# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

## ■ Specification :

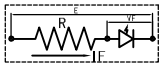
- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :200±100gf
- Mechanical Life :10.000 Cycles

Pay attention to the use of LED lighting switch

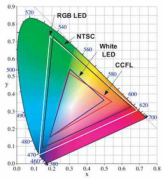
①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.

②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

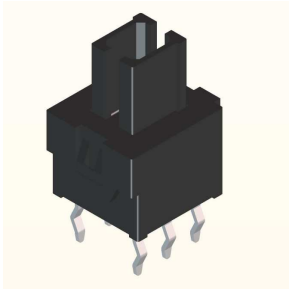
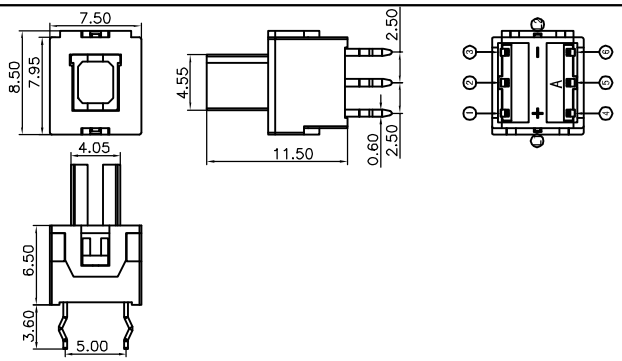
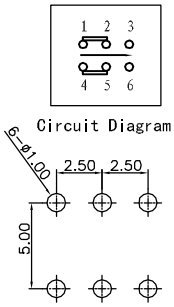
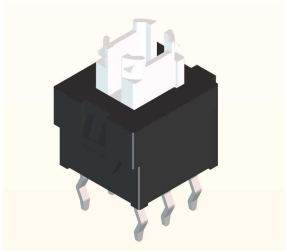
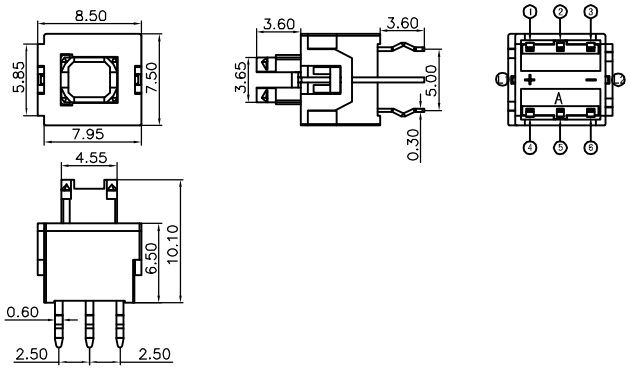
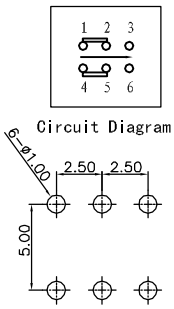
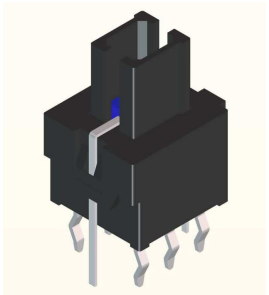
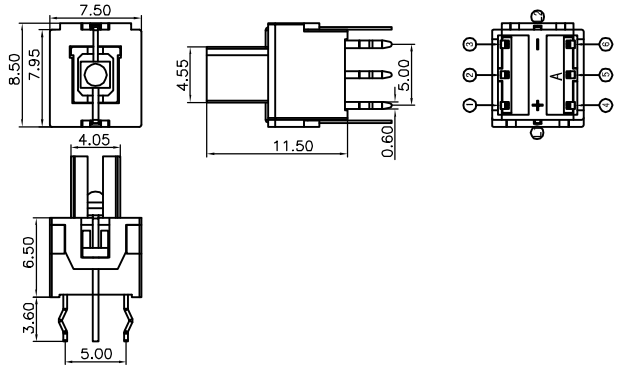
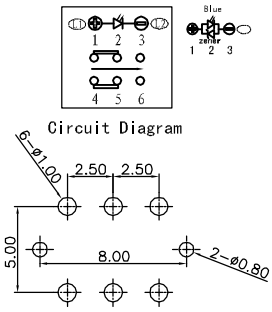
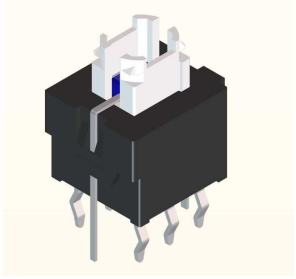
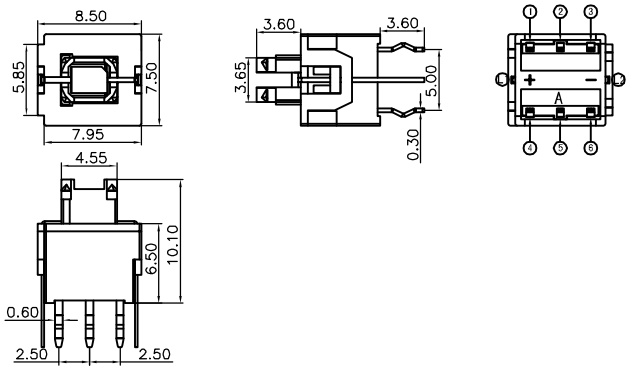
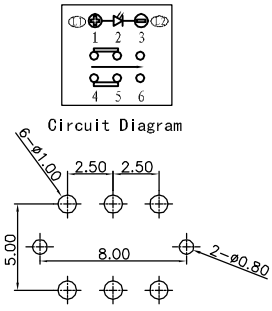
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | Vf(V) Typ | Vf(V) Max | λ(nm) λD | λ(nm) λP | λ(nm) Δλ | Iv(mcd) Min | Iv(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3085D10042200E |  |  PCB Layout Recommended |
|  T3085D10011150 |  |  PCB Layout Recommended |
|  T3085D10042151E |  |  PCB Layout Recommended |
|  T3085D10011201 |  |  PCB Layout Recommended |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

## ■ Specification :

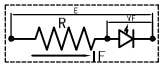
- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :200±100gf
- Mechanical Life :10.000 Cycles

Pay attention to the use of LED lighting switch

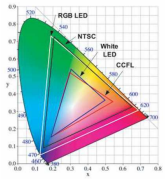
①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.

②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

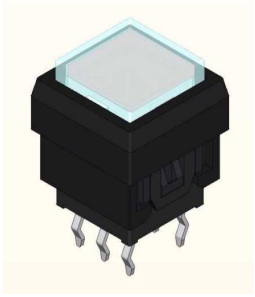
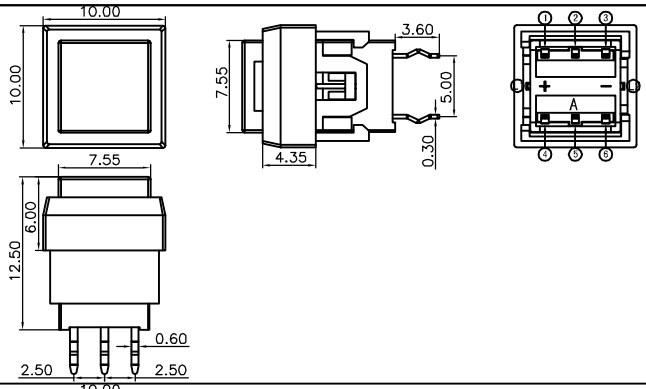
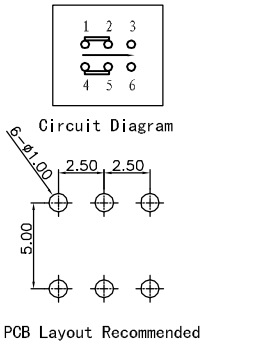
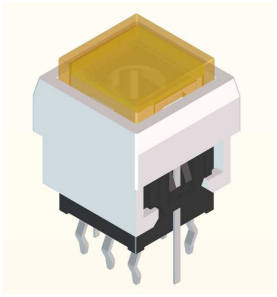
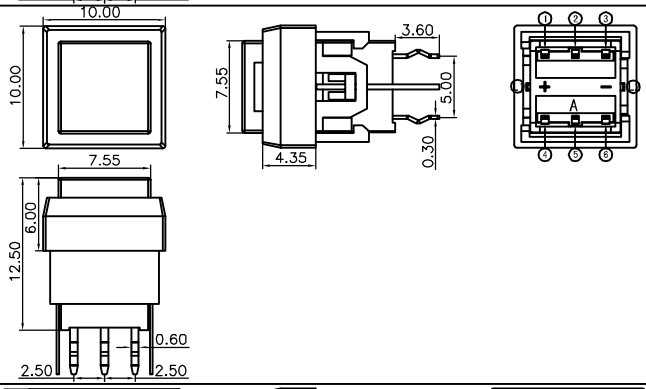
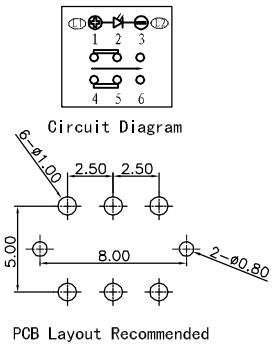
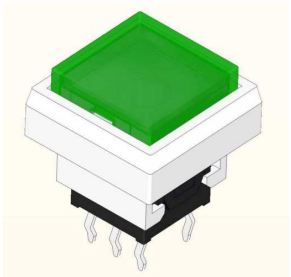
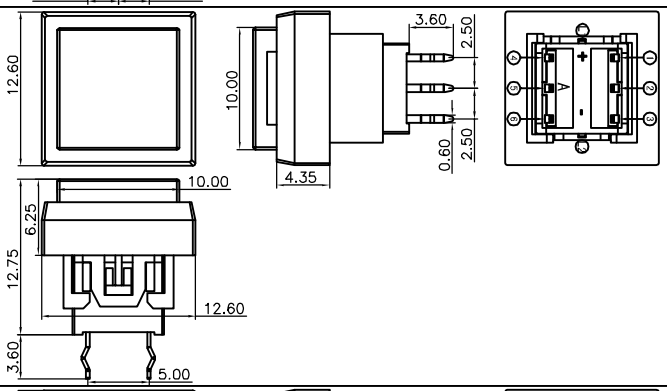
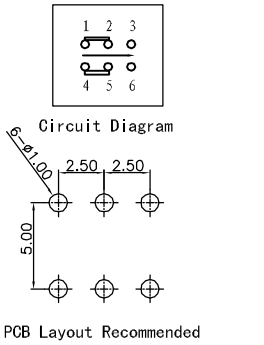
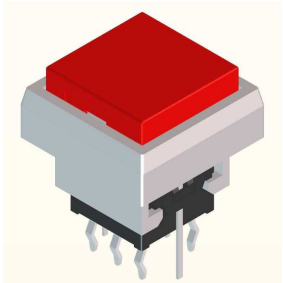
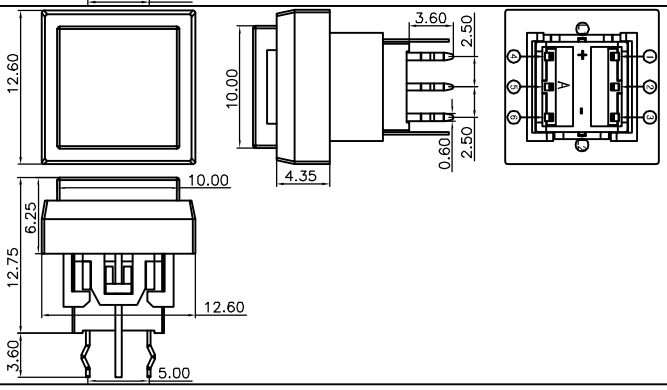
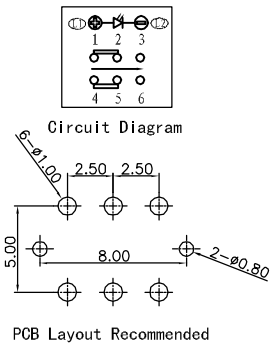
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3010D10011200F |  |  Circuit Diagram PCB Layout Recommended |
|  T3010D10011151 |  |  Circuit Diagram PCB Layout Recommended |
|  T3126D10011200F |  |  Circuit Diagram PCB Layout Recommended |
|  T3126D10011201F |  |  Circuit Diagram PCB Layout Recommended |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

## ■ Specification :

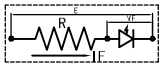
- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :200±100gf
- Mechanical Life :10.000 Cycles

Pay attention to the use of LED lighting switch

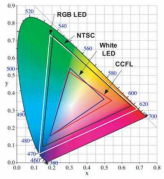
①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.

②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

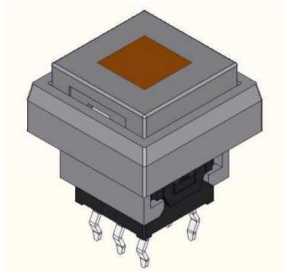
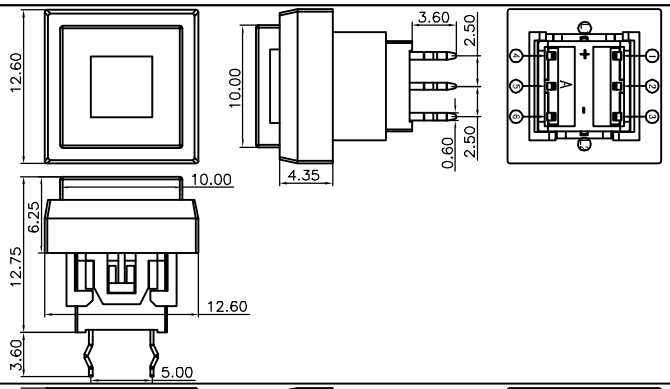
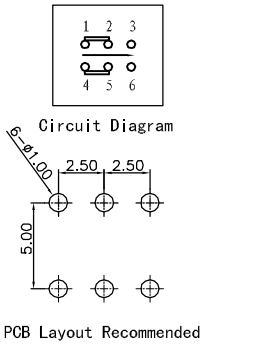
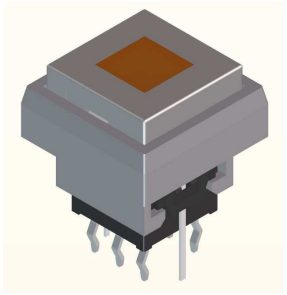
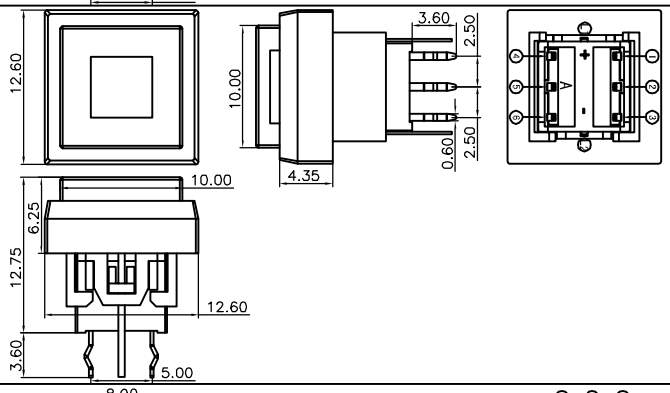
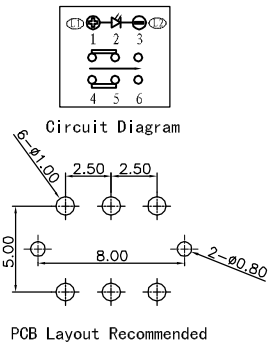
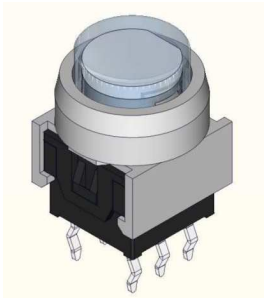
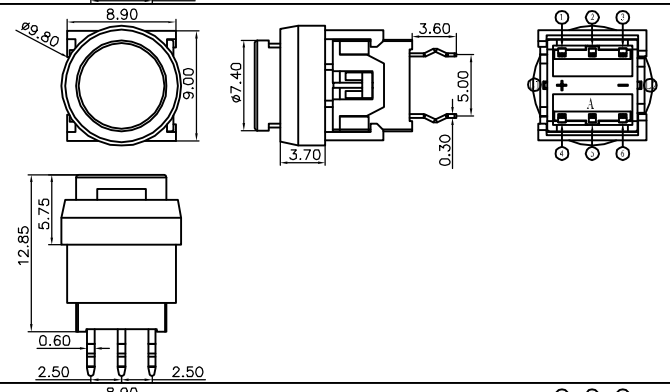
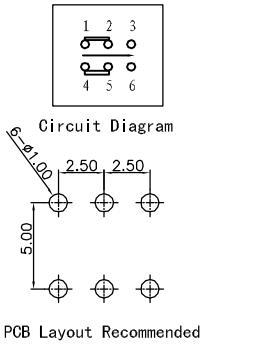
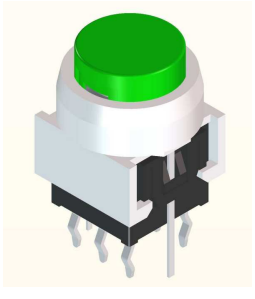
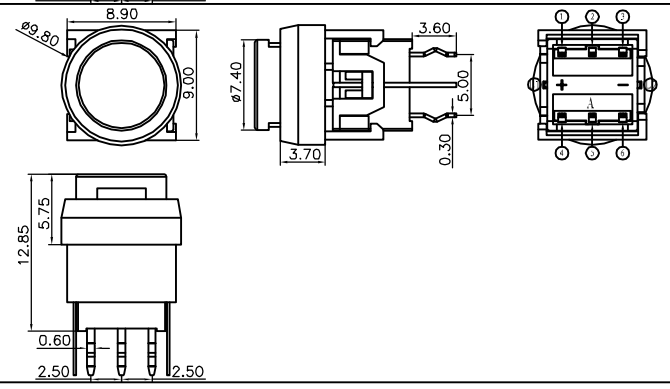
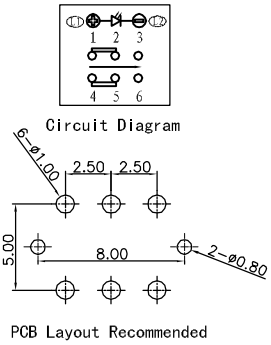
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25~0.31 Y=0.24~0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3126D10011200FF |  |  Circuit Diagram 6-Ø1.00 2.50 2.50 5.00 PCB Layout Recommended |
|  T3126D10011201FF |  |  Circuit Diagram 6-Ø1.00 2.50 2.50 5.00 8.00 2-Ø0.80 PCB Layout Recommended |
|  T3089D10011200Y |  |  Circuit Diagram 6-Ø1.00 2.50 2.50 5.00 PCB Layout Recommended |
|  T3089D10011156Y |  |  Circuit Diagram 6-Ø1.00 2.50 2.50 5.00 8.00 2-Ø0.80 PCB Layout Recommended |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

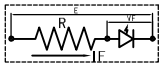
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :200±100gf
- Mechanical Life :10.000 Cycles

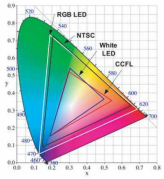
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

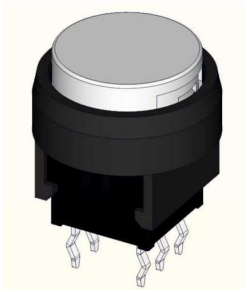
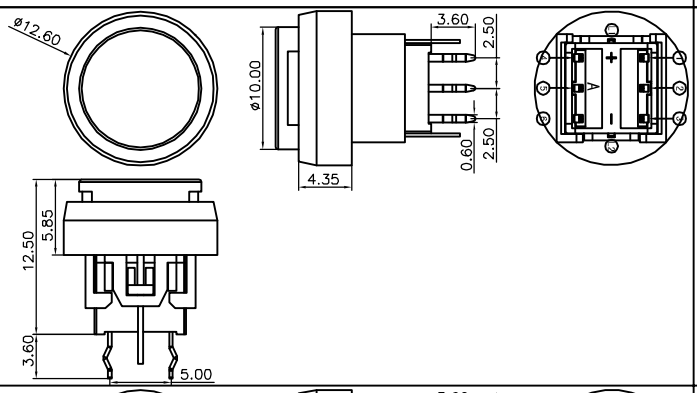
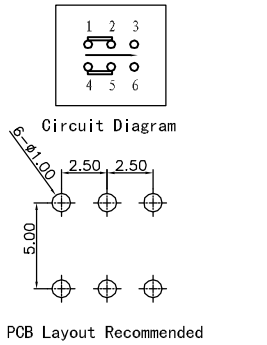
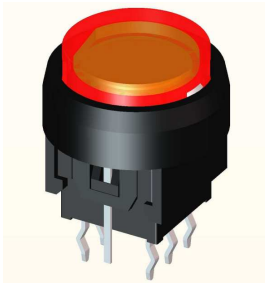
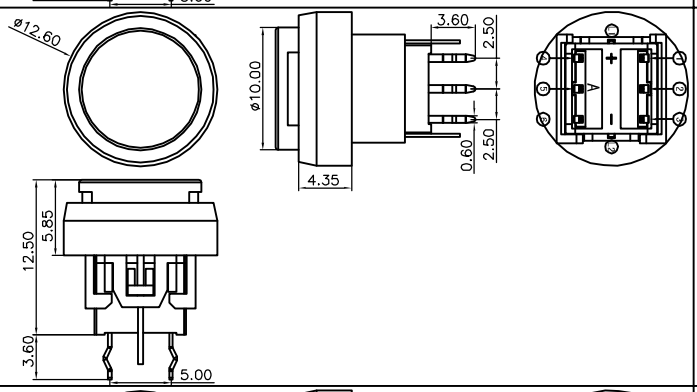
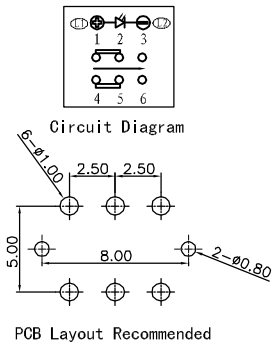
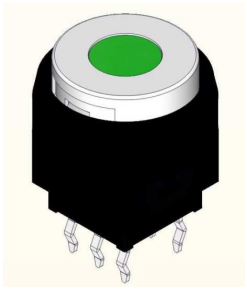
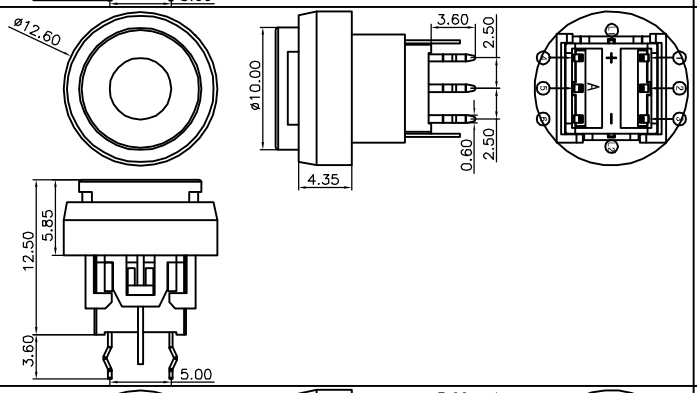
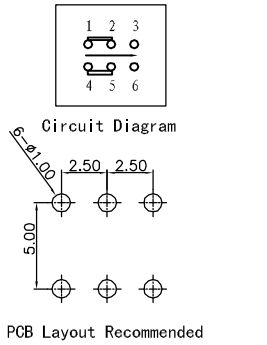
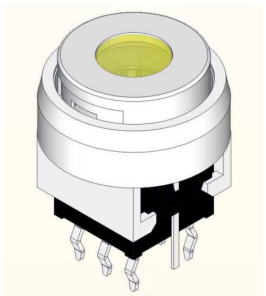
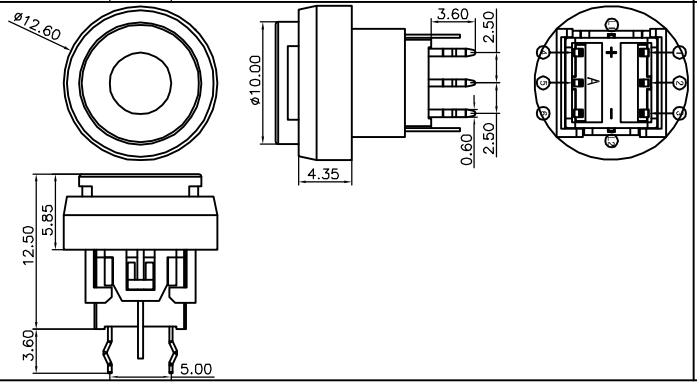
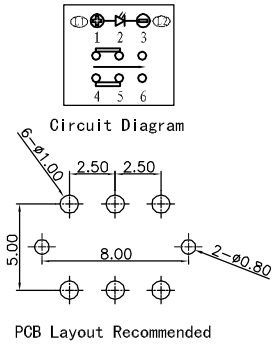
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | Vr(V) Typ | Vr(V) Max | λ(nm) λD | λ(nm) λP | λ(nm) Δλ | Iv(mcd) Min | Iv(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3126D10021200Y |  |  |
|  T3126D10013151Y |  |  |
|  T3126D100331500YY |  |  |
|  T3126D10023154YY |  |  |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

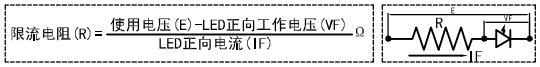
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

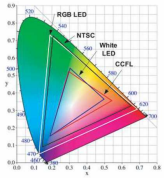
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

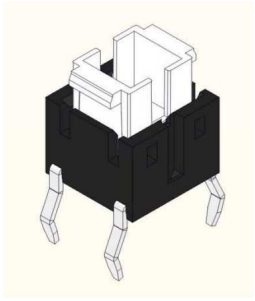
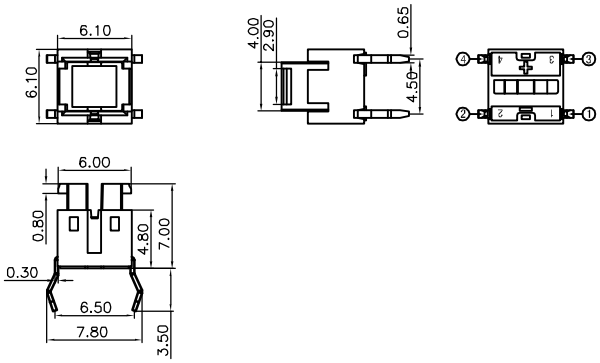
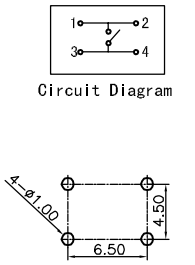
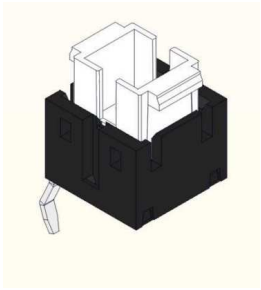
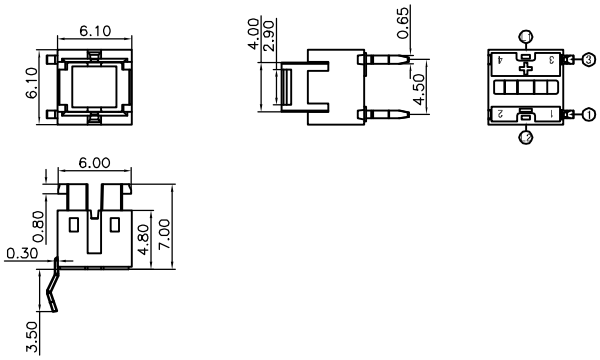
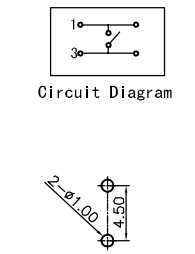
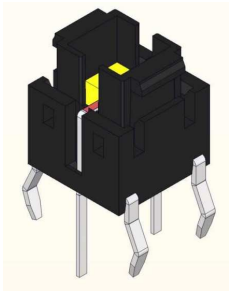
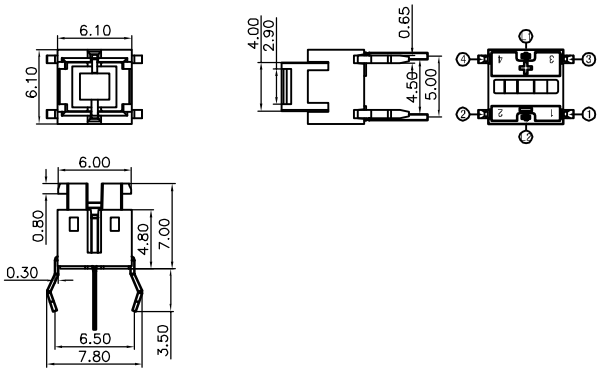
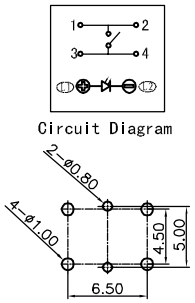
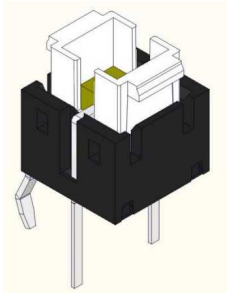
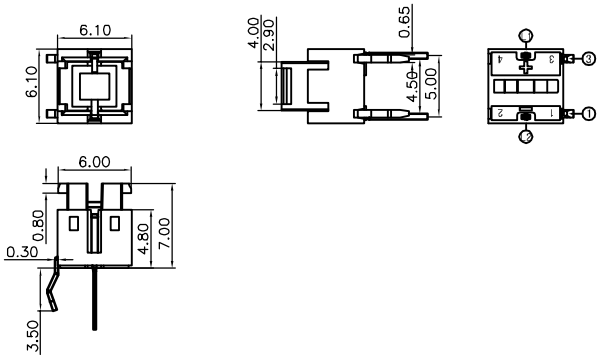
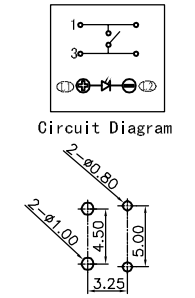
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) Δλ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3061D0101160 |  |  |
|  T3061D0101160-13 |  |  |
|  T3061D01012210 |  |  |
|  T3061D01011614-13 |  |  |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

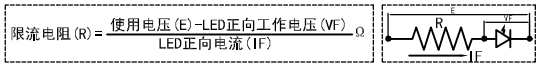
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :150±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

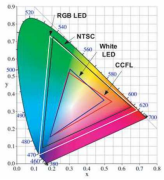
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

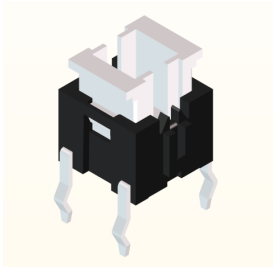
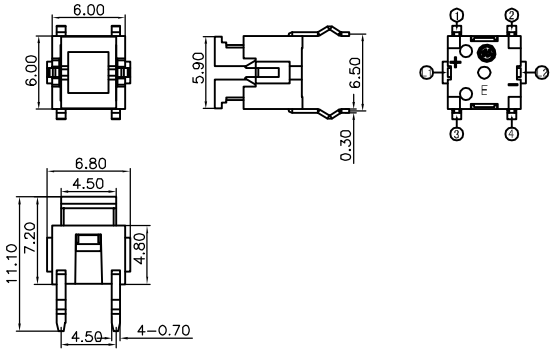
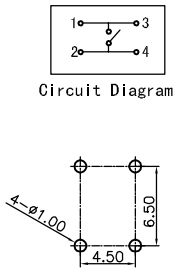
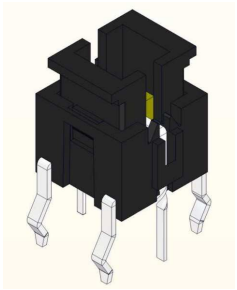
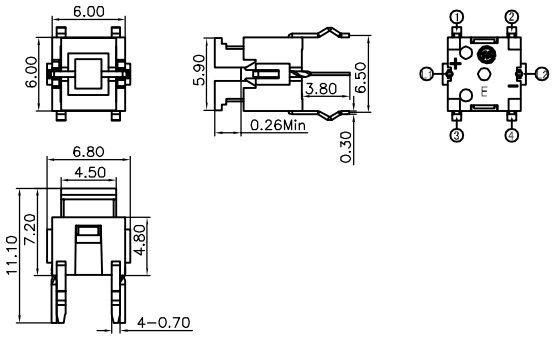
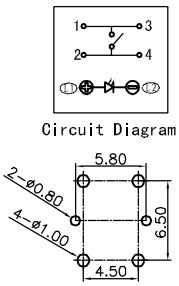
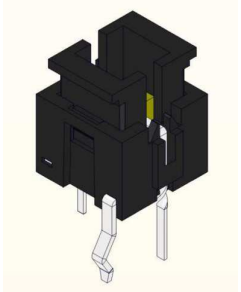
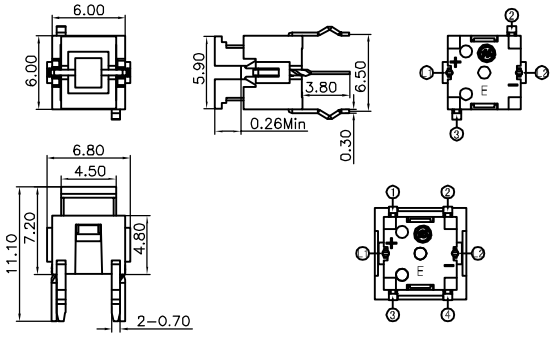
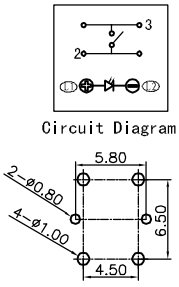
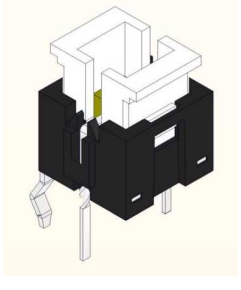
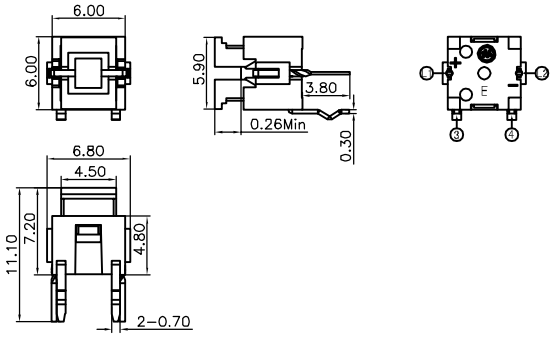
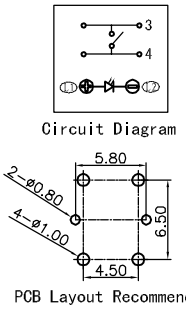
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | Vf (V) Typ | Vf (V) Max | λ (nm) λD | λ (nm) λP | λ (nm) Δλ | Iv (mcd) Min | Iv (mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3068D0101150 |   |   |
|  T3068D01012520A |   |   |
|  T3068D01012520-23 |   |   |
|  T3068D01012515-34 |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

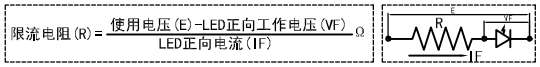
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :150±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

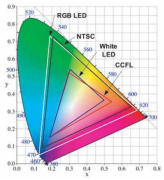
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

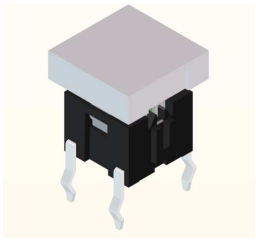
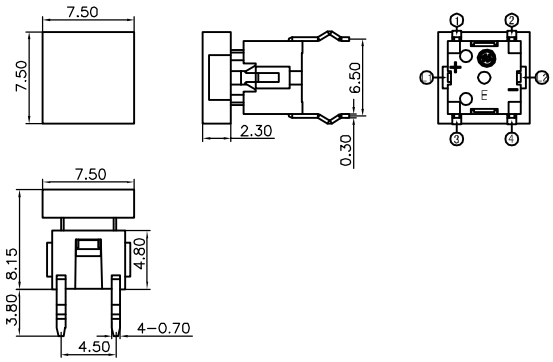
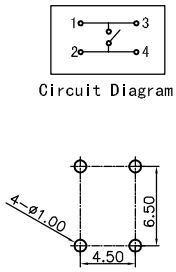
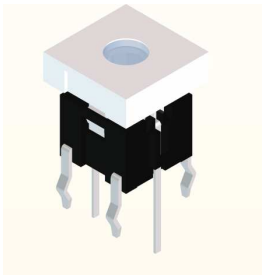
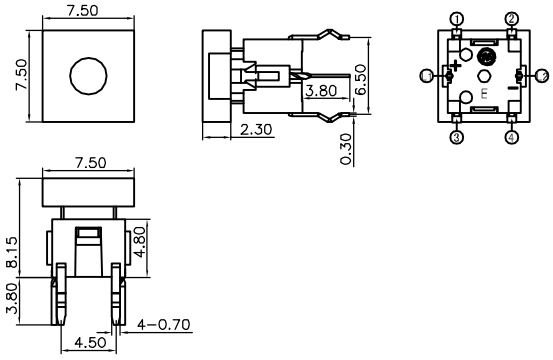
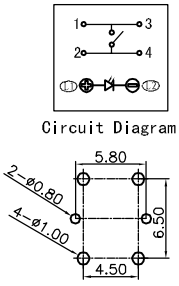
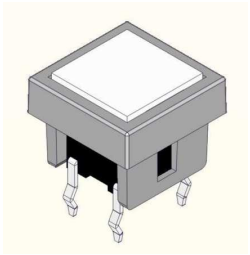
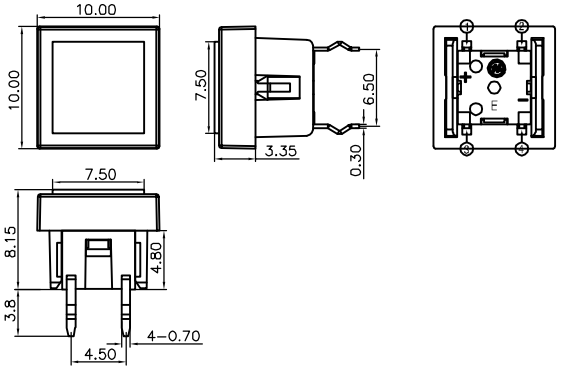
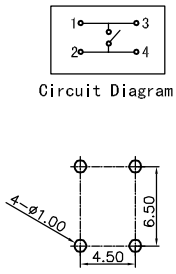
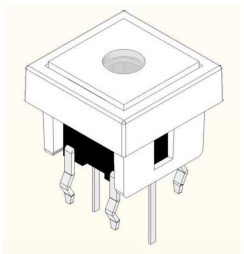
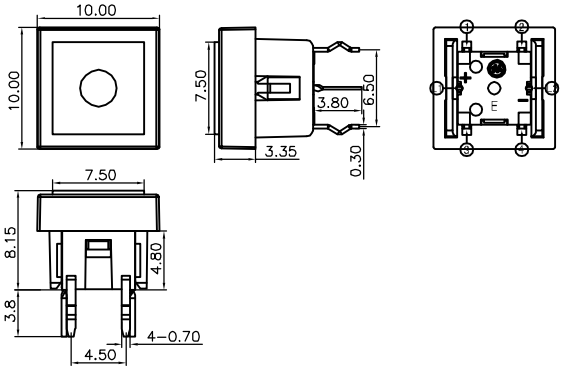
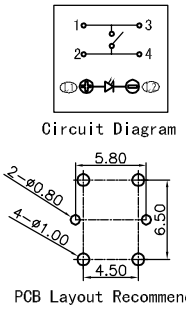
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | Vf (V) Typ | Vf (V) Max | λ (nm) λD | λ (nm) λP | λ (nm) Δλ | Iv (mcd) Min | Iv (mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3075D010115F |   |   |
|  T3075D0101151FF |   |   |
|  T3010D010115F |   |   |
|  T3075D0101151FF |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

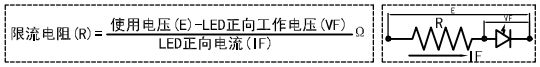
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

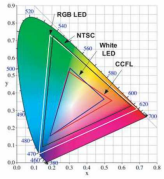
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

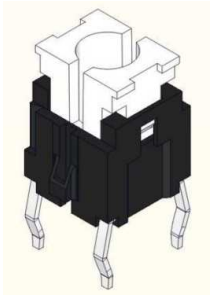
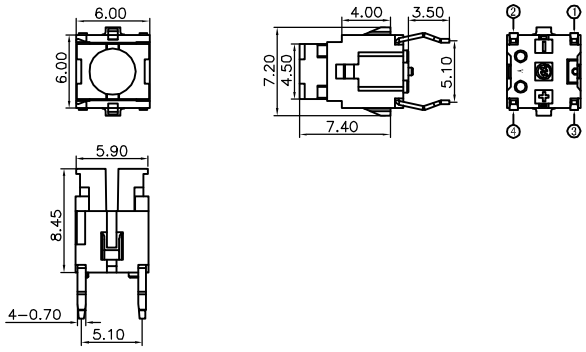
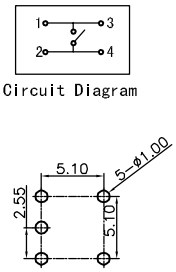
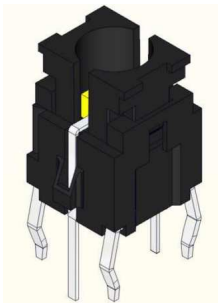
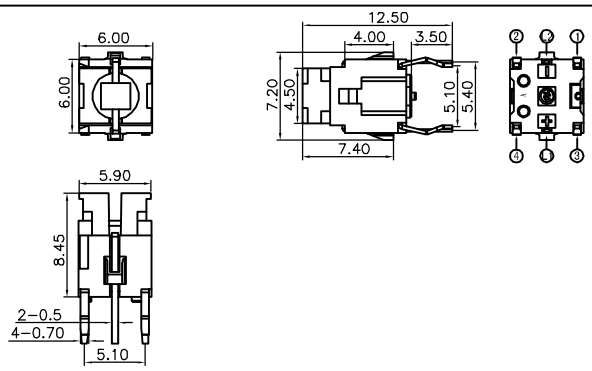
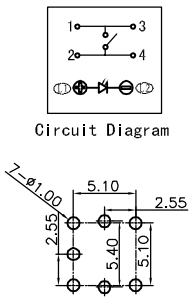
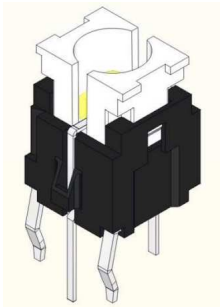
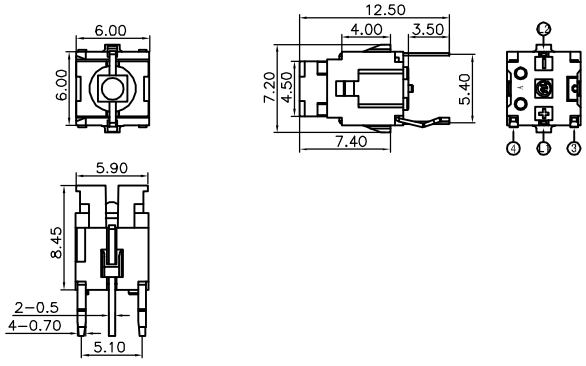
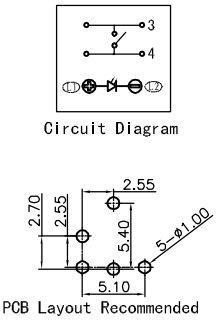
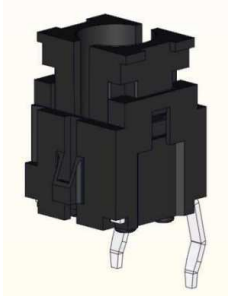
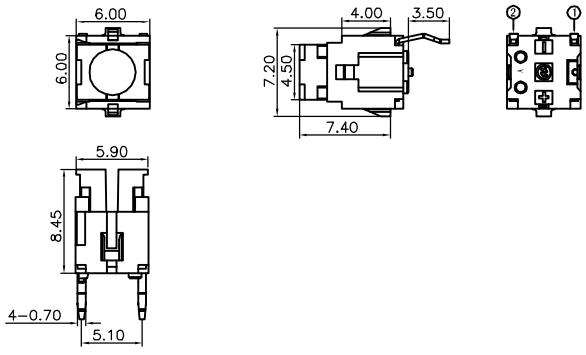
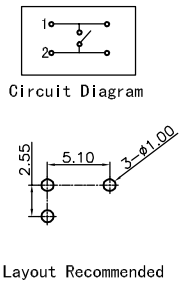
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3072D0101150 |   |   |
|  T3072D0102155 |   |   |
|  T3072D0101155-34 |   |   |
|  T3072D0102150-12 |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

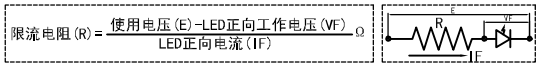
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

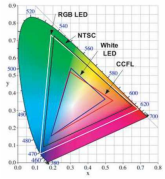
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

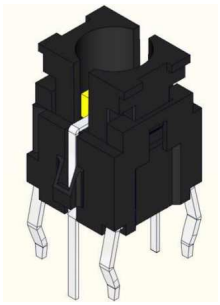
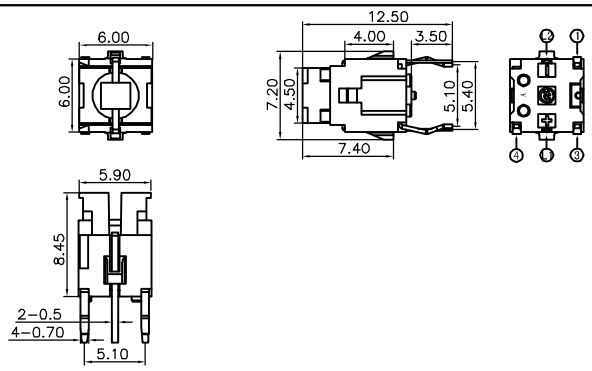
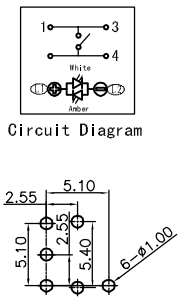
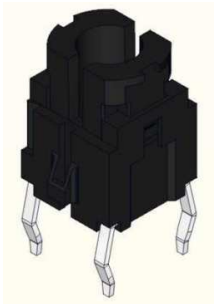
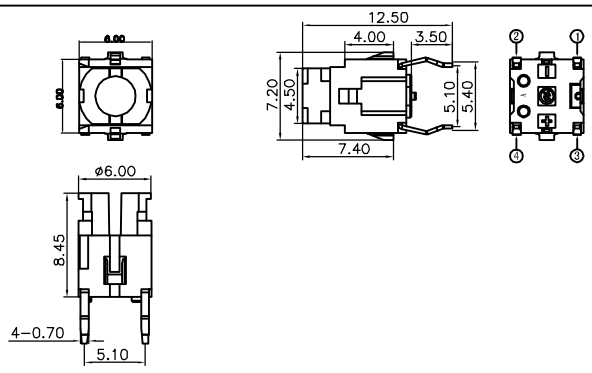
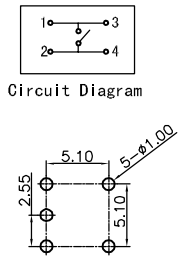
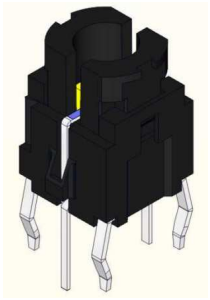
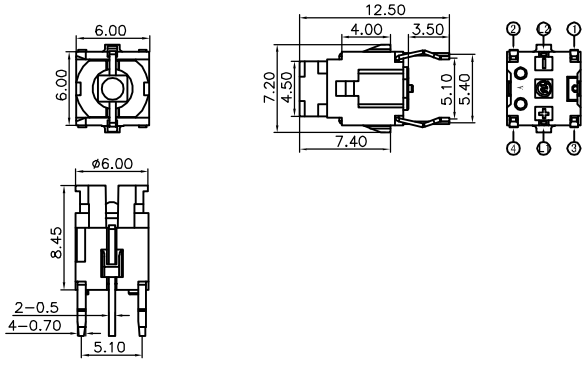
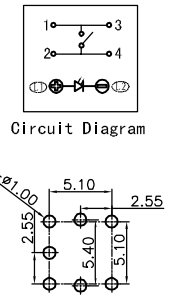
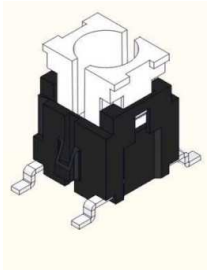
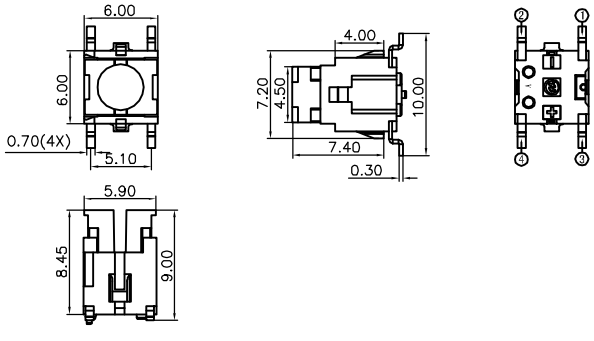
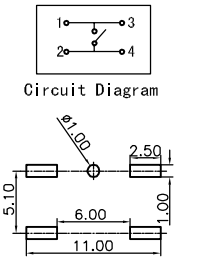
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3072D01011610-134 |   |   Circuit Diagram   PCB Layout Recommended |
|  T3060D0101150 |   |   Circuit Diagram   PCB Layout Recommended |
|  T3060D0101151 |   |   Circuit Diagram   PCB Layout Recommended |
|  T3116S0101150 |   |   Circuit Diagram   PCB Layout Recommended |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

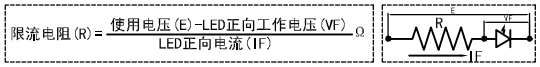
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

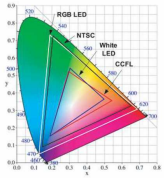
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

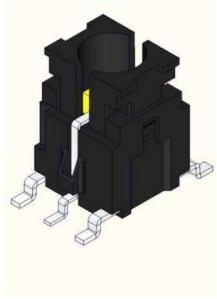
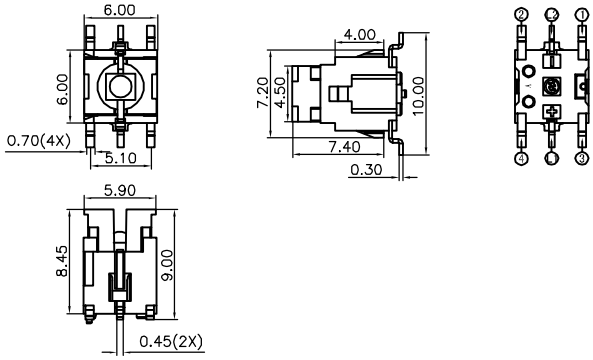
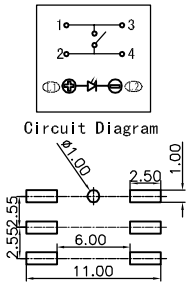
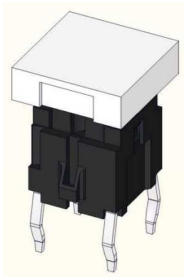
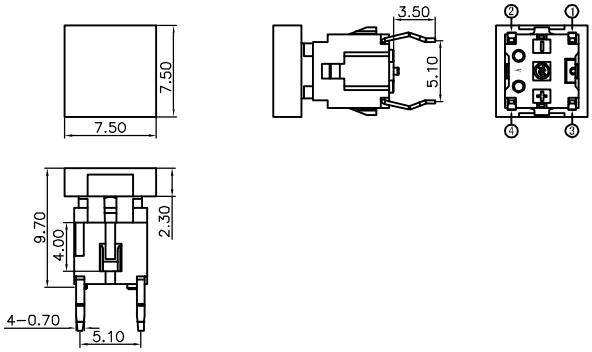
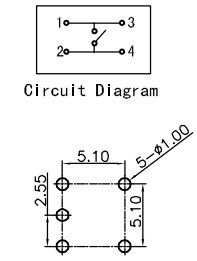
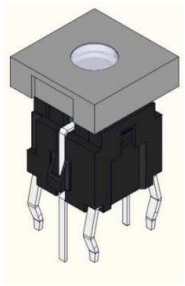
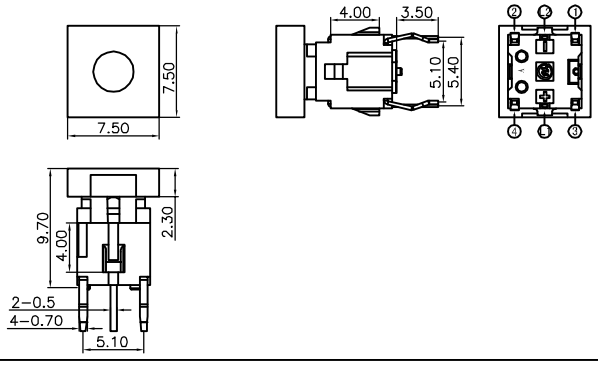
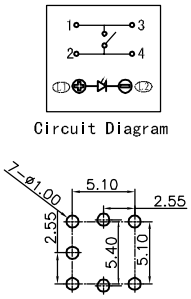
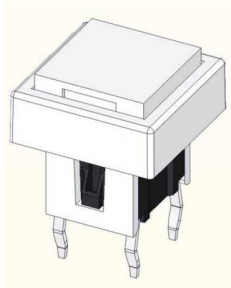
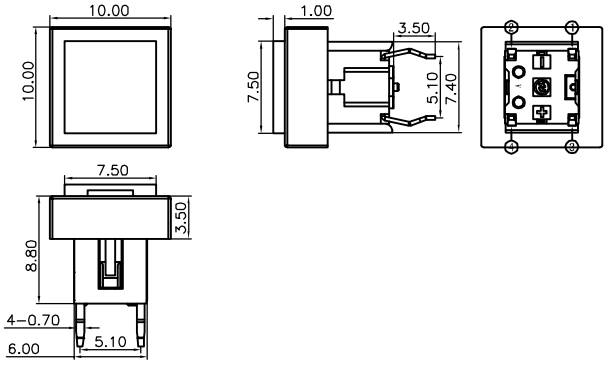
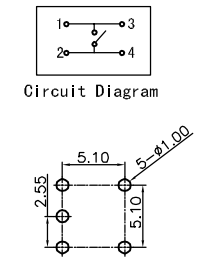
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | Vf(V) Typ | Vf(V) Max | λ(nm) λD | λ(nm) λP | λ(nm) Δλ | Iv(mcd) Min | Iv(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3072A0101166 |   |   |
|  T3075D0101150F |   |   |
|  T3075D0101152FY |   |   |
|  T3099D010115F |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

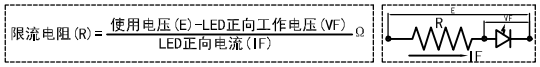
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

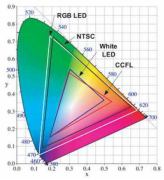
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

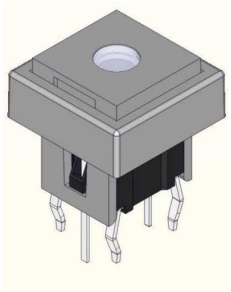
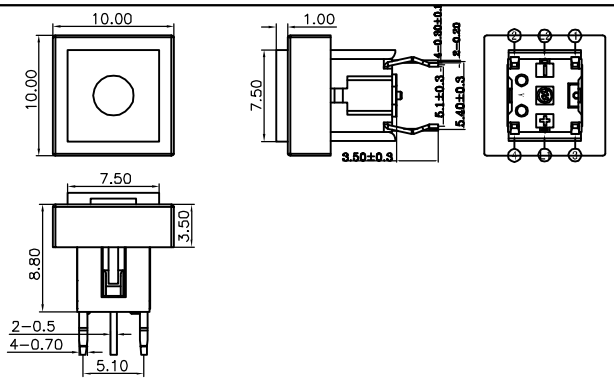
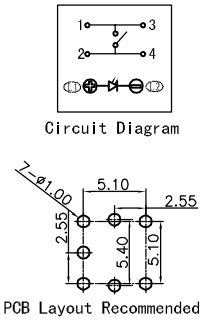
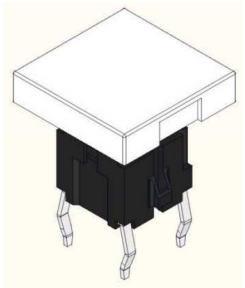
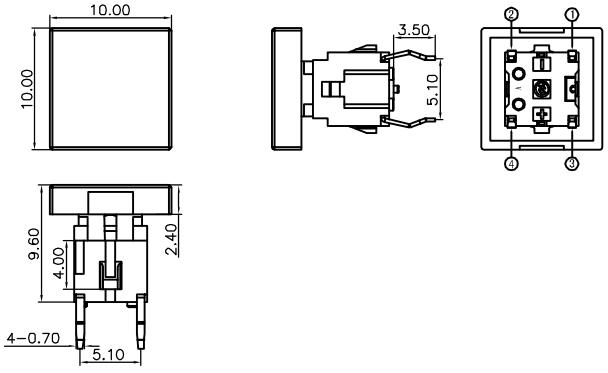
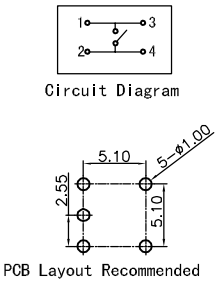
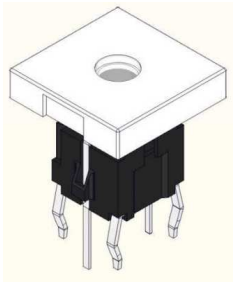
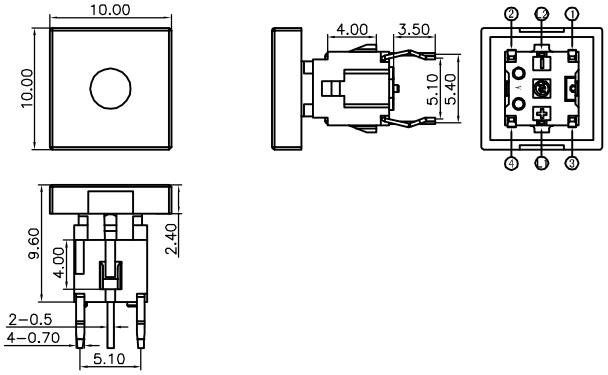
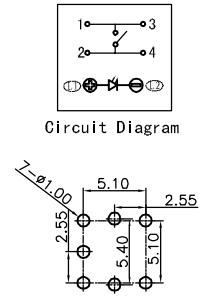
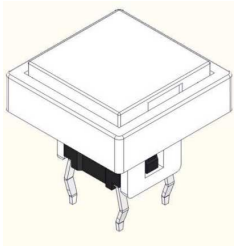
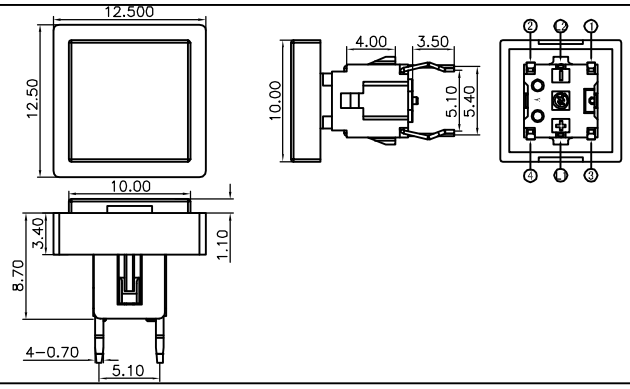
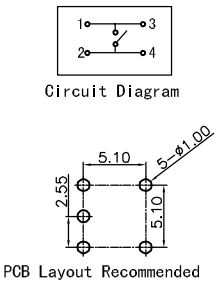
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3099D0101153FY |   |   |
|  T3010D0101150F |   |   |
|  T3010D0101152FY |   |   |
|  T3125D010115 |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

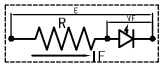
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

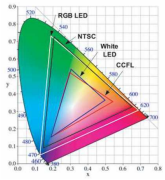
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

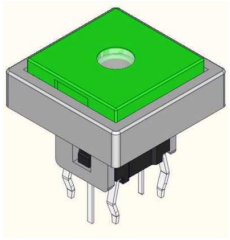
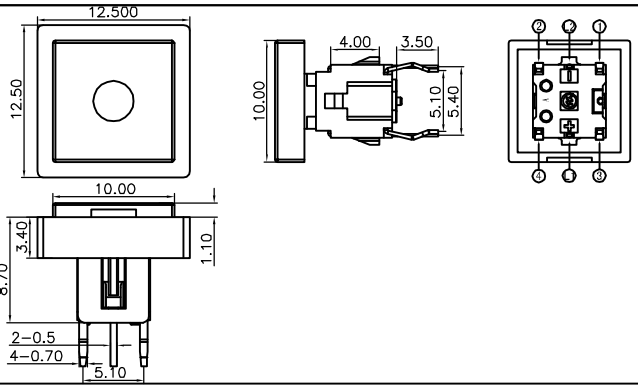
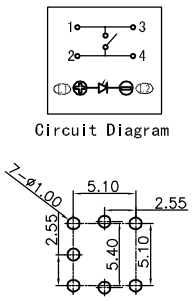
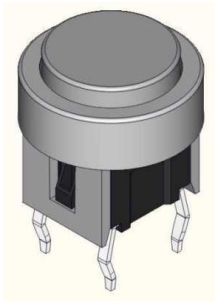
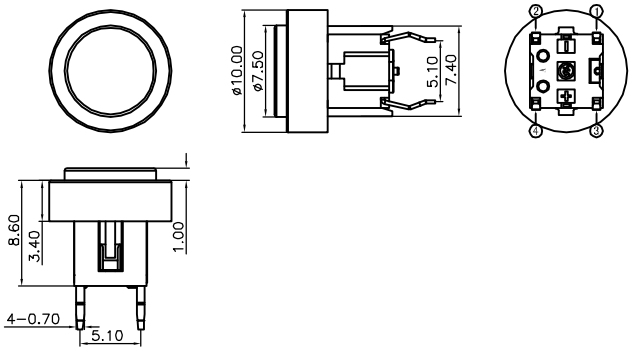
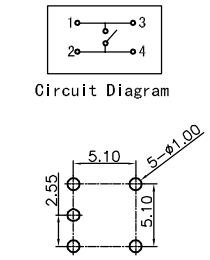
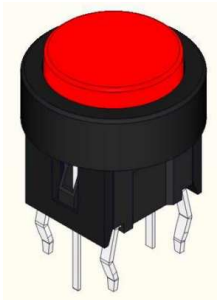
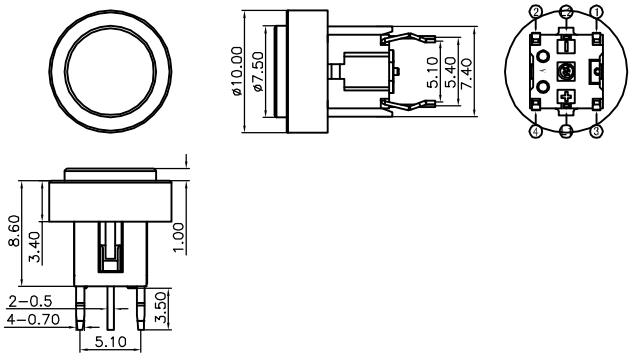
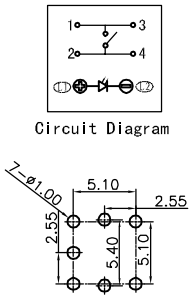
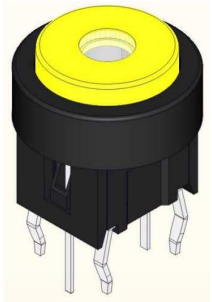
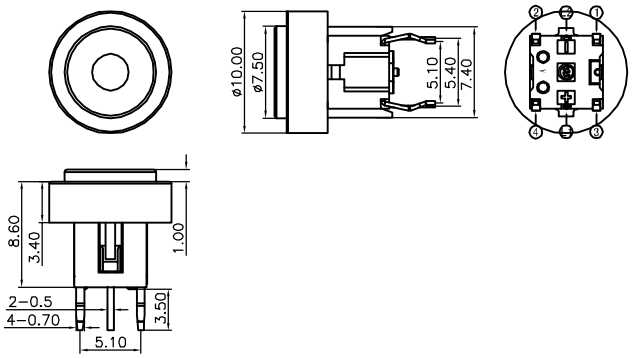
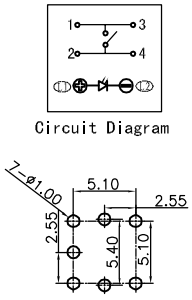
限流电阻(R)= 使用电压(E)-LED正向工作电压(VF) / LED正向电流(IF) Ω




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3125D0101153 |   |   |
|  T3010D010115Y |   |   |
|  T3010D0102151Y |   |   |
|  T3010D0101153YY |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

## ■ Specification :

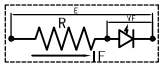
- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

Pay attention to the use of LED lighting switch

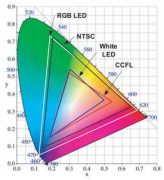
①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.

②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

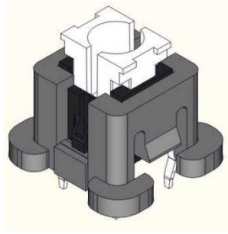
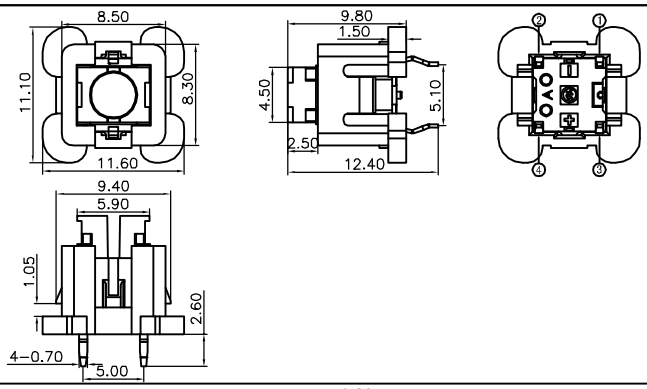
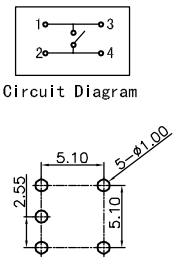
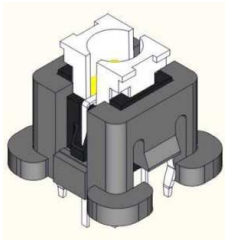
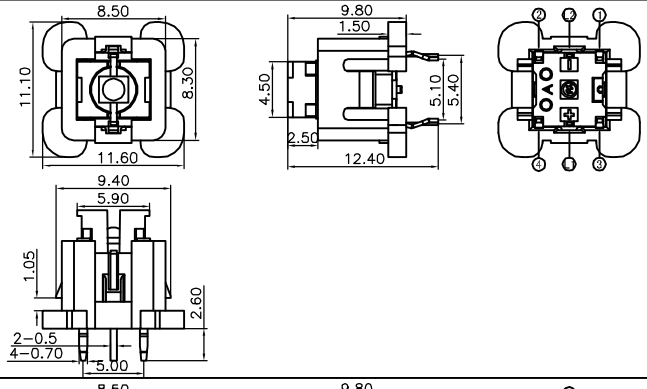
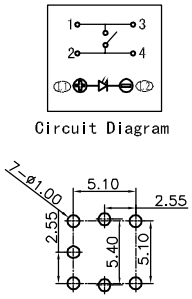
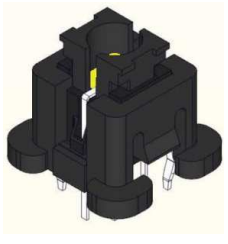
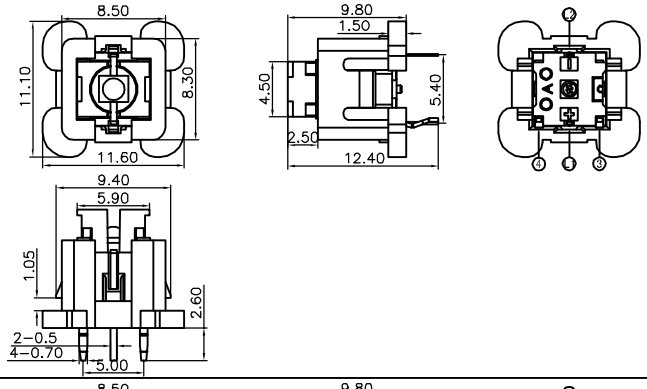
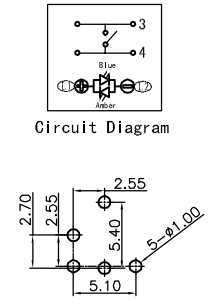
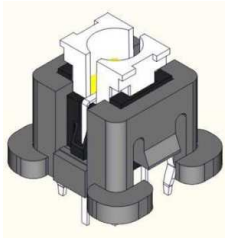
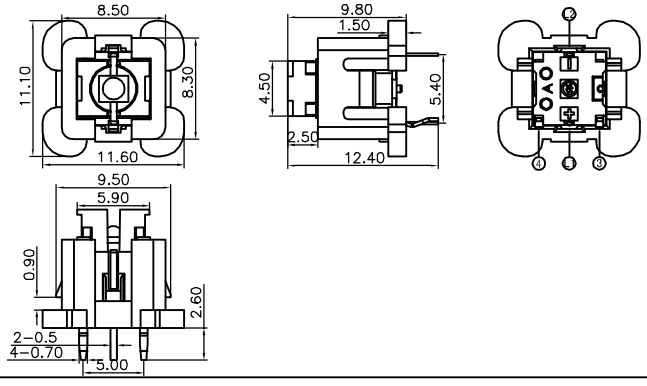
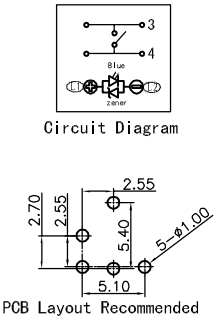
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | Vf(V) Typ | Vf(V) Max | λ(nm) λD | λ(nm) λP | λ(nm) Δλ | Iv(mcd) Min | Iv(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3116D010215 |  |  Circuit Diagram<br>PCB Layout Recommended |
|  T3116D0101156 |  |  Circuit Diagram<br>PCB Layout Recommended |
|  T3116D01021513-34 |  |  Circuit Diagram<br>PCB Layout Recommended |
|  T311N1D0101165-34 |  |  Circuit Diagram<br>PCB Layout Recommended |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

## ■ Specification :

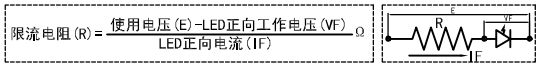
- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :160±50gf,180±50gf,250±50gf
- Mechanical Life :10.0000 Cycles

Pay attention to the use of LED lighting switch

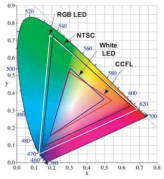
①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.

②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

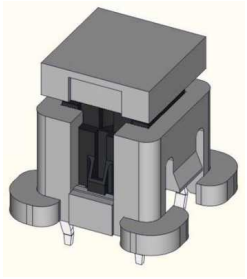
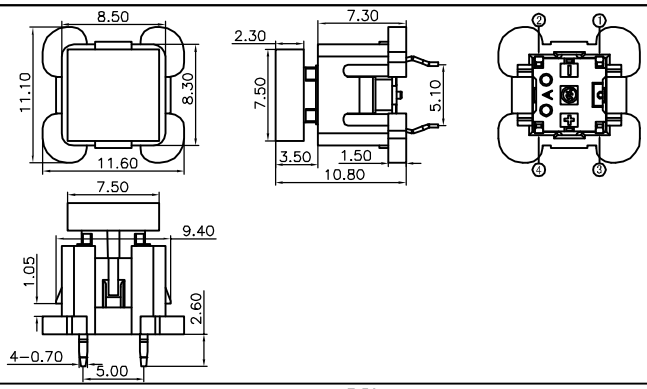
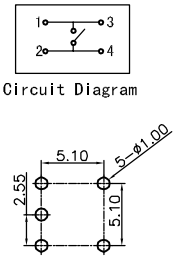
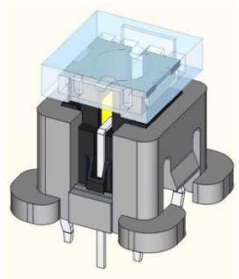
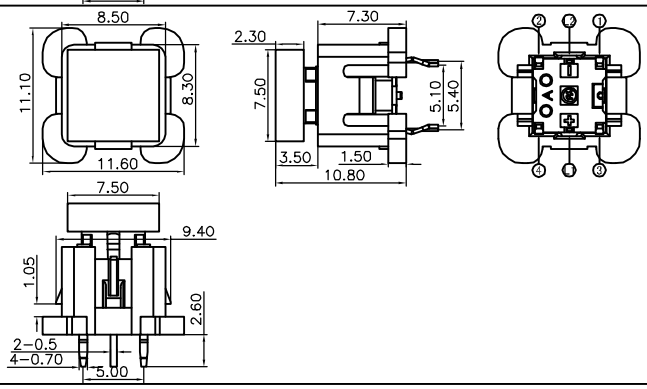
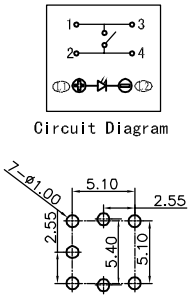
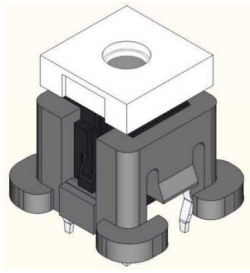
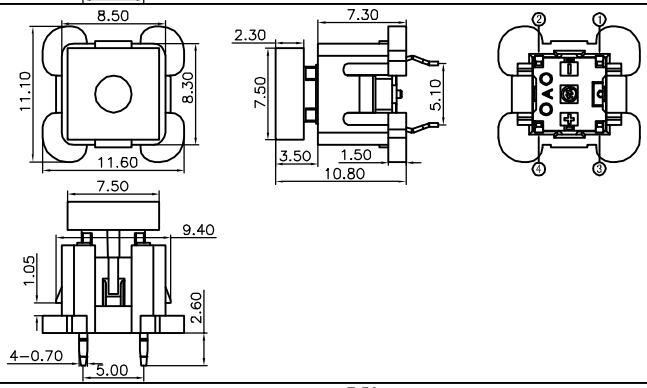
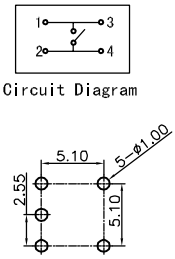
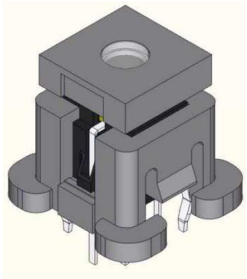
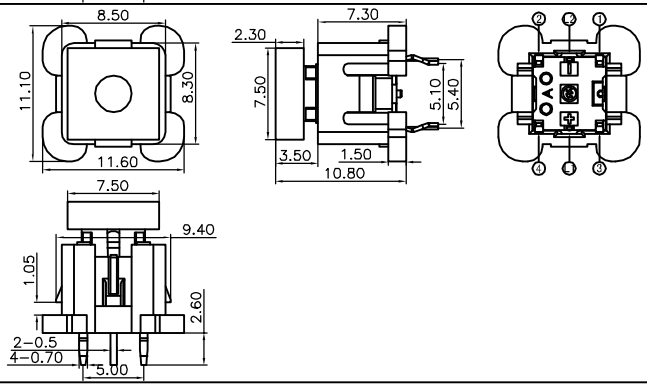
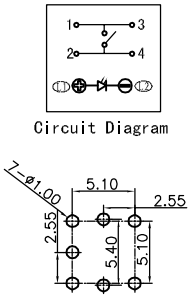
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | Vr(V) Typ | Vr(V) Max | λ(nm) λD | λ(nm) λP | λ(nm) Δλ | Iv(mcd) Min | Iv(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3116D0102150F |   |   |
|  T3116D0101254F |   |   |
|  T3116D0101150FY |   |   |
|  T3116D0102156FY |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

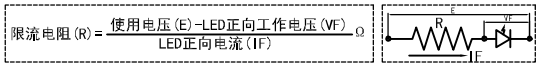
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :300±100gf,500±100gf
- Mechanical Life :10.0000 Cycles .100.00000 Cycles

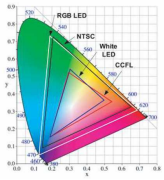
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

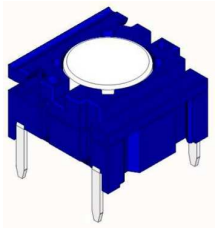
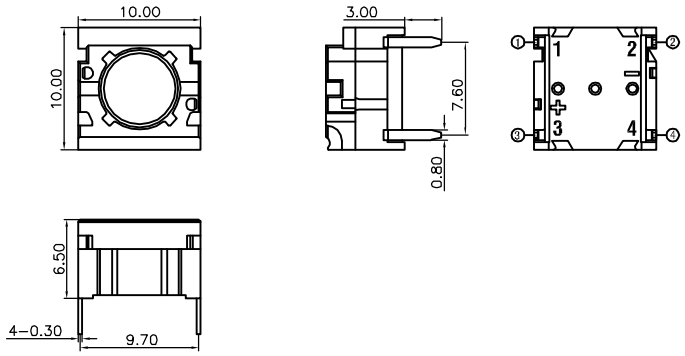
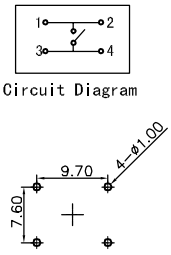
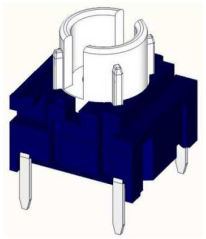
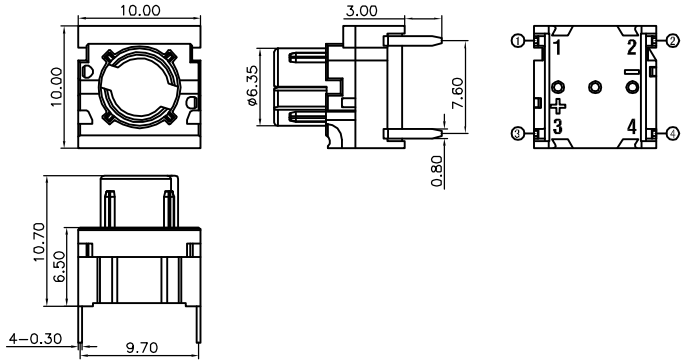
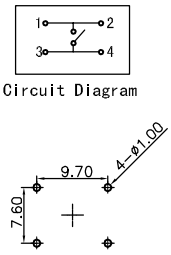
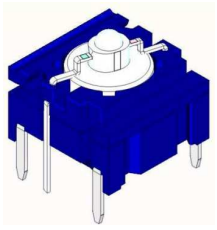
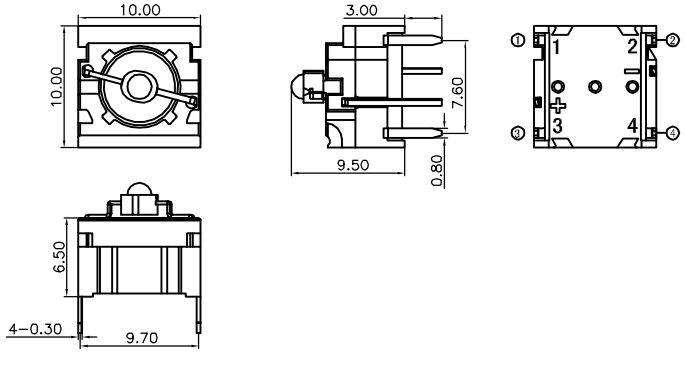
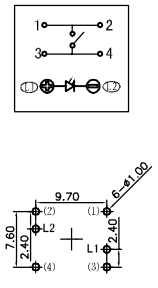
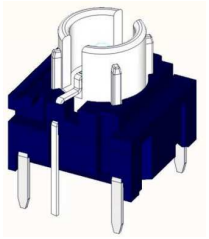
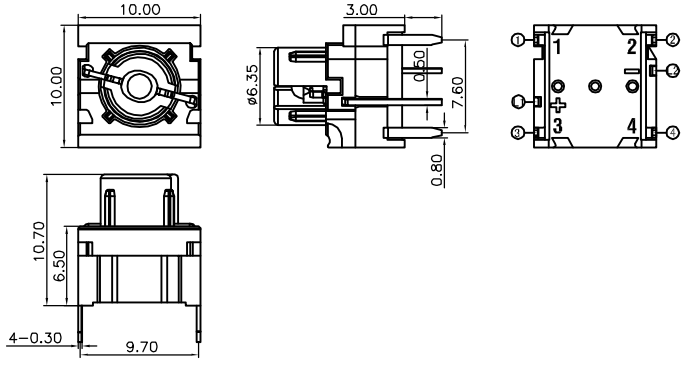
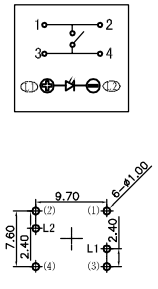
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) Δλ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T310D0101300D |   |   |
|  T3635D0102300E |   |   |
|  T310D0101506D |   |   |
|  T3635D0102301E |   |   |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

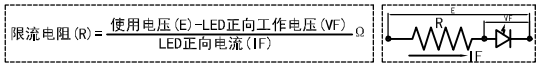
## ■ Specification :

- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :300±100gf,500±100gf
- Mechanical Life :10.0000 Cycles .100.00000 Cycles

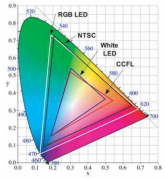
Pay attention to the use of LED lighting switch

①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.
②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

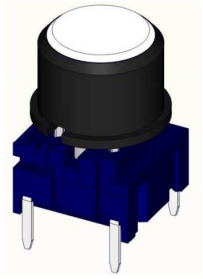
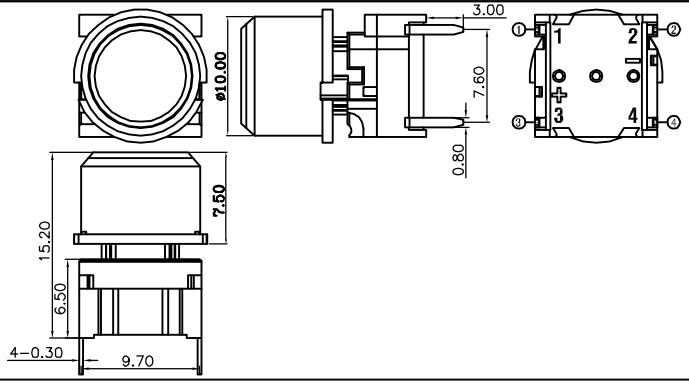
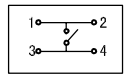
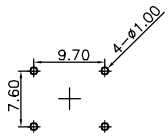
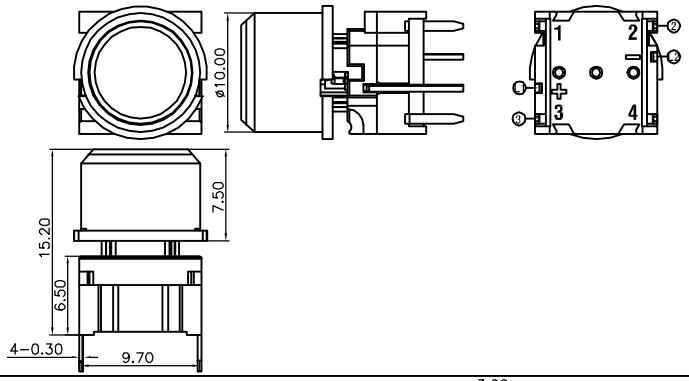
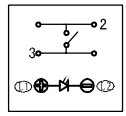
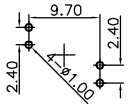
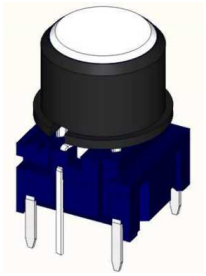
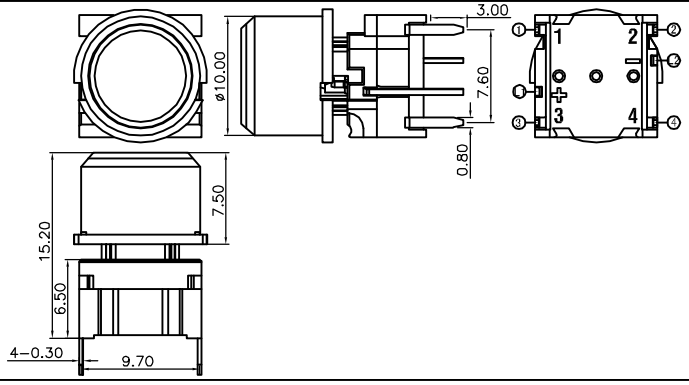
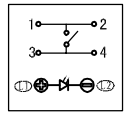
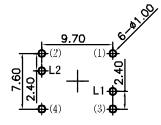
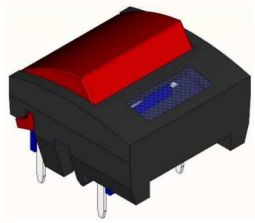
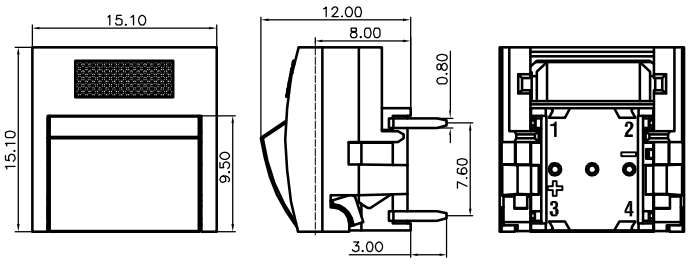
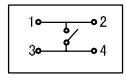
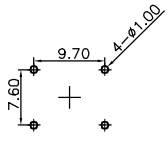
限流电阻(R)= (使用电压(E)-LED正向工作电压(VF)) / LED正向电流(IF) Ω




| Lighting Color | Material | $V_F$(V) Typ | $V_F$(V) Max | λ(nm) $\lambda_D$ | λ(nm) $\lambda_P$ | λ(nm) $\Delta\lambda$ | $I_V$(mcd) Min | $I_V$(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T3975D0101300 |   |  Circuit Diagram   PCB Layout Recommended |
|  T3975D01013018-23 |   |    PCB Layout Recommended |
|  T3975D0103306 |   |    PCB Layout Recommended |
|  T3151D010220 |   |  Circuit Diagram   PCB Layout Recommended |

# MICRO SWITCH 带灯开关系列 LAMP SWITCHES

## ■ Specification :

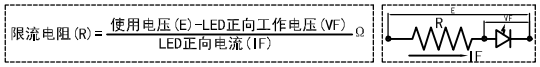
- Current Rating :DC12V 50mA
- Contact Resistance :100mΩ Max
- Insulation Resistance :100MΩ Min(DC250V)
- Withstand Voltage :AC250V(50-60Hz)for 1 minute
- Operation Force :300±100gf,500±100gf
- Mechanical Life :10.0000 Cycles .100.00000 Cycles

Pay attention to the use of LED lighting switch

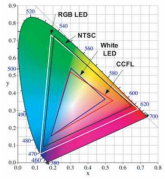
①The polarity of LED is marked with the "+" mark on the bottom of the switch as the positive pole, marked with "-" mark as the negative pole.

②Please connect the current limiting resistor on the LED lighting loop. Because the switch has no internal limiting current resistance, it is full. Foot LED characteristic, please match the voltage condition, connect the current limiting resistor according to the following formula.

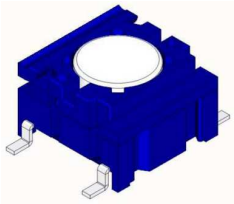
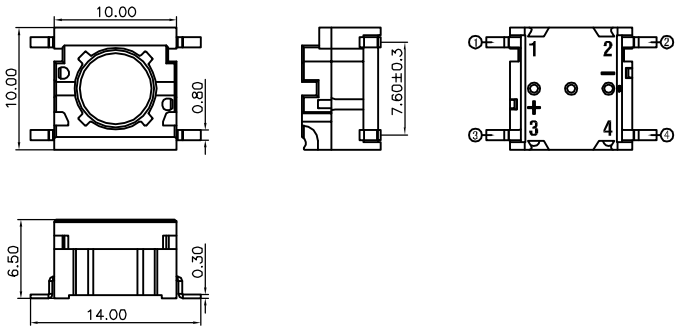
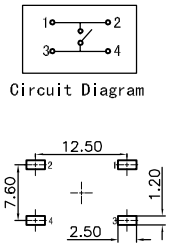
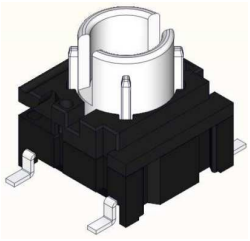
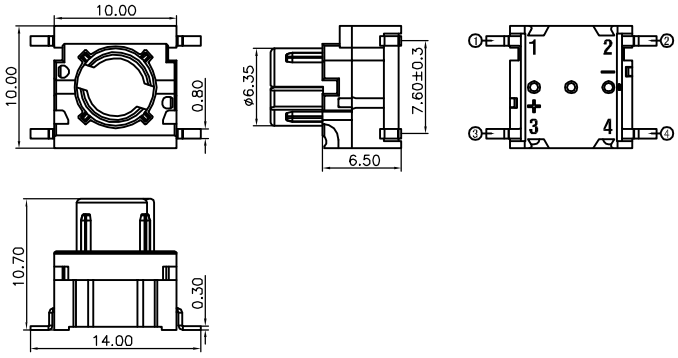
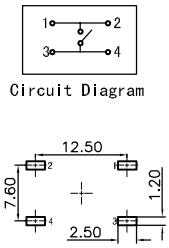
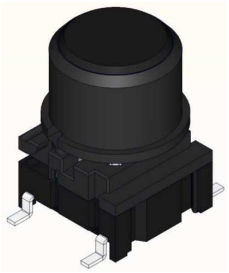
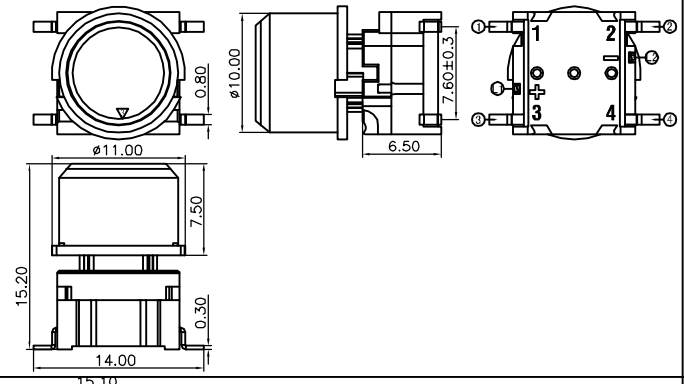
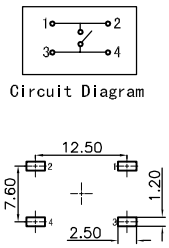
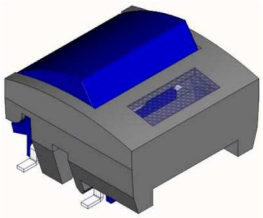
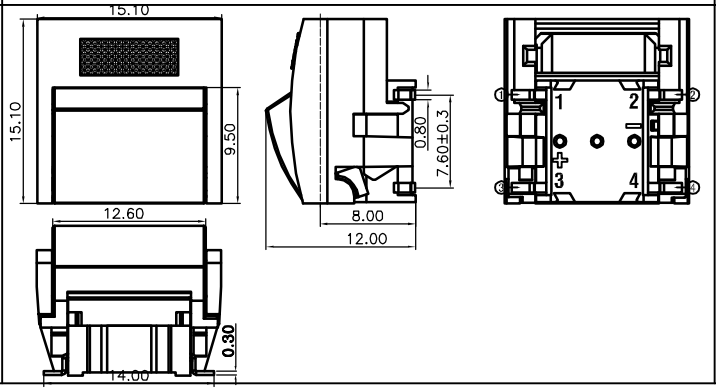
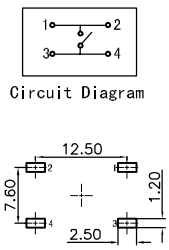
$$\text{限流电阻(R)} = \frac{\text{使用电压(E)-LED正向工作电压(VF)}}{\text{LED正向电流(IF)}}\ \Omega$$




| Lighting Color | Material | Vr(V) Typ | Vr(V) Max | λ(nm) λD | λ(nm) λP | λ(nm) Δλ | Iv(mcd) Min | Iv(mcd) Typ | Viewing angle at 50% Iv |
|---|---|---|---|---|---|---|---|---|---|
| | AlGaInP | 2.0 | 2.5 | 630 | 640 | 18 | 50 | 95 | 150 |
| | AlGaInP | 2.0 | 2.5 | 620 | 630 | 20 | 80 | 120 | 150 |
| | AlGaInP | 2.0 | 2.5 | 590 | 595 | 17 | 80 | 150 | 150 |
| | AlGaInP | 2.0 | 2.5 | 570 | 575 | 20 | 25 | 45 | 150 |
| | InGaN | 3.3 | 3.6 | 525 | 520 | 35 | 200 | 280 | 150 |
| | InGaN | 3.1 | 3.6 | 465 | 460 | 25 | 20 | 50 | 150 |
| | InGaN | 3.1 | 3.7 | X=0.25-0.31 Y=0.24-0.33 | | | 125 | 250 | 150 |




## Diagran

| Model | Dimensions | Circuit Diagram |
|---|---|---|
|  T310A0101300D |   |   |
|  T3635A0101300E |   |   |
|  T3975A0101300 |   |   |
|  T3151A010120 |   |   |