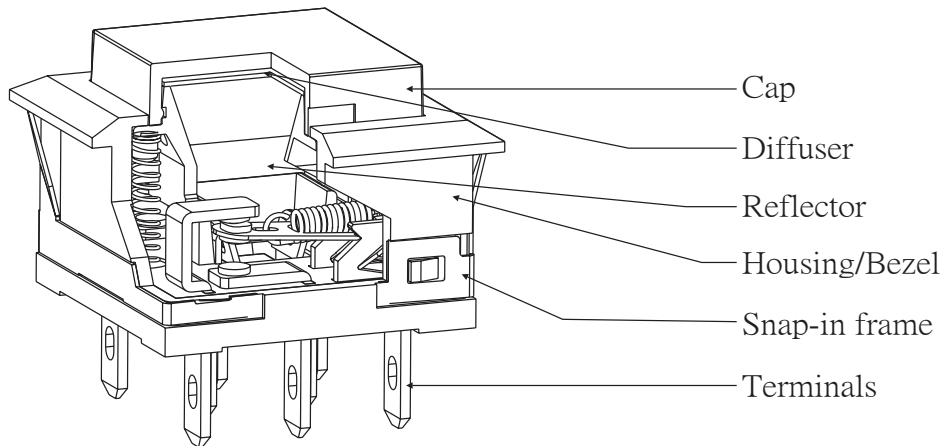


General Specifications

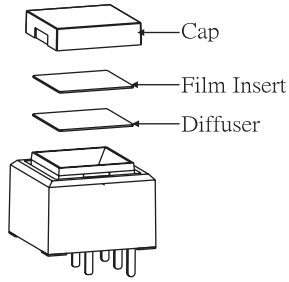
Circuit	:SPDT or DPDT
Current Rating	:5A.
Voltage Rating	:125/250 V AC
Contact Resistance	:50 milli-Ohm Max(initial)
Insulation Resistance	:200 Meg-Ohm Min
Operating Force	:Single pole: 190gf±50gf Double pole: 250gf±50gf for Square 300gf±50gf for Rectangular
Total Travel	:2.3mm ±0.5mm
Mechanical Life	:1,000,000 cycles min. for Momentary. 200,000 cycles min. for Alternate.
Electrical Life	:10,000 cycles min. 100,000 cycles min. with resistive load of 3A @ 125VAC
Solder Specifications	:Manual solder, 360 deg. for 4 seconds Wave solder for Through hole 260deg for 3 seconds
Operating Temperature	:-25deg~+50deg
Function	:Momentary or Alternate
LED Rating	:See the table at below
Material	
Cap	: Polycarbonate(PC)
Housing	:Polyamide (PA)
Snap-in Frame	:Stainless steel
Switch/LED Terminal	:Phosphor bronze (PBS) with gold plating
Movable Contacts	:Silver alloy
Spring	:Piano wire
Base	:Polyamide(PA)
LED	:Surface type LED



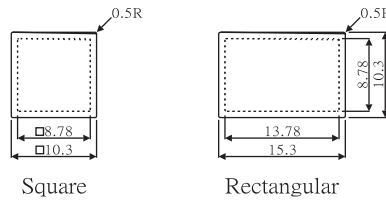
Features

- Bright LEDs of Single, Dual or triad colors available.
- Full face illumination plus in square or rectangular models.
- Combination of PCB mounting and Panel snap-in.
- Small and short body for mounting in tight spaces.
- Snap-actioning contact mechanism.
- Momentary and Alternate action circuits available.

How to build your own Legends



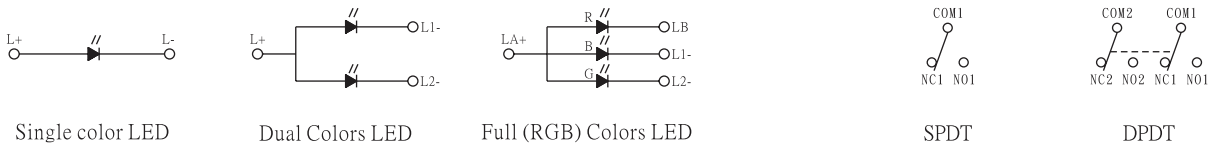
\*The dotted line area is suggested printable area for SPC film insert.  
 \*Recommended film insert: Clear Polyester, 0.2mm Max. thickness.



Film Insert dimension

Dimension unit in mm

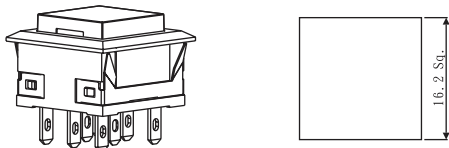
Contact Configuration & LED Schematics



Notes: LED circuit is isolated and requires external power source.

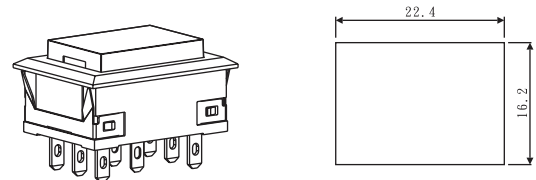
Panel cutting

Square · Solder Lug



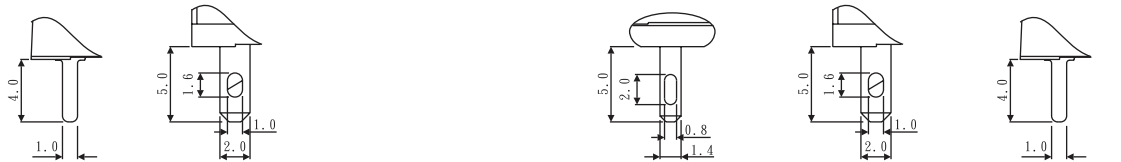
Panel Thickness: 1.0~3.2mm

Rectangular · Solder Lug



Panel Thickness: 1.0~3.2mm

Terminals



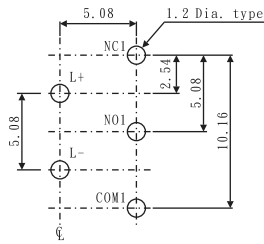
Straight PC type Soldering type  
 Switch pins, Thickness=0.5mm

Soldering type Soldering type  
 Dual & RGB LED pins Single & Dual LED pins  
 LED pins, Thickness=0.3mm

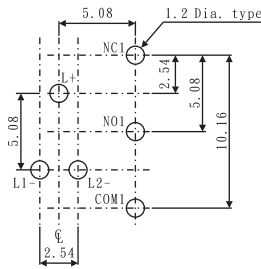
PCB Mounting

Square type / Single Pole

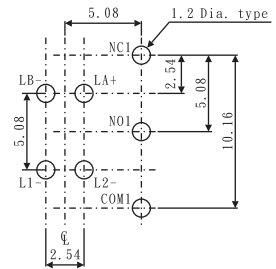
Single color LED



Dual colors LED

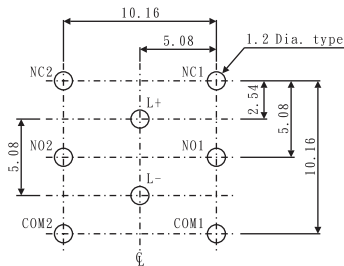


Full colors (RGB) LED

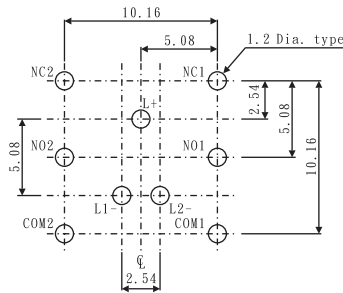


Square type / Double Poles

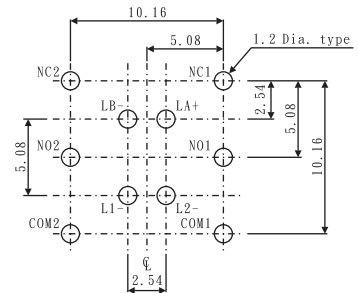
Single color LED



Dual colors LED

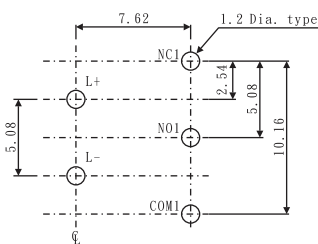


Full colors (RGB) LED

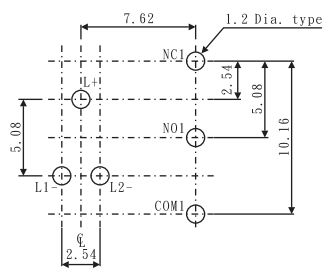


Rectangular type / Single Pole

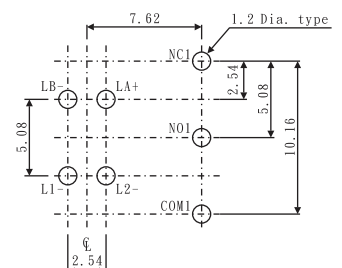
Single color LED



Dual colors LED

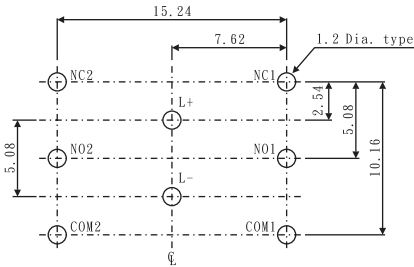


Full colors (RGB) LED

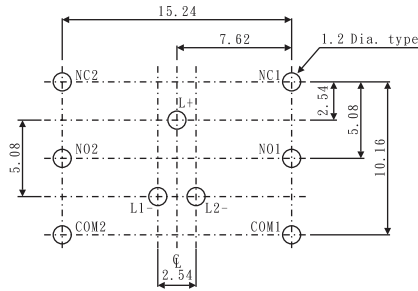


Rectangular type / Double Poles

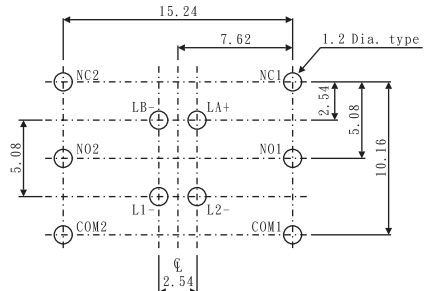
Single color LED



Dual colors LED



Full colors (RGB) LED



Dimension unit in mm

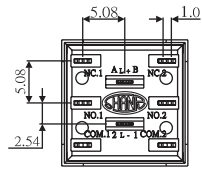
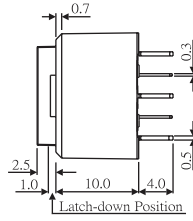
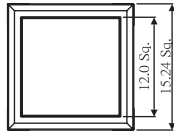
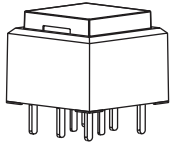
SPC.3

# Pushbutton Switches Series SPC

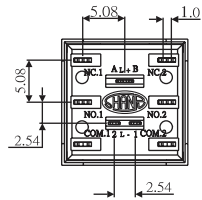
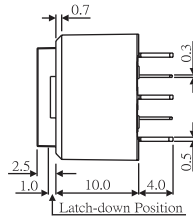
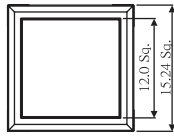
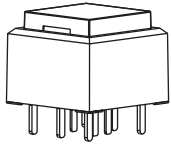
## Square · For PCB

Single & Double Pole : Single pole do not have terminals Com.2, NO.2 and NC.2

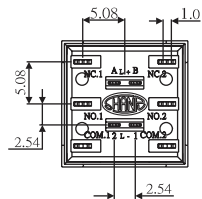
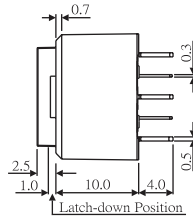
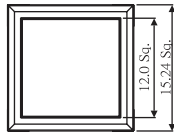
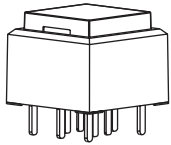
### Single Color LED



### Dual Colors LED

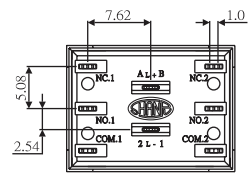
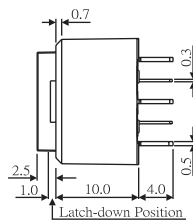
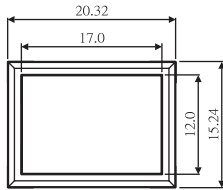
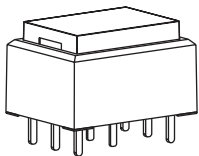


### Full Color(RGB) LED

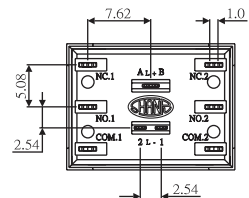
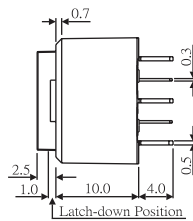
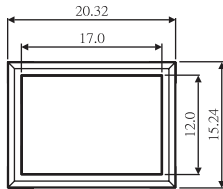
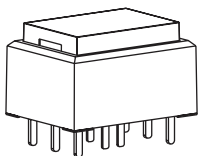


## Rectangular · For PCB

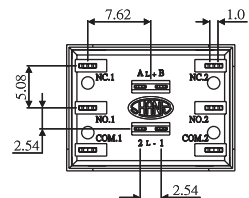
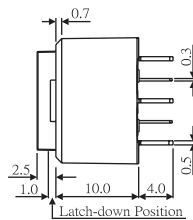
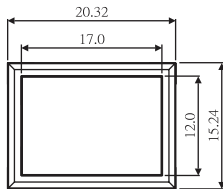
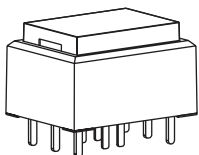
### Single Color LED



### Dual Colors LED



### Full Color(RGB) LED



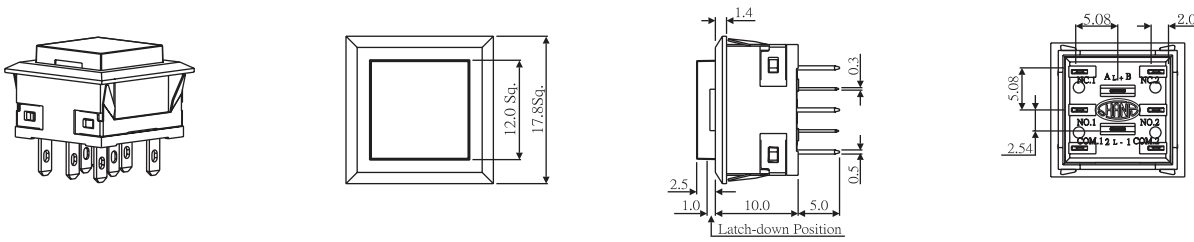
SPC.4

Dimension unit in mm

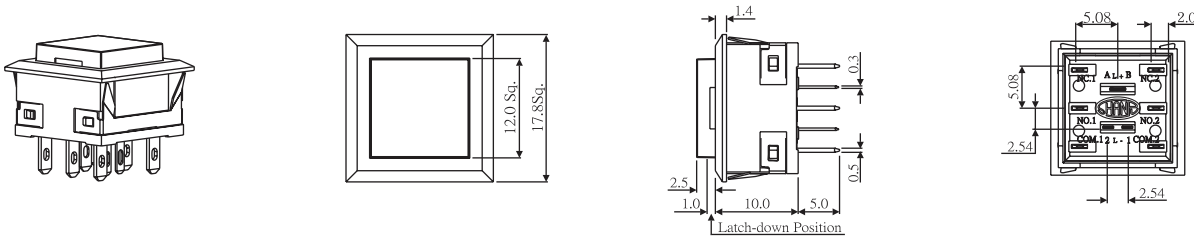
Single & Double Pole : Single pole do not have terminals Com.2, NO.2 and NC.2

Square · Solder Lug

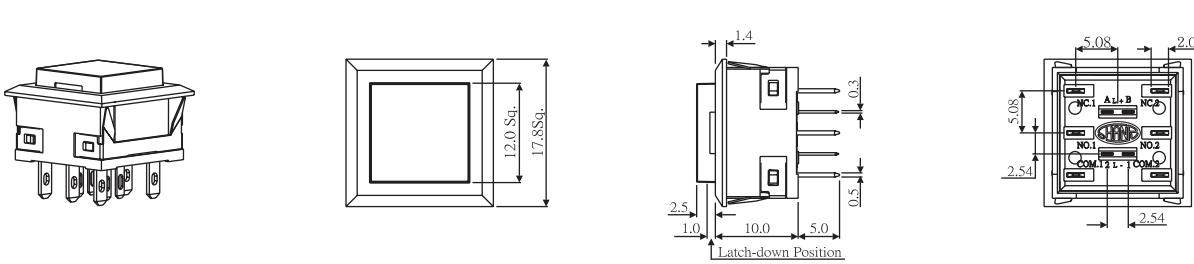
Single Color LED



Dual Colors LED



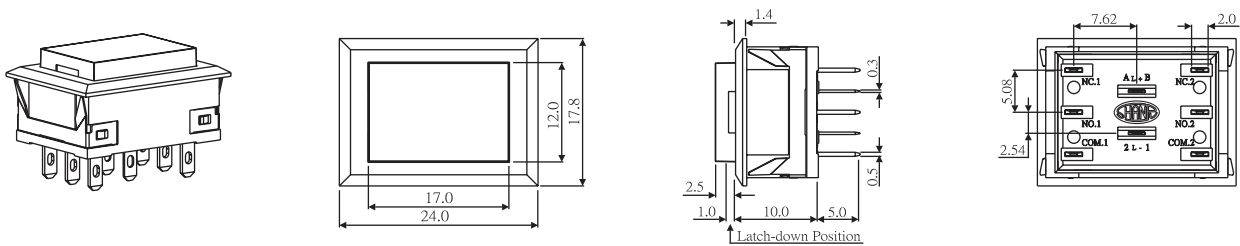
Full Color(RGB) LED



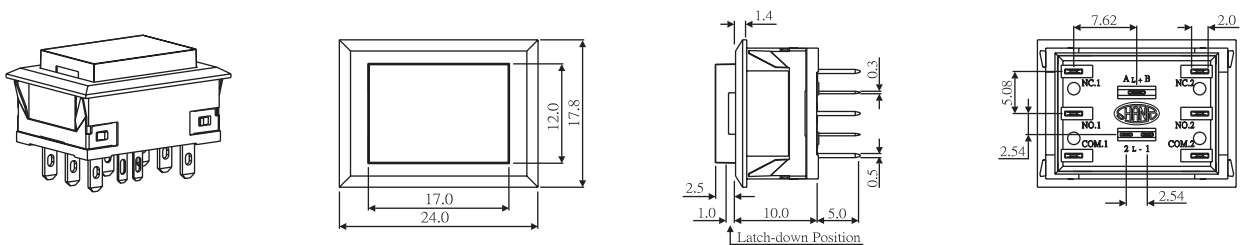
Single & Double Pole : Single pole do not have terminals Com.2, NO.2 and NC.2

Rectangular · Solder Lug

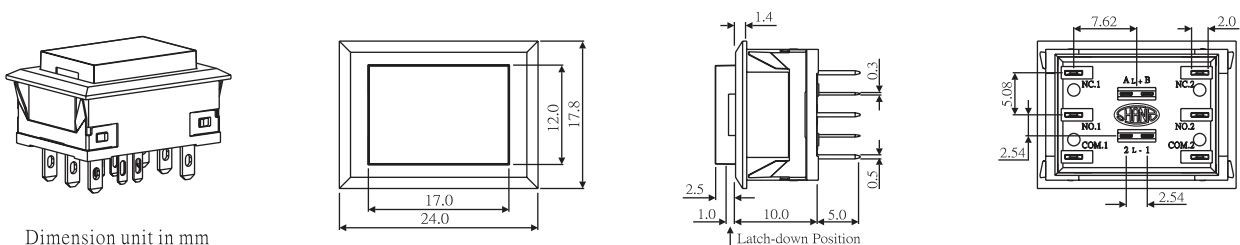
Single Color LED



Dual Colors LED



Full Color(RGB) LED



Dimension unit in mm

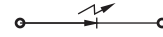
SPC.5

### LED Characteristics

The electrical specifications show are determined at a basic temperature of 25 . If the source voltage exceeds the rated voltage of LED, a ballast resistor must be connected in series with the LED.



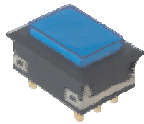
Attention: LED are electrostatic sensitive devices



Single color	Forward Voltage $V_f(V)$ at 20mA	Forward Current $I_f(mA)$	Reverse Voltage $V_R(V)$	Reverse Current $I_R(\mu A)$ at $V_R=5V$
bi-Red Super Yellow Pure Green Blue	1.8~2.6 2.0~2.5 2.8~3.7 3.1~3.6	Typical 20mA 30 mA max.	5V	10uA
Bicolor LED				
Red+Yellow	Red 1.7~2.5 Yellow 1.7~2.5			
Red+Pure Green	Red 1.7~2.5 Pure Green 2.8~3.7			
Red+Blue	Red 1.7~2.5 Blue 2.8~3.7			
Yellow+Pure Green	Yellow 1.7~2.5 Pure Green 2.8~3.7			
Yellow+Blue	Yellow 1.7~2.5 Blue 2.8~3.7			
Full color (RGB) LED				
RGB	Red 3.2~3.6 Green 3.5~4.0 Blue 3.5~4.0			

- Notes: 1.LED circuit is isolated and requires external power source.  
 2.LED an integral part of the switch.  
 3.Emitting color:±20%  
 4.Forward Voltage:±0.1V  
 5..Luminous intensity / Luminous Flux:±20%

### How to Order



SPC — [ ] [ ] — [ ] [ ] — [ ] [ ] — [ ] [ ] [ ] [ ]

Function Code	
MS	Momentary, SPDT
MD	Momentary, DPDT
AS	Alternate, SPDT
AD	Alternate, DPDT
I	Indicator

Apparent shaped/Terminal type	
SP	Square/Straight PC
RP	Rectangular/ Straight PC
SS	Square/Soldering type
RS	Rectangular/Soldering type

Cap Color	
T1	Transparency Red
T2	Transparency Yellow
T3	Transparency Green
T5	Transparency Black
T7	Transparency Blue
T	Transparency

The diffuser inside the cap are all in white.

LED Colors	
00	Without LED
Single Colors	
01	Red
S2S	Super Yellow
P3S	Pure Green
7S	Blue
Bi-colors LED	
1S2	Red/Super Yellow
1P3	Red/Pure Green
17	Red/Blue
S2P3	Super Yellow/Pure Green
S27	Super Yellow/Blue
P37	Pure Green/Blue
Tri-colors LED	
RGB	RGB Full color

EXAMPLE : SPC-MS-SS-T-1P3  
 SPC Pushbutton switch -Momentary-Square/Soldering type terminal-Transparency Clear cap-Red/Pure Green LED illuminated.