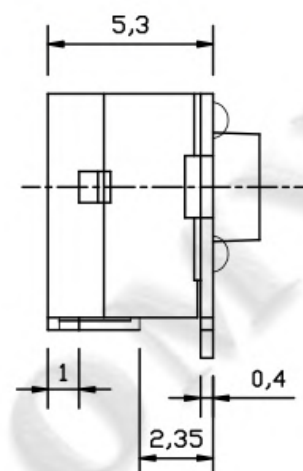
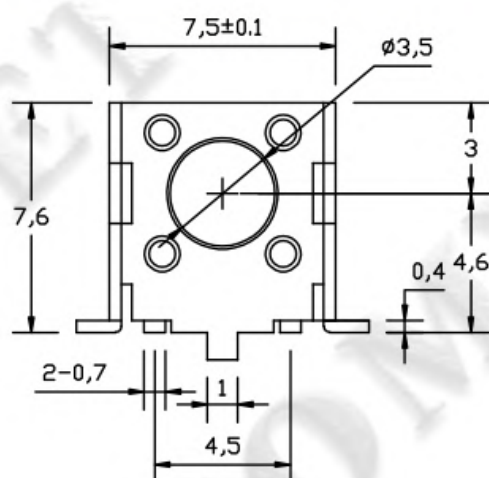
### SPECIFICATIONS

Rated Input Current	0.5 A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)





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## SOLDERING CONDITIONS

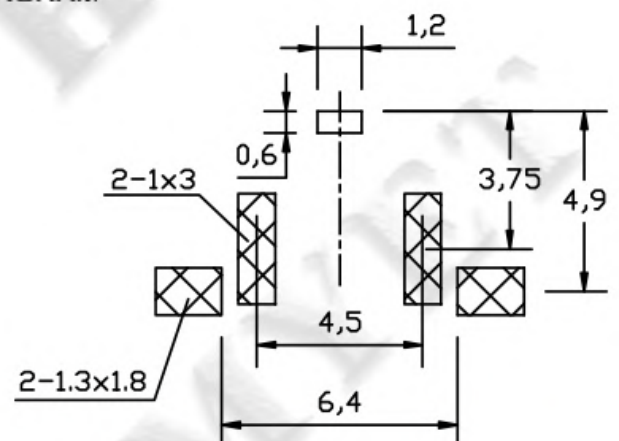
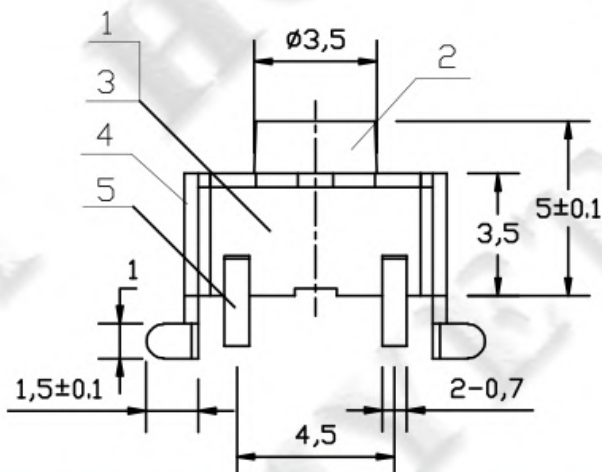
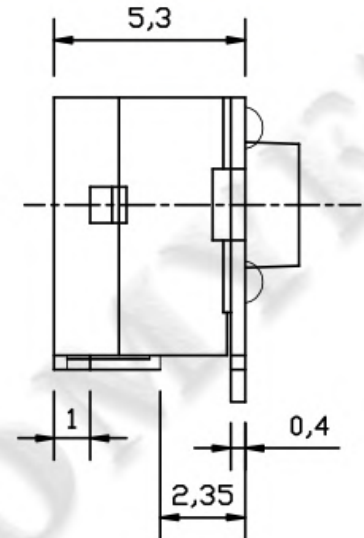
Technical drawing of a mechanical part, likely a flange or base plate, showing dimensions and tolerances. The drawing includes a top view and a side view.

**Top View Dimensions:**

- Overall width:  $7,5 \pm 0,1$
- Overall height:  $7,6$
- Central circular feature:  $\varnothing 3,5$
- Four small circular features (holes) arranged in a square pattern around the center.
- Distance from the center of the central hole to the center of one of the small holes:  $4,6$
- Distance from the center of the central hole to the outer edge of the part:  $0,4$

**Side View Dimensions:**

- Overall height:  $4,6$
- Distance from the bottom surface to the top surface of the central feature:  $2-0,7$
- Distance from the center of the central hole to the outer edge of the part:  $1$
- Overall width:  $4,5$



## HY-1102H-H4.3



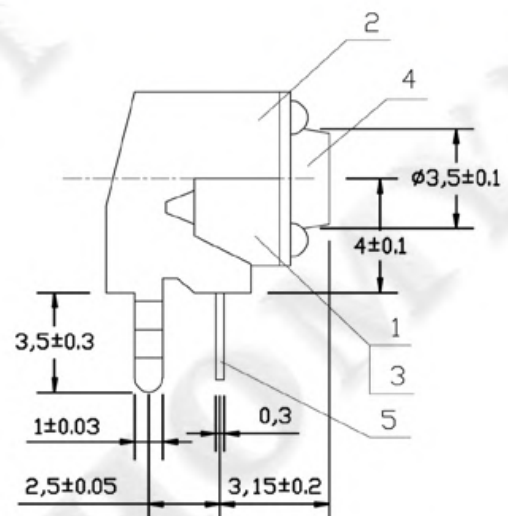
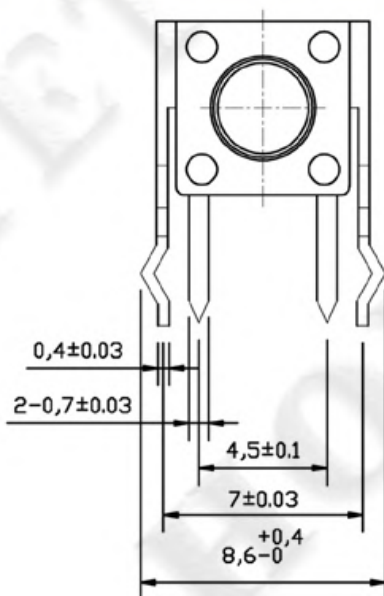
### SPECIFICATIONS

Rated Input Current	25mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000

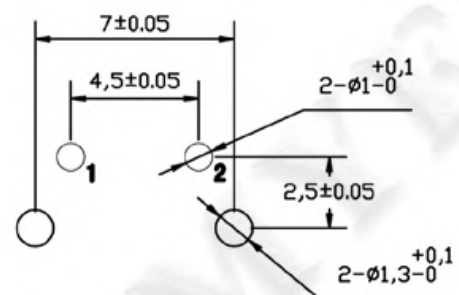


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



## HY-1102H-H7RD



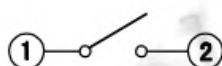
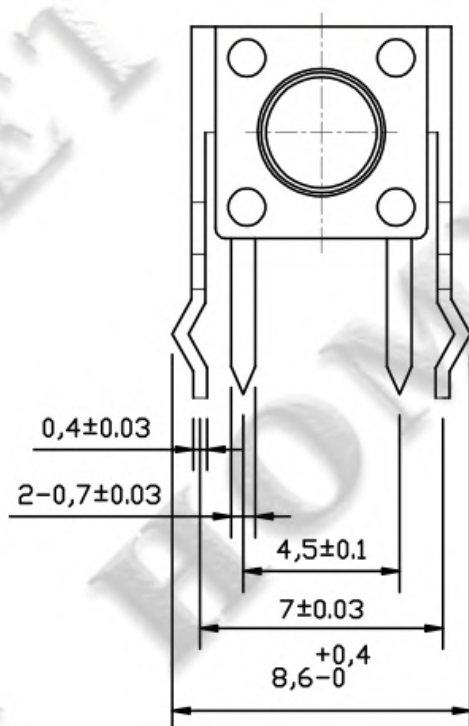
### SPECIFICATIONS

Rated Input Current	25mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000

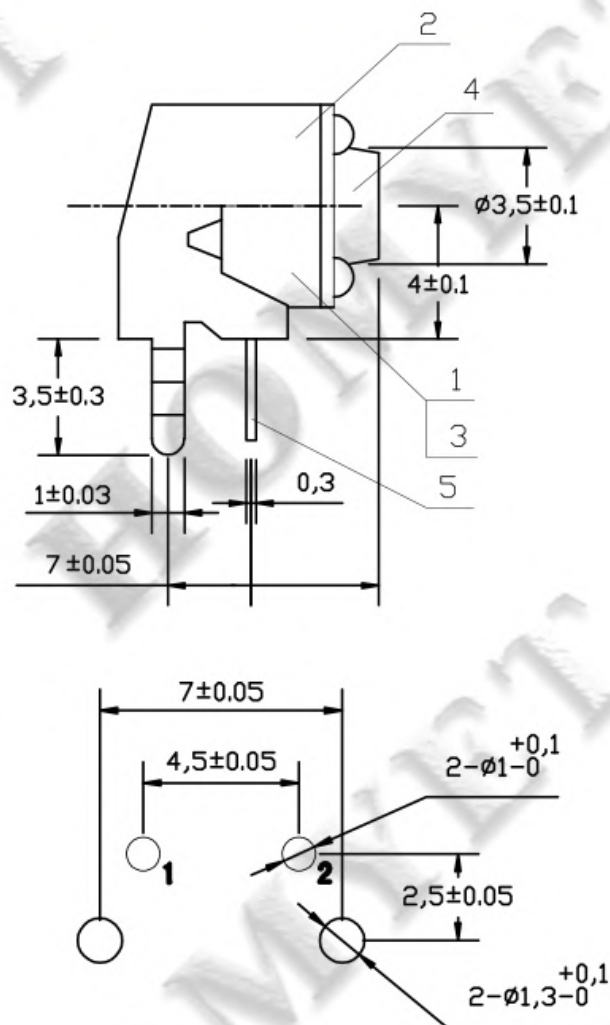


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



## HY-1102HLT



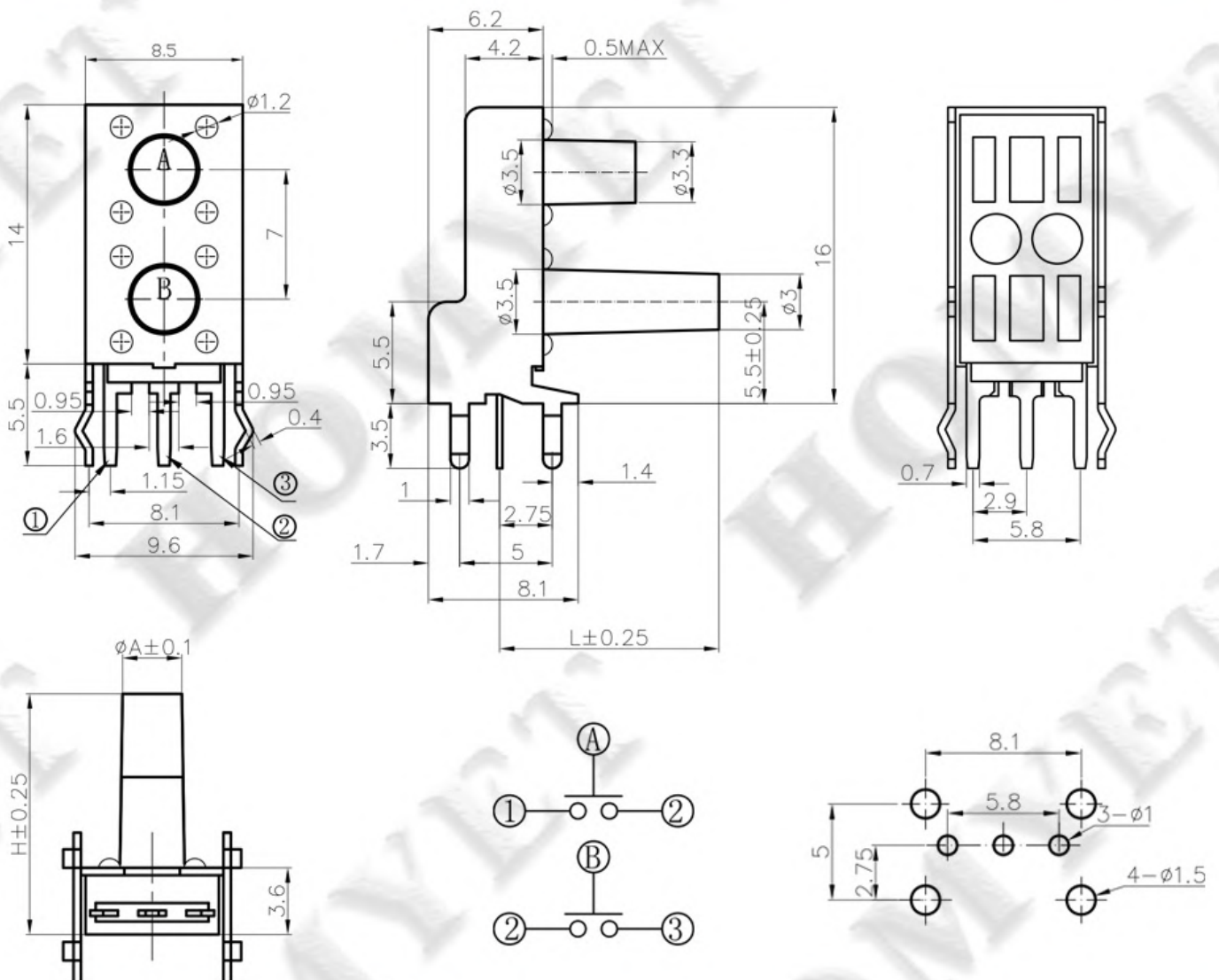
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 50 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	160g $\pm$ 50g
Operation life	80,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1102J



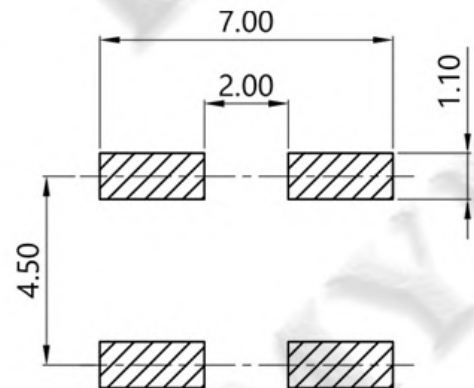
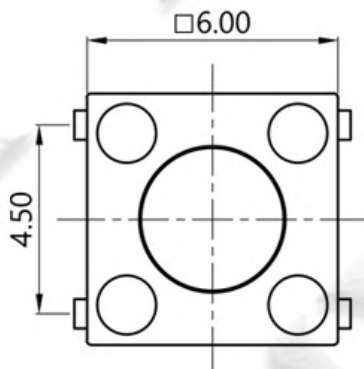
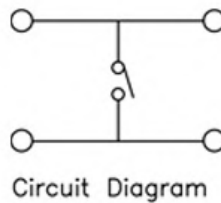
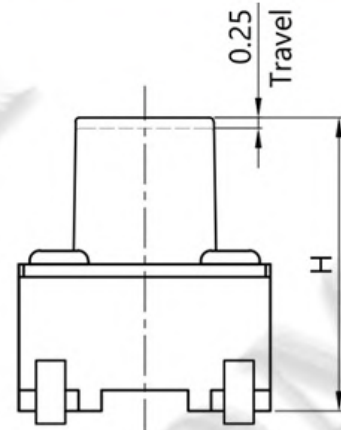
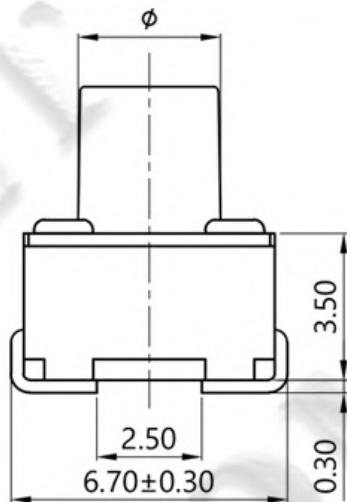
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 50 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	120g $\pm$ 30g
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



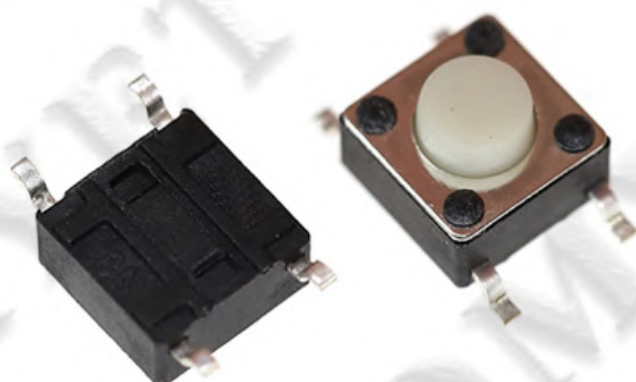
PCB Layout(Pattern side)

## HY-1102S-A



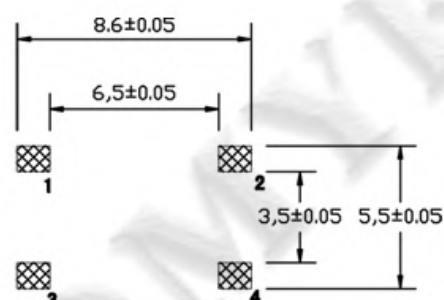
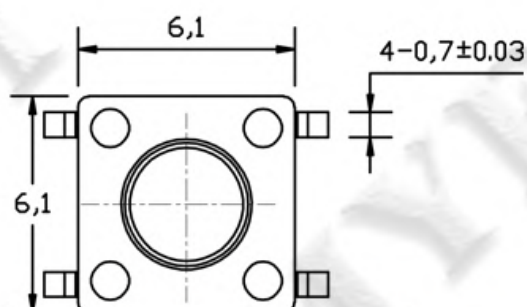
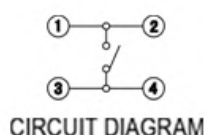
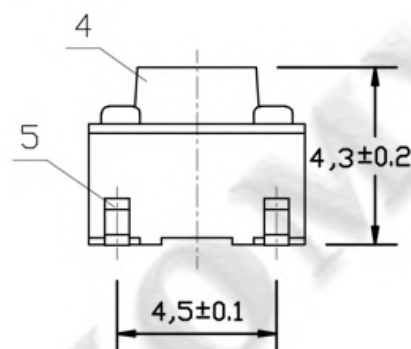
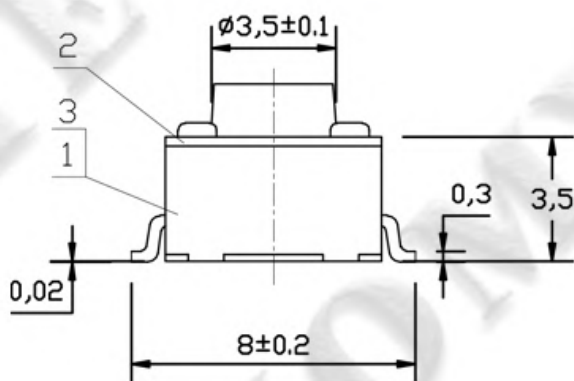
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

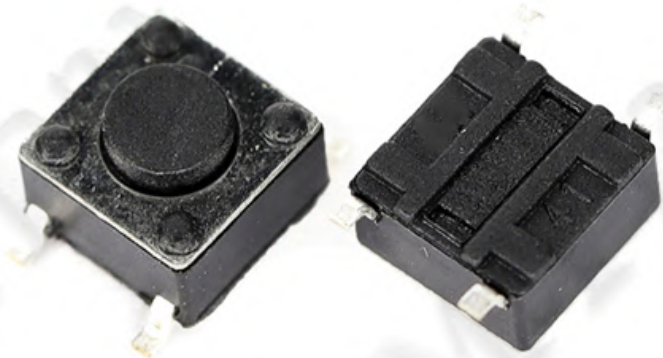


HY-1102S-H5



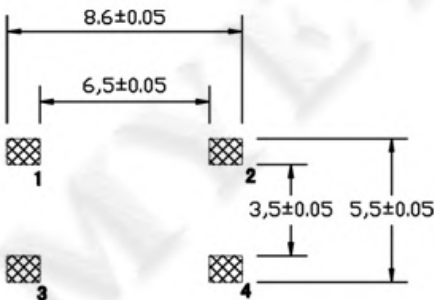
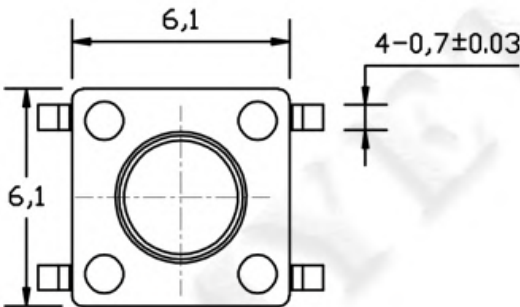
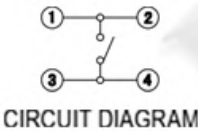
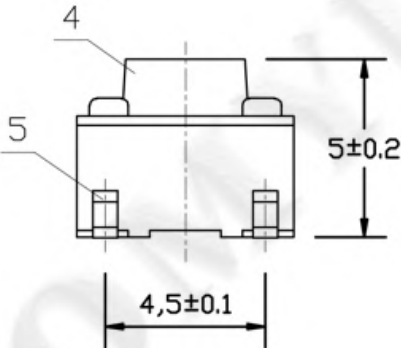
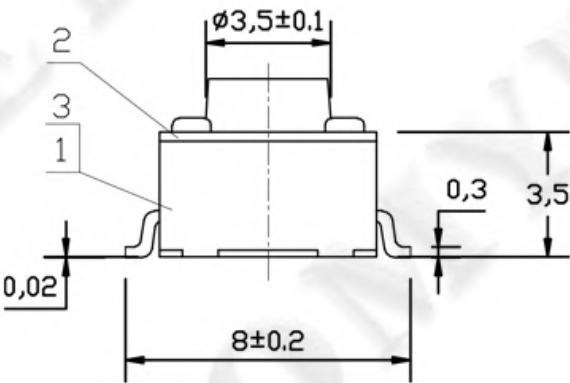
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤25 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±30gf
Operation life	50,000



SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1102V



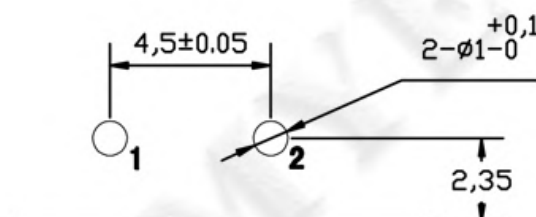
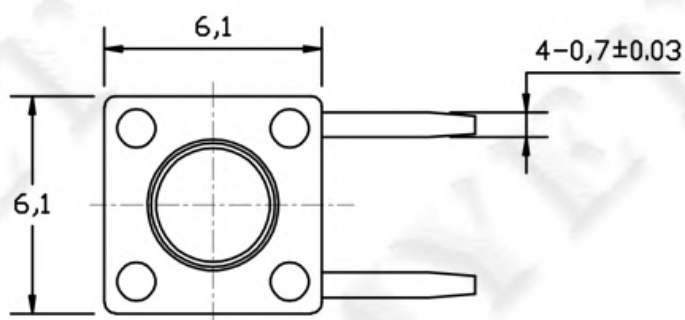
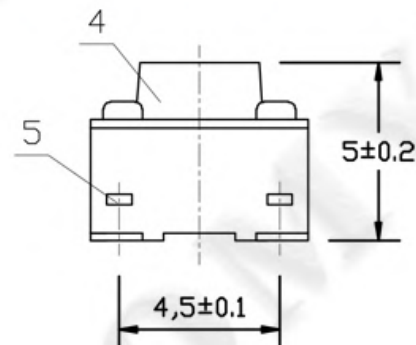
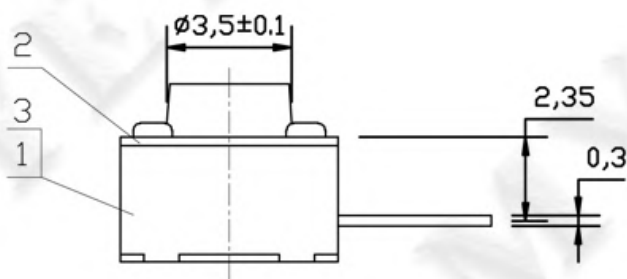
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1102V3-H5



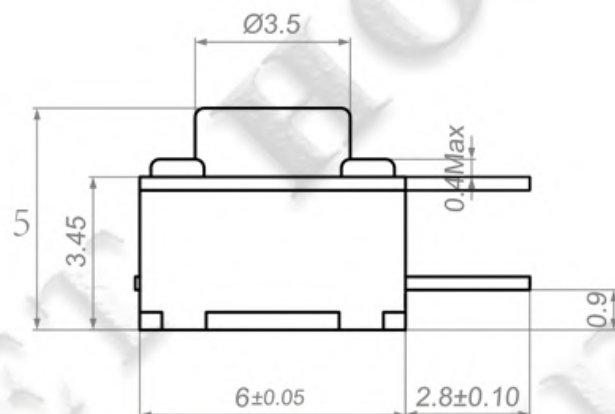
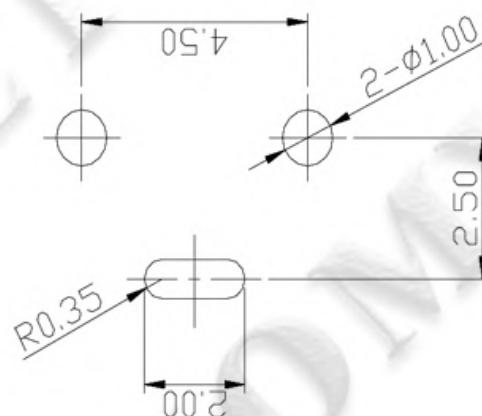
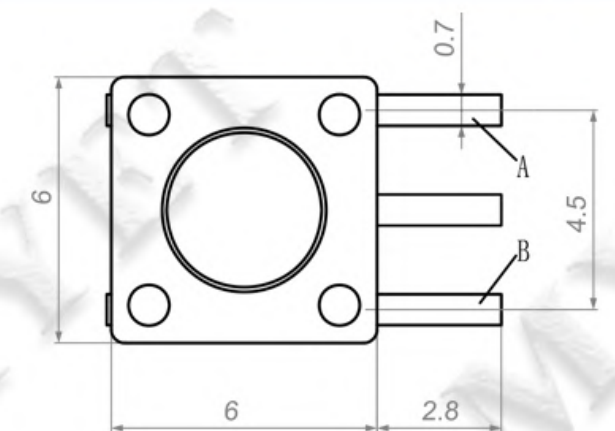
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Full Travel	$0.25 \pm 0.1\text{mm}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



#### SCHEMATIC



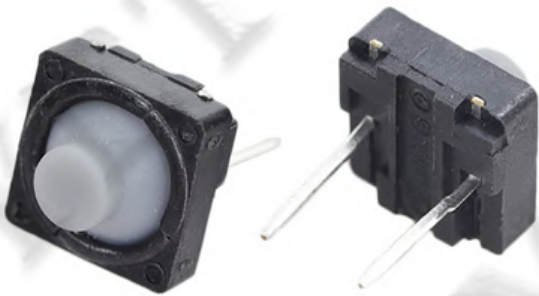
Recommended P.C.B Layout

HY-1102WT2



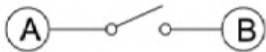
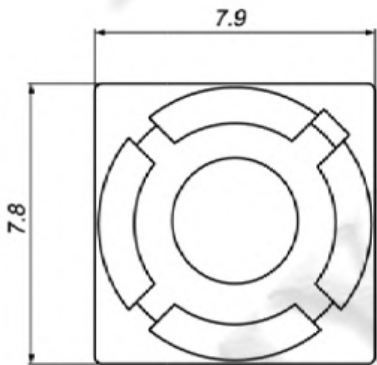
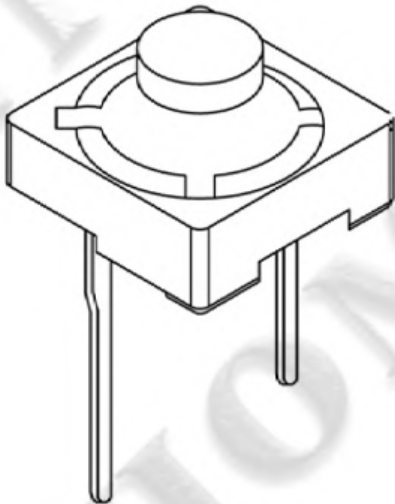
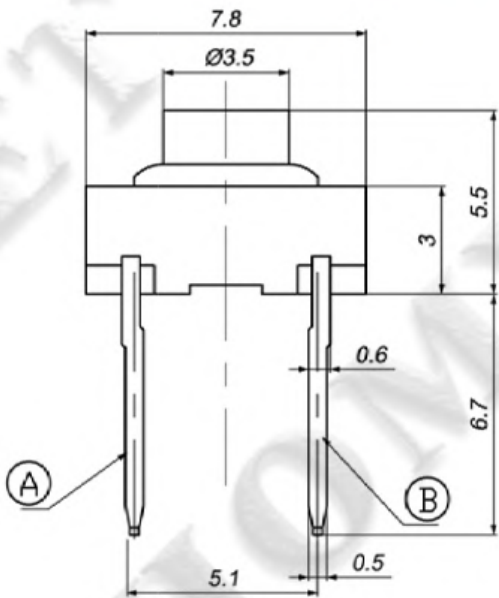
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤50 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	70±10gf
Operation life	200,000

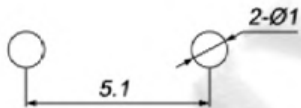


SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



电路简图  
SCHEMATIC



印制线路板  
Recommended P.C.B layout

HY-1102Y



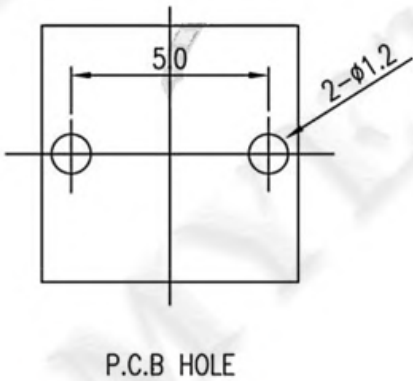
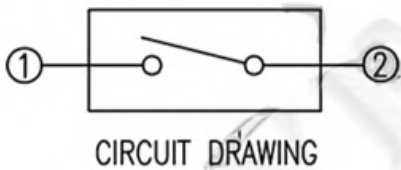
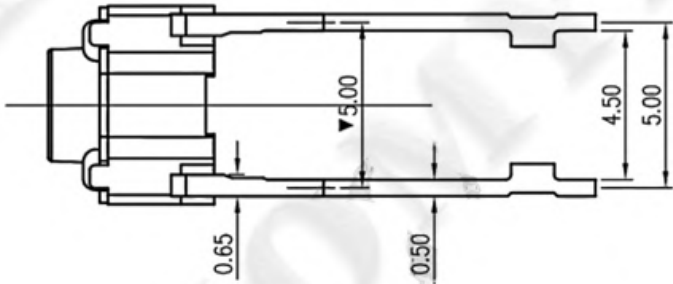
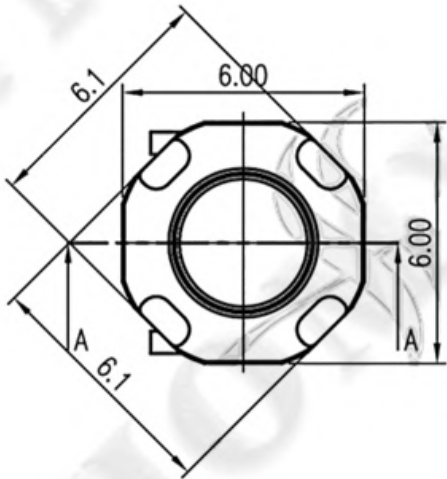
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤25 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±30gf
Operation life	100,000



SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

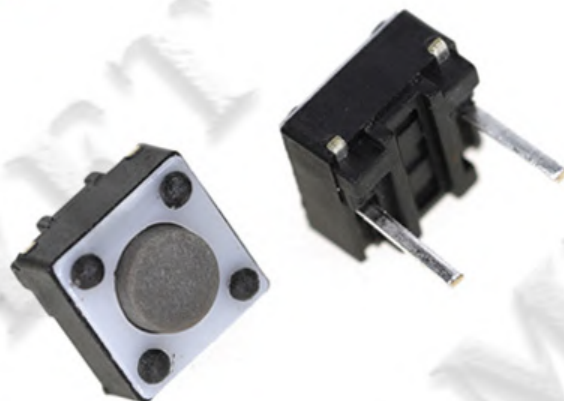


## HY-1102Z-A



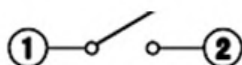
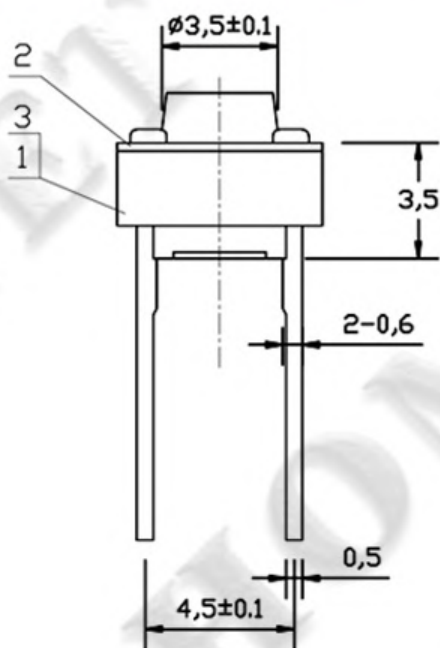
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250g $\pm$ 50g
Operation life	20,000

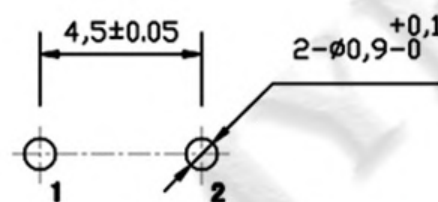
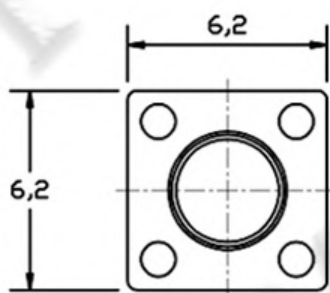
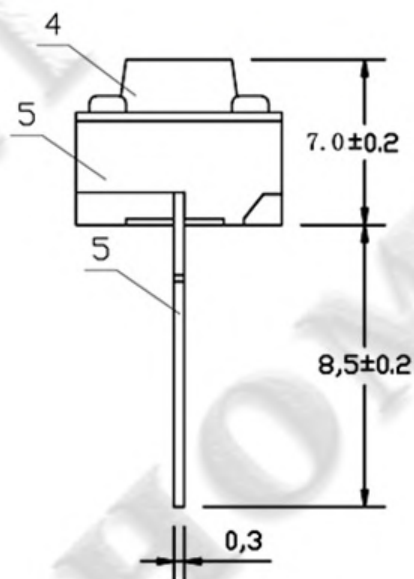


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DRAWING



P. C. B HOLE

# TACT SWITCH

## HY-1102Z-H7

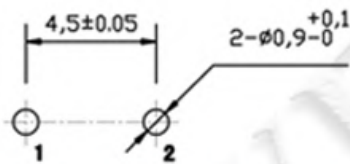
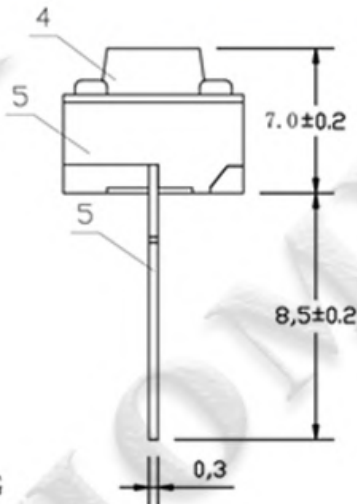
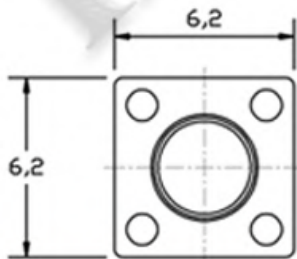
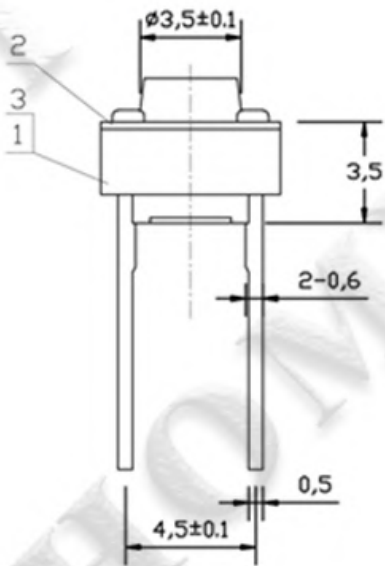


### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	12V
Contact Resistance	≤25 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±50gf
Operation life	100,000

### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

**HY-1103**



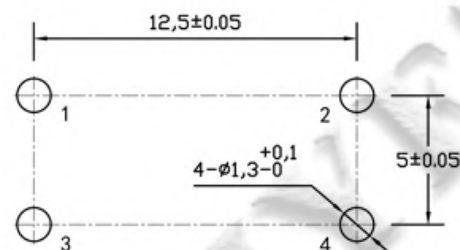
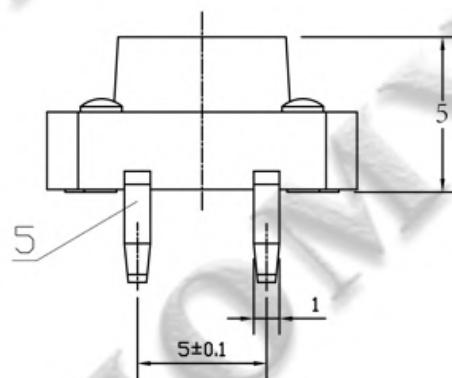
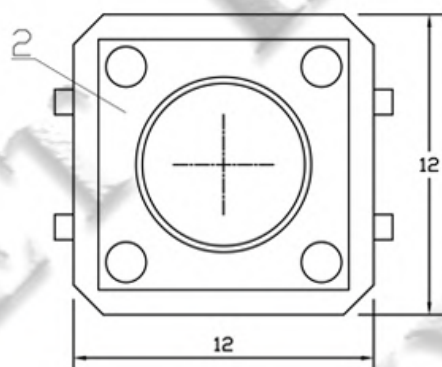
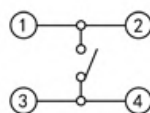
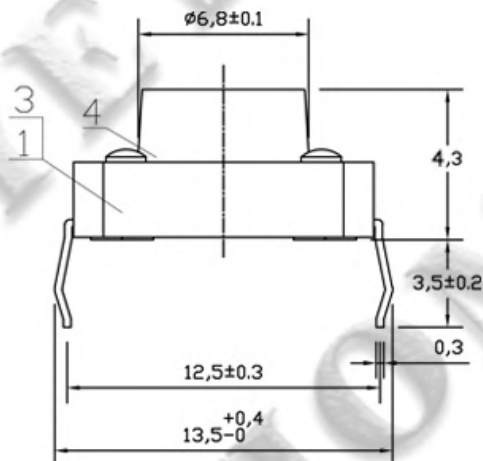
## SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	50,000



## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1103F



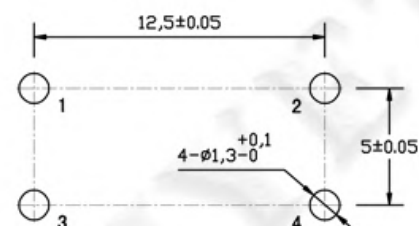
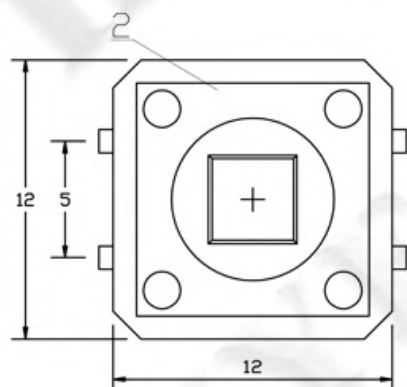
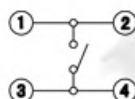
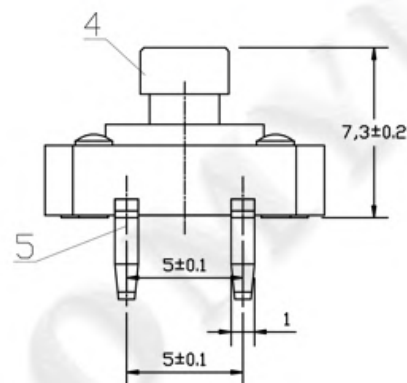
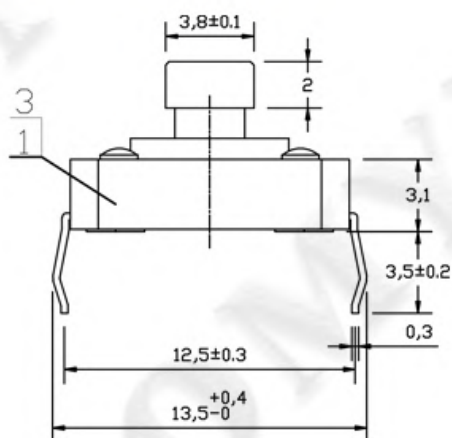
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1103-H5



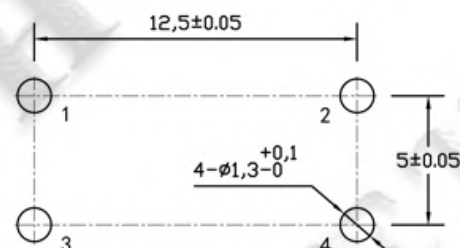
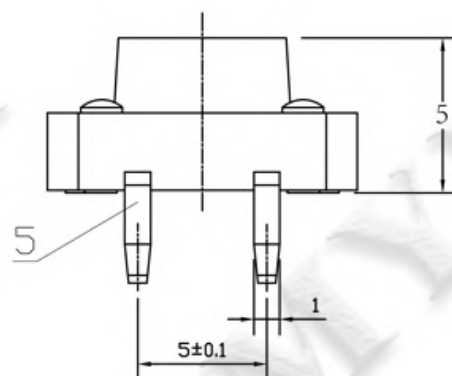
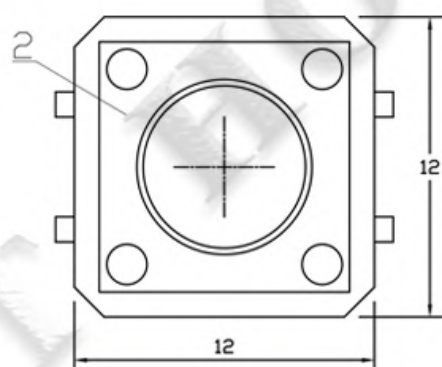
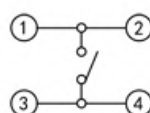
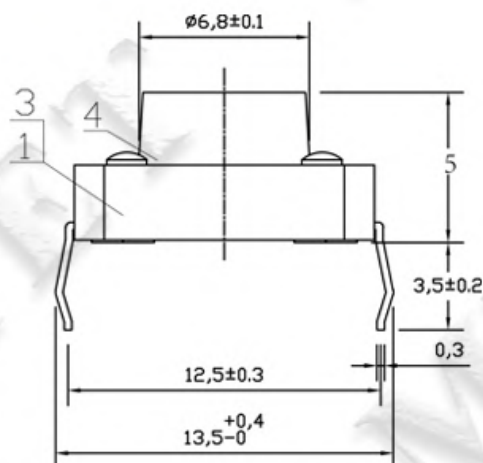
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1103-H16



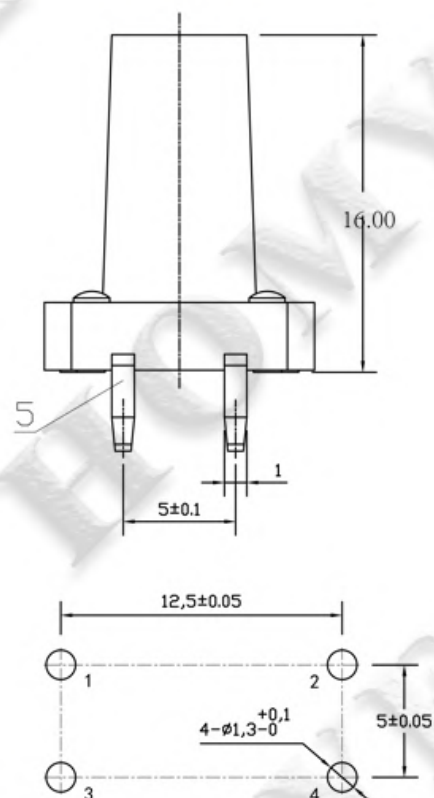
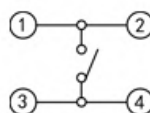
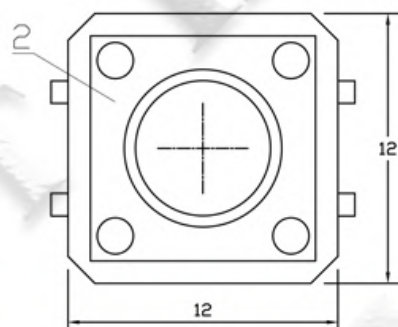
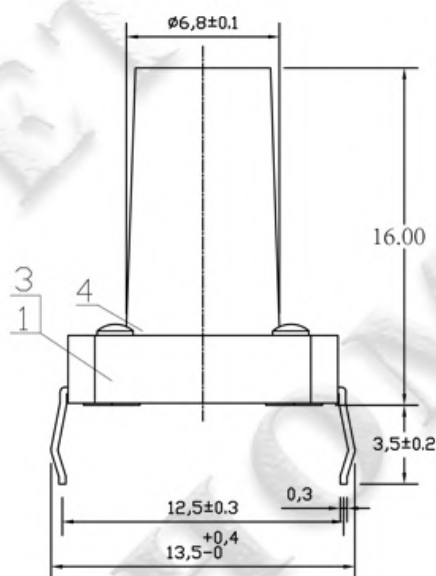
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

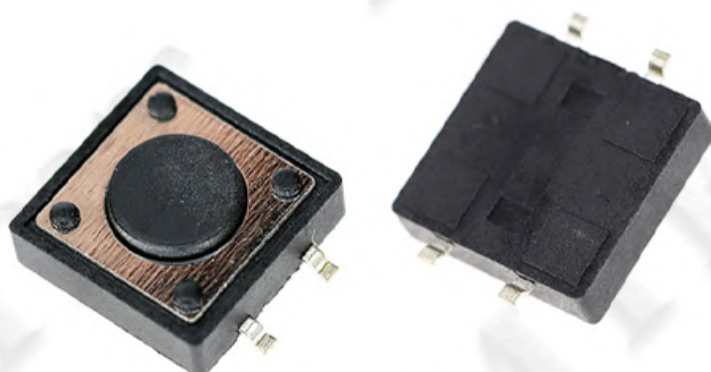


## HY-1103S



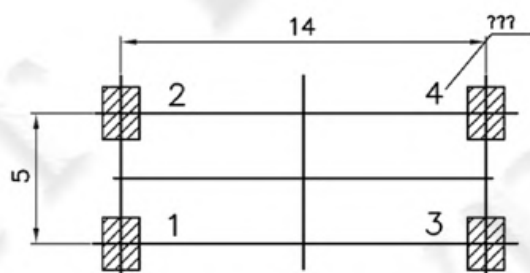
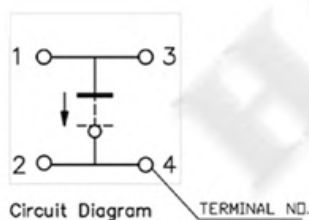
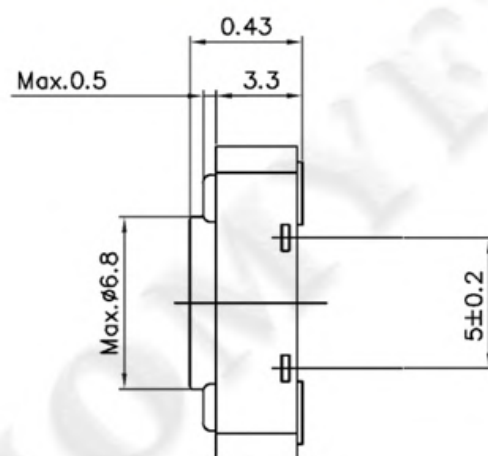
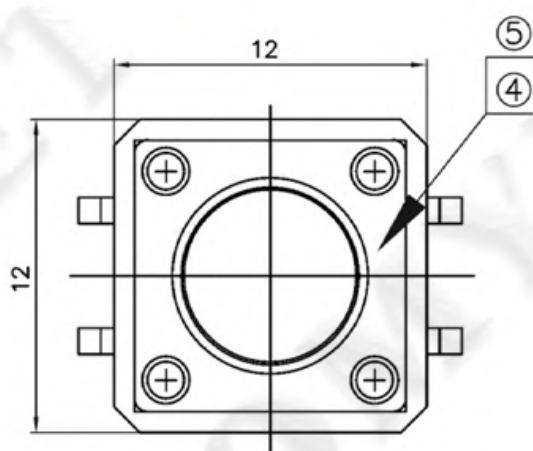
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000

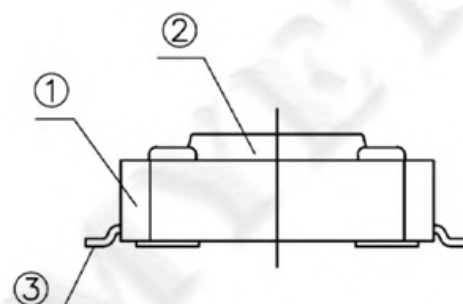


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



P.C.B Holes Diagram  
Bottom View



HY-1103T



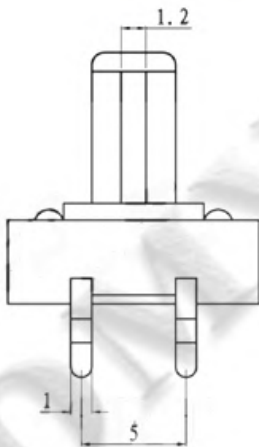
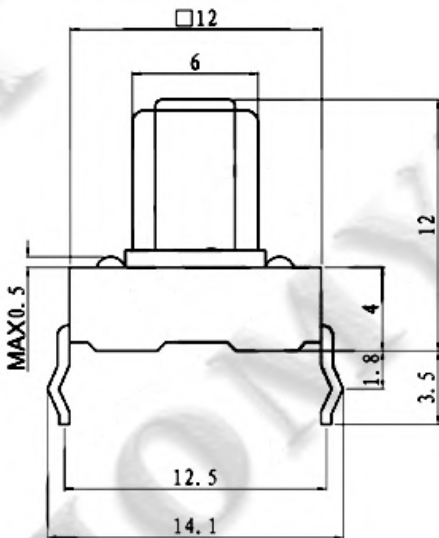
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤25 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±50gf
Operation life	100,000

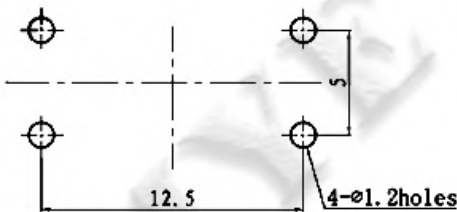
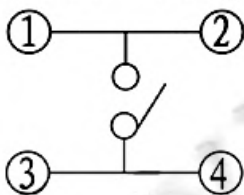


SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



## HY-1103TE



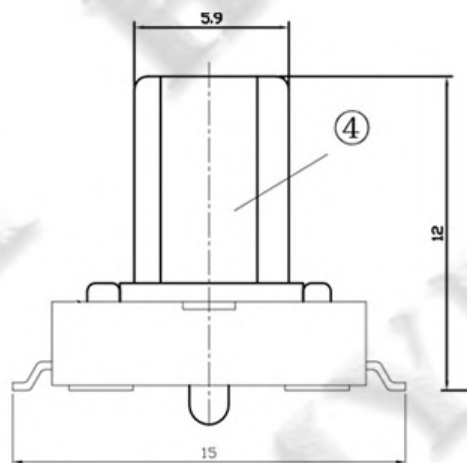
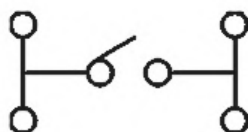
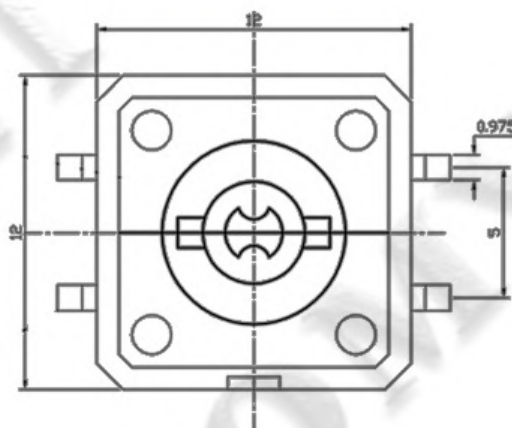
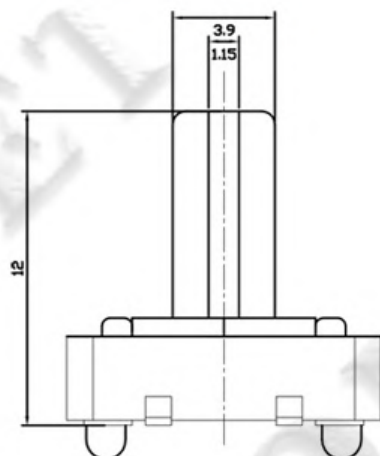
### SPECIFICATIONS

Rated Input Current	0.1A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 0.03\Omega$
Insulation Resistance	$\geq 100M\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	260g $\pm$ 30g
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1109



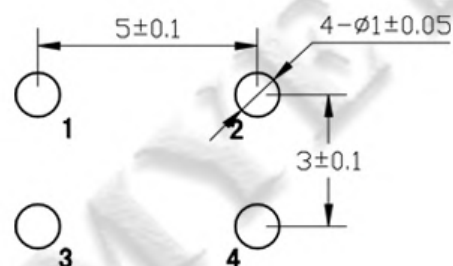
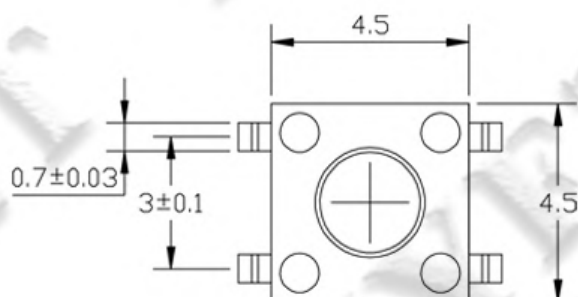
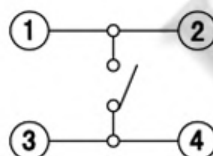
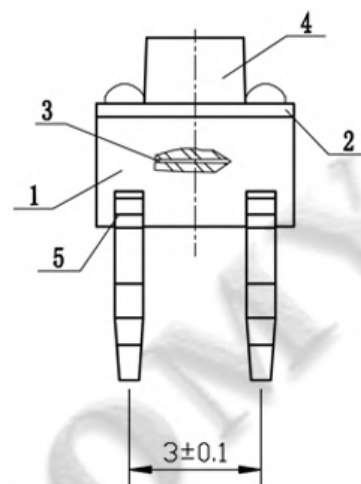
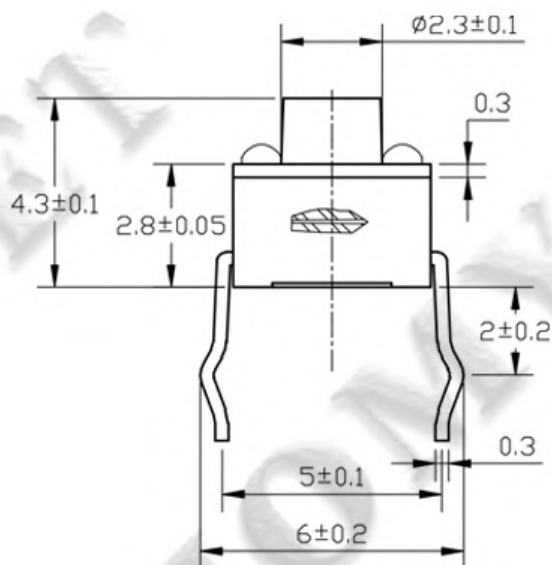
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

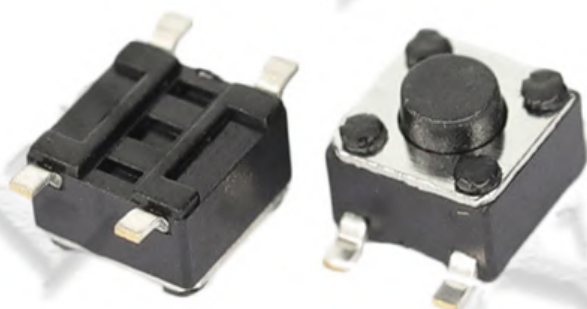


## HY-1109S



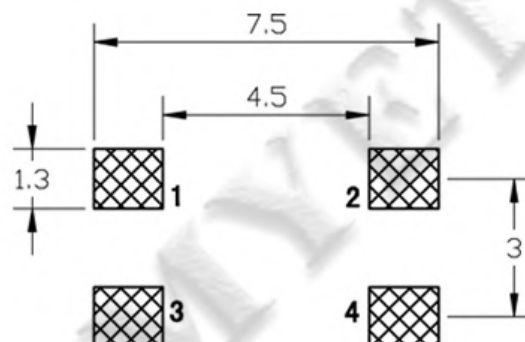
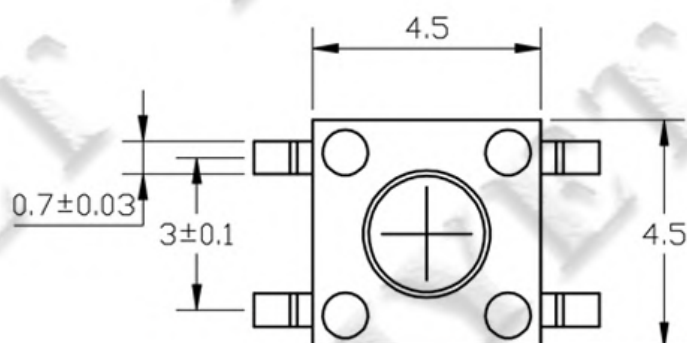
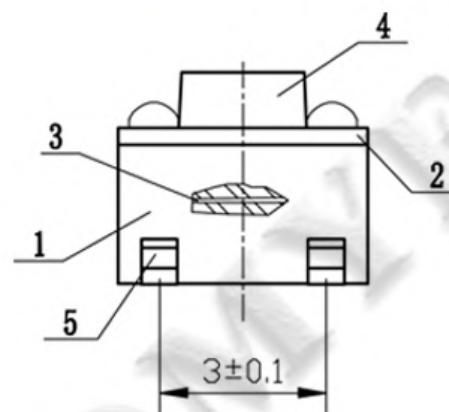
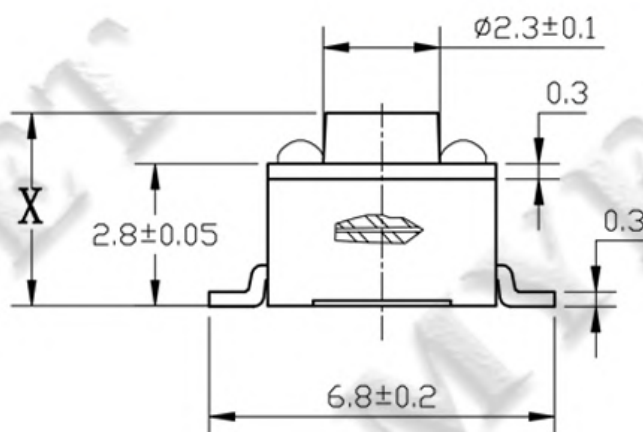
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



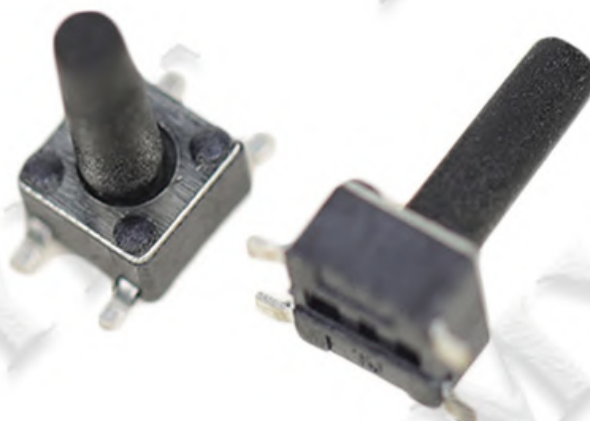
# TACT SWITCH

## HY-1109S-H10



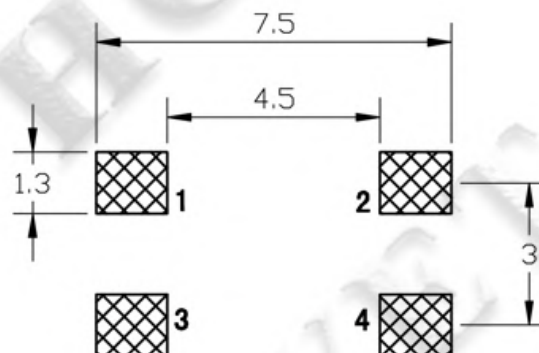
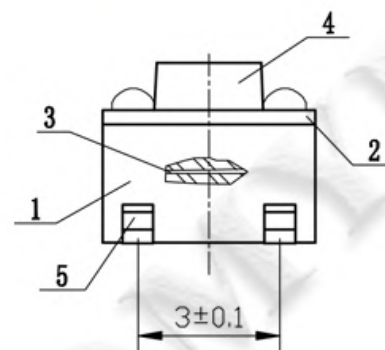
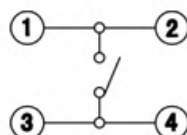
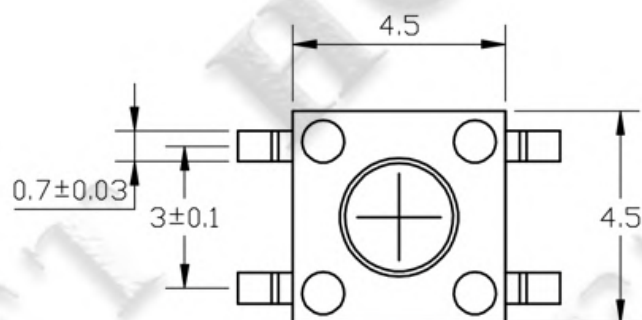
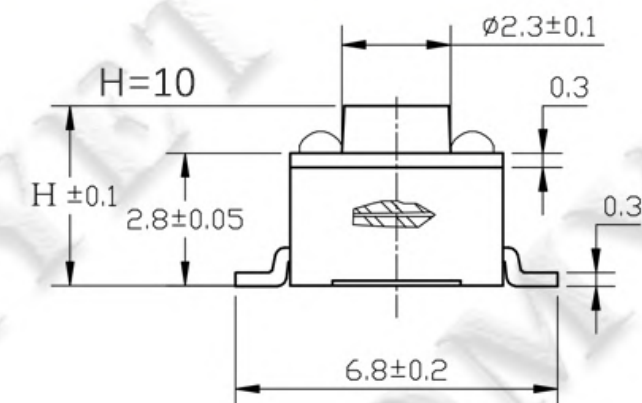
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1109V2



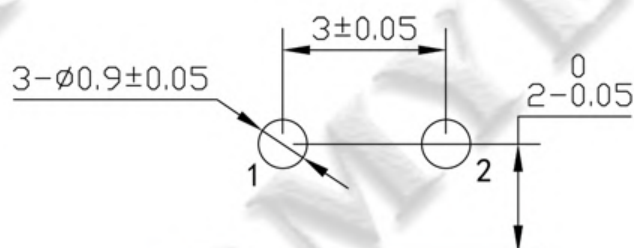
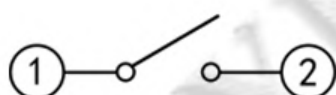
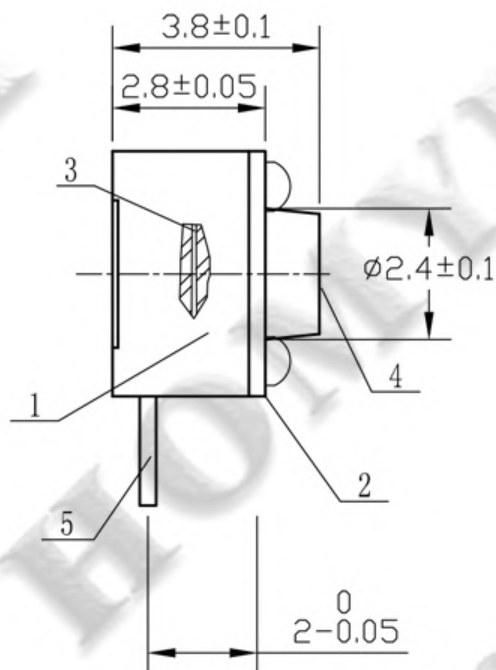
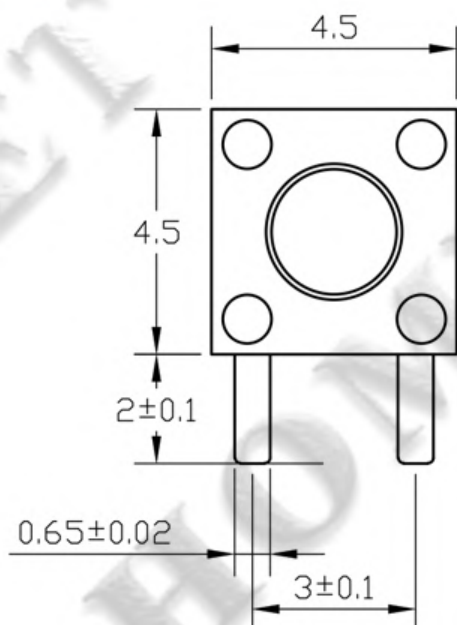
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

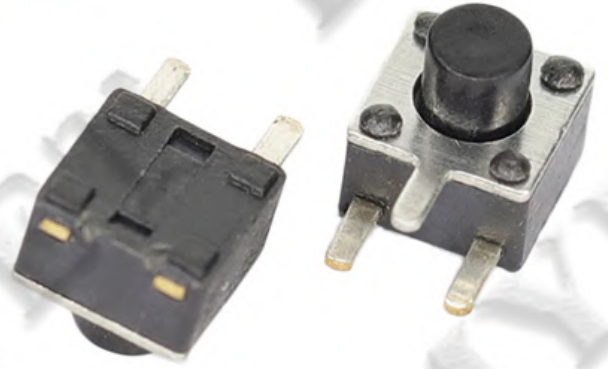


## HY-1109V3



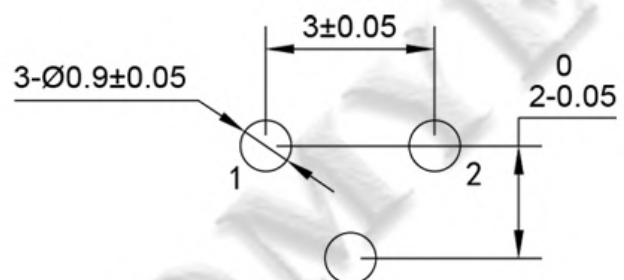
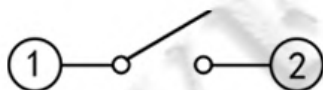
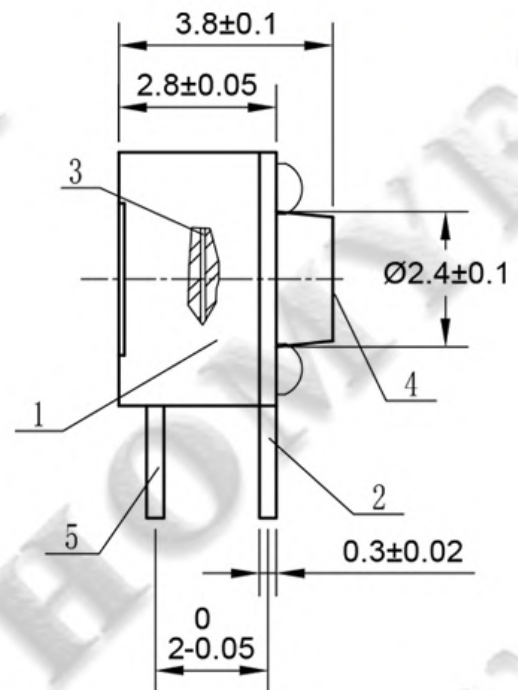
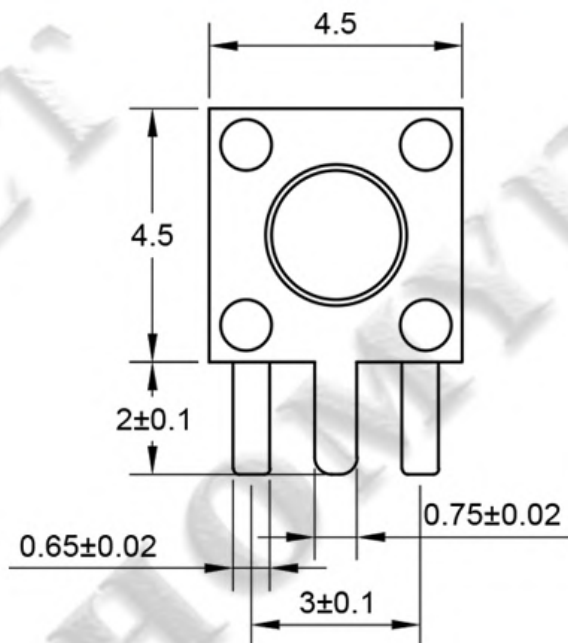
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1113F



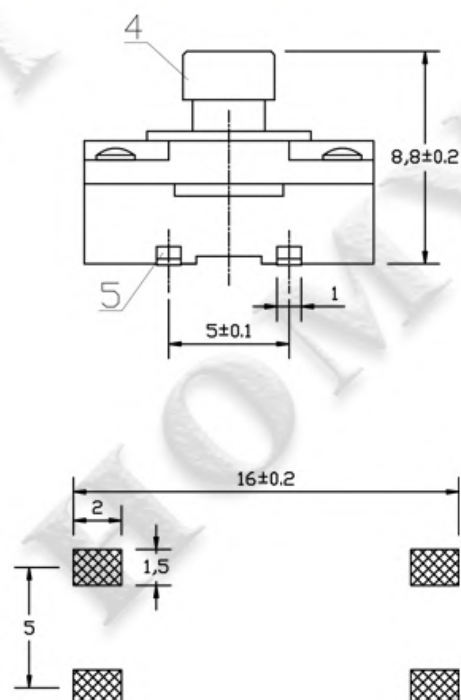
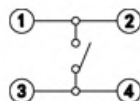
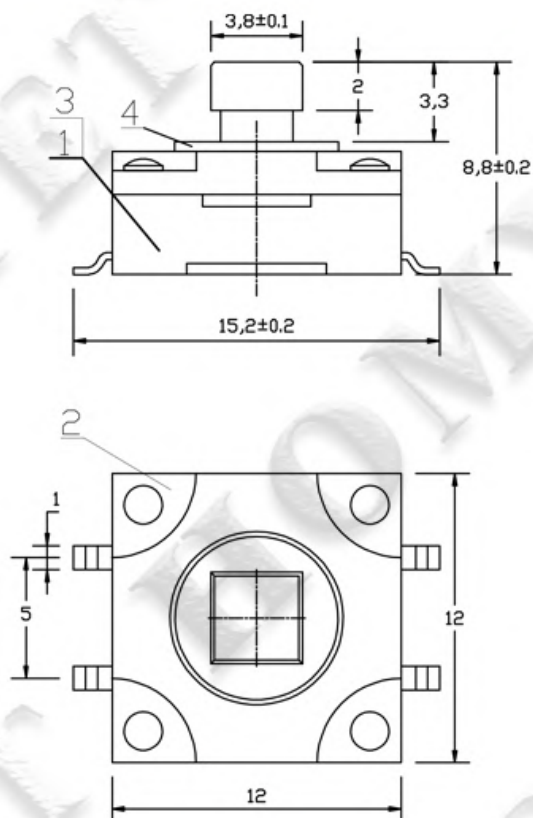
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

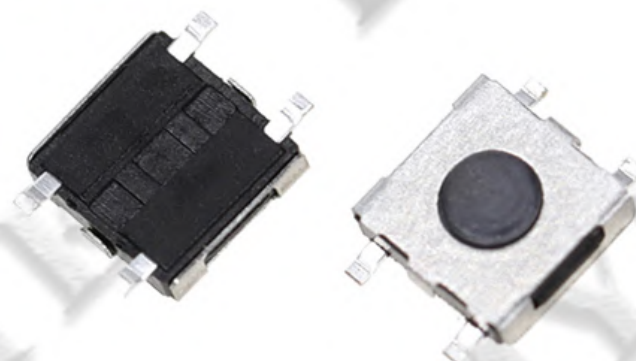


## HY-1156



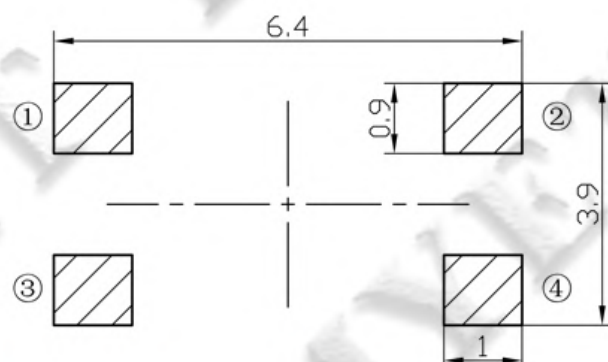
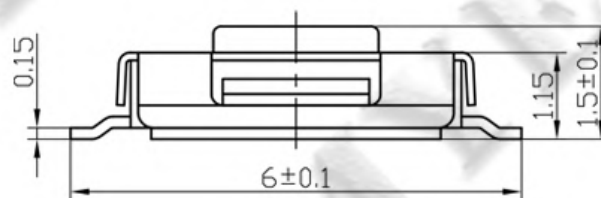
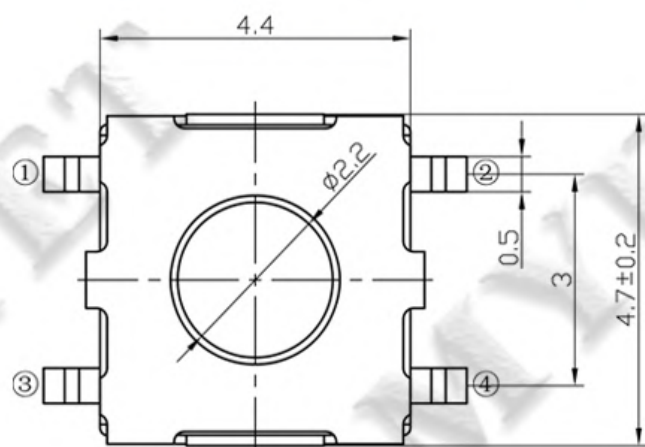
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 200 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

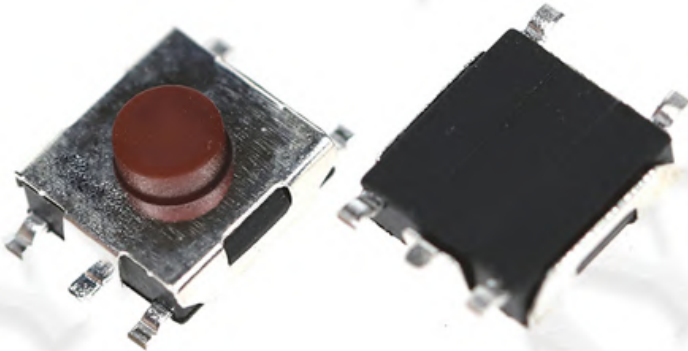


HY-1157-5H3.8



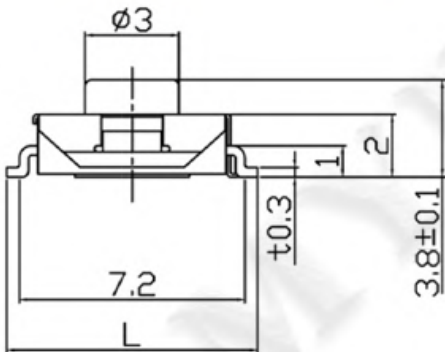
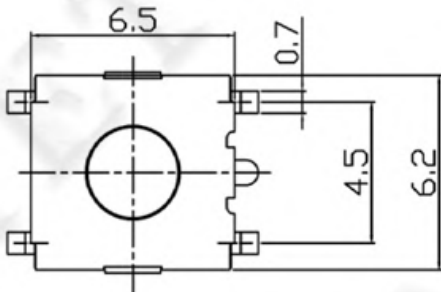
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤25 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±30gf
Operation life	50,000

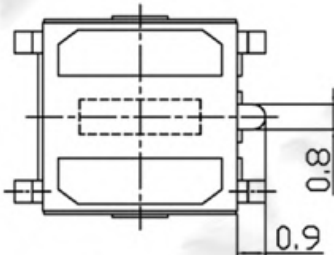
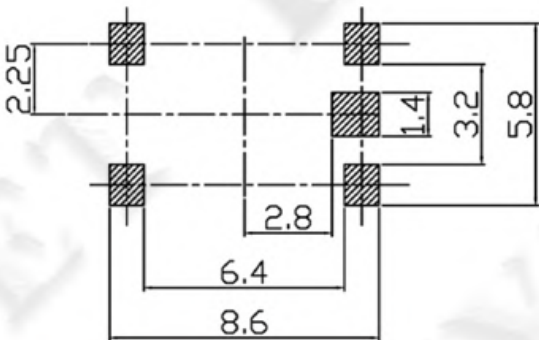
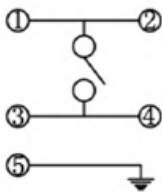


SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



P. C. B. Land pattern

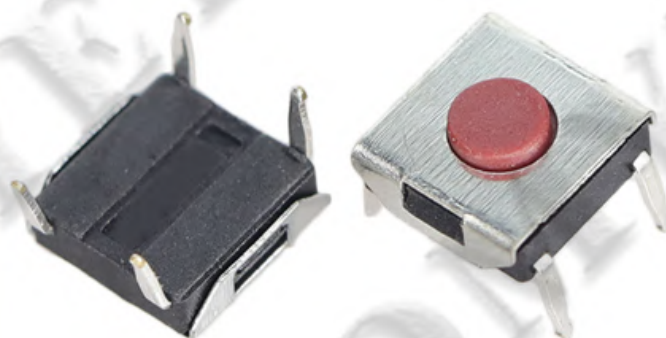
(ALL TOLERANCE=±0.05)

## HY-1157D



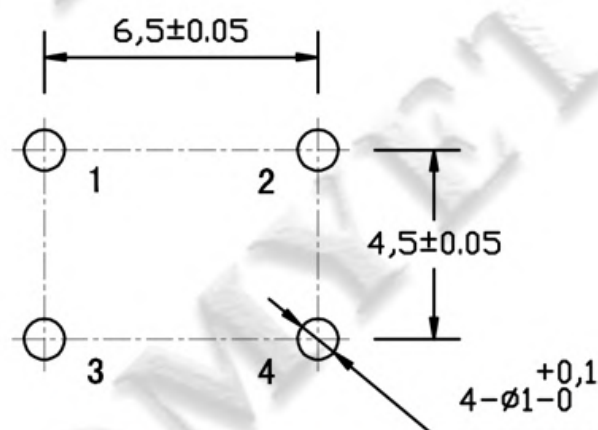
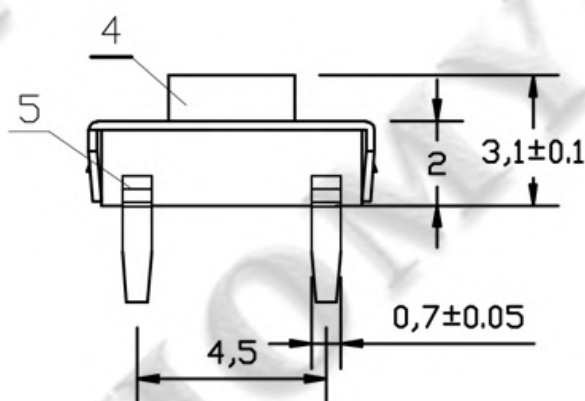
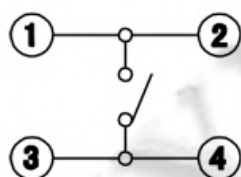
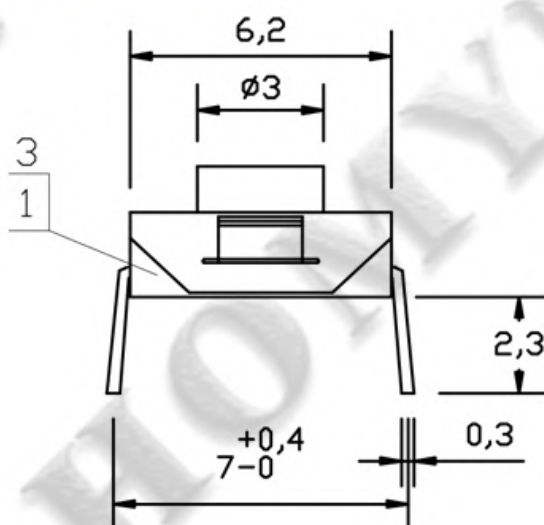
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

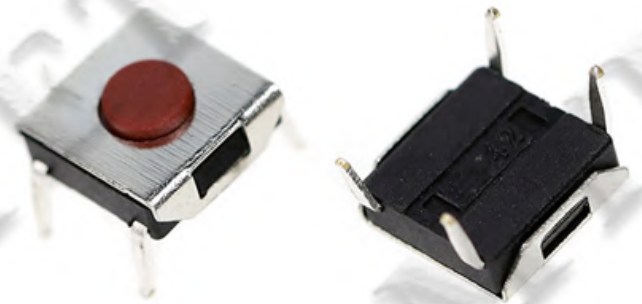


# HY-1157D-H3.1



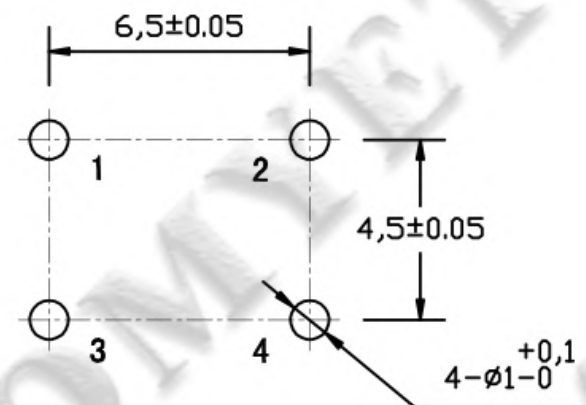
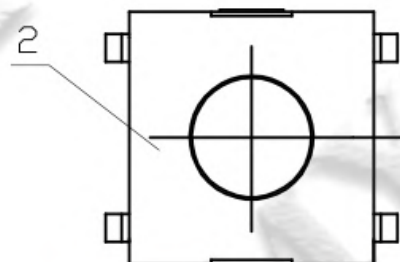
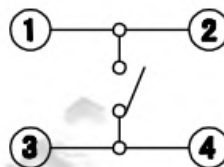
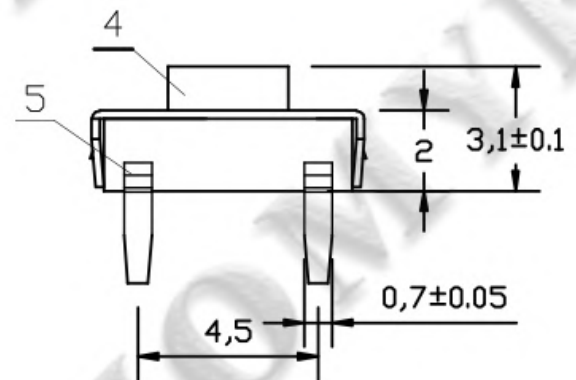
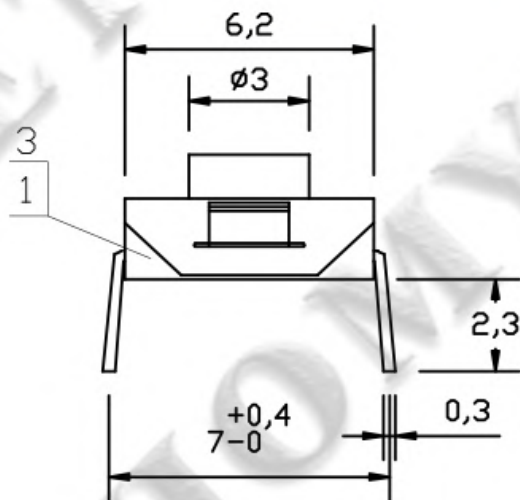
## SPECIFICATIONS

Rated Input Current	25mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1157G



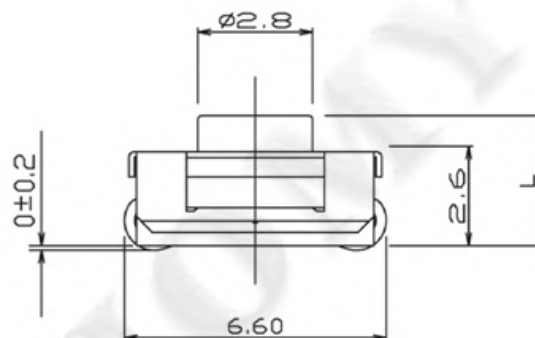
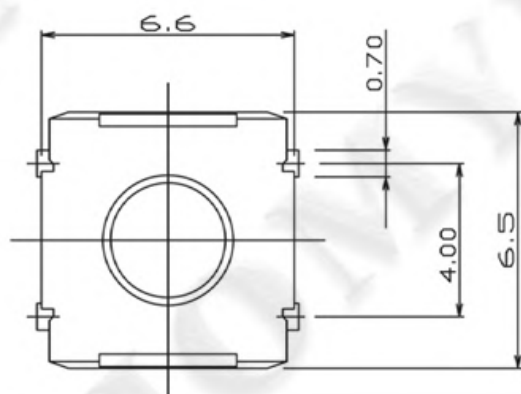
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000

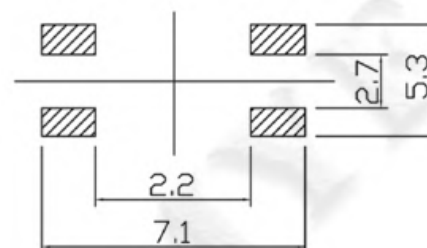
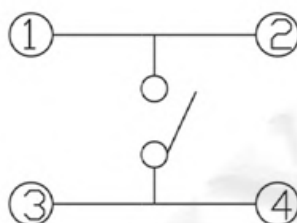


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### CIRCUIT DIAGRAM



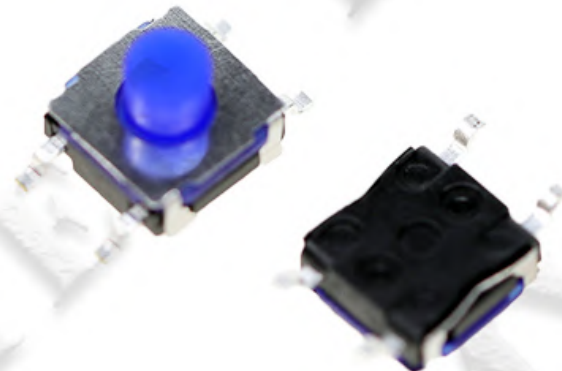
# TACT SWITCH

## HY-1157GS-G5



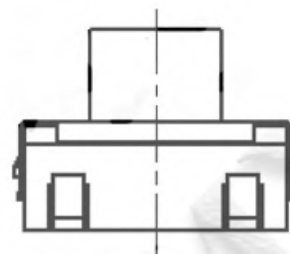
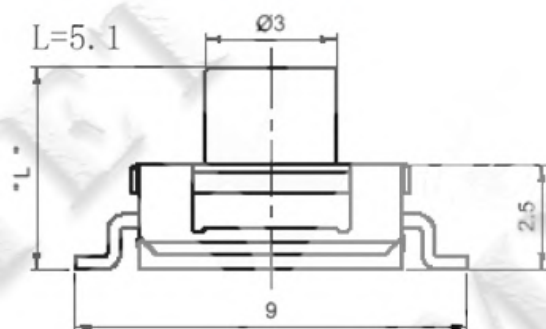
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	160/220/400gf $\pm$ 80gf
Full Travel	0.25 $\pm$ 0.1mm
Operation life	160/220gf:100,000 400gf:50,000

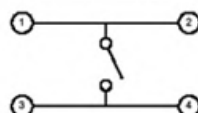


### SOLDERING CONDITIONS

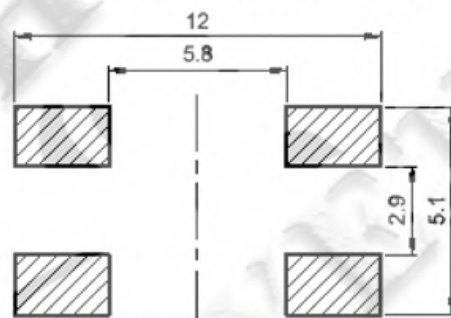
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



SMD REFLOW PATTERN (N/S :  $\pm 0.1$ )



## HY-1157-H3.1



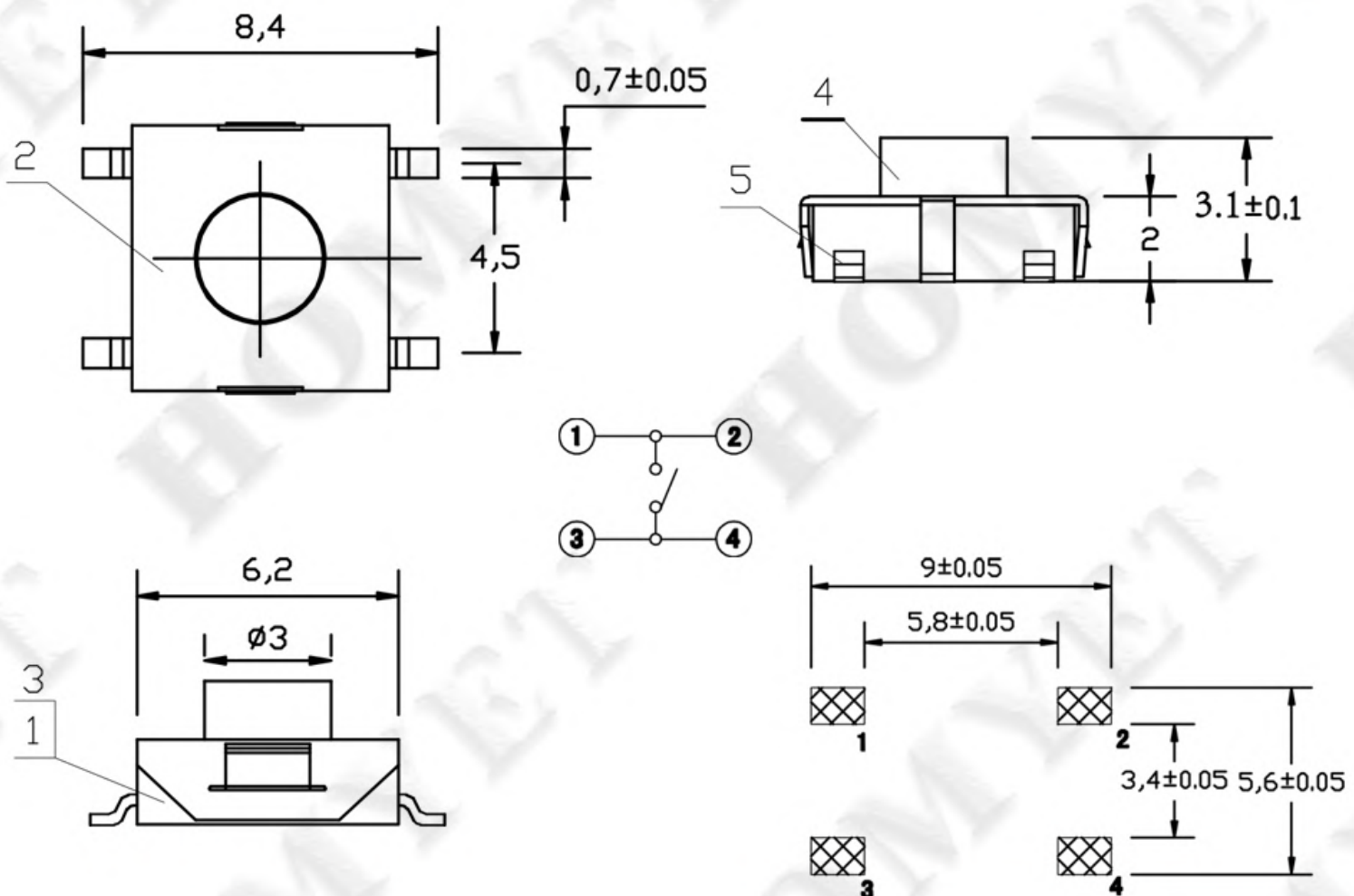
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1159G



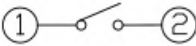
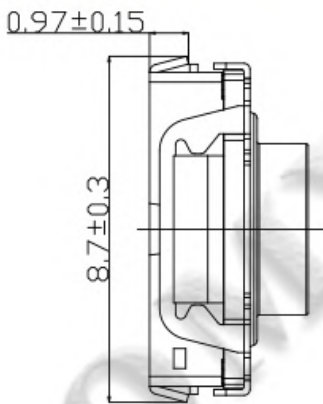
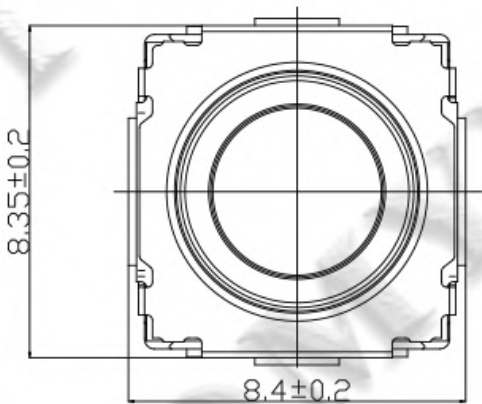
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 16 V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	400±80gf
Operation life	500,000

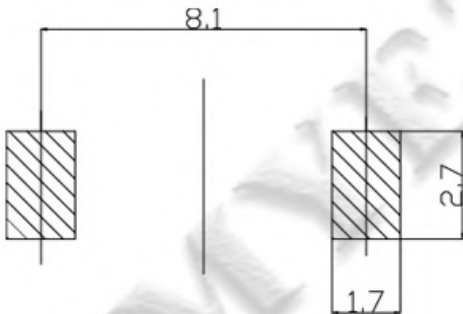
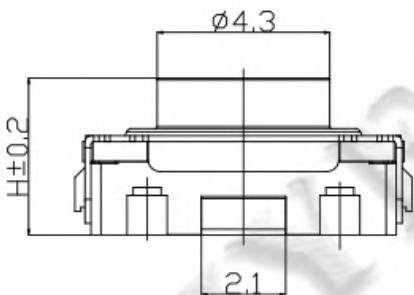


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



## HY-1177N



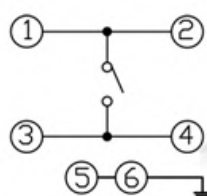
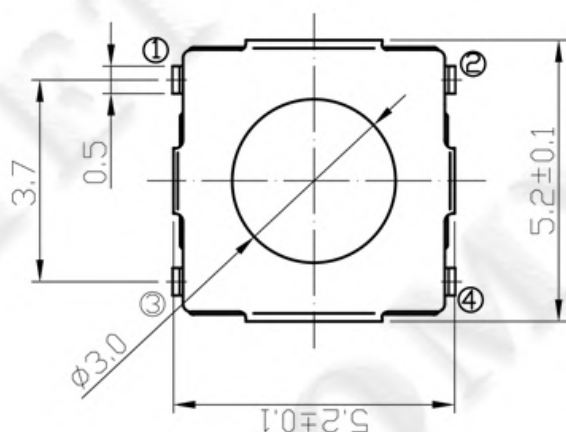
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	200,000

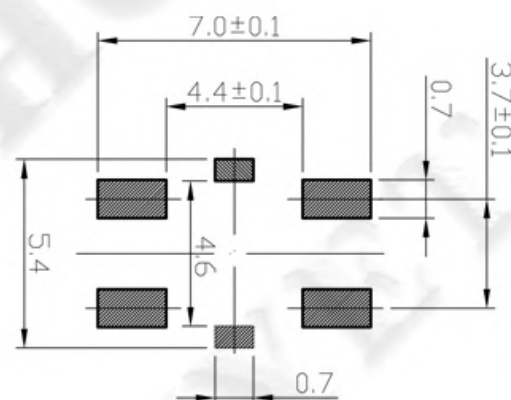
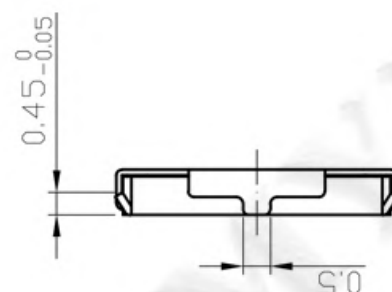
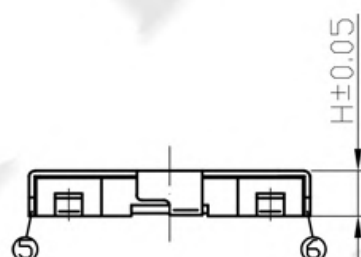


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



P.C.B LAND DIMENSION

# TACT SWITCH

**HY-1181**



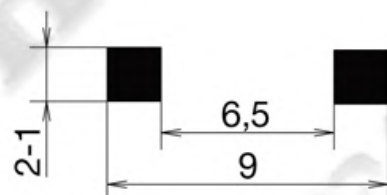
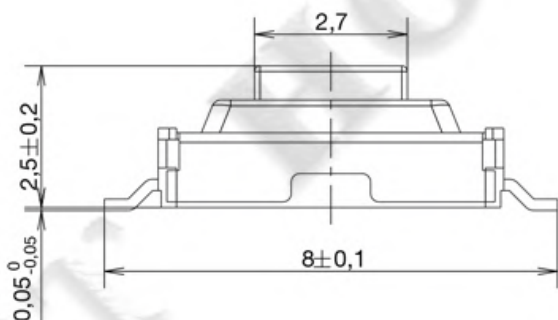
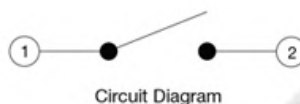
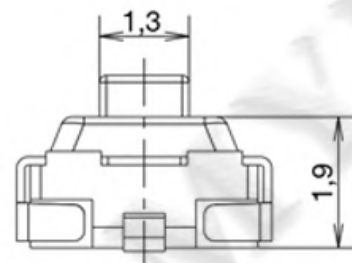
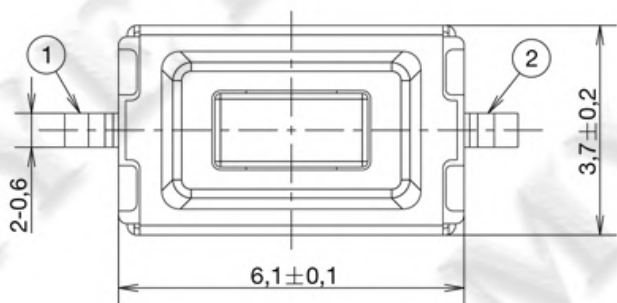
## SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$120 \pm 50\text{gf}$
Full Travel	$0.15 \pm 0.05\text{mm}$
Operation life	50,000



## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PCB LAND DIMENSION

# TACT SWITCH

**HY-1181P**



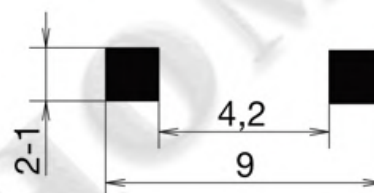
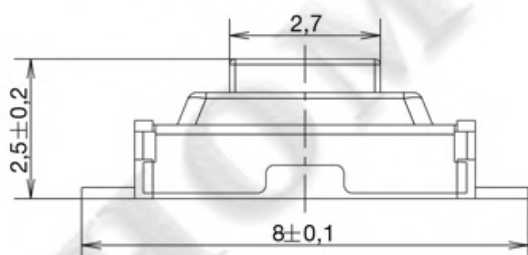
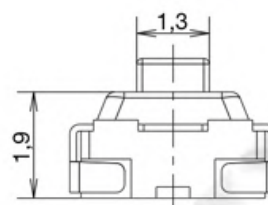
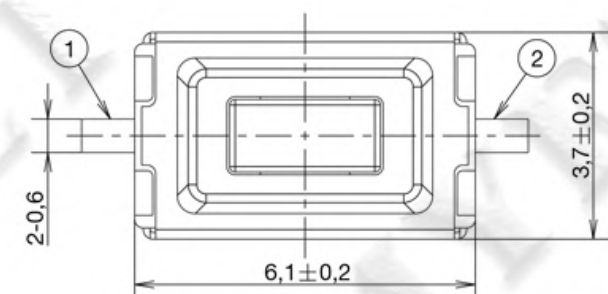
## SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$120 \pm 50\text{gf}$
Full Travel	$0.15 \pm 0.05\text{mm}$
Operation life	50,000

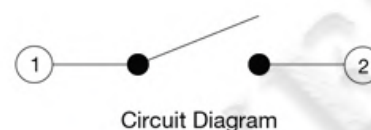
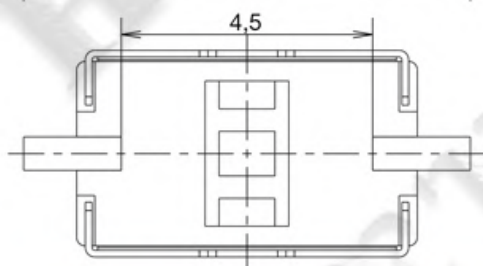


## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PCB LAND DIMENSION



Circuit Diagram

# TACT SWITCH

**HY-1181U**



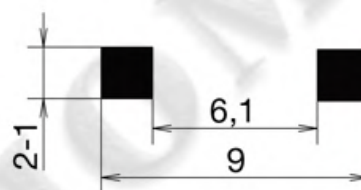
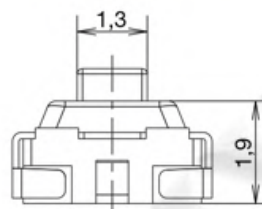
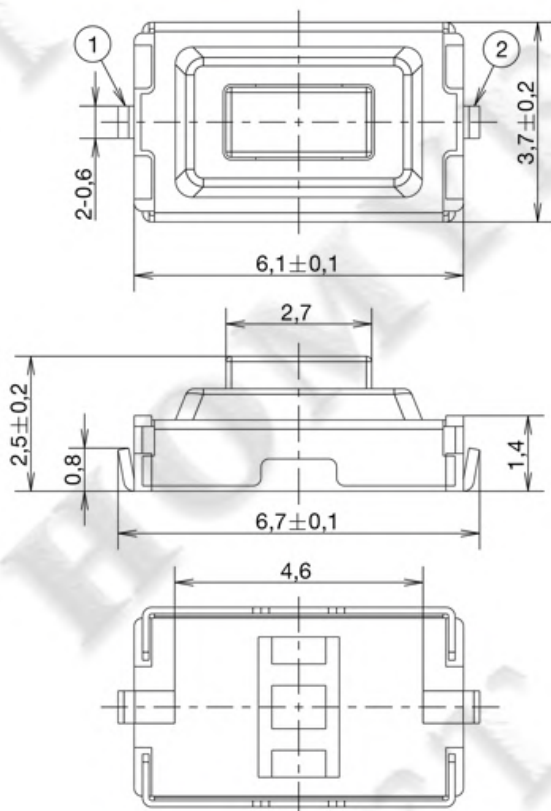
## SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$120 \pm 50\text{gf}$
Full Travel	$0.15 \pm 0.05\text{mm}$
Operation life	50,000

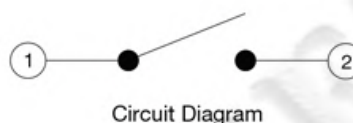


## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PCB LAND DIMENSION

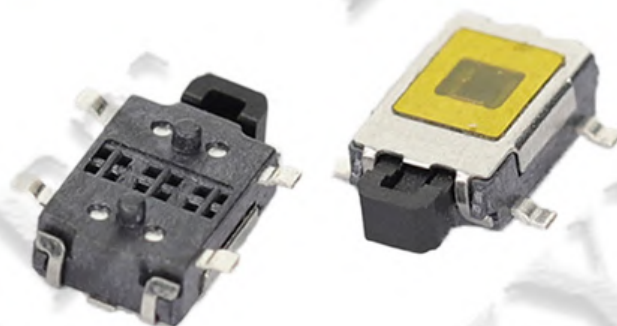


## HY-1184E



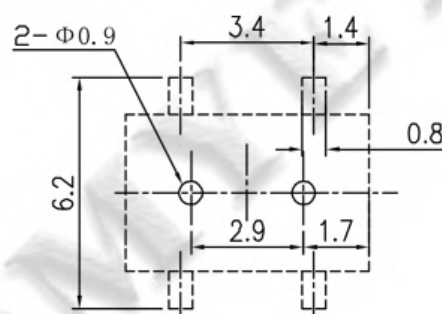
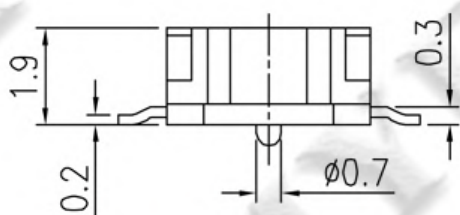
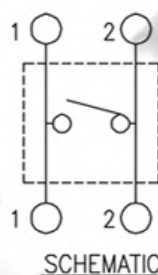
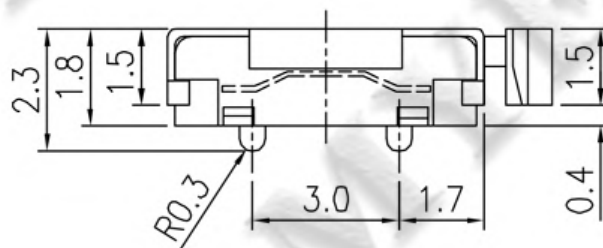
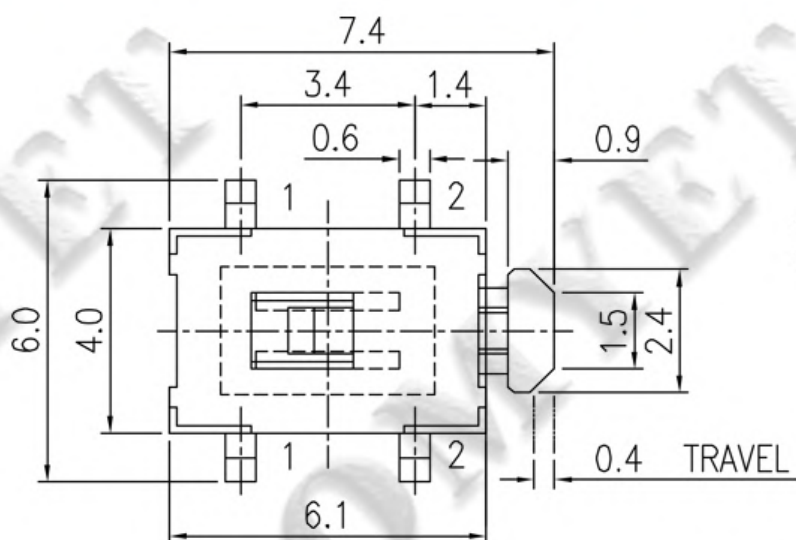
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

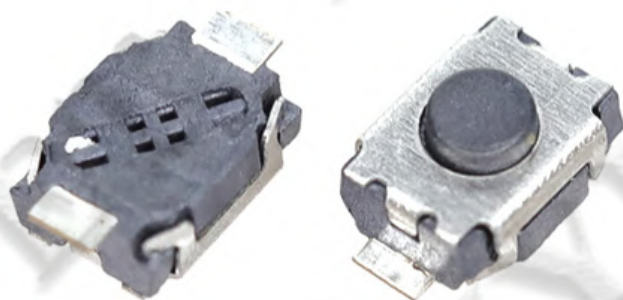


## HY-1185



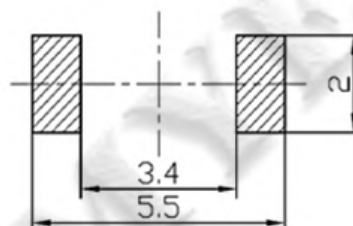
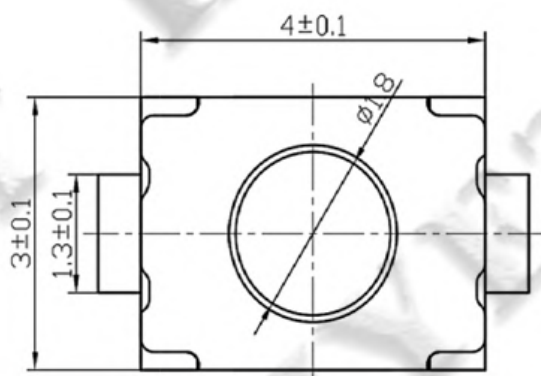
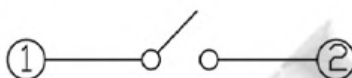
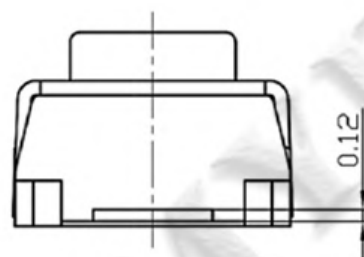
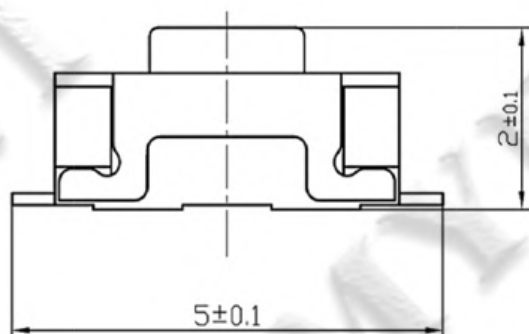
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000



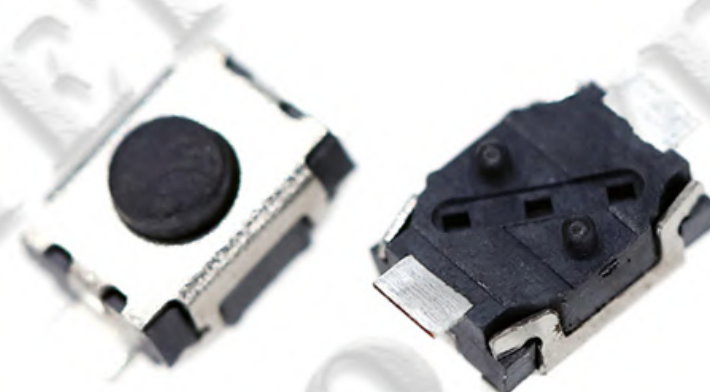
### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

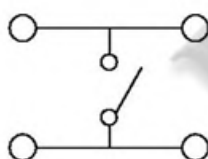
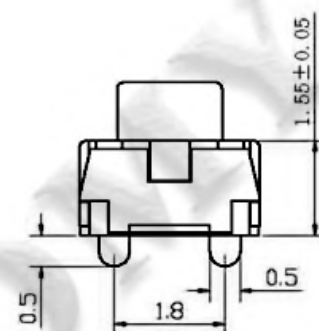
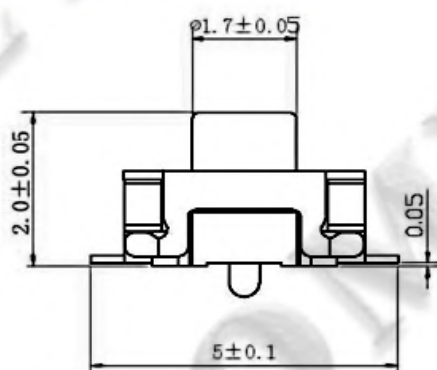


**HY-1185E****SPECIFICATIONS**

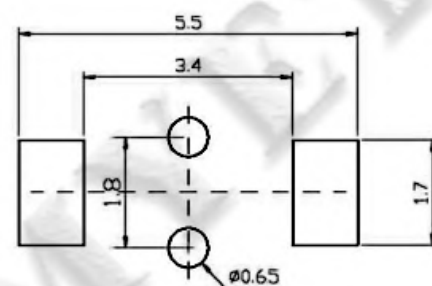
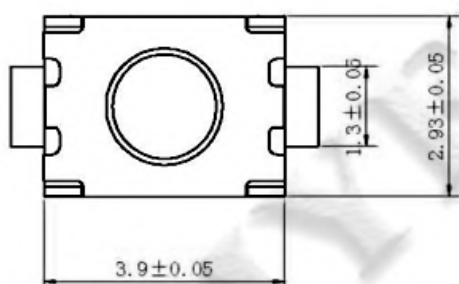
Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	160 $\pm$ 30gf/250 $\pm$ 50gf
Operation life	100,000

**SOLDERING CONDITIONS**

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



P. C. B. Land Patten

# TACT SWITCH

**HY-1185P**



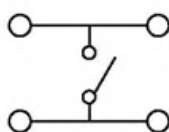
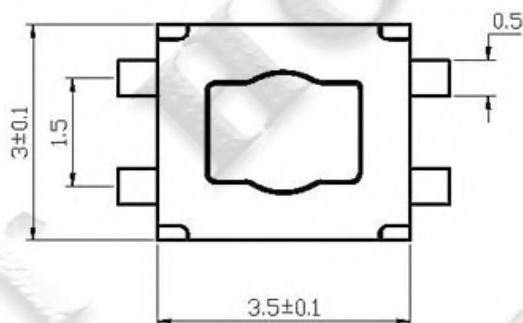
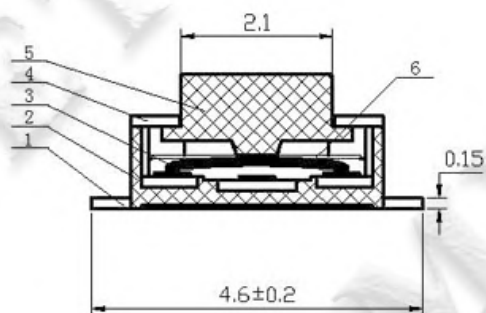
## SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$160 \pm 30\text{gf} / 250 \pm 50\text{gf}$
Full Travel	$0.15 \pm 0.05\text{mm}$
Operation life	100,000

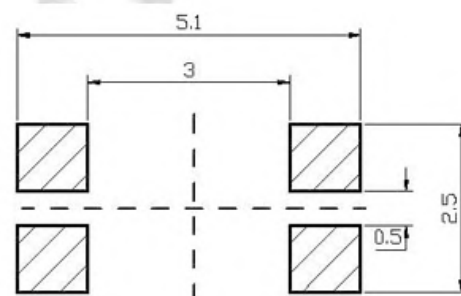
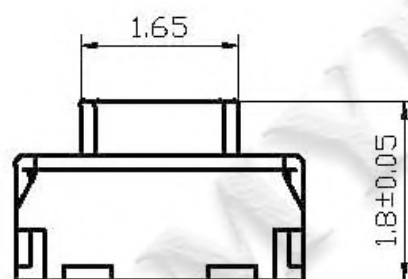


## SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



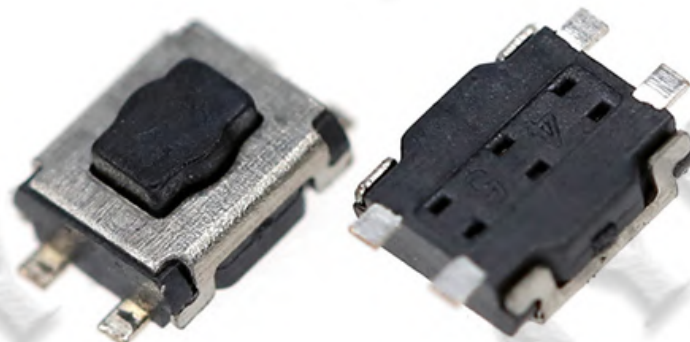
P. C. B. Land Pattern

## HY-1185PM



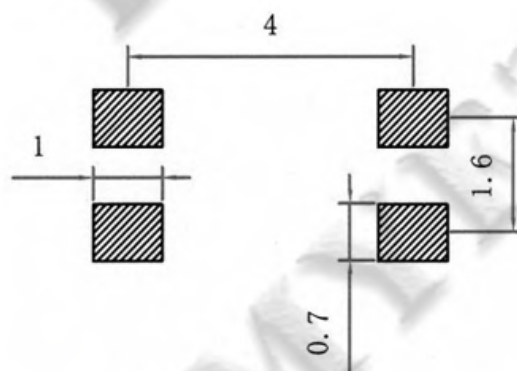
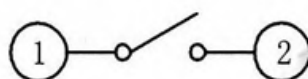
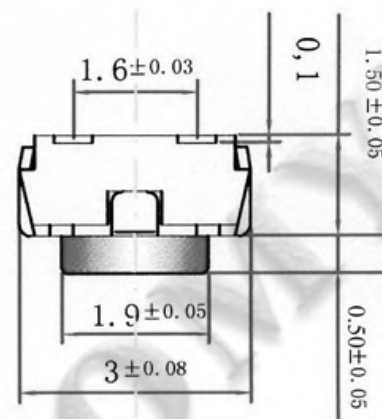
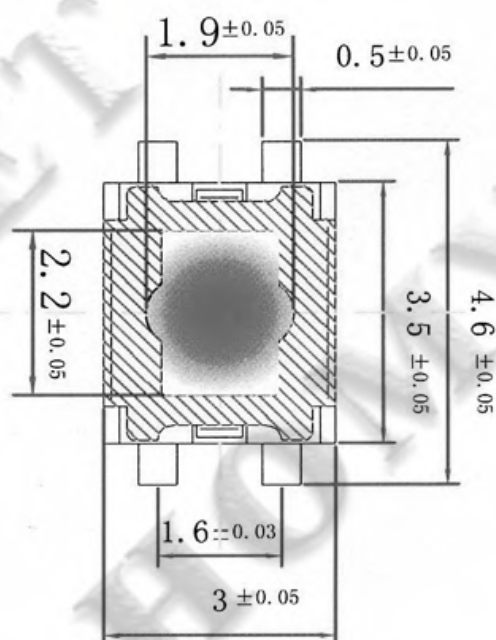
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12 V
Contact Resistance	$\leq 40 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1185PM-H2.5



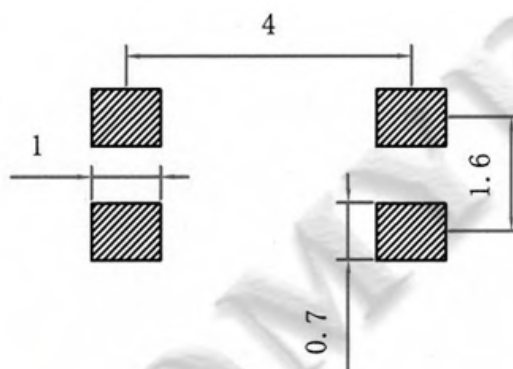
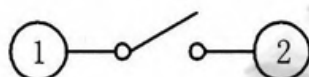
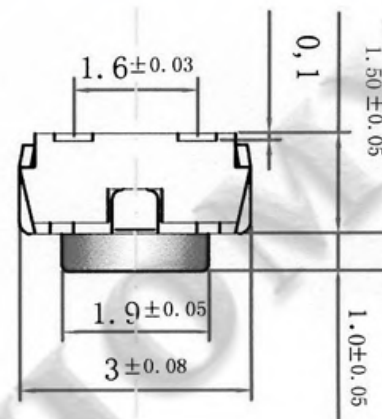
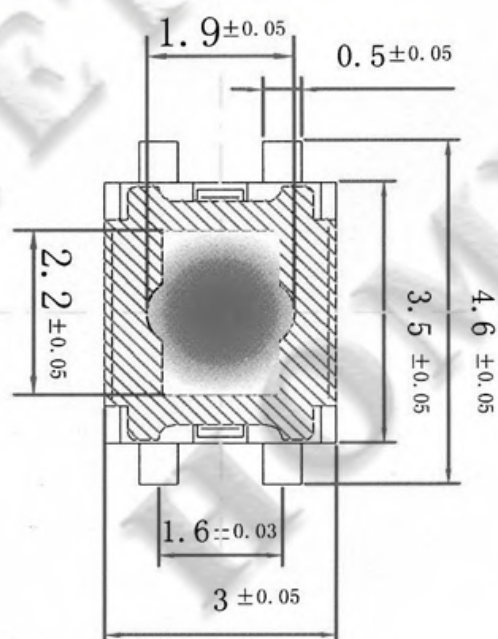
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12 V
Contact Resistance	$\leq 40 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	<ol style="list-style-type: none"> <li>(1) Soldering temperature: 350°C Max.</li> <li>(2) Continuous soldering time: 5 s Max.</li> </ol>
Automatic soldering	<ol style="list-style-type: none"> <li>(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec</li> <li>(2) Peak temperature ---260°C (max)</li> <li>(3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)</li> </ol>



HY-1185U



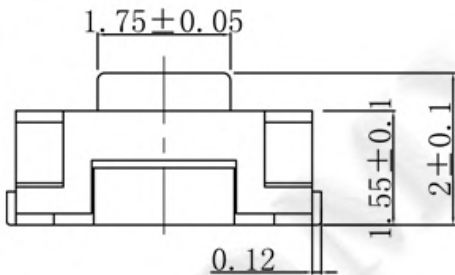
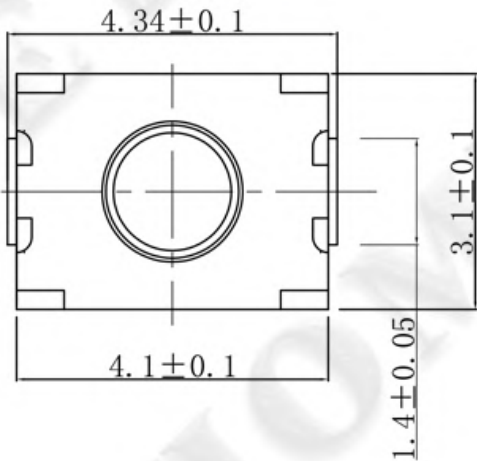
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	180/250±30gf
Operation life	50,000

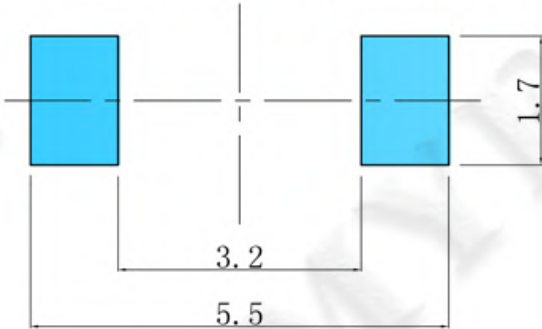


SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



P. C. B. Land pattern



Circuit Diagram



## HY-1185UPM



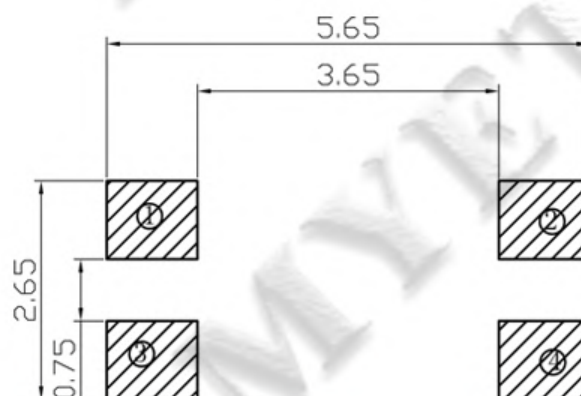
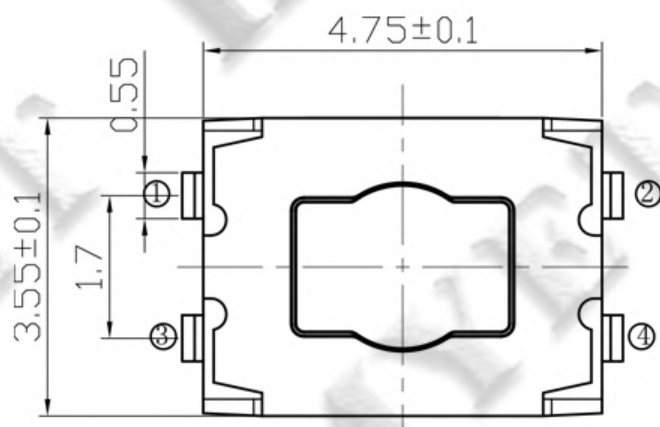
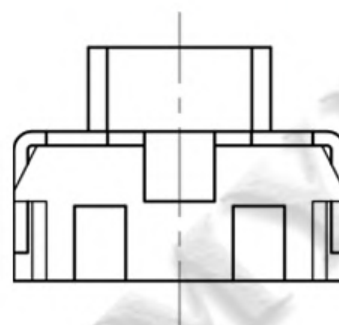
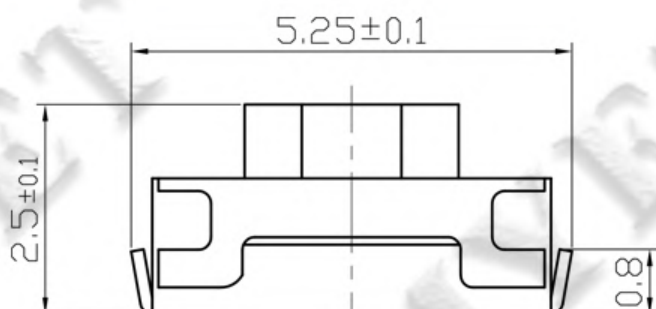
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



HY-1186E



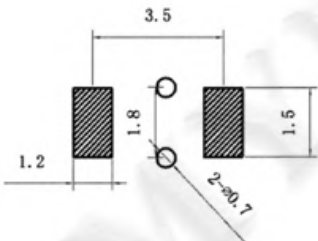
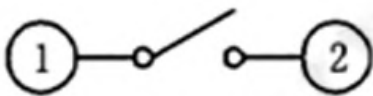
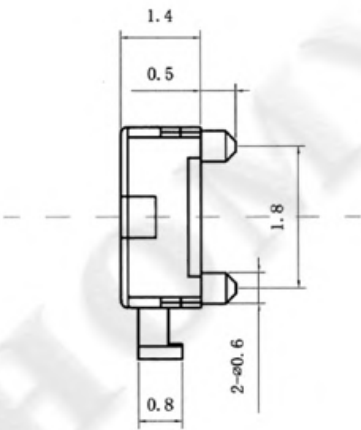
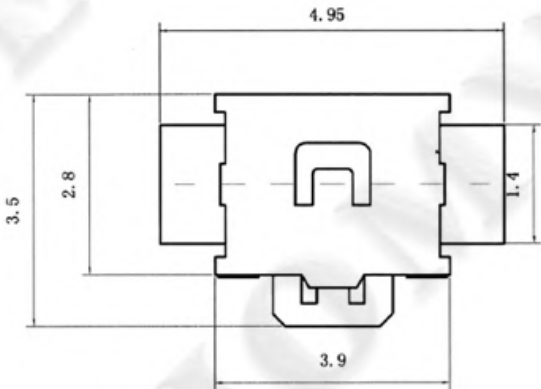
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤ 0.03Ω
Insulation Resistance	≥ 100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	180/200±10gf
Operation life	100,000



SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

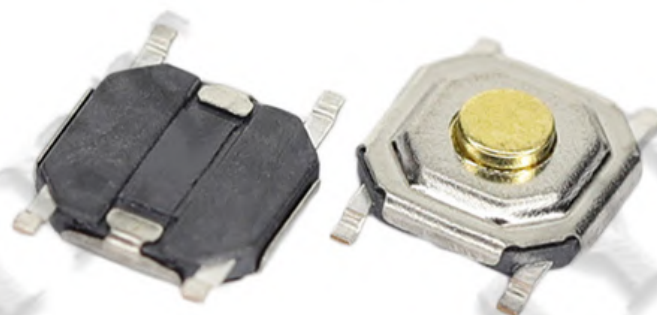


## HY-1187



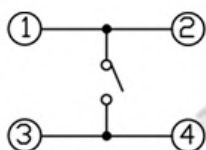
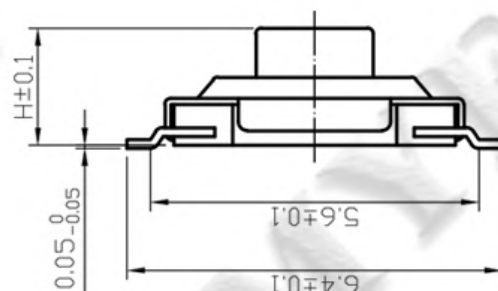
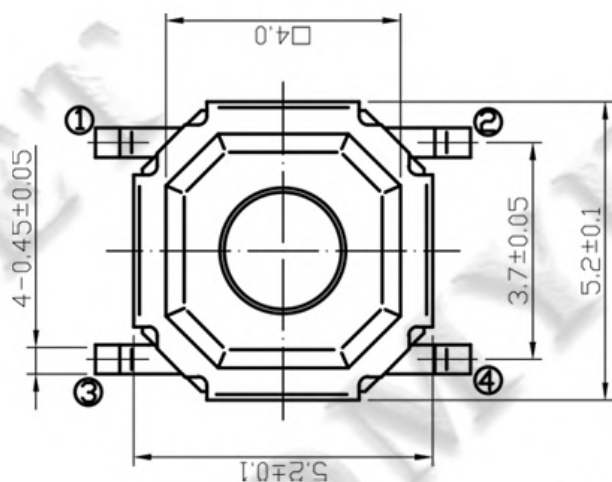
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000

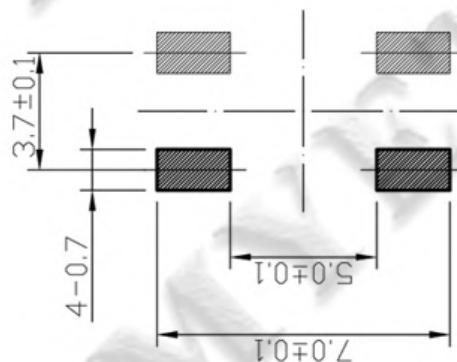
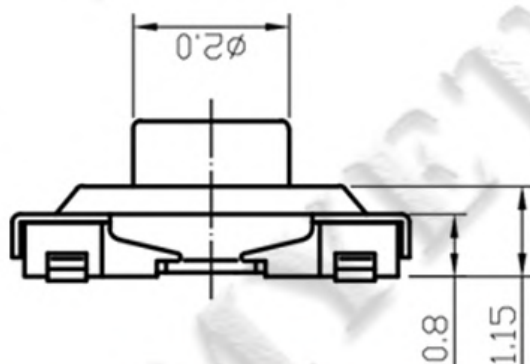


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



P.C.B LAND DIMENSION

## HY-1187A



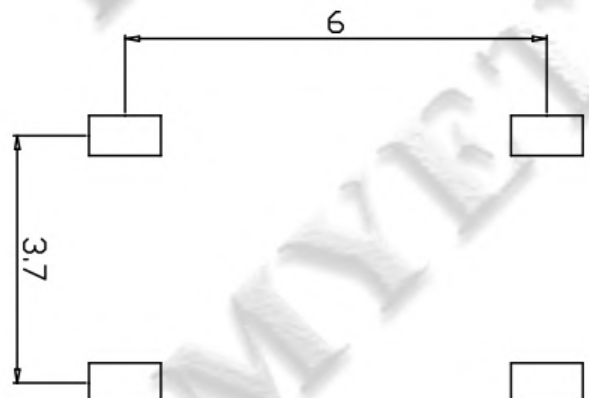
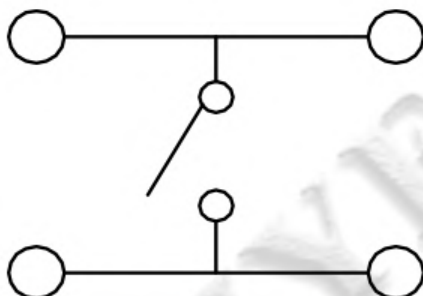
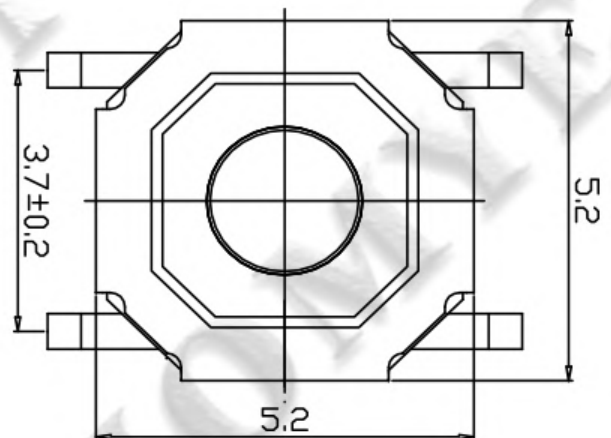
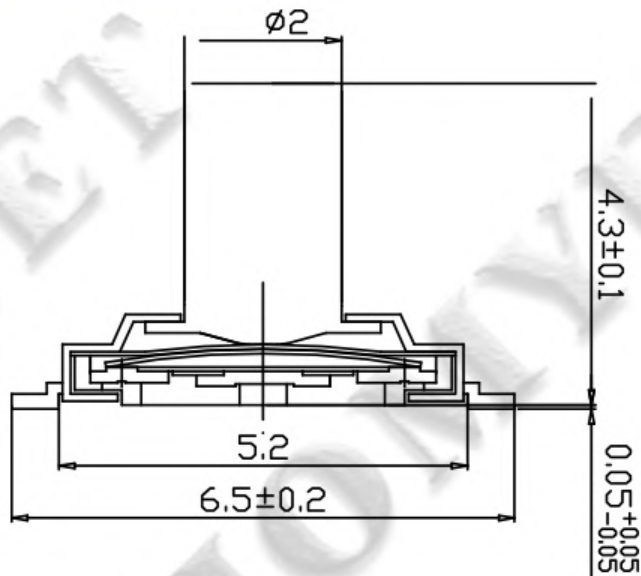
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1187UN



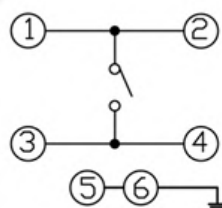
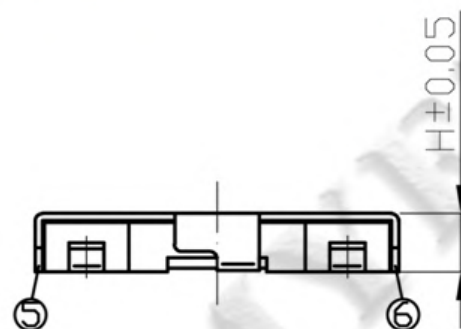
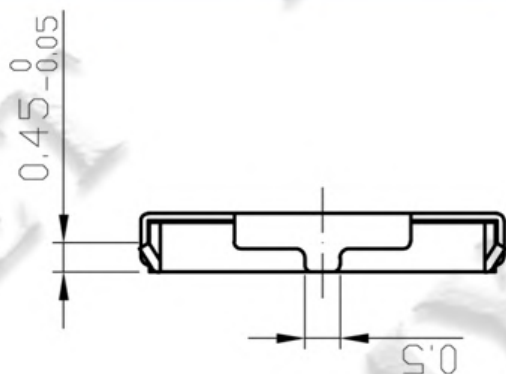
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	200,000

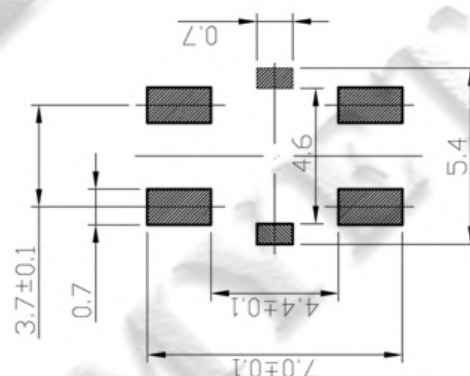
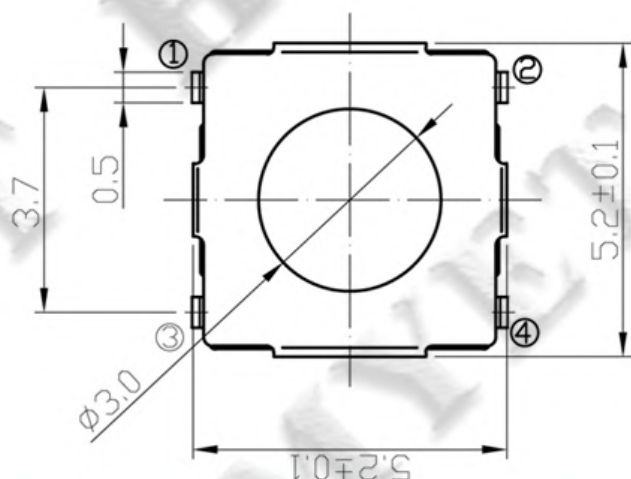


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



P.C.B LAND DIMENSION

## HY-1187W



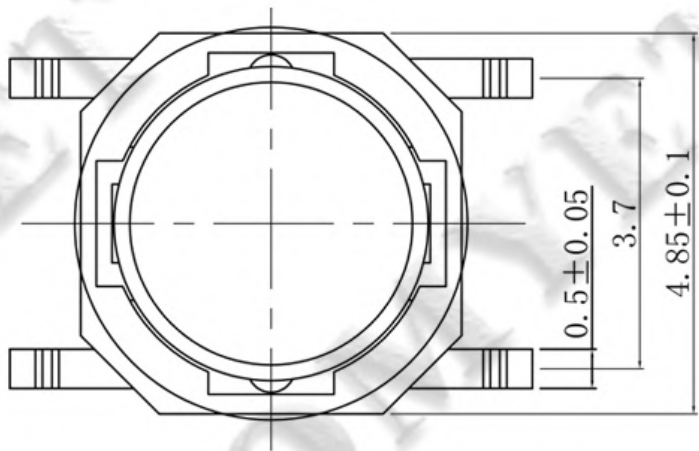
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	100,000

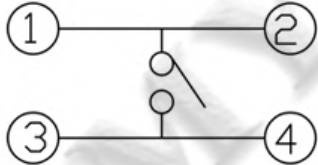


### SOLDERING CONDITIONS

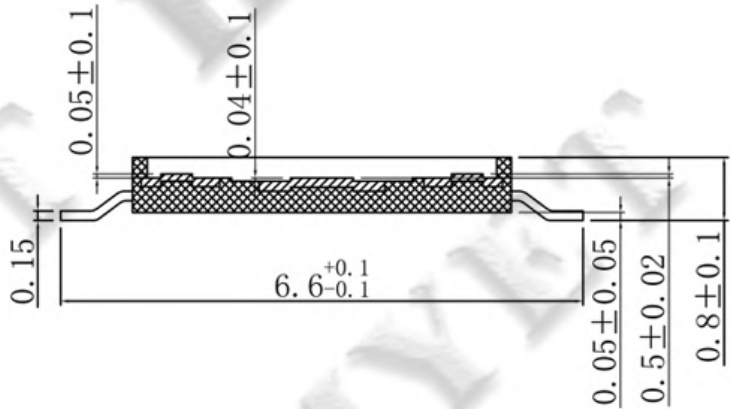
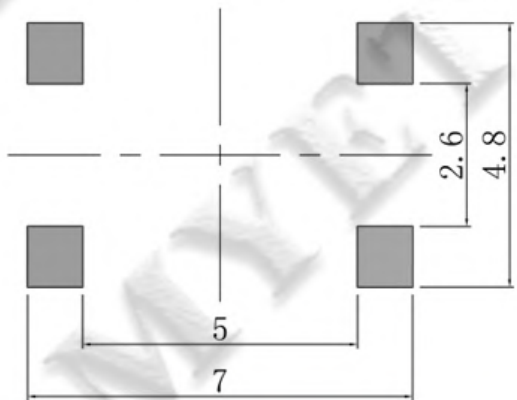
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### CIRCUIT DIAGRAM



### P.C.B Land Pattern



## HY-1188E



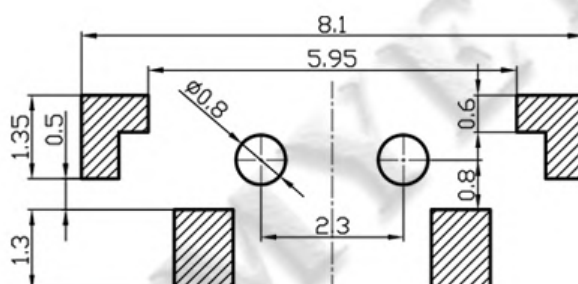
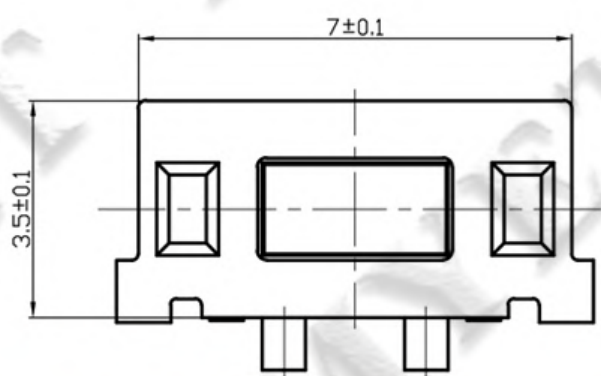
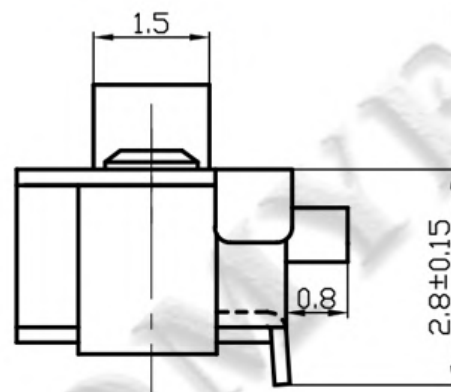
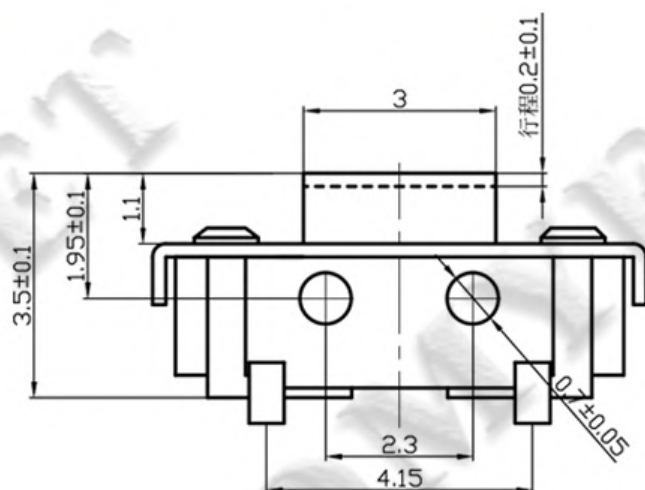
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1188NE



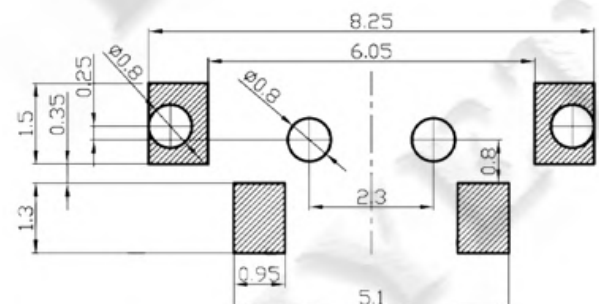
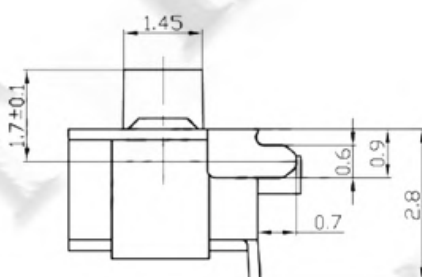
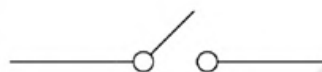
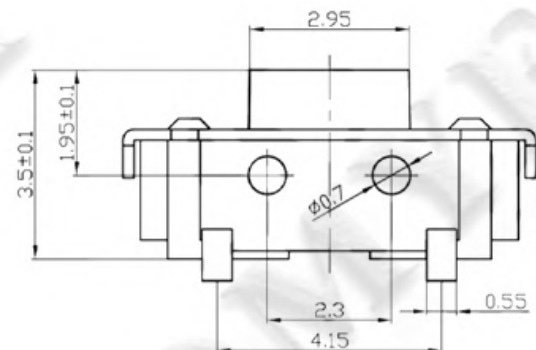
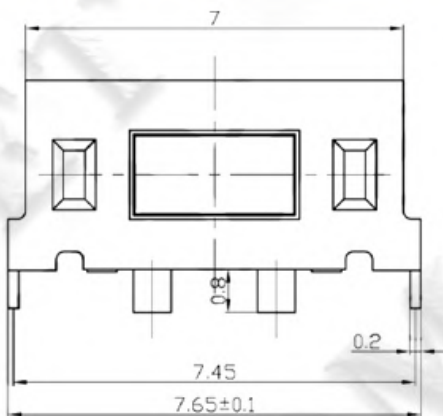
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

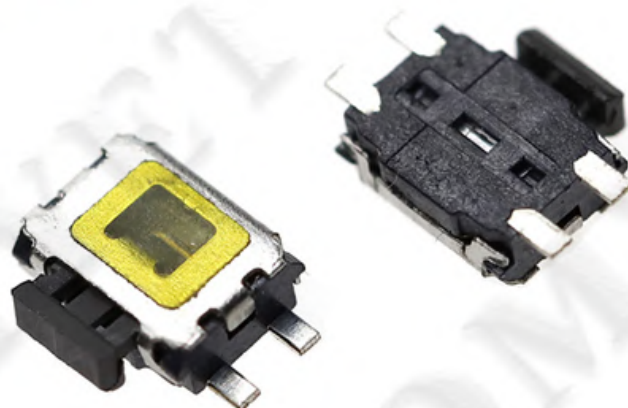


## HY-1189



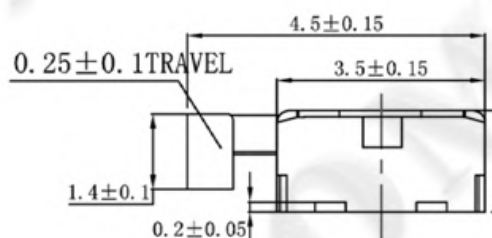
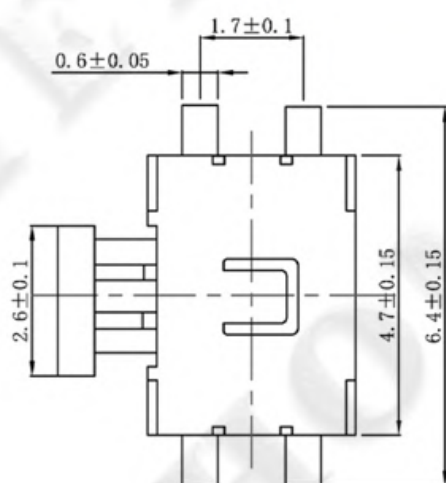
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	50,000

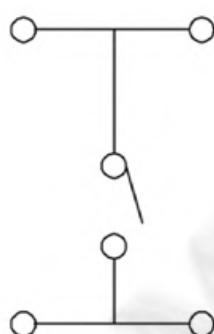


### SOLDERING CONDITIONS

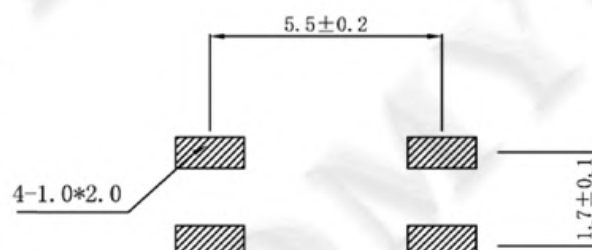
Hand soldering	<ol style="list-style-type: none"> <li>(1) Soldering temperature: 350°C Max.</li> <li>(2) Continuous soldering time: 5 s Max.</li> </ol>
Automatic soldering	<ol style="list-style-type: none"> <li>(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec</li> <li>(2) Peak temperature ---260°C (max)</li> <li>(3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)</li> </ol>



Circuit Diagram



P. C. B. Land Pattern

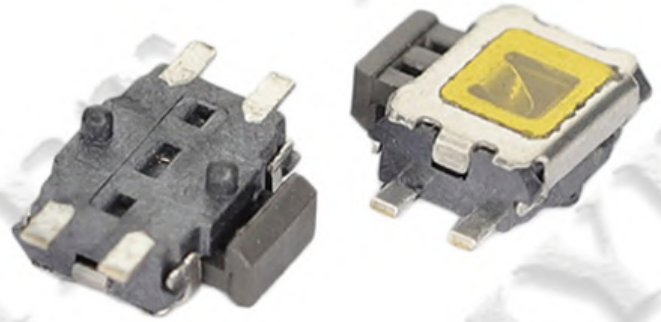


## HY-1189E



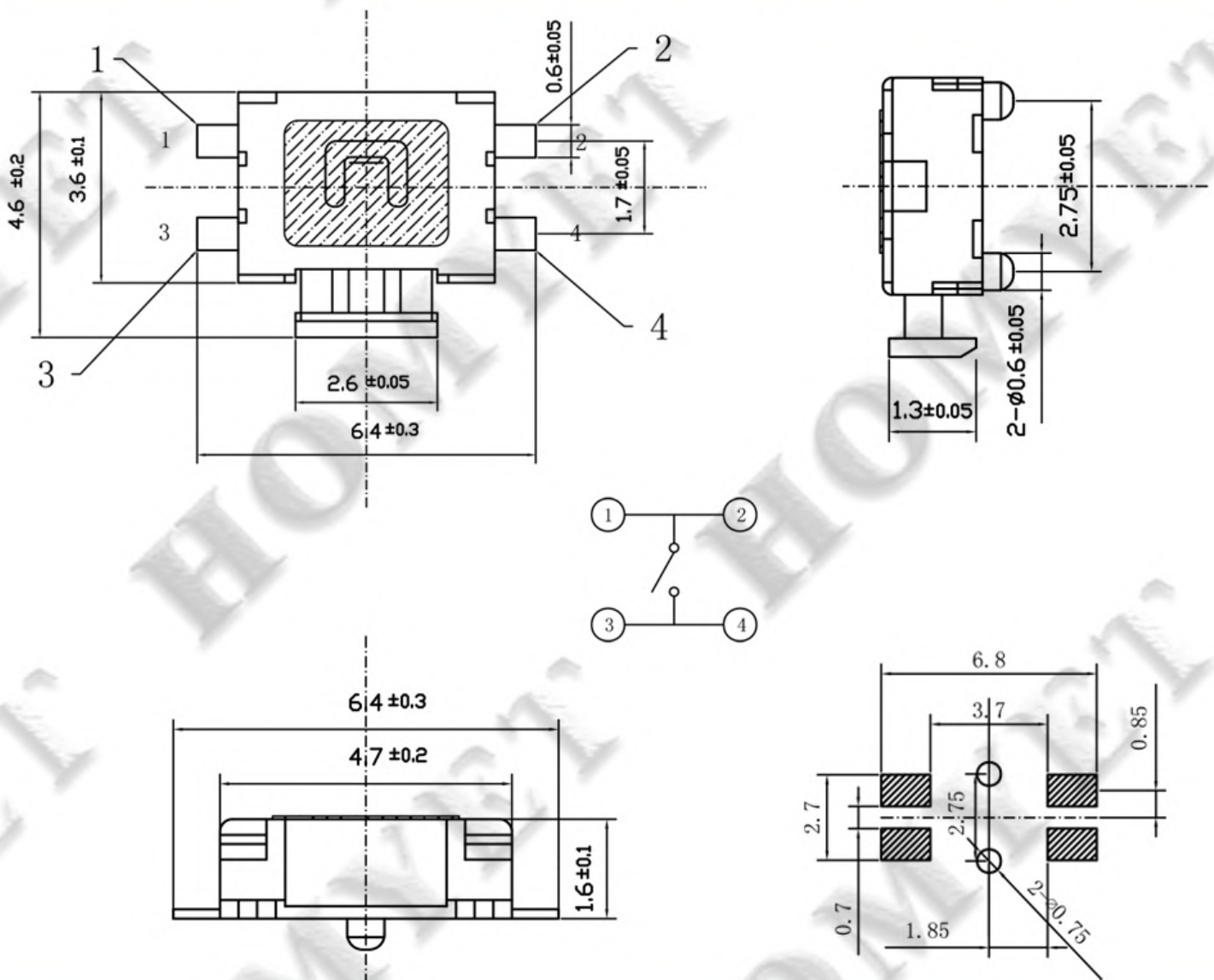
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 100\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

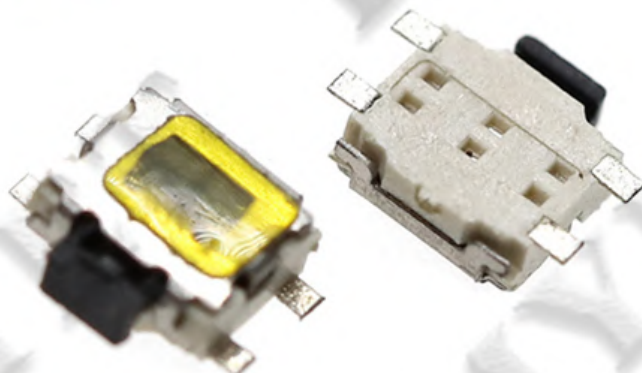


## HY-1190



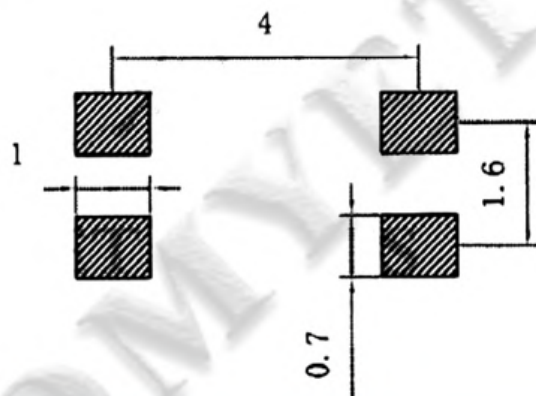
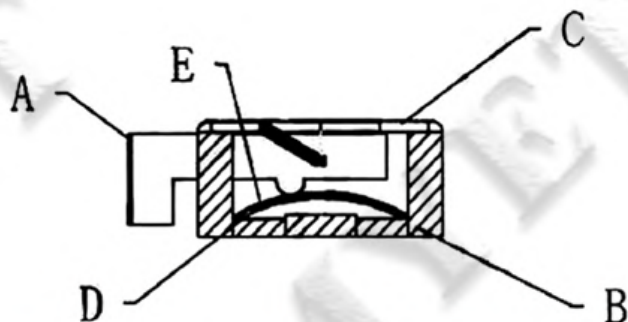
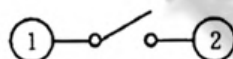
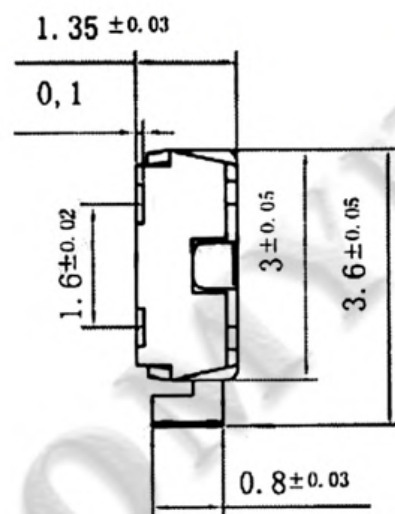
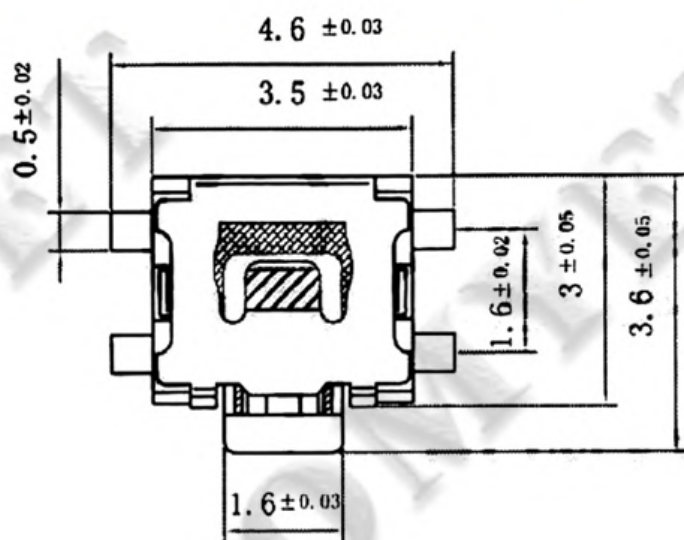
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

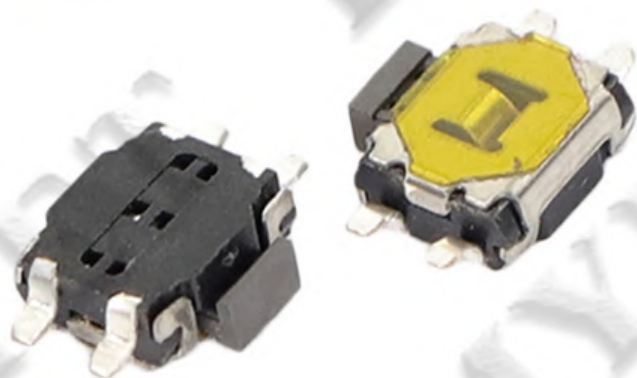


## HY-1190C



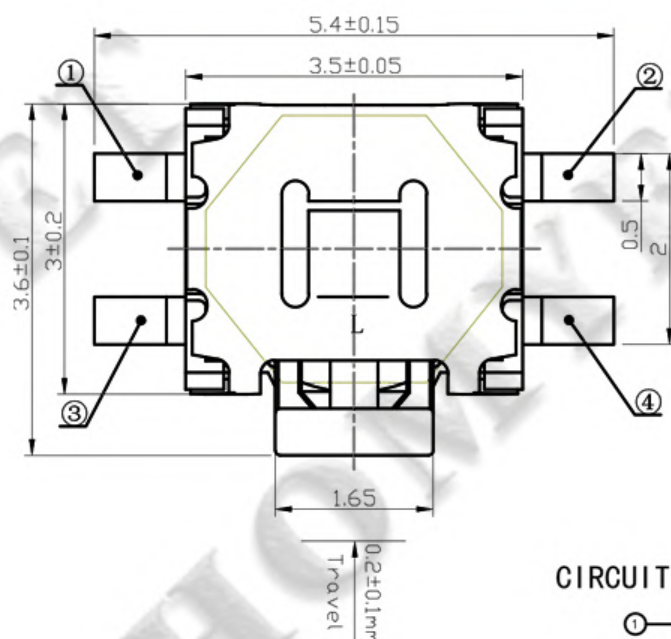
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	50,000

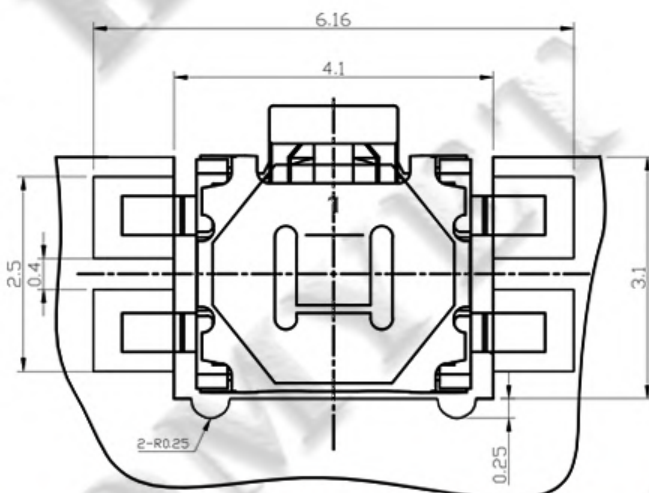
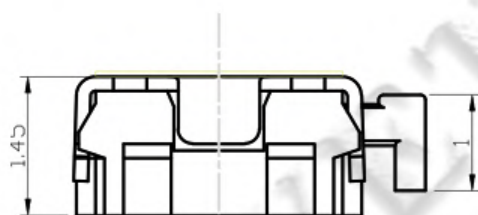
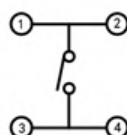


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### CIRCUIT DIAGRAM



## HY-1190E



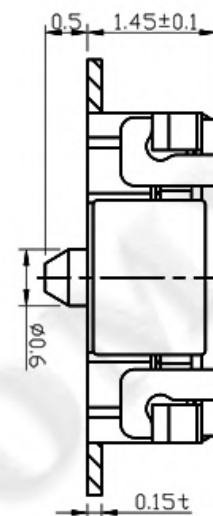
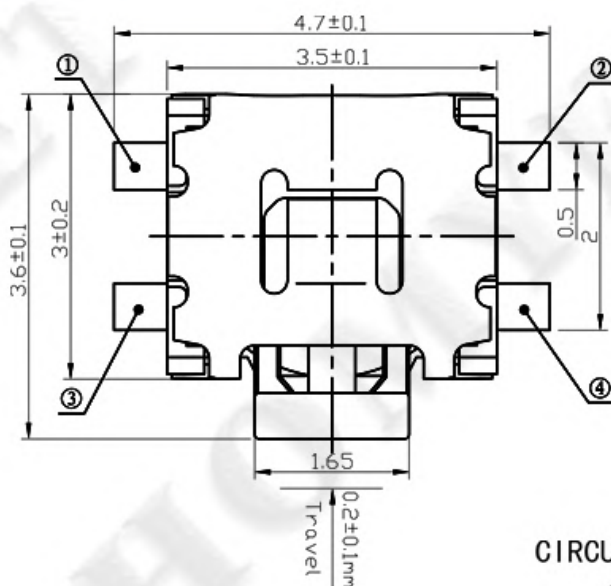
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$240 \pm 50\text{gf}$
Operation life	50,000

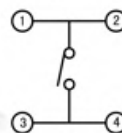


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

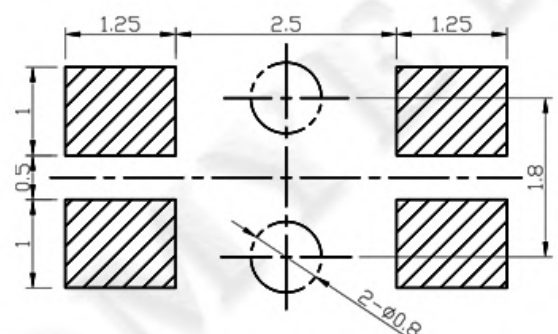


### CIRCUIT DIAGRAM



### P. C. B MOUNTING PATTERN DIMENSION

the following soldering are recommended for reflow soldering

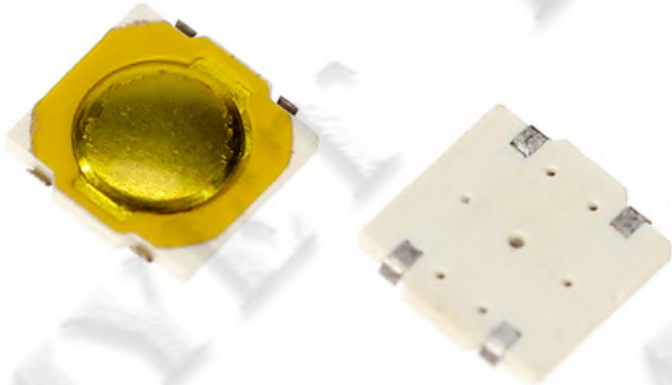


HY-1197A



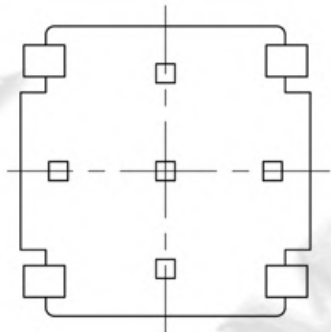
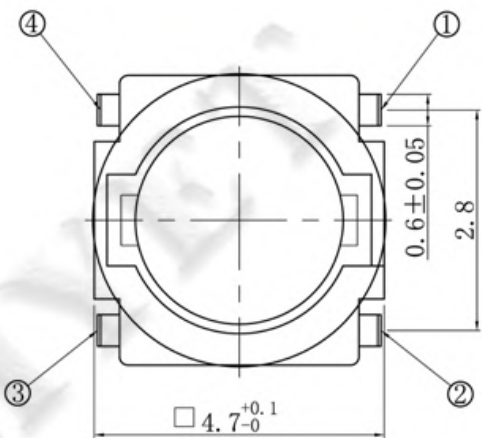
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	160±30gf
Operation life	50,000

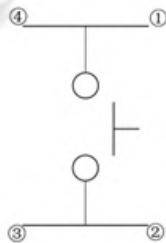


SOLDERING CONDITIONS

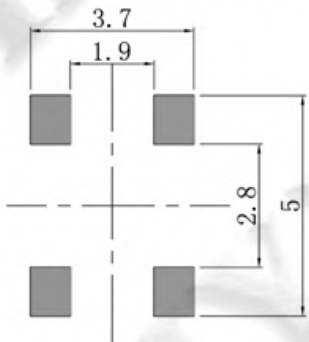
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



P. C. B. Land pattern



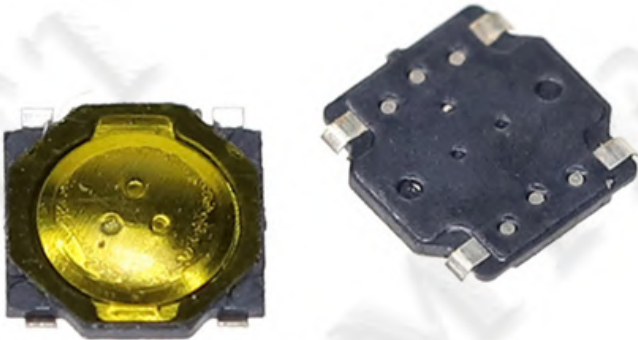
SPECIFICATION

HY-1197B



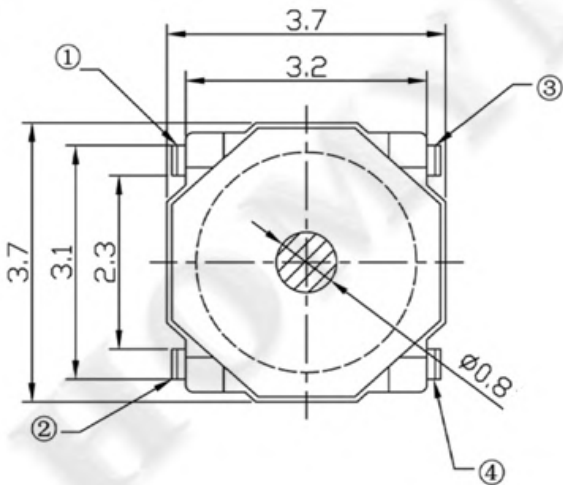
SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	180±30gf
Operation life	50,000

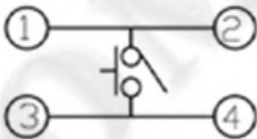


SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



P. C. B. Land Pattern

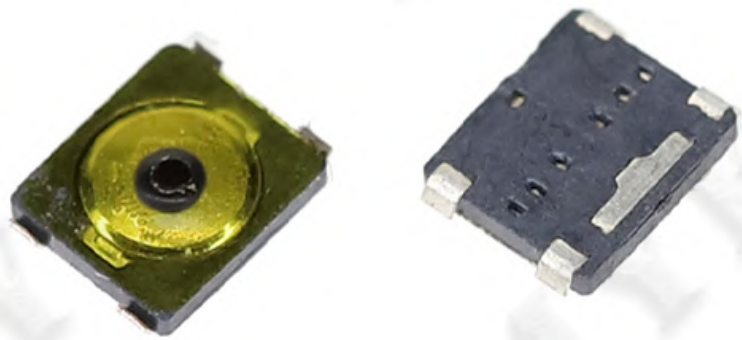


## HY-1199D



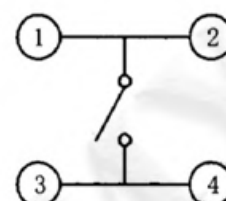
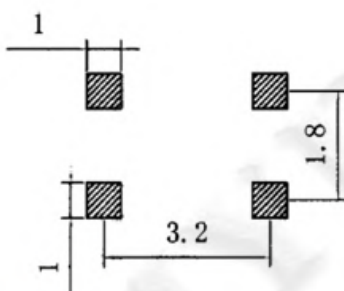
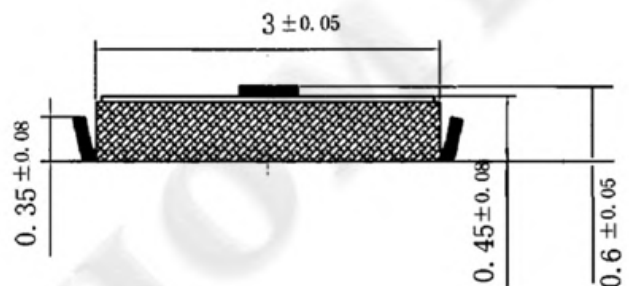
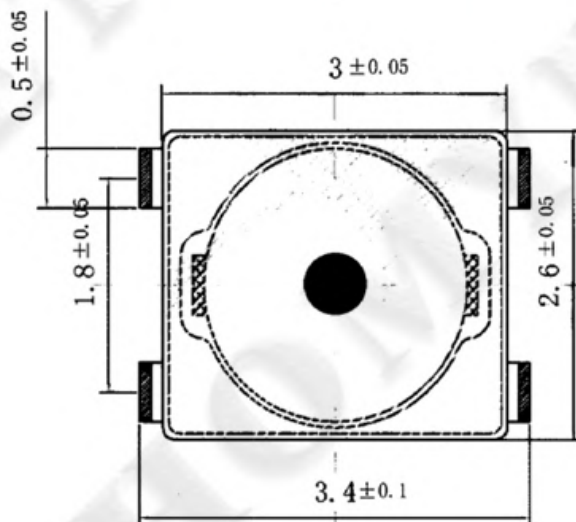
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	200/250 $\pm$ 30gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1507



### SPECIFICATIONS

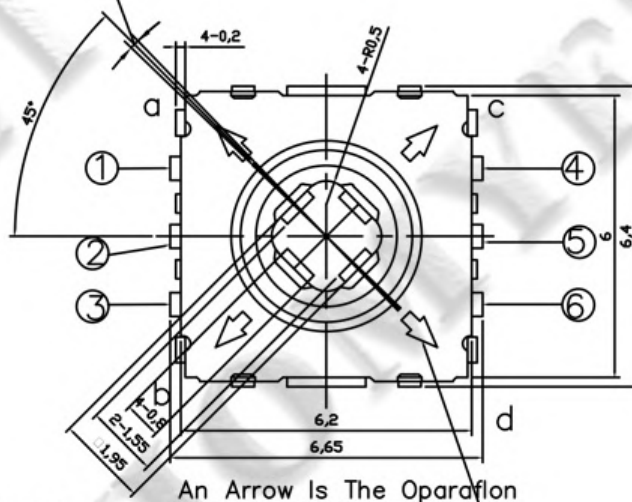
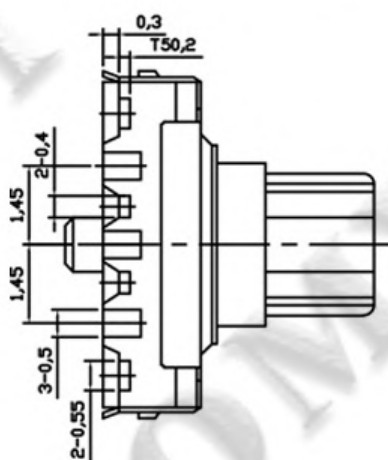
Rated Input Current	0.1 A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 0.03 \Omega$
Insulation Resistance	$\geq 100M\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50gf$
Operation life	50,000



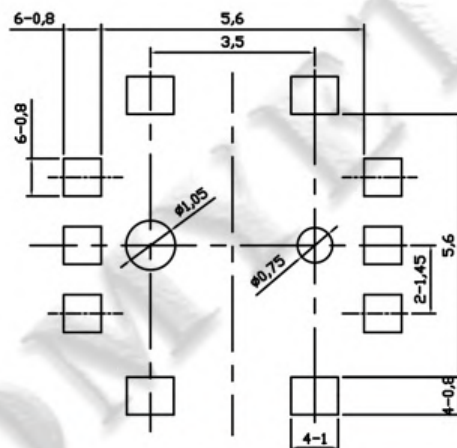
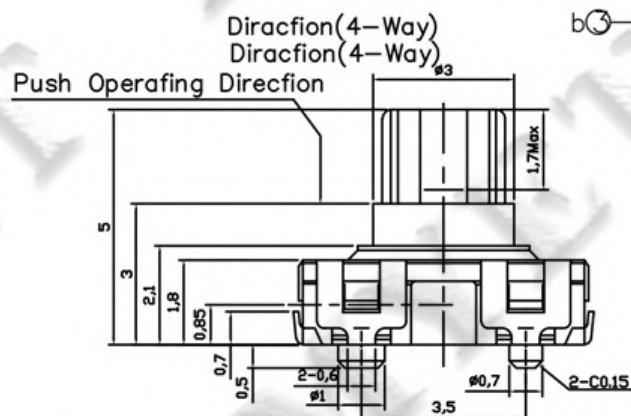
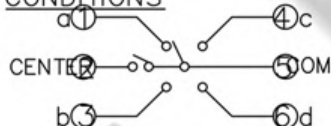
### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

(Stillness Position)  $0 \pm 3^\circ$   
 (Amount of Ration Losening)  $2^\circ \pm 2^\circ$



### REFLOW SOLDERING CONDITIONS



HY-1812



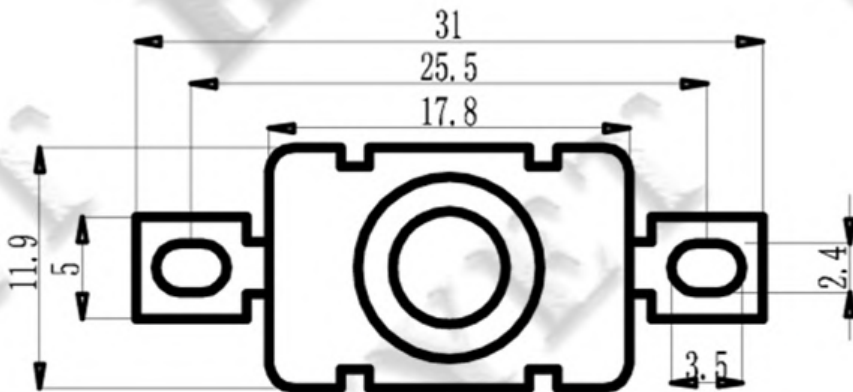
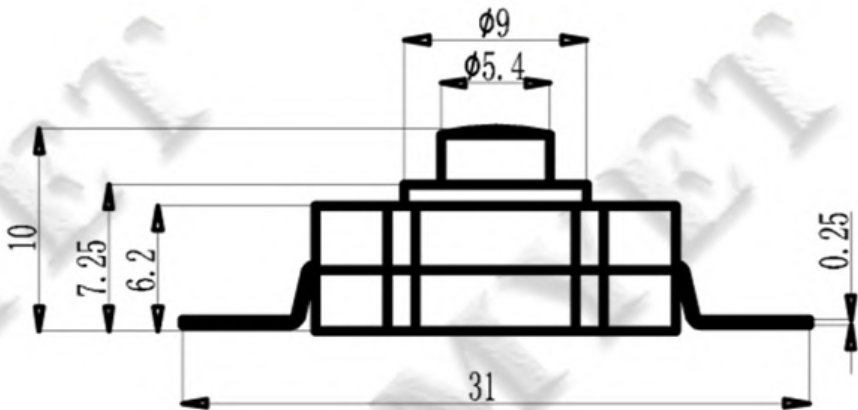
SPECIFICATIONS

Rated Input Current	3 A
Rated Input Voltage	AC 250V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥ 100MΩ
Dielectric voltage proof	1500V AC/1min
Operating Force	800±50gf
Operation life	50,000

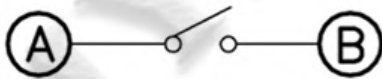


SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



电路简图  
 SCHEMATIC



## HY-3602



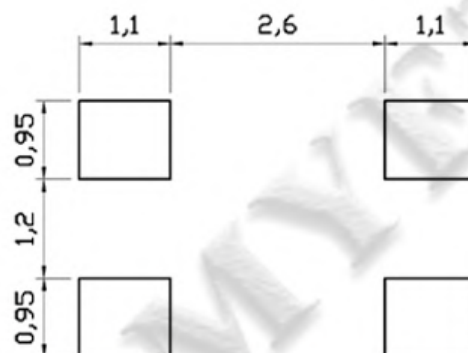
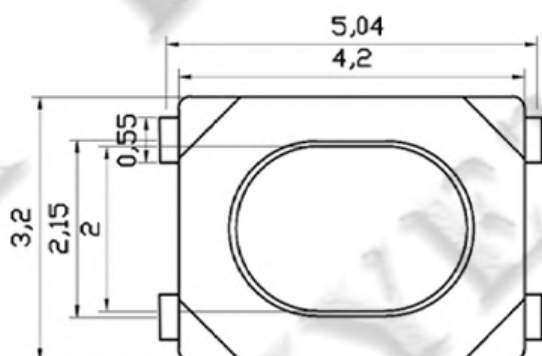
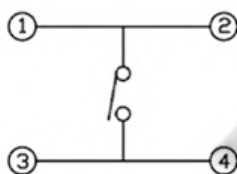
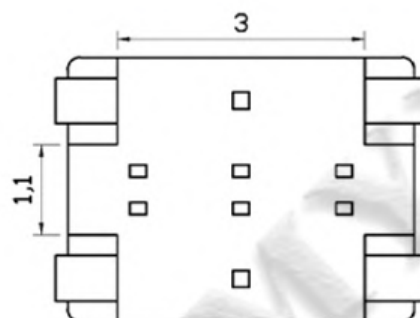
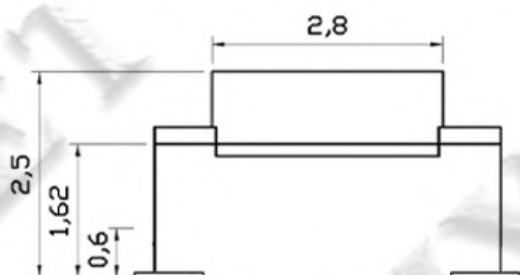
### SPECIFICATIONS

Rated Input Current	0.1 A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 50 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$160 \pm 30 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



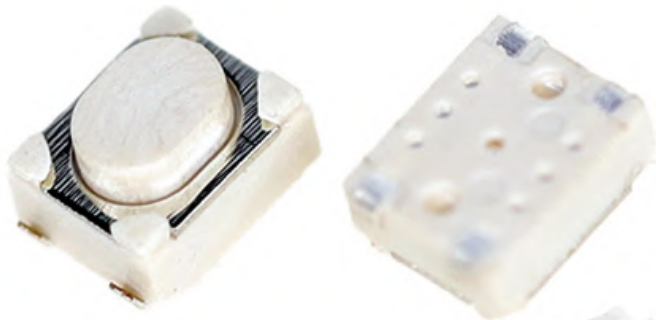
# TACT SWITCH

## HY-3602B



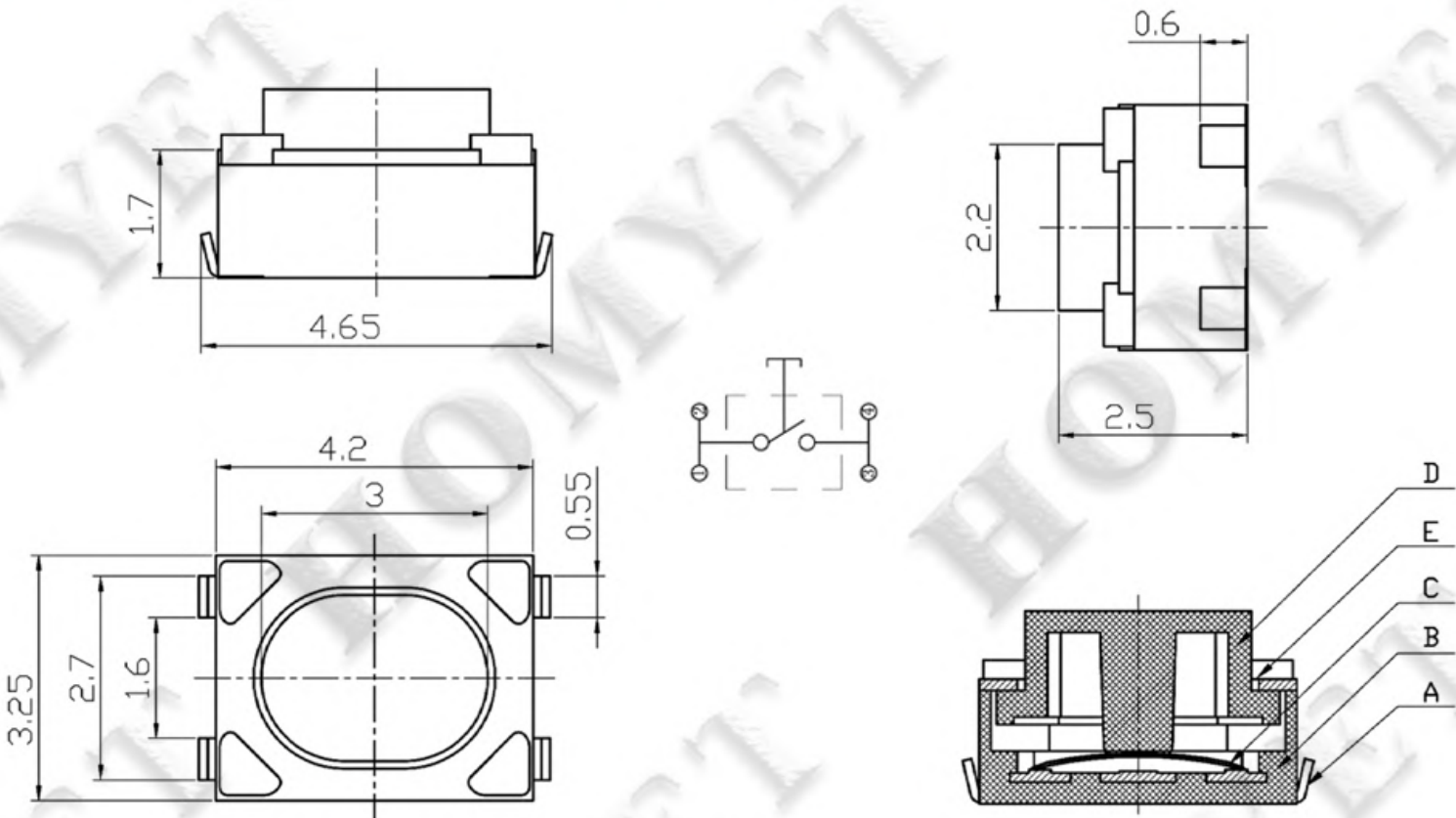
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	12V DC
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±30gf
Operation life	30,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

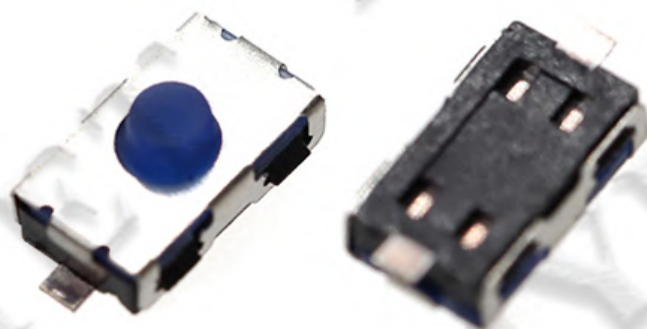


## HY-3860



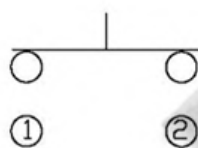
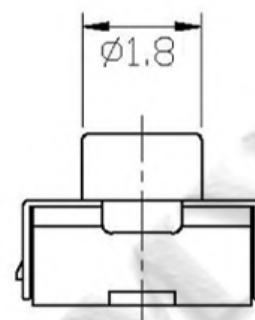
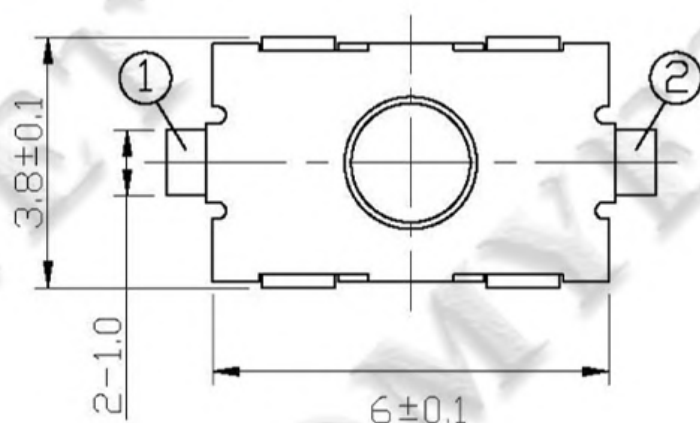
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	30,000

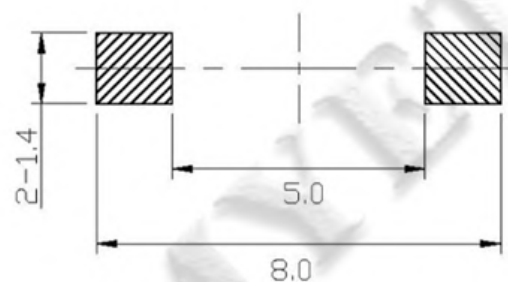
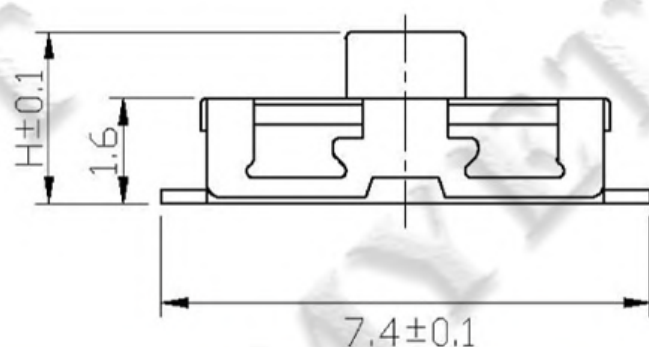


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



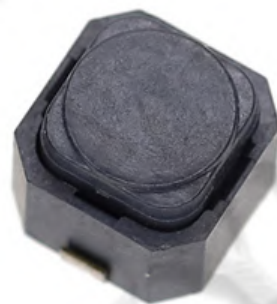
P.C.B LAND DIMENSION

## HY-6601



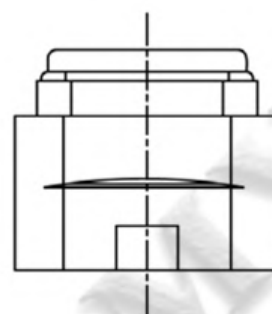
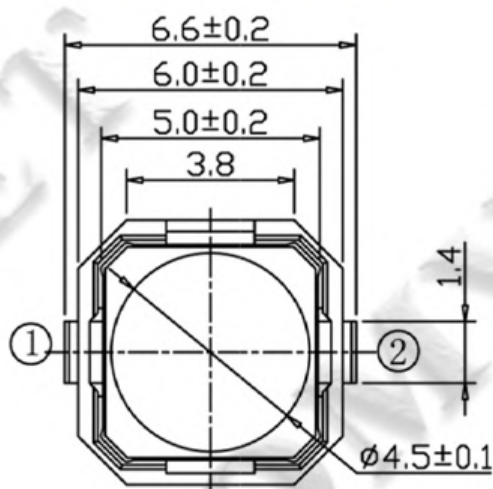
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	100,000

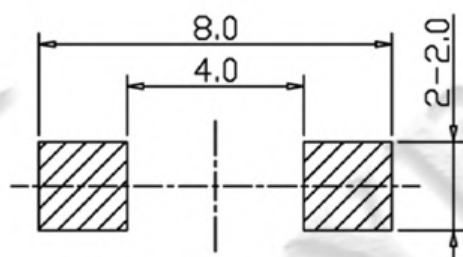


### SOLDERING CONDITIONS

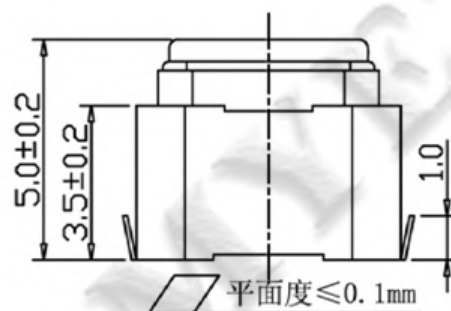
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### CIRCUIT DIAGRAM



P. C. B. Layout



# TACT SWITCH

## HY-6615S



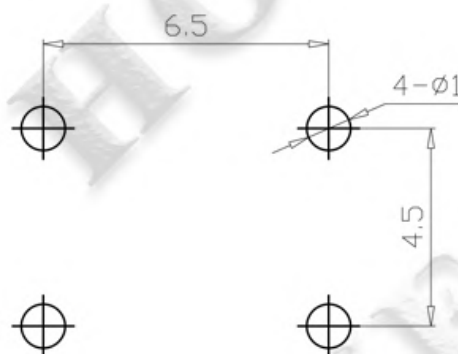
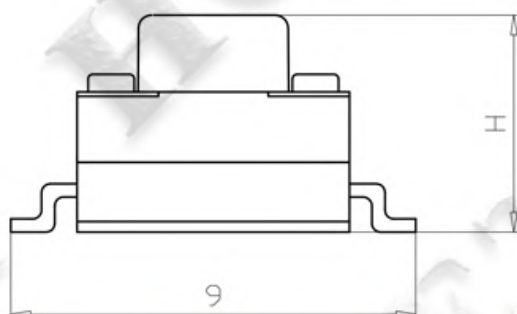
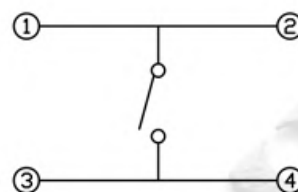
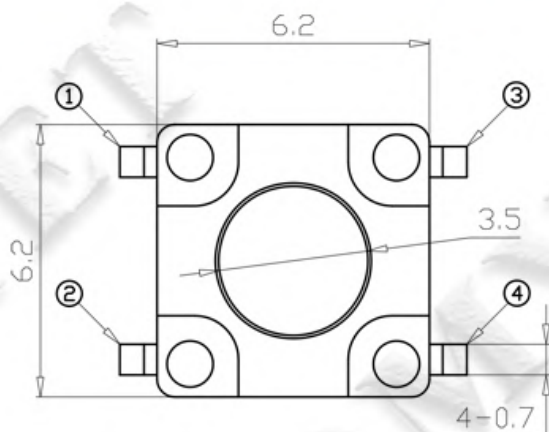
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$160 \pm 50\text{gf}$
Full Travel	$0.35 \pm 0.1\text{mm}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-6650S



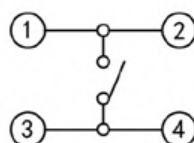
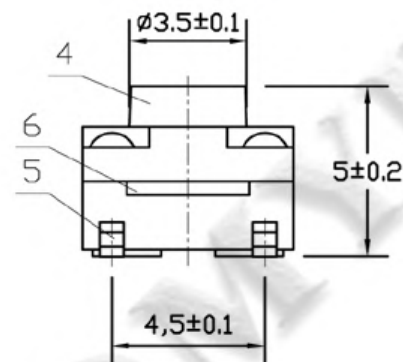
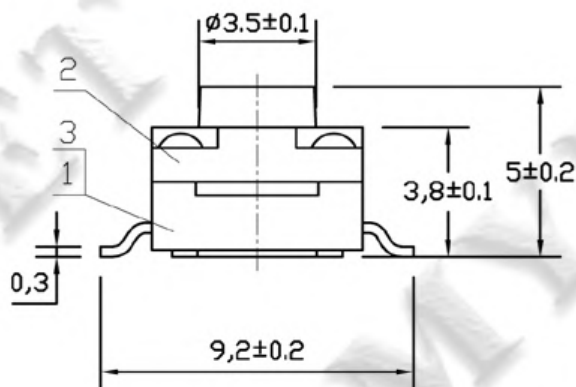
### SPECIFICATIONS

Rated Input Current	0.5 A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000

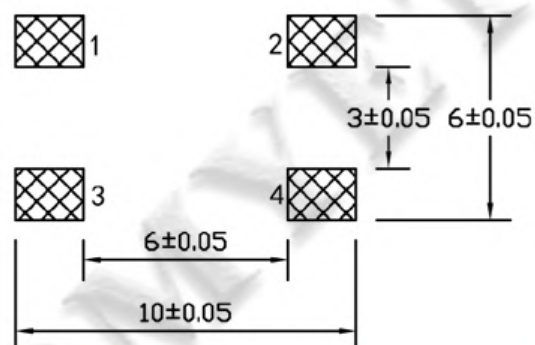
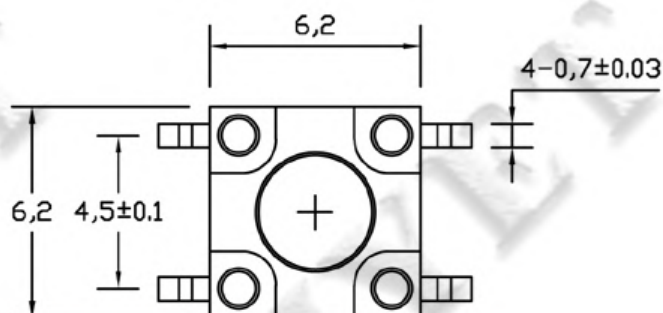


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit



## HY-1100C



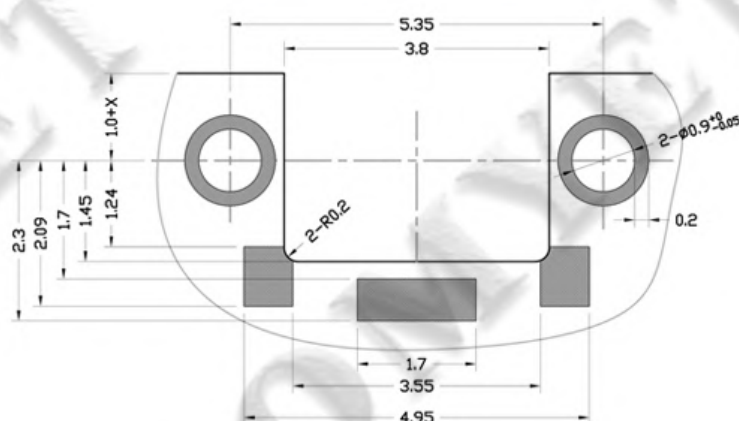
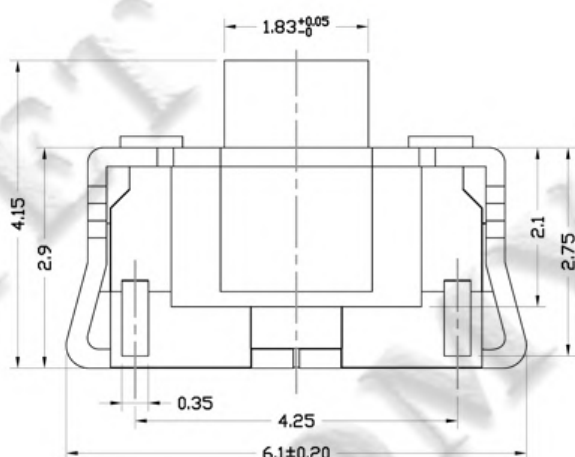
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000

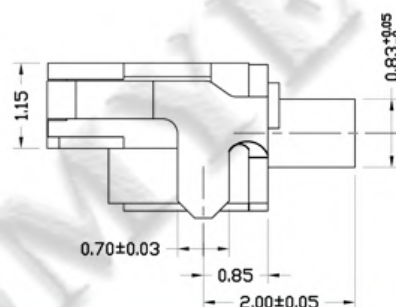
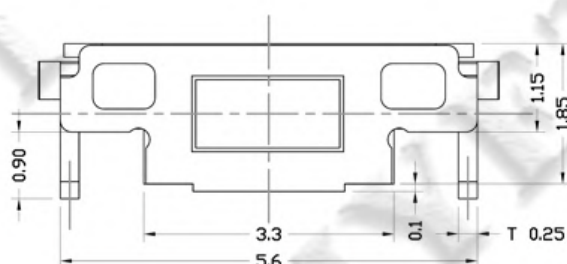


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



## HY-1100ENH



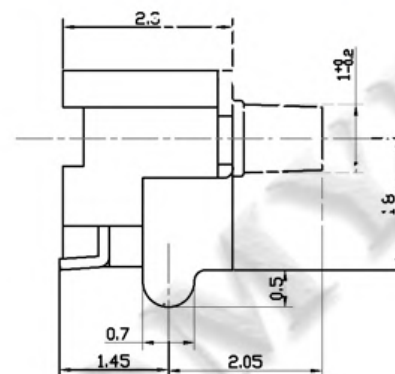
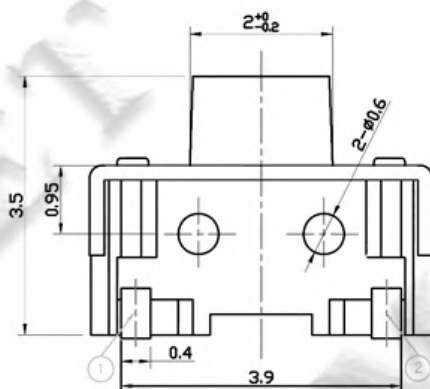
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 50gf
Operation life	100,000

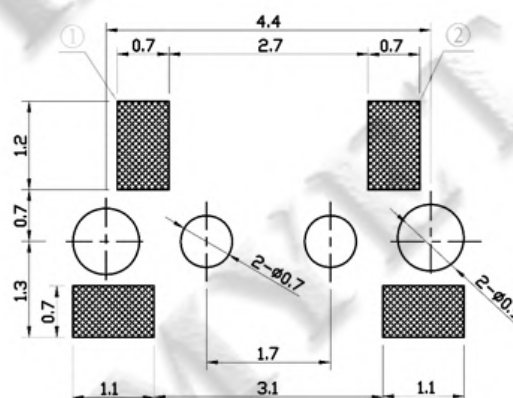
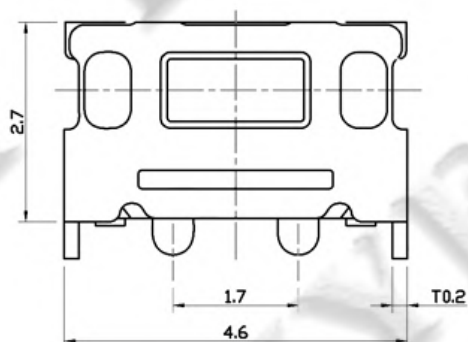


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### CIRCUIT DIAGRAM

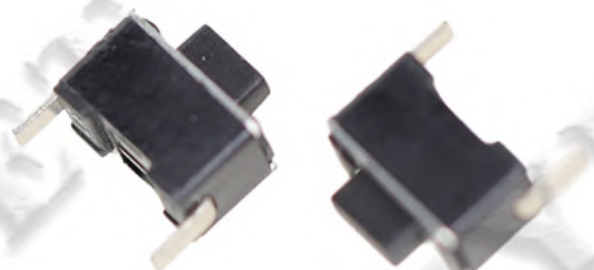


## HY-1101Z



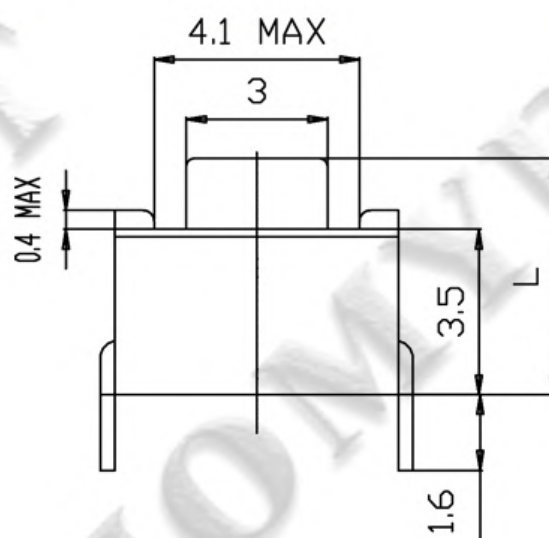
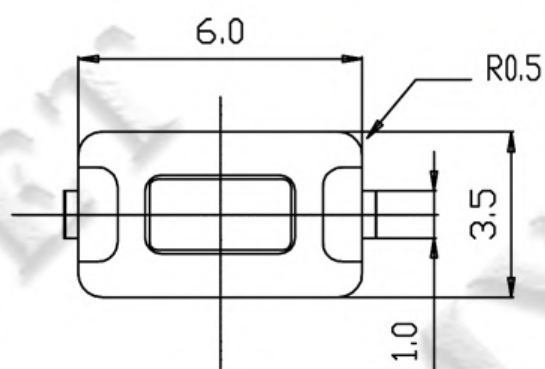
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

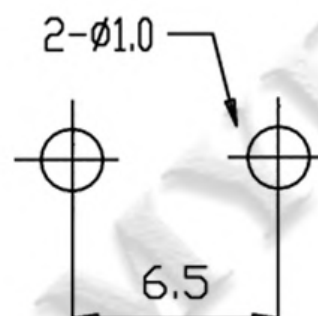
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### P.C.B DIMENSIONS

L	4.3	5.0
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### CIRCUIT DIAGRAM



## HY-1102HLC



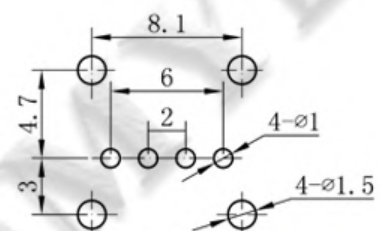
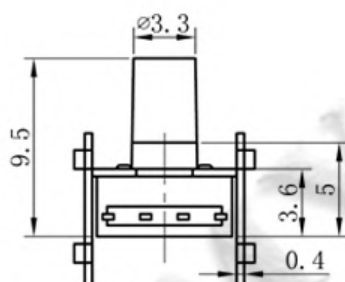
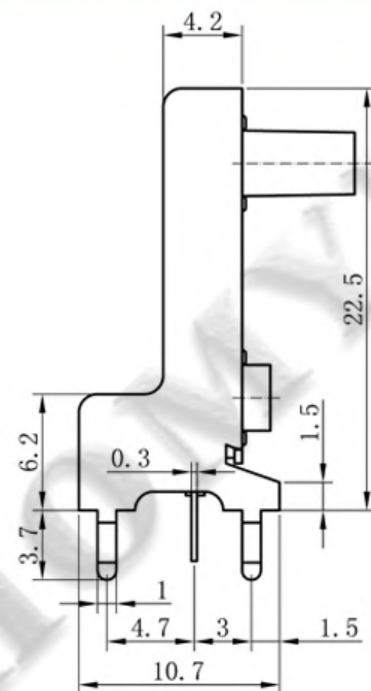
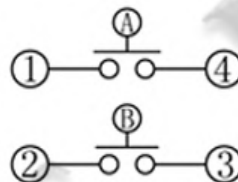
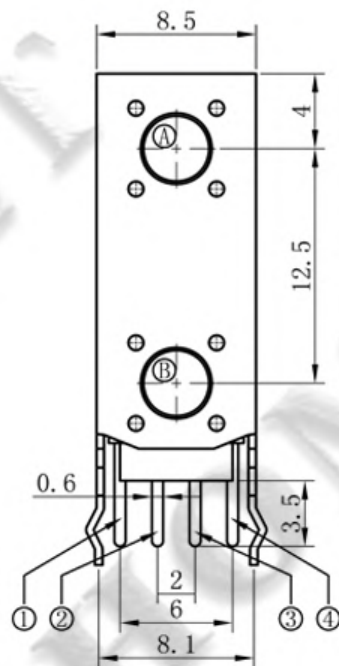
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1102P



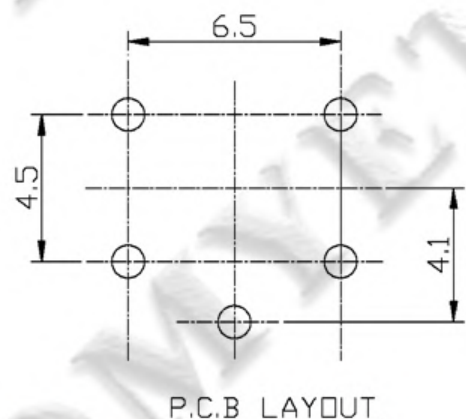
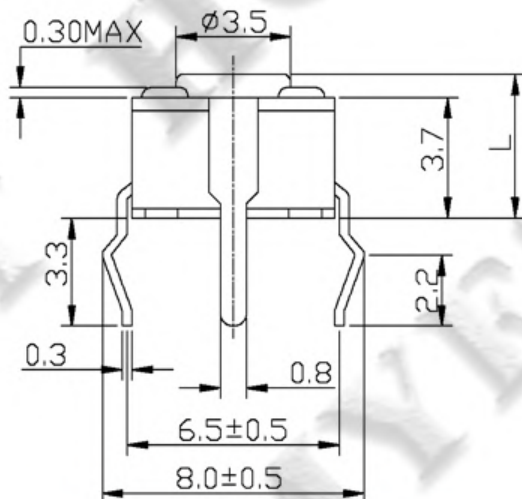
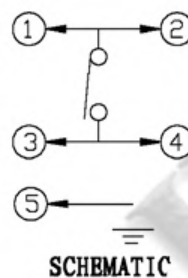
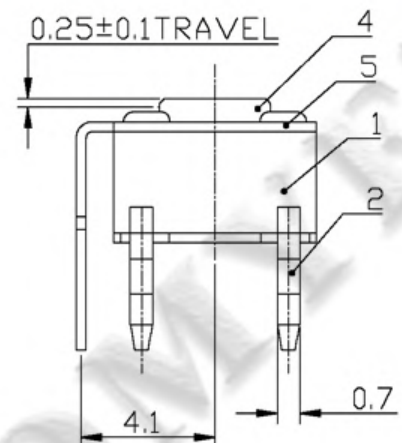
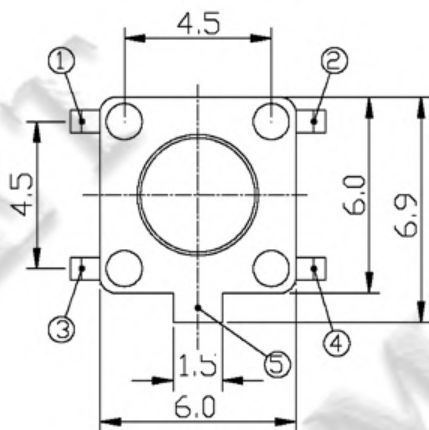
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 30gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



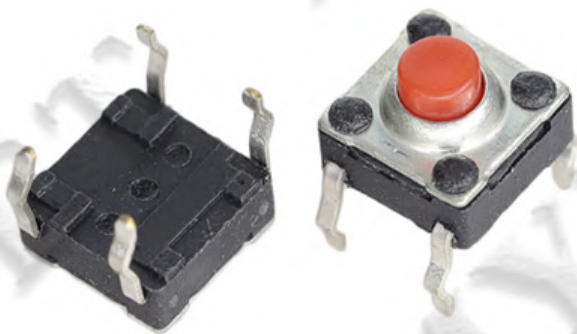
# TACT SWITCH

## HY-1102WR1



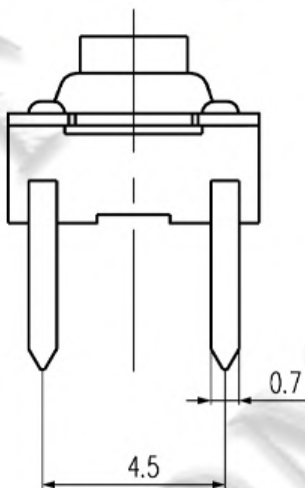
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	250±30gf
Operation life	100,000

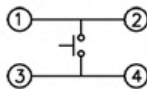
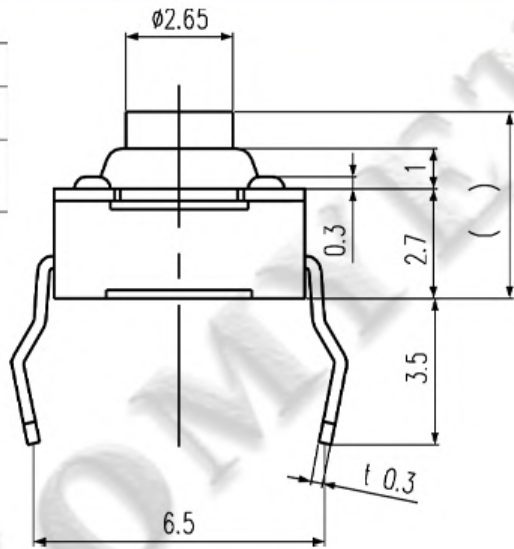


### SOLDERING CONDITIONS

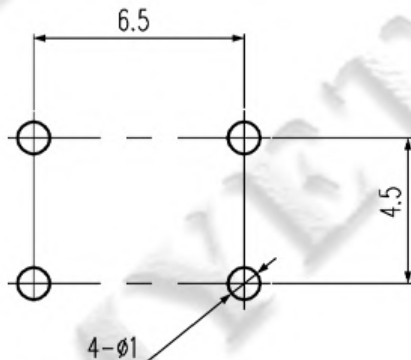
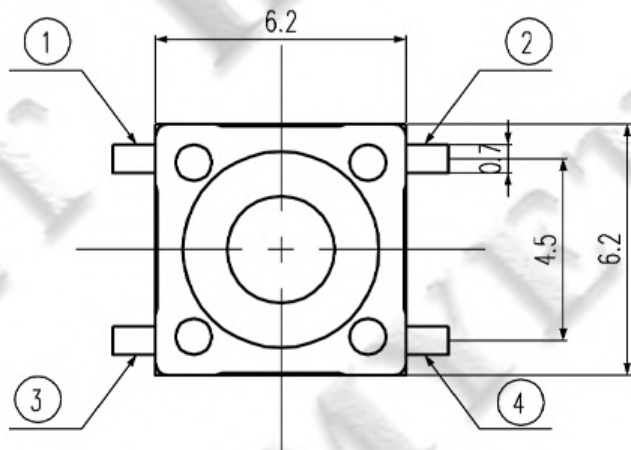
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



H
4.3
5.0



电路简图  
SCHEMATIC



线路板开孔  
P.C.B

## HY-1102F



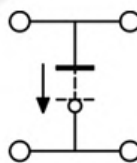
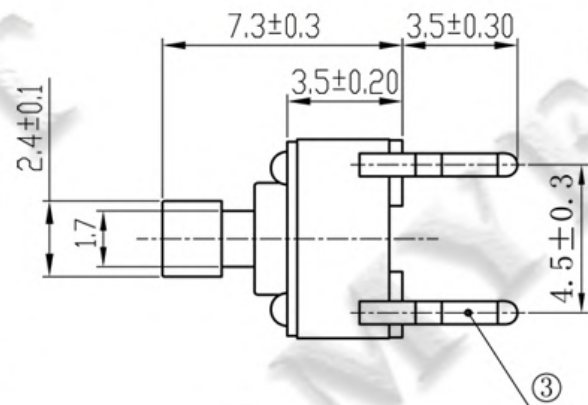
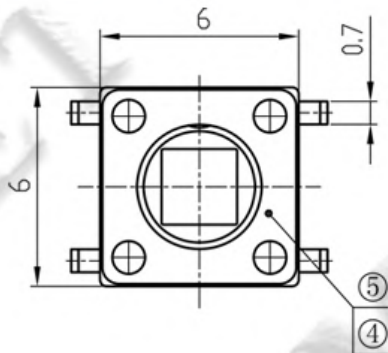
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	100,000

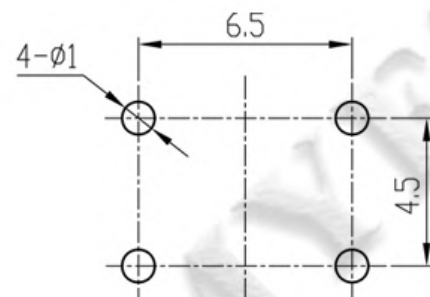
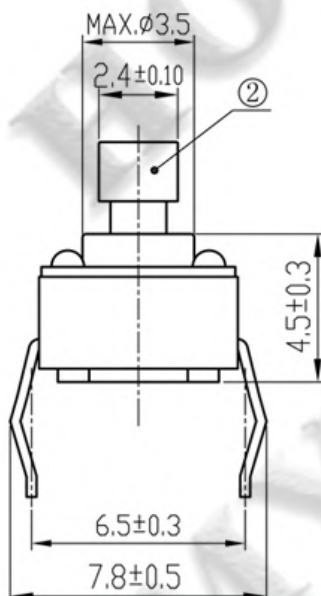


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



P.C.B Holes Diagram  
BOTTOM VIEW

## HY-1102FS



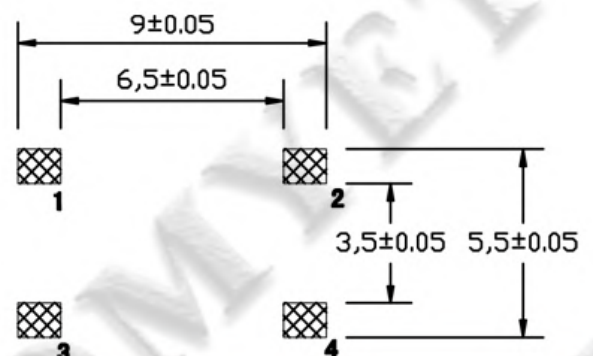
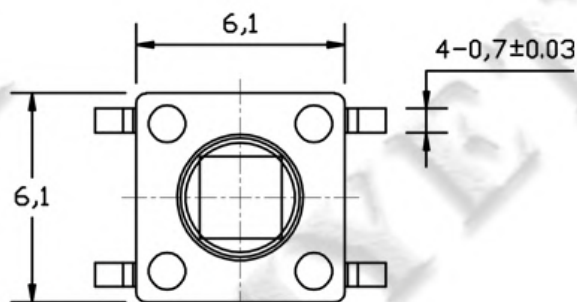
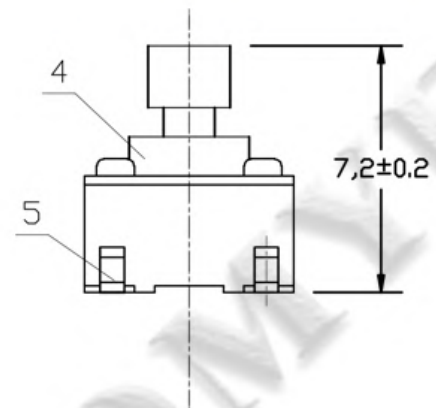
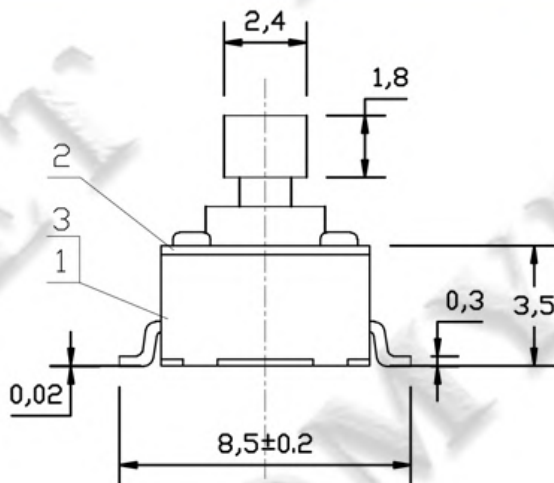
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



# TACT SWITCH

## HY-1102HF



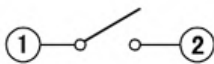
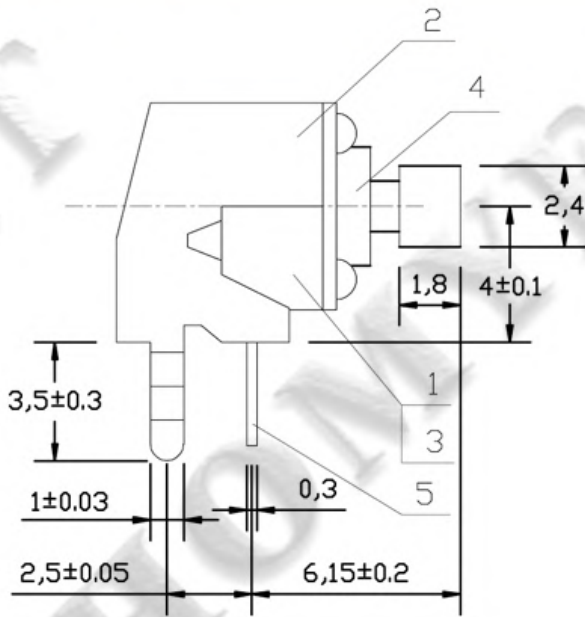
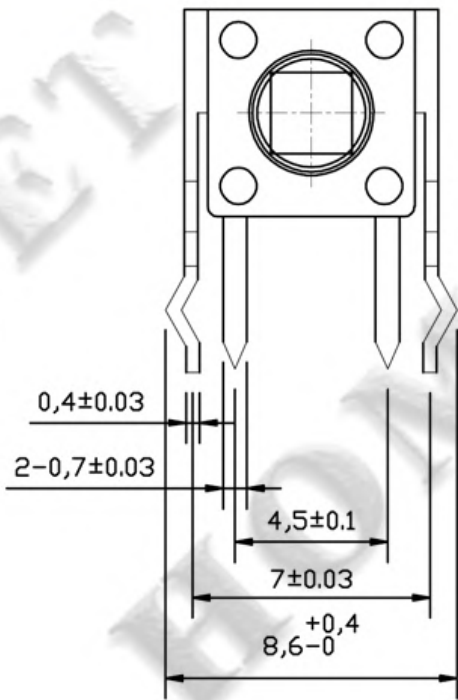
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25\text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250\pm 50\text{gf}$
Operation life	50,000

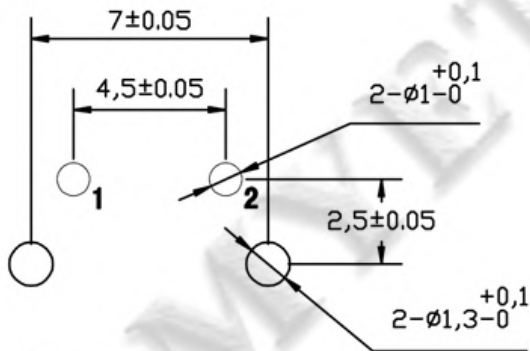


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



电路图表



安装尺寸 (从焊锡面看)

## HY-1102ZL



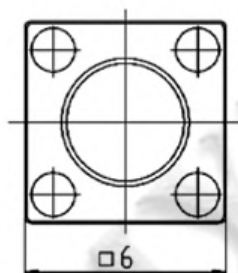
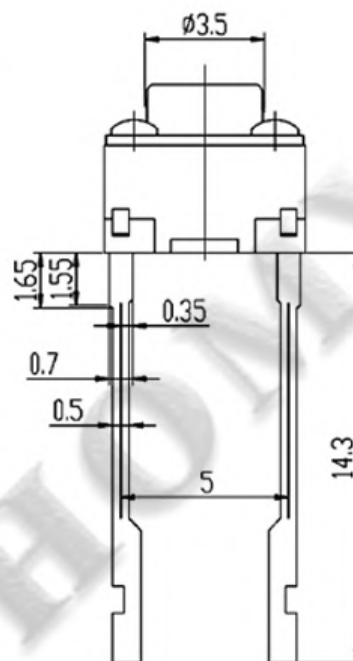
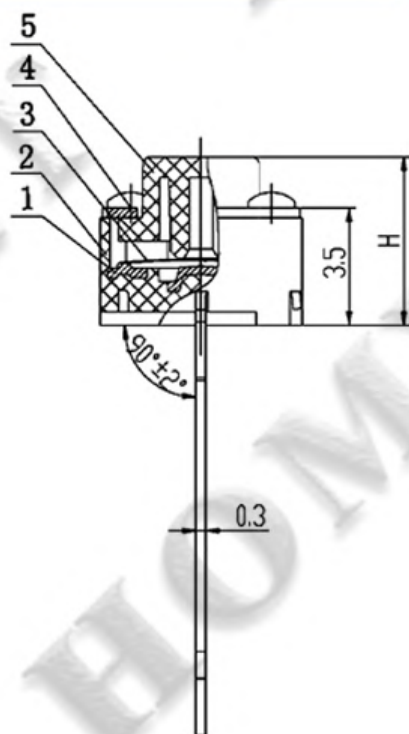
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### P. C. B LAND PATTERN



## HY-1103FS



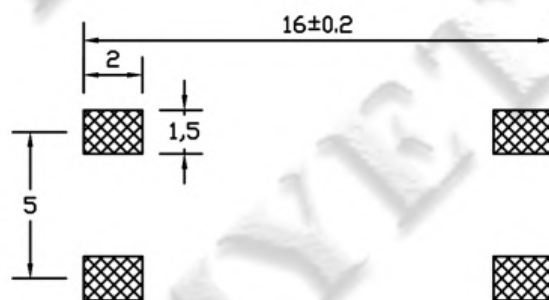
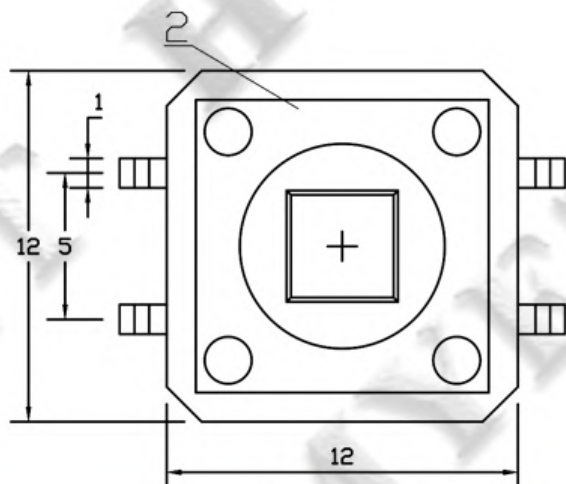
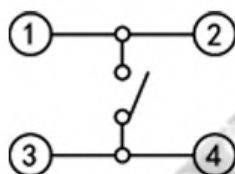
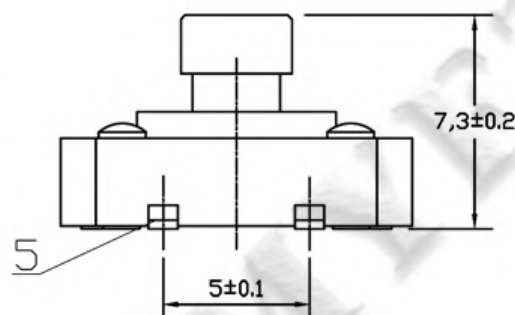
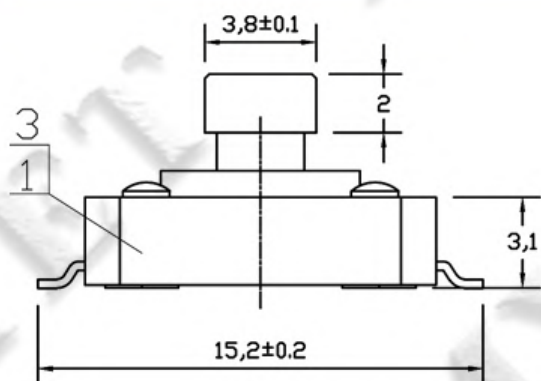
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



贴片尺寸 (从焊锡面看)

## HY-1103WT



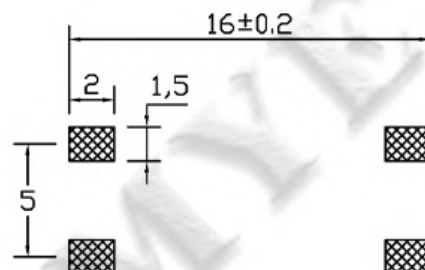
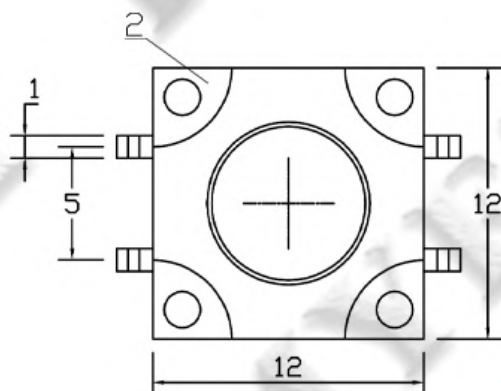
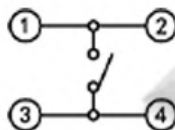
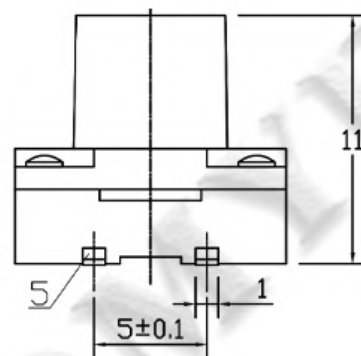
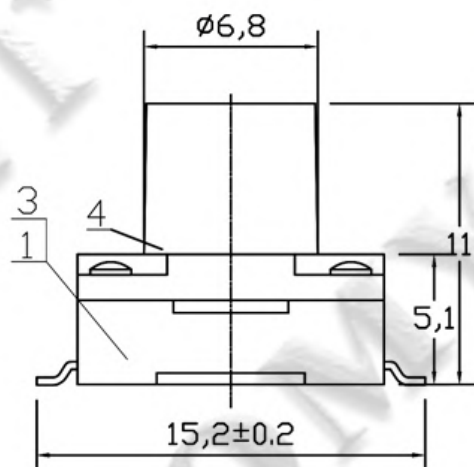
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1103V



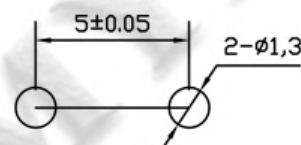
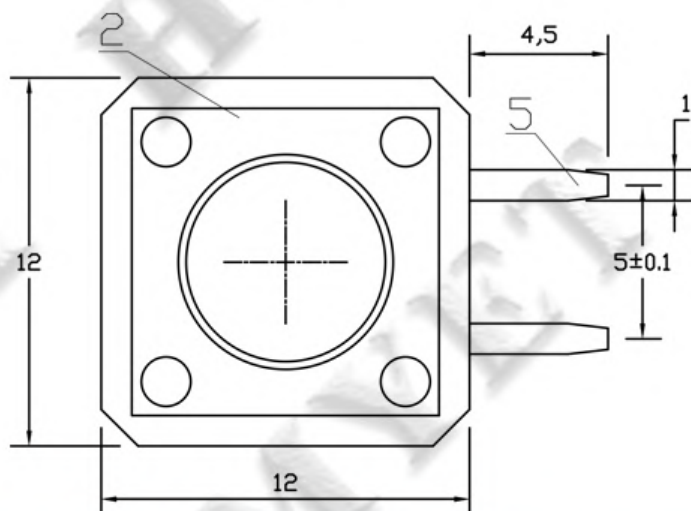
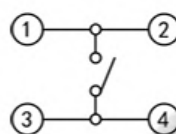
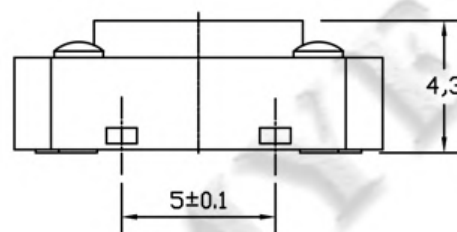
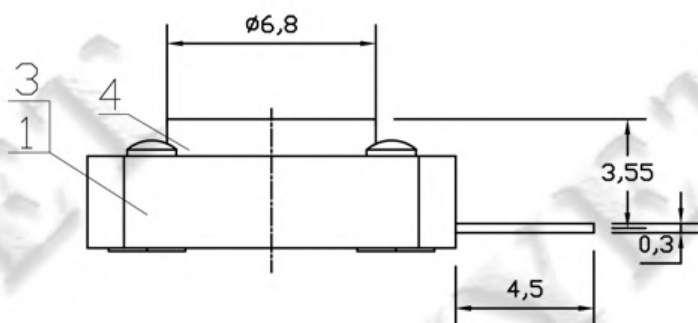
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



HY-1124



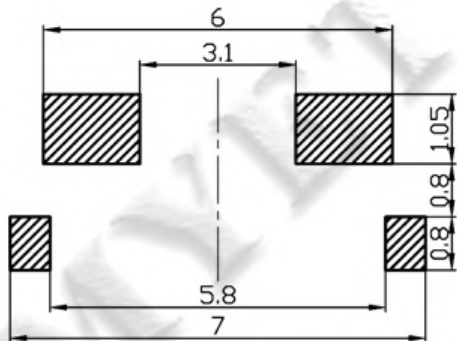
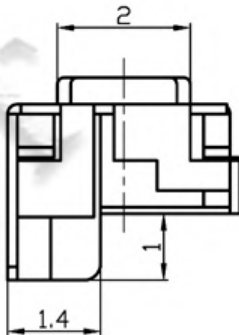
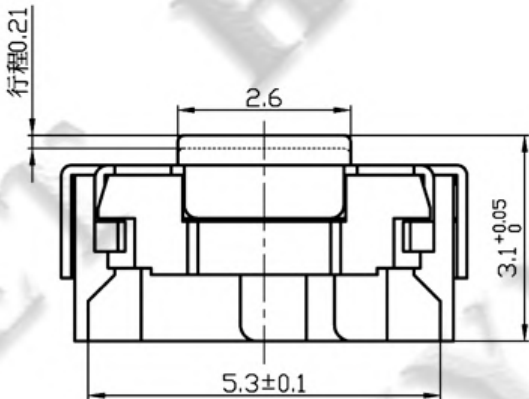
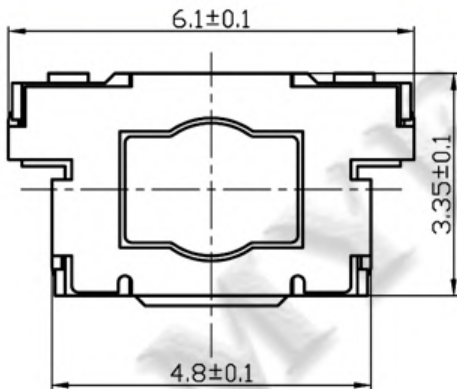
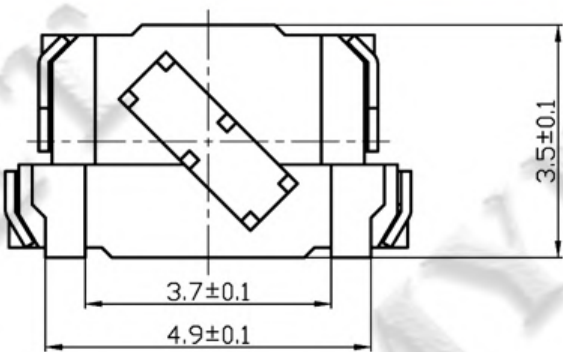
SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	180±30gf
Operation life	50,000



SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1127



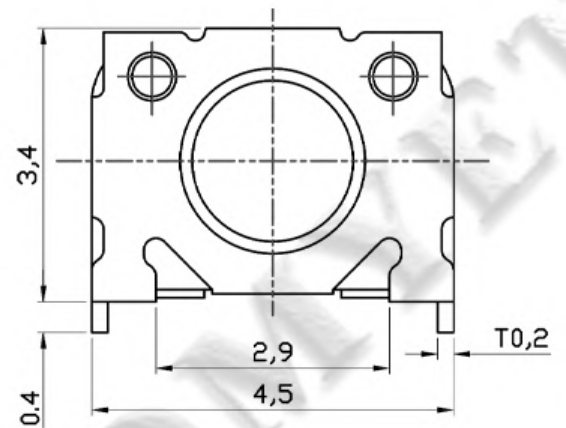
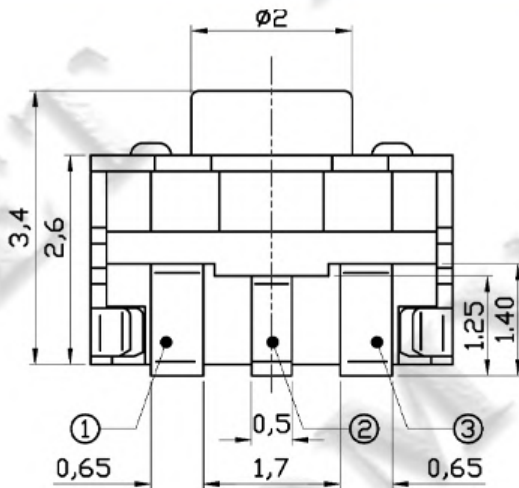
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$180 \pm 50 \text{ gf}$
Operation life	100,000

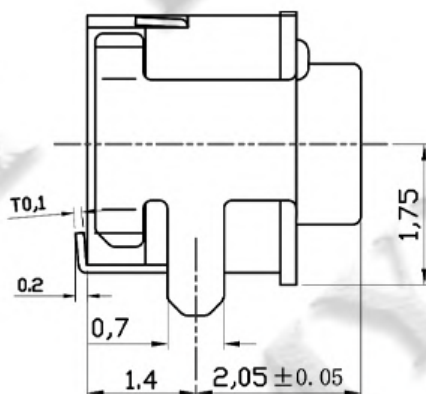
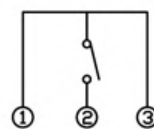


### SOLDERING CONDITIONS

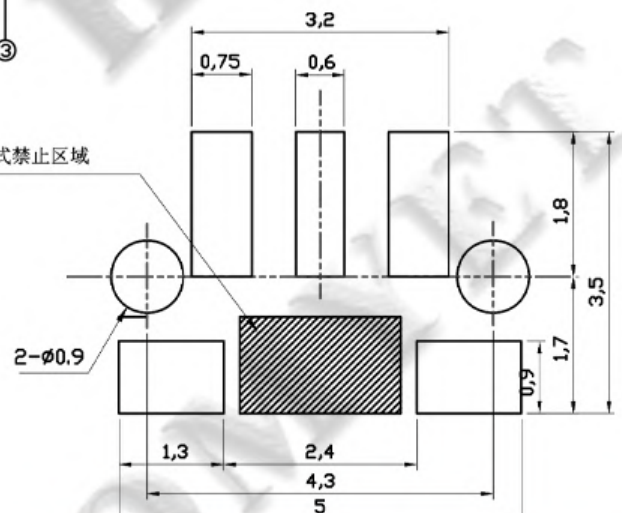
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### CIRCUIT DIAGRAM



电路模式禁止区域

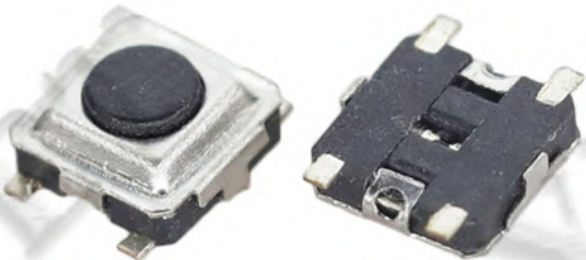


HY-1177



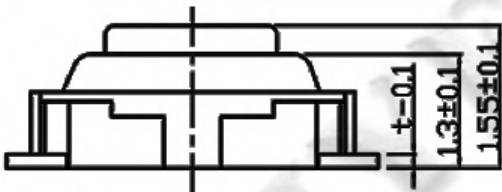
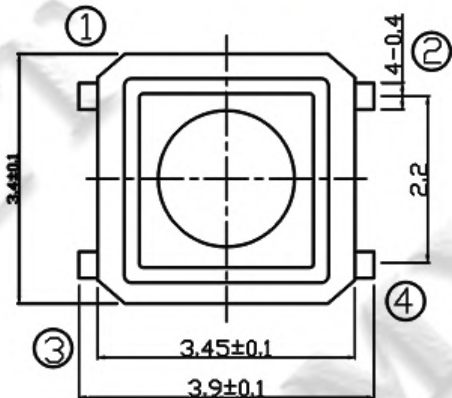
SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	160±30gf
Operation life	50,000

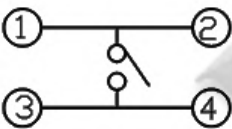


SOLDERING CONDITIONS

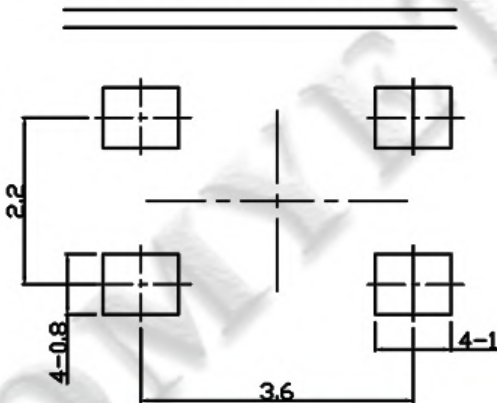
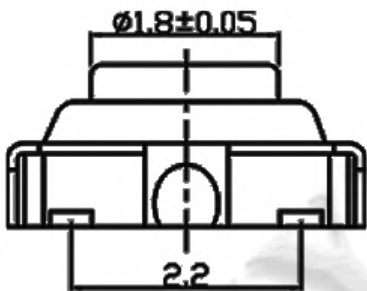
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



Circuit Diagram

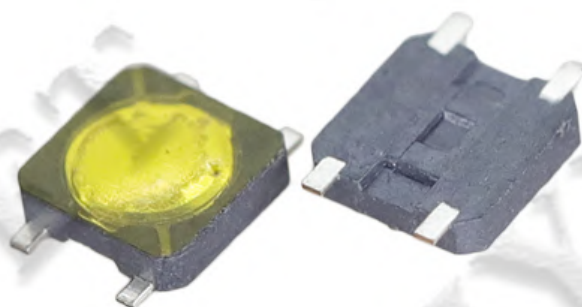


## HY-1177W



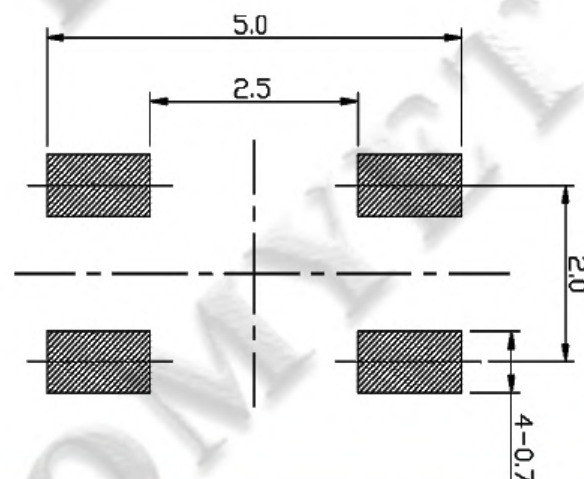
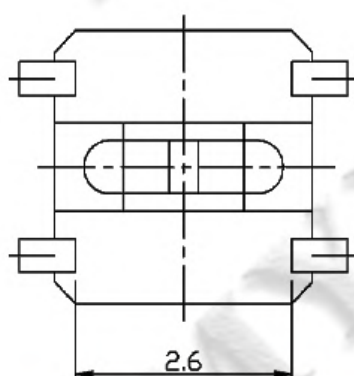
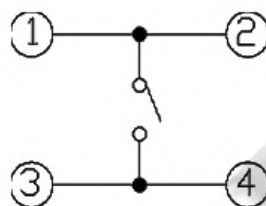
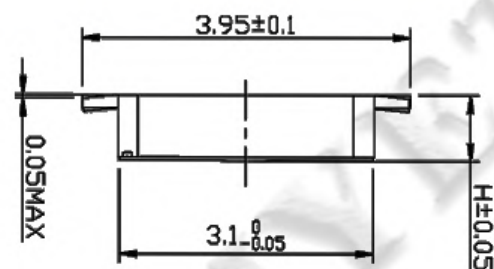
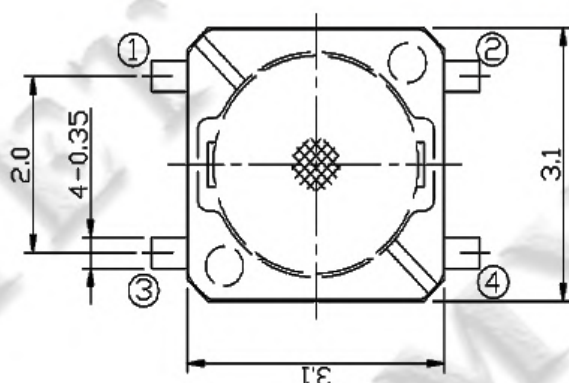
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$180 \pm 30\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

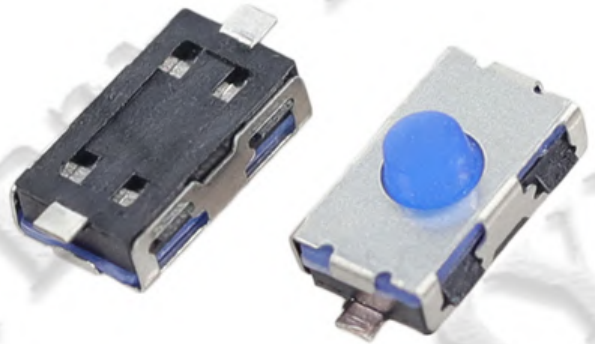


## HY-1185L



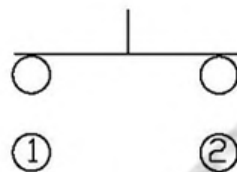
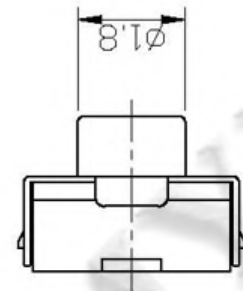
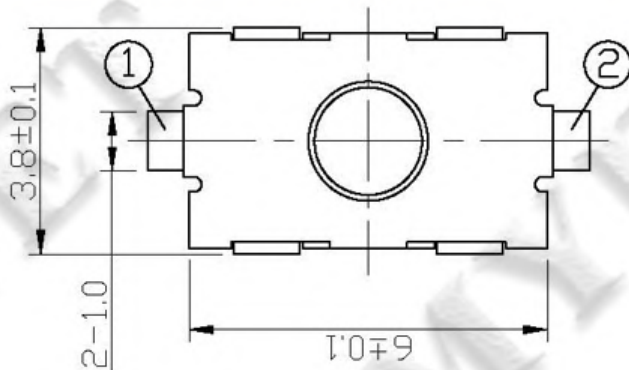
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	50,000

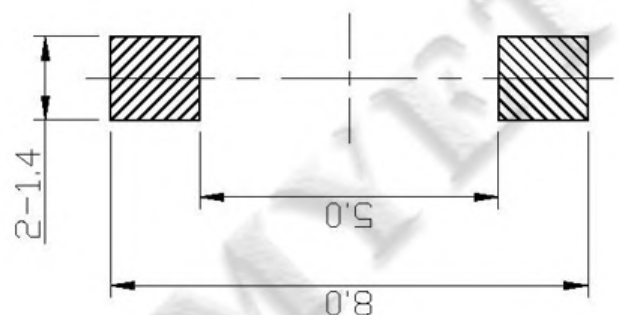
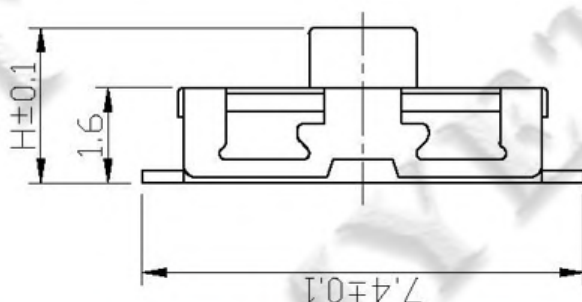


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



P.C.B LAND DIMENSION

## HY-1185UE



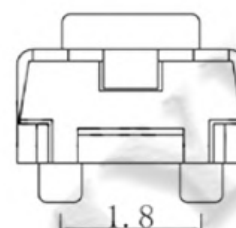
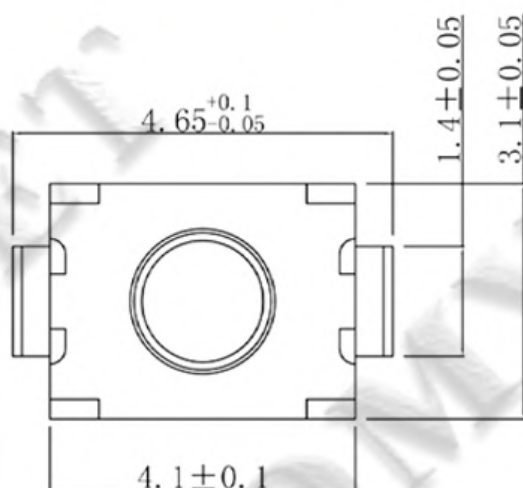
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	50,000



### SOLDERING CONDITIONS

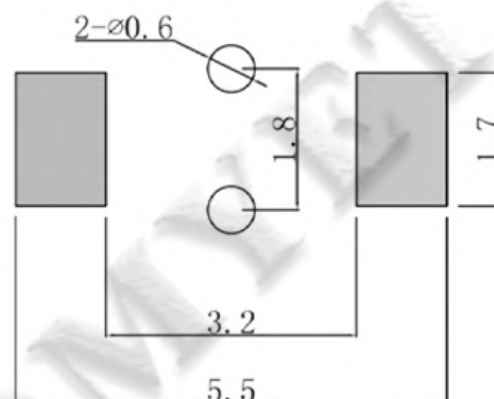
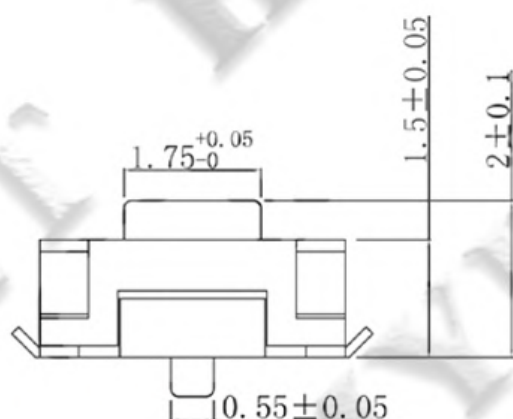
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



Circuit Diagram



P. C. B. Land Pattern



## HY-1186



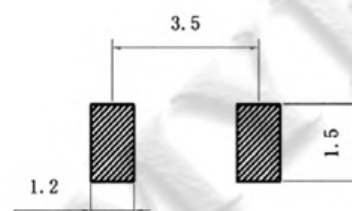
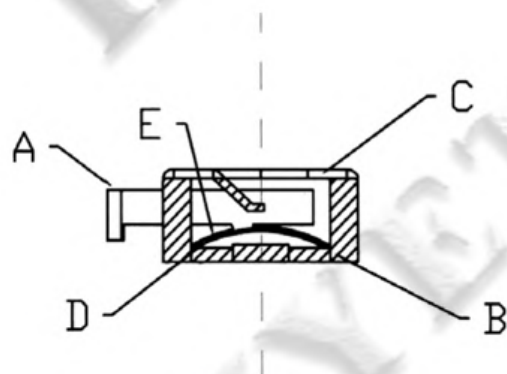
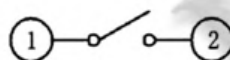
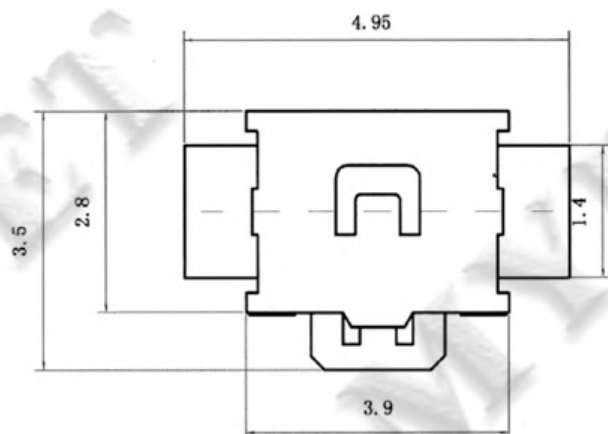
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

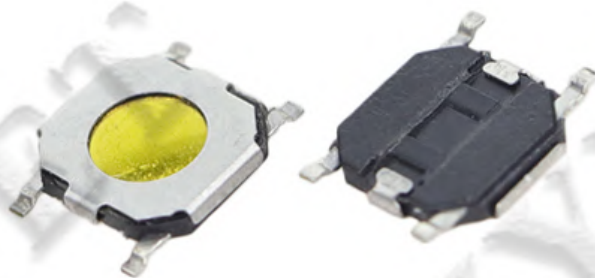


## HY-1187N



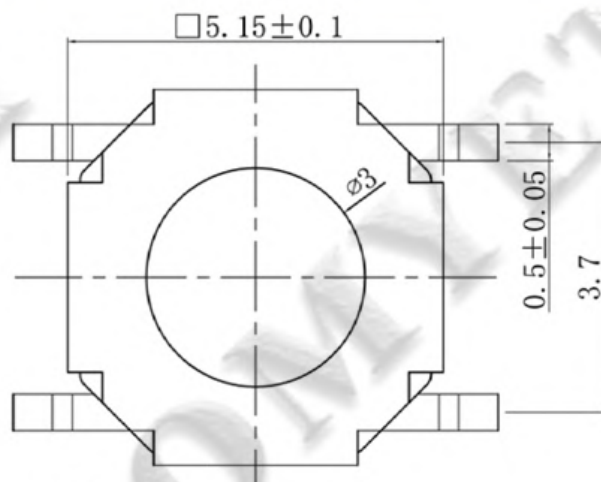
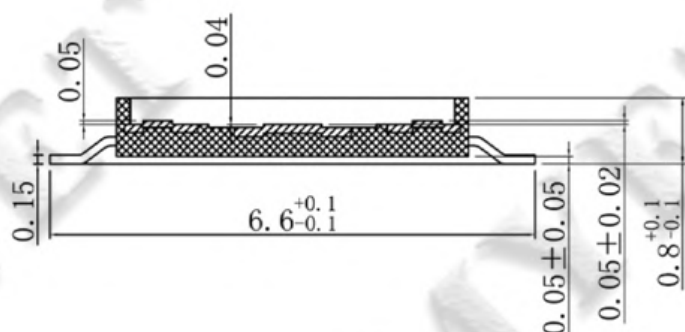
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	100,000

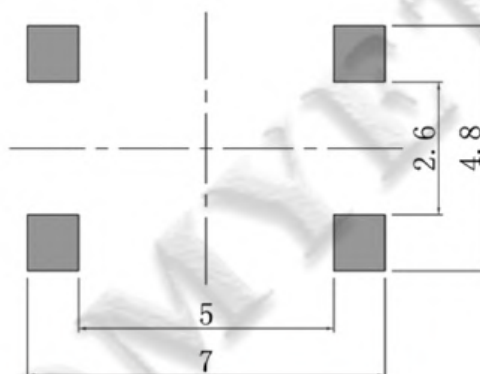


### SOLDERING CONDITIONS

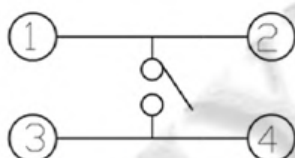
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



### P.C.B. Land Pattern



### Circuit Diagram

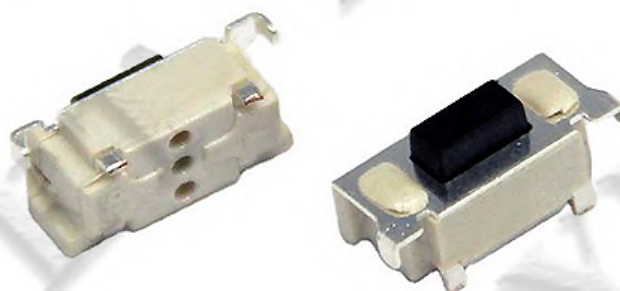


## HY-1188



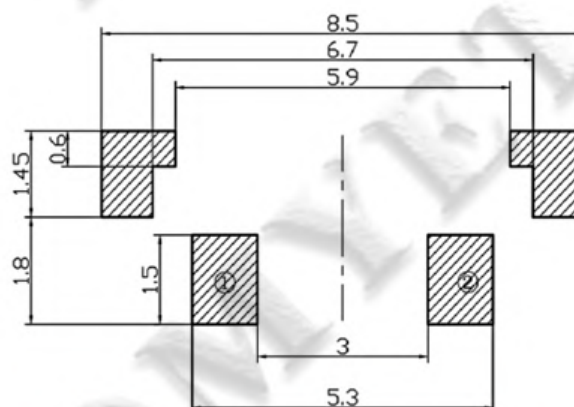
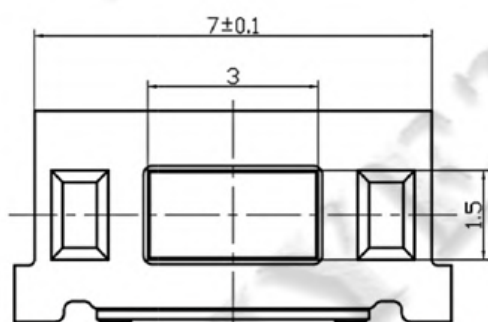
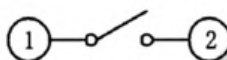
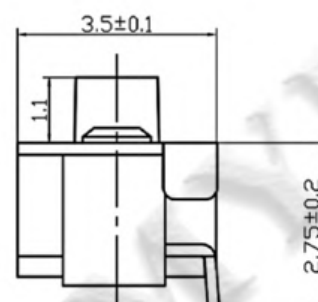
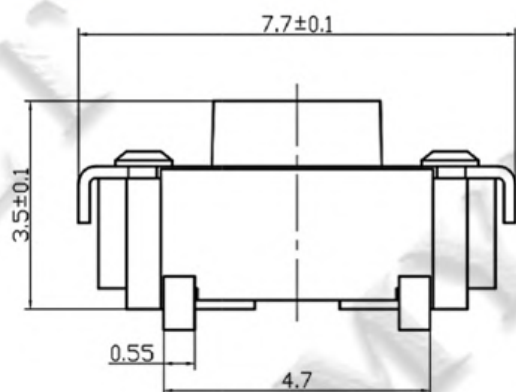
### SPECIFICATIONS

Rated Input Current	50mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 200 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50\text{gf}$
Operation life	50,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

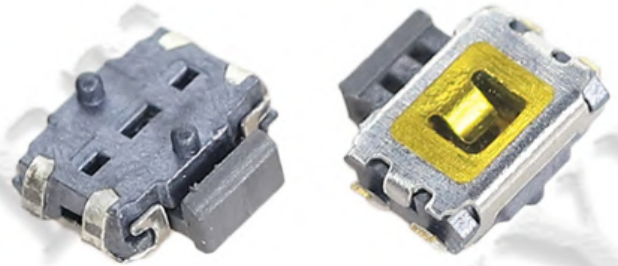


## HY-1189UE



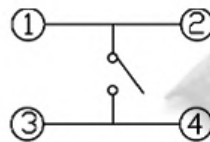
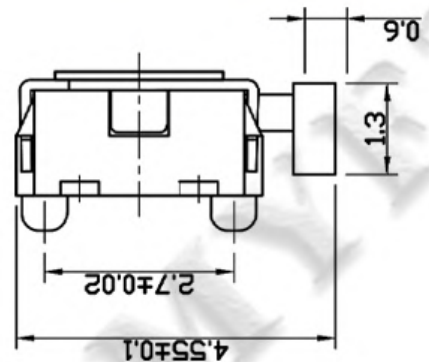
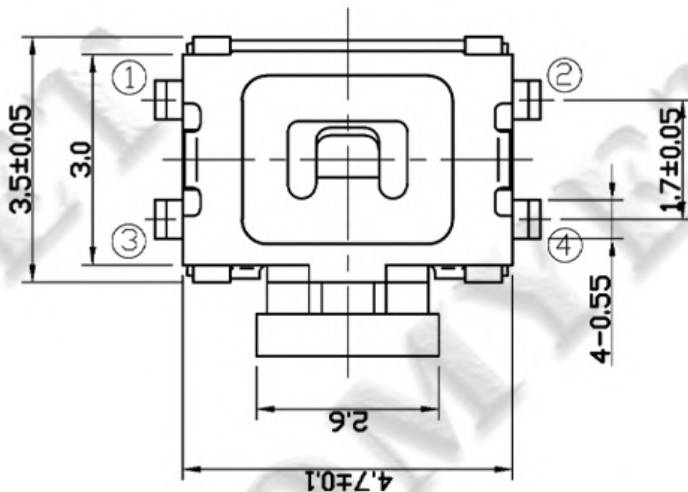
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	180/250 $\pm$ 30gf
Operation life	100,000

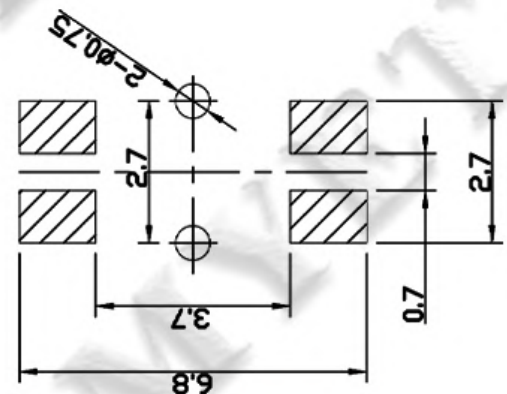
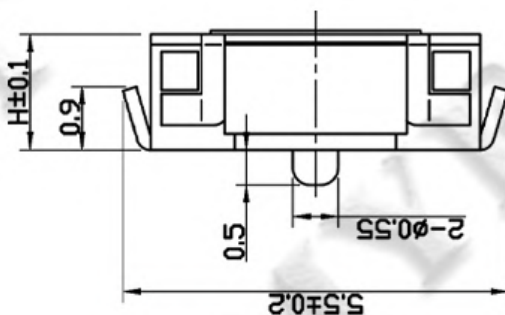


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



P.C.B LAND DIMENSION

## HY-1305



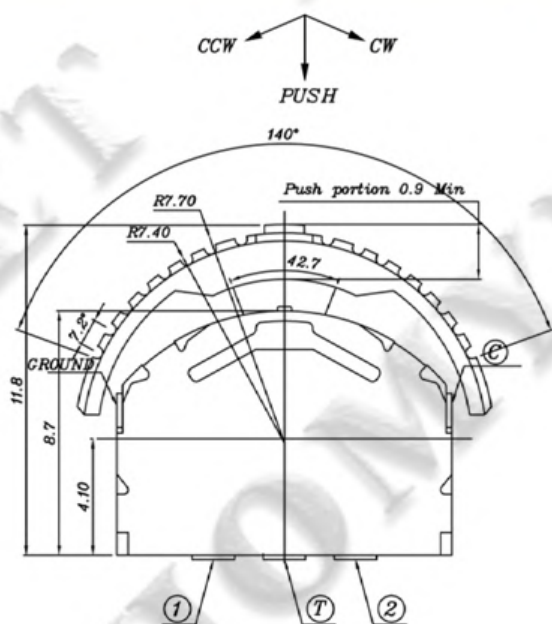
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 30 \text{ gf}$
Operation life	50,000

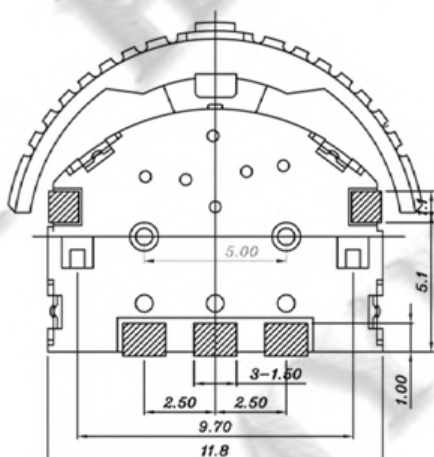
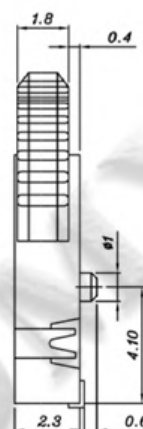
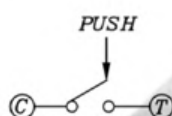


### SOLDERING CONDITIONS

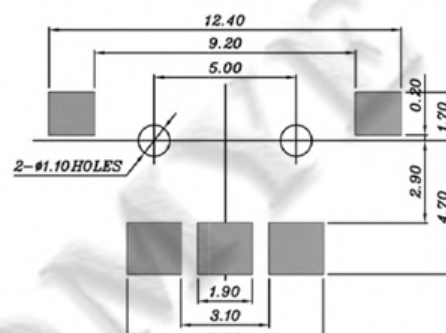
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



CIRCUIT DIAGRAM



SMD REFLOW PATTERN(4/1:±0.05)



## HY-1305A



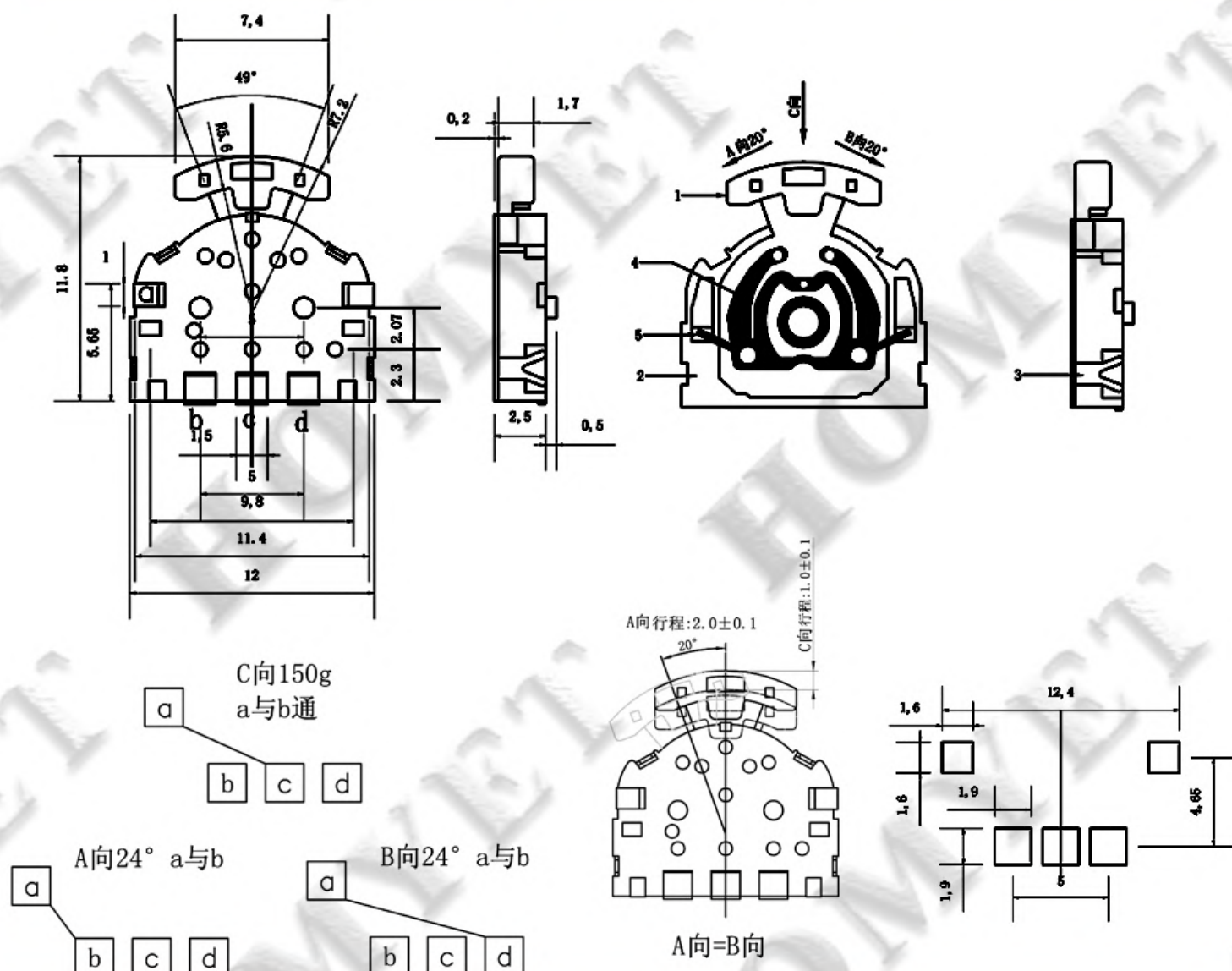
### SPECIFICATIONS

Rated Input Current	0.1A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	205 $\pm$ 100gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



## HY-1501



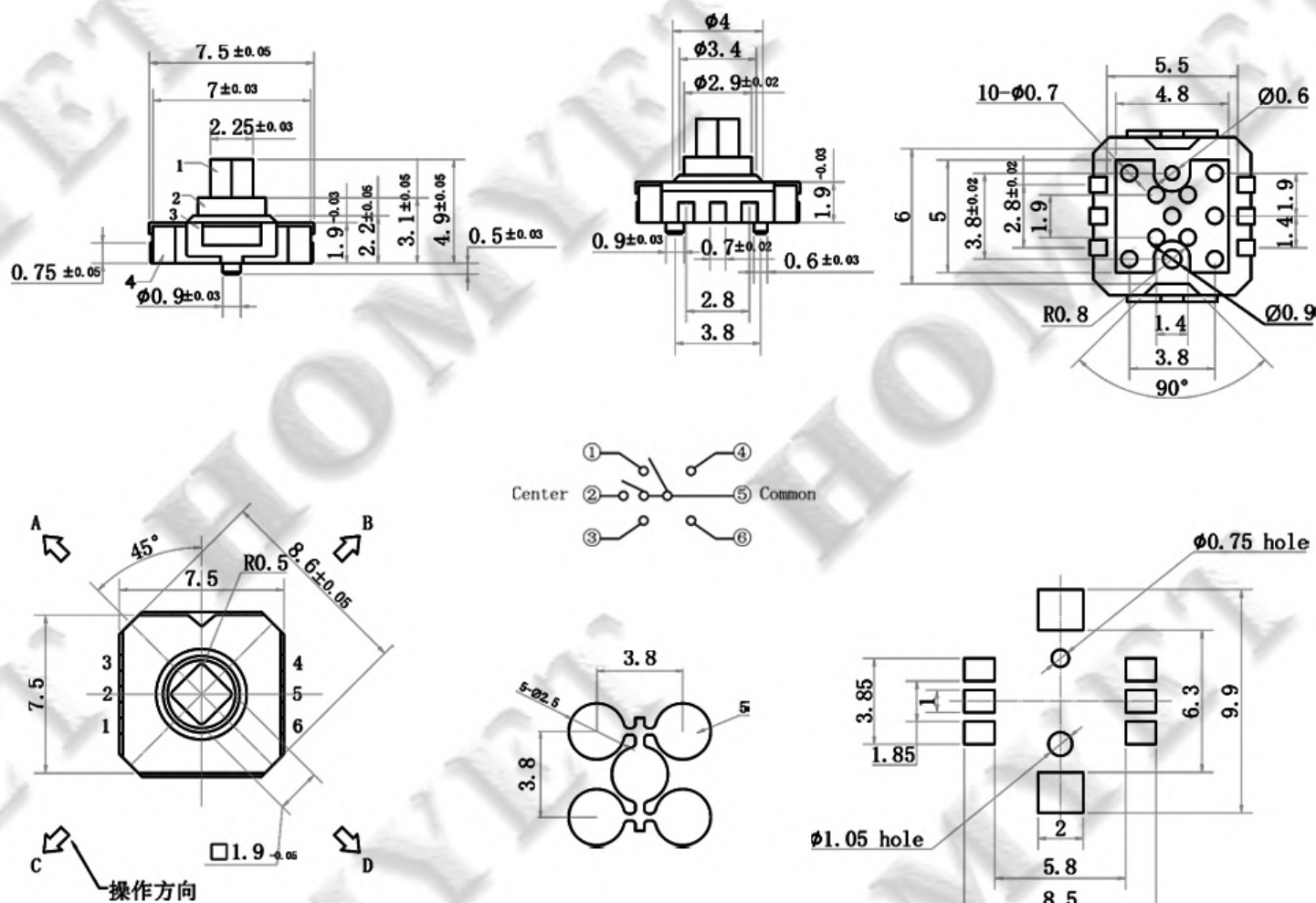
### SPECIFICATIONS

Rated Input Current	0.1A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	$240 \pm 20\text{gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

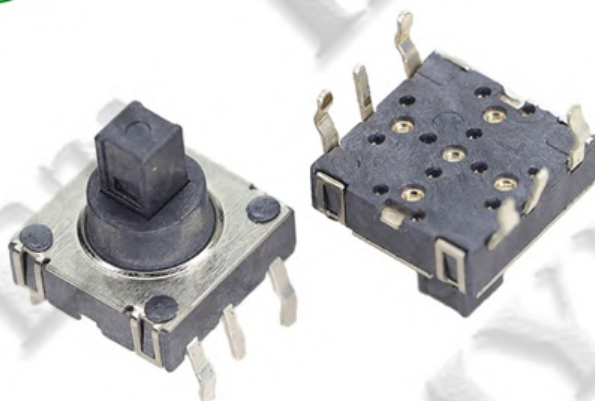


## HY-1503



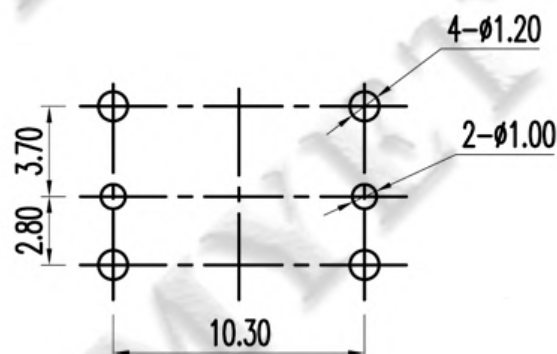
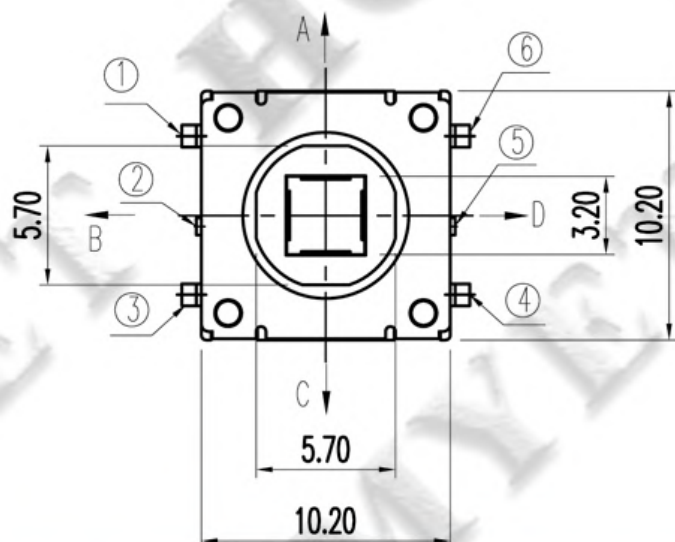
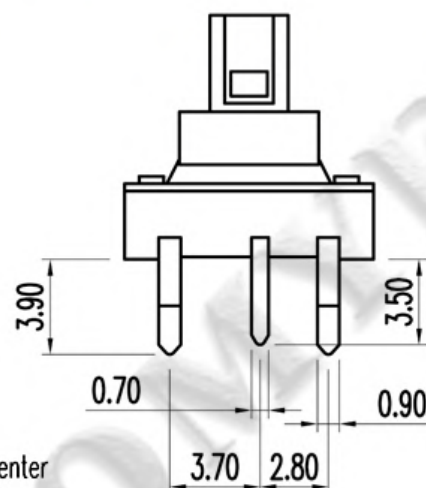
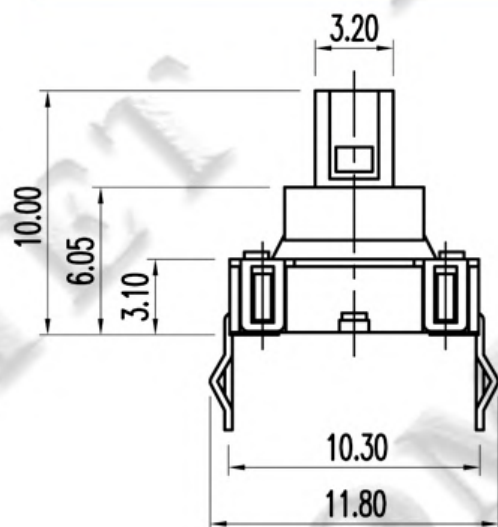
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	$320 \pm 100 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



P.C.Board land Dimensions

## HY-1512



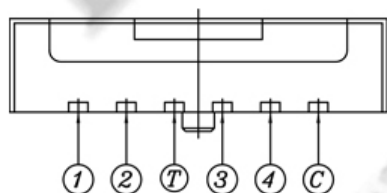
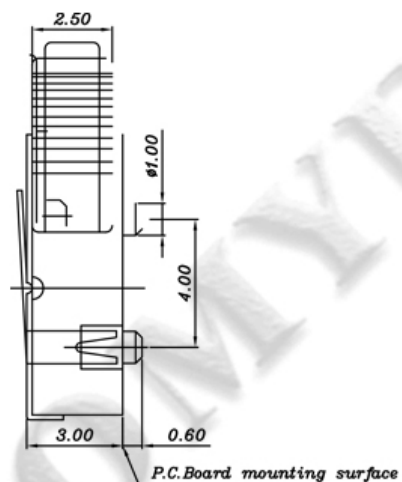
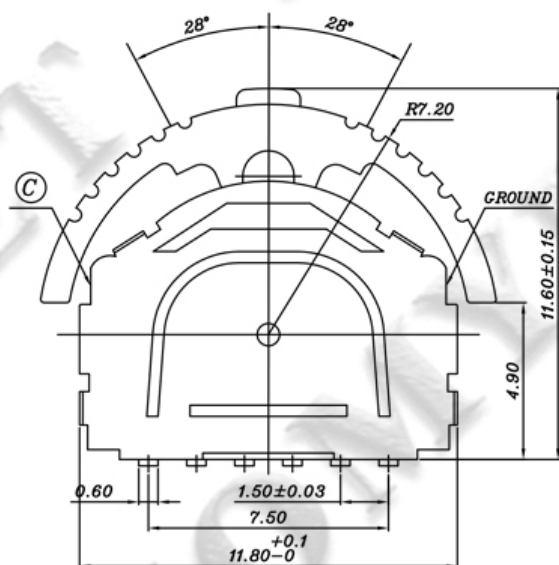
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	$200 \pm 100 \text{ gf}$
Operation life	100,000

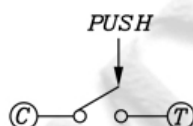


### SOLDERING CONDITIONS

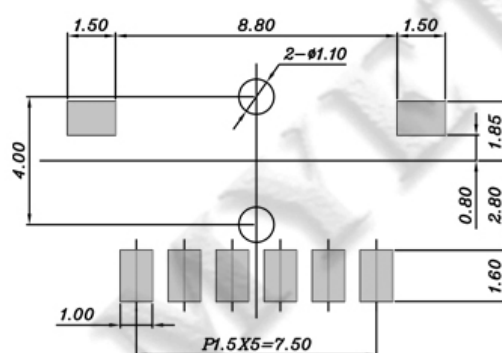
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



电气原理图



P.C.B LAND PATTERN



## HY-1515



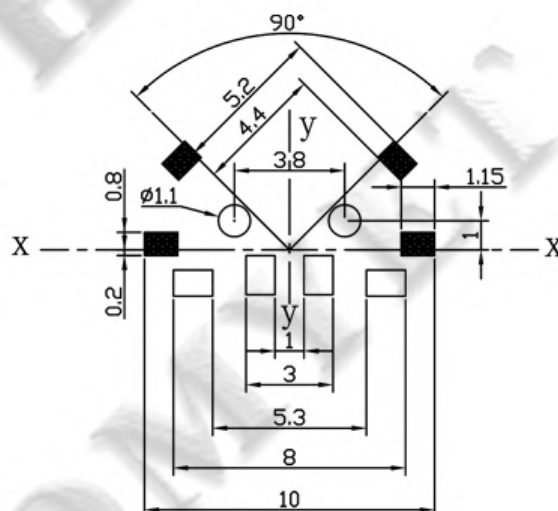
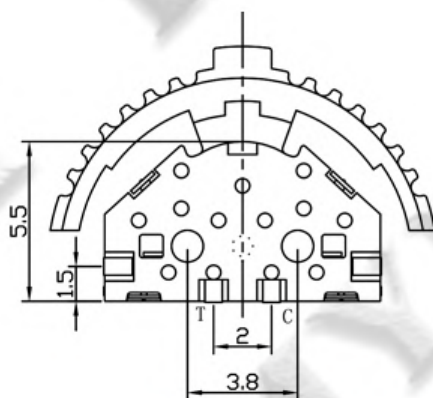
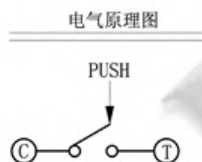
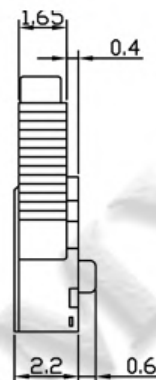
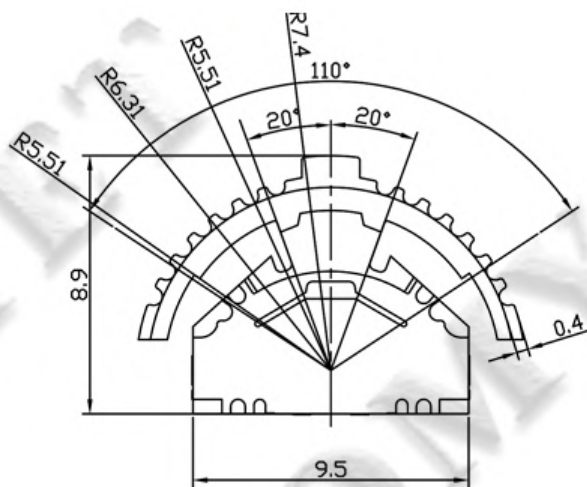
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	$200 \pm 100 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)





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## Two views of a black, curved, gear-like component. The left view shows the component from the front, featuring a series of small holes along its length and a central slot. The right view shows the component from the back, revealing a different set of features and a more complex internal structure.

Rated Input Current	0.1 A
Rated Input Voltage	DC 12V
Contact Resistance	≤100 mΩ
Insulation Resistance	≥100MΩ
Dielectric voltage proof	100V AC/1min
Operating Force	200±50gf
Operation life	100,000

## Hand soldering

(1) Soldering temperature: 350°C Max.

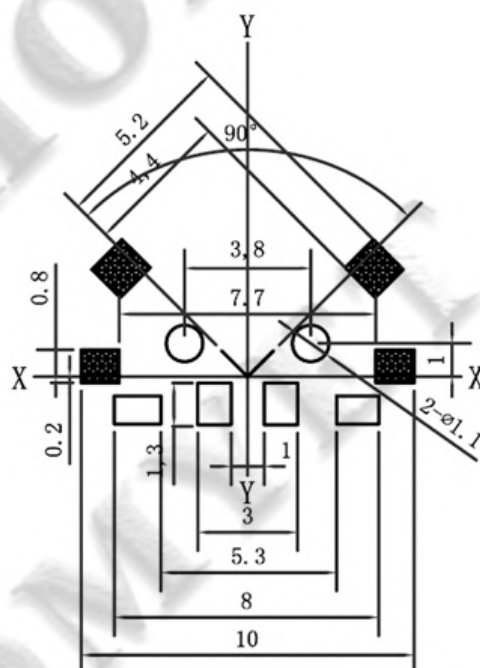
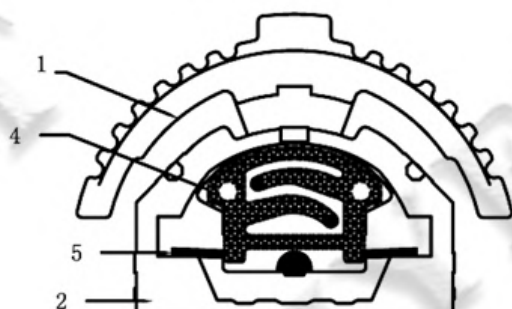
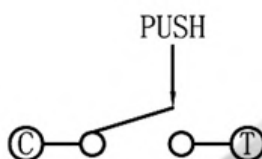
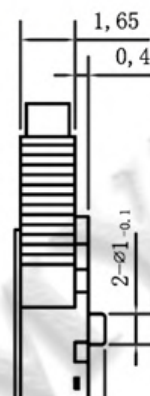
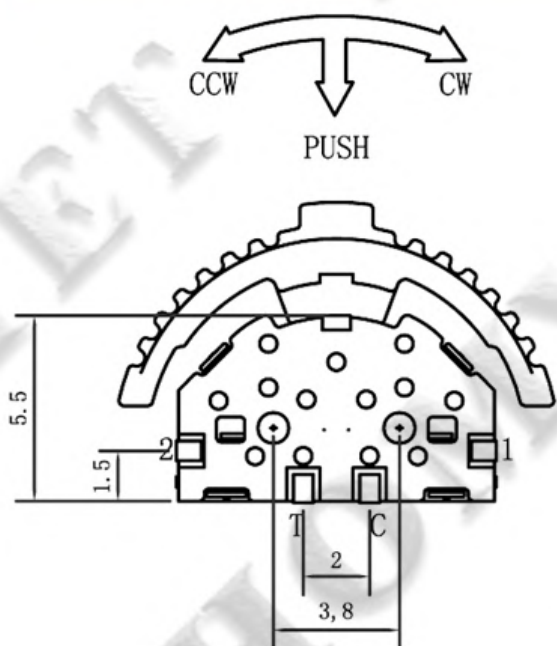
(2) Continuous soldering time: 5 s Max.

## Automatic soldering

(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec

(2) Peak temperature ---260°C (max)

(3) Soldering area temperature ---260°C, 1 ~ 4 sec,  
2 times (max)



## HY-1517



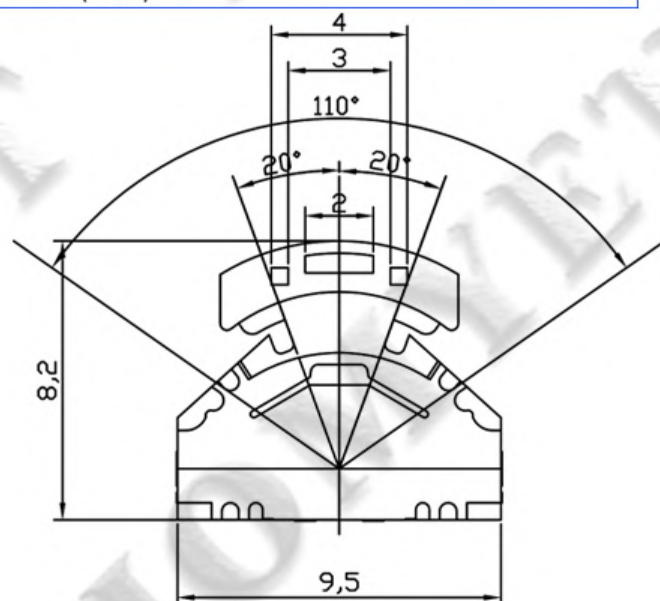
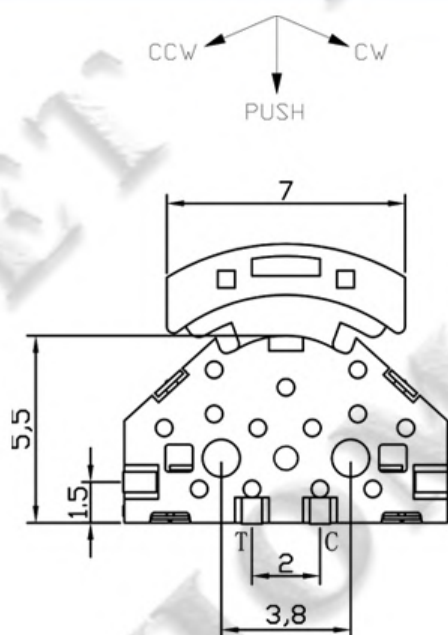
### SPECIFICATIONS

Rated Input Current	0.1 A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	$200 \pm 50 \text{ gf}$
Operation life	100,000

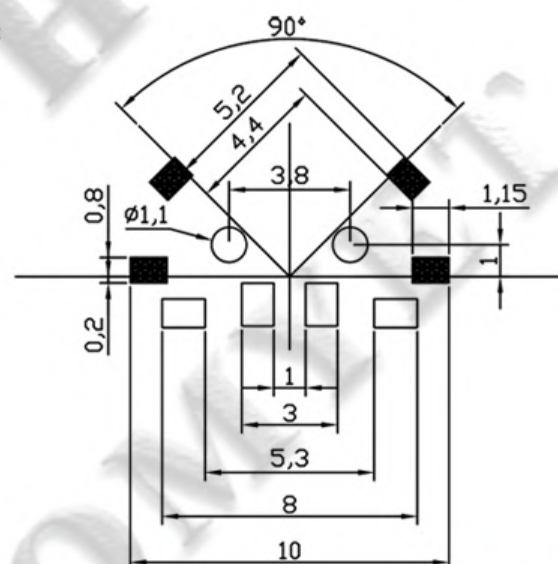
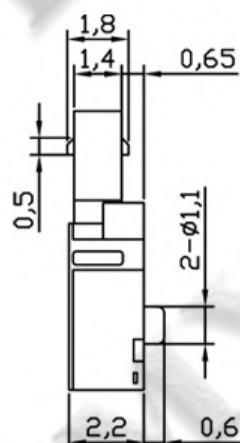
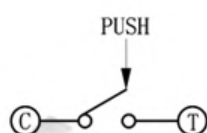


### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



电气原理图

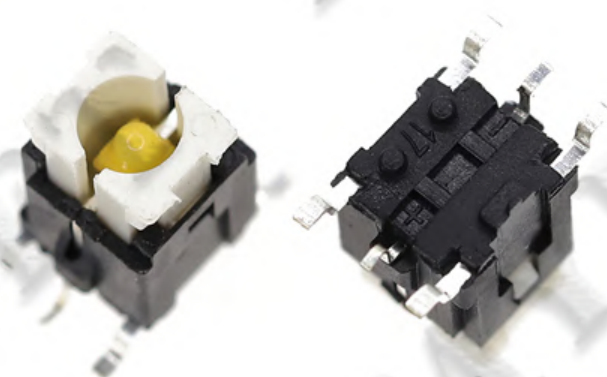


## HY-2013



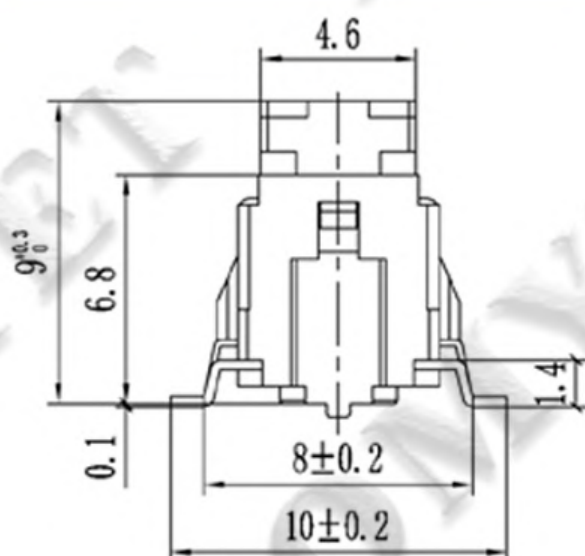
### SPECIFICATIONS

Rated Input Current	0.3 A
Rated Input Voltage	DC 30V
Contact Resistance	$\leq 50 \text{ m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric voltage proof	100V AC/1min
Operating Force	$260 \pm 50\text{gf}$
Operation life	80,000

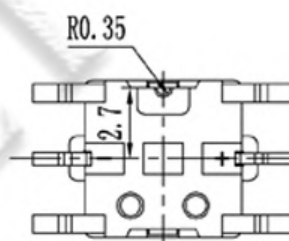
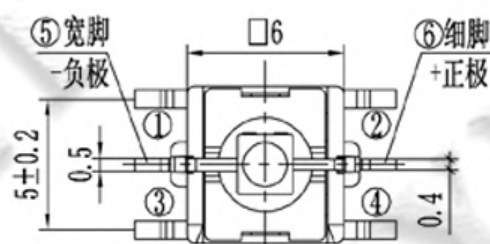
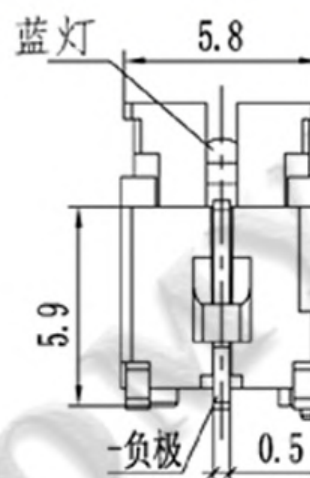
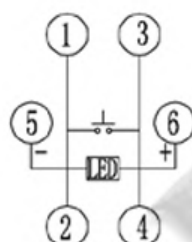


### SOLDERING CONDITIONS

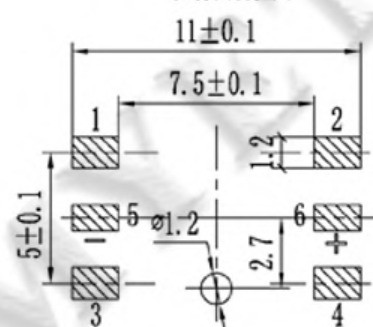
Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



电原理图



元件面孔位图

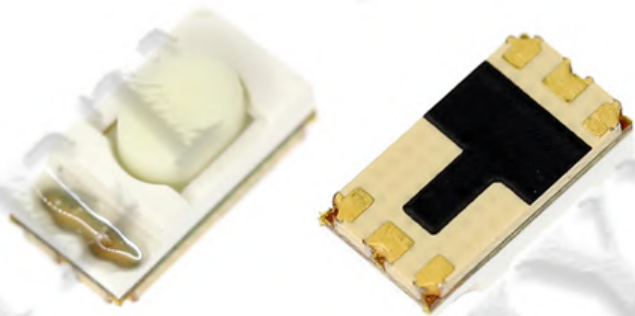


**HY-3602L**



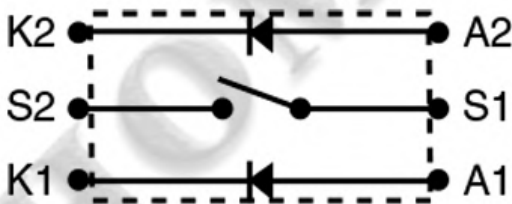
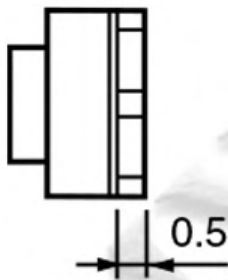
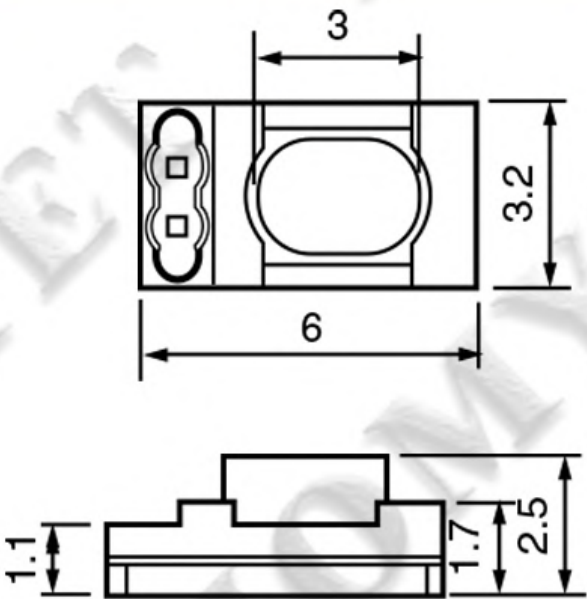
**SPECIFICATIONS**

Rated Input Current	20 mA
Rated Input Voltage	DC 12V
Contact Resistance	≤ 50 mΩ
Insulation Resistance	≥ 100MΩ
Dielectric voltage proof	250V AC/1min
Operating Force	1.76±0.49 N
Operation life	50,000



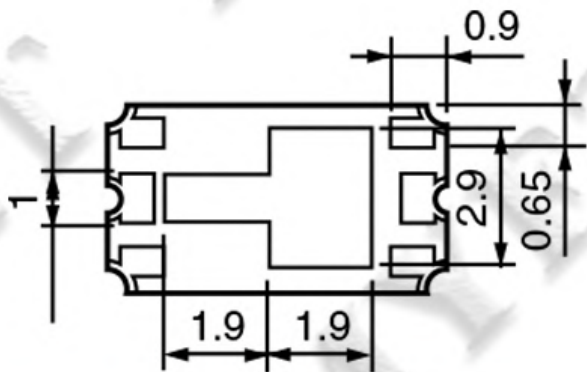
**SOLDERING CONDITIONS**

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



回路図

Circuit diagram

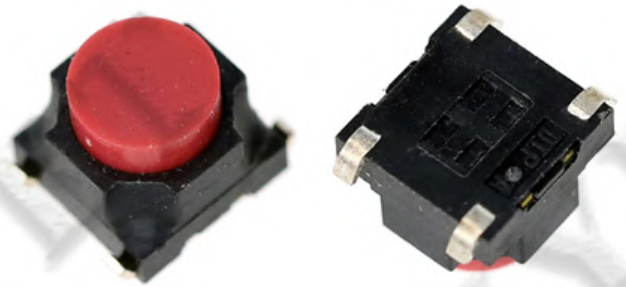


## HY-6609



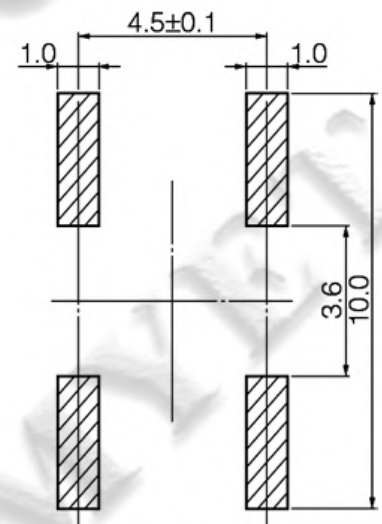
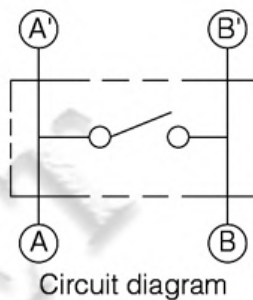
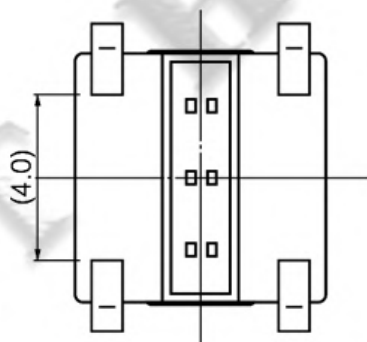
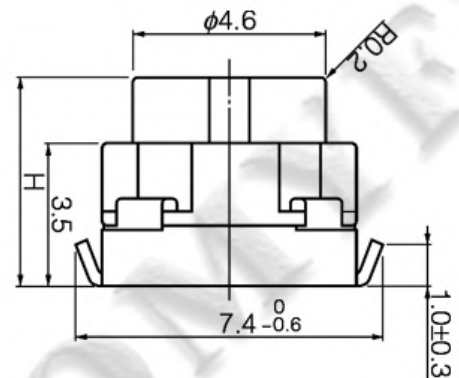
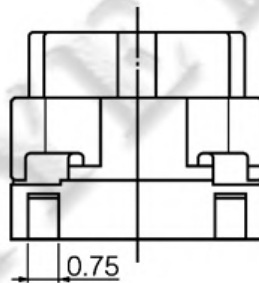
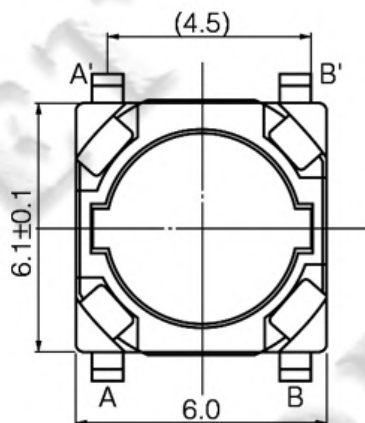
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$2.5 \pm 0.6 \text{ N}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



PWB land pattern for reference

## HY-6650



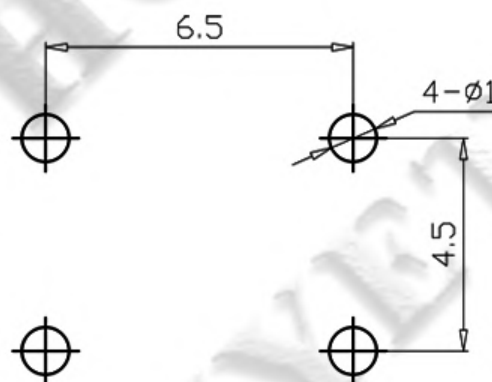
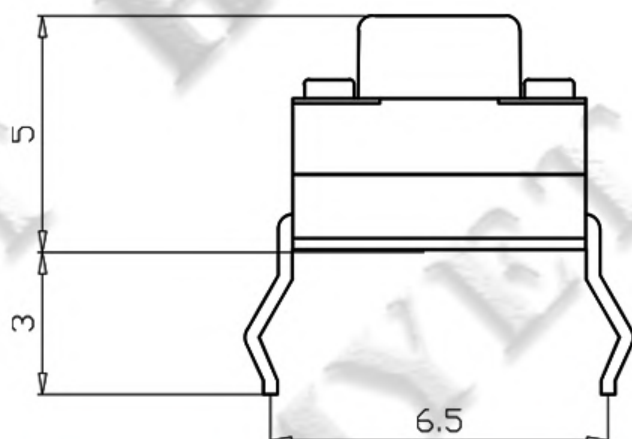
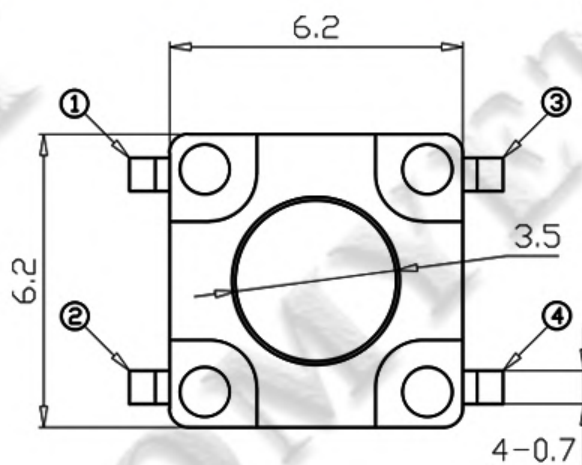
### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$250 \pm 50 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

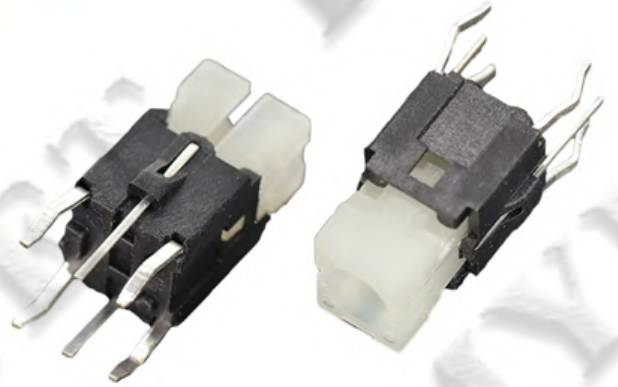


## HY-DD6611



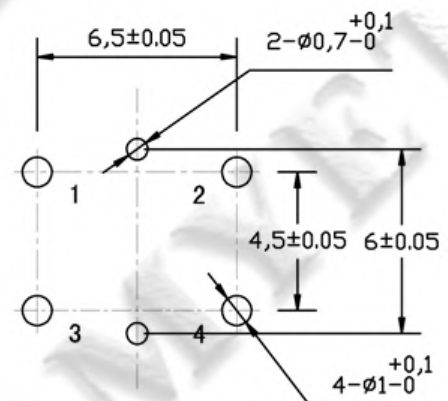
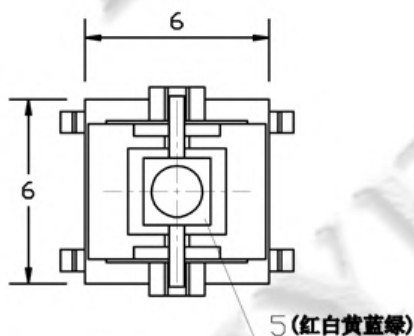
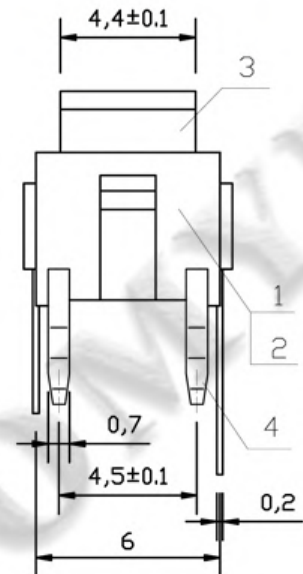
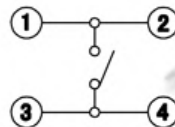
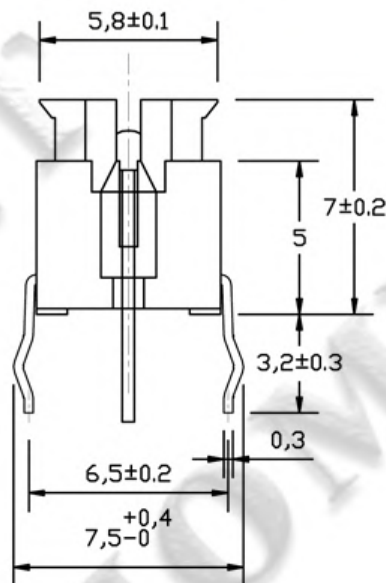
### SPECIFICATIONS

Rated Input Current	0.5A
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 25 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	$180 \pm 50 \text{ gf}$
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)



安装尺寸 (从焊锡面看)

## HY-1102HS



### SPECIFICATIONS

Rated Input Current	50 mA
Rated Input Voltage	DC 12V
Contact Resistance	$\leq 100 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Dielectric voltage proof	250V AC/1min
Operating Force	250 $\pm$ 40gf
Operation life	100,000



### SOLDERING CONDITIONS

Hand soldering	(1) Soldering temperature: 350°C Max. (2) Continuous soldering time: 5 s Max.
Automatic soldering	(1) Preheat ---150°C ~ 175°C, 40 ~ 80 sec (2) Peak temperature ---260°C (max) (3) Soldering area temperature ---260°C, 1 ~ 4 sec, 2 times (max)

