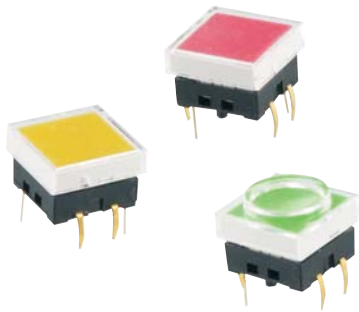


# SPL12 Series

Pushbutton Switches



General Specifications	
Circuit	:SPST
Current Rating	:50mA @ 12VDC
Contact Resistance	:100mOhm Max.(initial)
Insulation Resistance	:100MOhm Min.
Operating Force	:300gf ± 50gf
Total Travel	:0.3mm ± 0.1mm
Operating Life	:5,000,000 cycles Min.
Operating Temperature	:-25 deg.~+60 deg.
Solder Specifications	:260 deg. for 3 seconds
Materials	
Cover	:Polycarbonate (PC)
Cap	:Polycarbonate (PC)
Housing	:Polyamide (PA)
Base	:Polyamide (PA)
Lamp Term.	:Phosphor bronze (PBS) with gold plating
Act. Dome	:Phosphor bronze (PBS) with silver plating
End Term.	:Brass with gold plating
LED	:Surface Mount Chip LED

## HOW TO ORDER

S P L 1 2 [ ] - [ ] - [ ] [ ] [ ] - [ ] [ ]

Function Code	
P	Illuminated Switch
L	LED Indicator

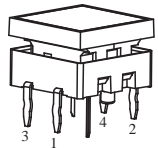
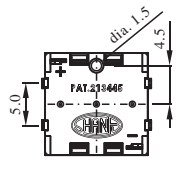
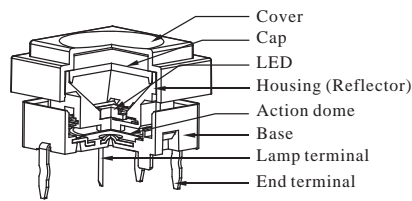
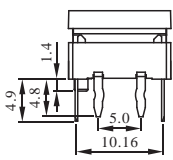
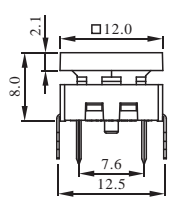
Cap Colors	
1	Red
2	Yellow
3	Green
4	White
5	Transparent
6	Orange
7	Blue
A	Ice
B	Snow

LED Colors	
01	Red
S2S	Super Yellow
03	Green
S3	Super Green
P3S	Pure Green(single)
4S	White (single)
7S	Blue (single)
17	Red/Blue*
1P3	Red/Pure Green*
P37	Pure Green/Blue*

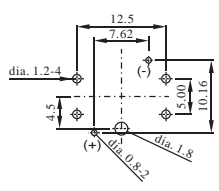
\*" not standard type please inquire first

Cover style / Color	
00	Without Cover
FC	Flat/clear
RC	Round h=4.9mm/clear
RH	Round h=6.9mm/clear
SC	Square h=4.9mm/clear
SH	Square h=6.9mm/clear
UT	UP Triangle/clear
DT	Down Triangle/clear
RT	Right Triangle/clear
LT	Left Triangle/clear
C4	Flat cover/white
C5	Flat cover/Foggy
B4	Raised cover/white
B5	Raised cover/clear

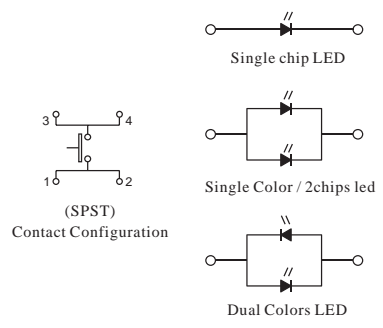
EXAMPLE : SPL12P-2-S2S-FC  
Illuminated tact switch PCB type - Yellow cap - Super Yellow led-Flat cover



### Contact configuration



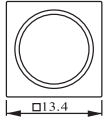
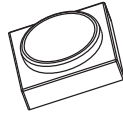
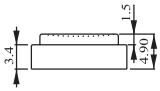
SPL12P tact switch Single Color LED



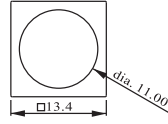
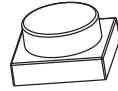
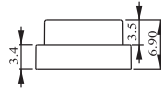
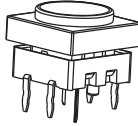
# SPL12 Series

Pushbutton Switches

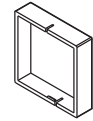
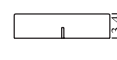
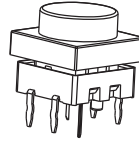
## COVER STYLE



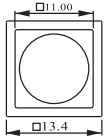
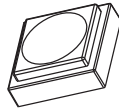
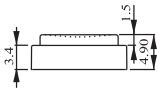
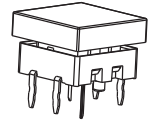
Round Cover(RC)  
h=4.9mm



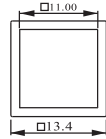
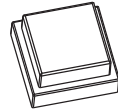
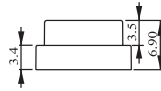
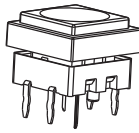
Round Cover(RH)  
h=6.9mm



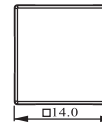
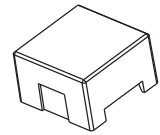
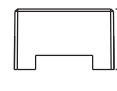
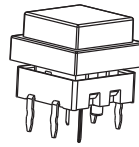
Flat Cover(FC)



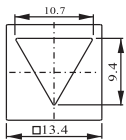
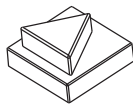
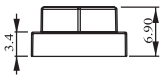
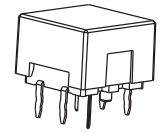
Square Cover(SC)  
h=4.9mm



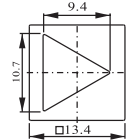
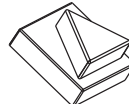
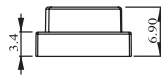
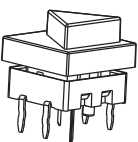
Square Cover(SH)  
h=6.9mm



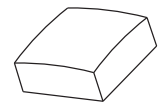
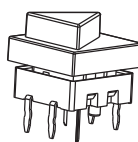
Flat cover(white C4 or clear C5)



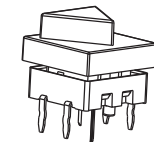
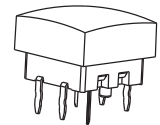
UP Triangle(UT)  
Down Triangle(DT)



Right Triangle(RT)  
Left Triangle(LT)



Raised cover(white B4)



UP Triangle(UT)

Down Triangle(DT)

Right Triangle(RT)

Left Triangle(LT)

## LED CHARACTERISTICS

### for SPL12P Illuminated tactile switch

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

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 bi-Yellow bi-Super Yellow bi-Green bi-Super Green bi-Pure Green bi-Blue bi-White	1.8~2.6 2.1~2.6 2.1~2.6 2.2~2.6 2.0~2.6 3.2~3.6 3.5~4.0 3.2~3.8	Typical 20mA 30 mA max.	5V	100uA max.
Single color build in resistor for 5 V DC bi-Red 5V DC bi-Yellow 5V DC bi-Green 5V DC	5V DC max.	Typical 7mA 12 mA max.		
Bicolor LED				
Red & Blue	Red 1.8~2.6 Blue 3.5~4.0	Typical 20mA 30 mA max.		
Red & Pure Green	Red 1.8~2.6 Pure Green 3.2~3.6			
Pure Green & Blue	Pure Green 3.2~3.6 Blue 3.5~4.0			



Attention: LED are electrostatic sensitive devices



### for SPL12P Illuminated tactile switch

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

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 $V_R=5V$
Red Yellow Green Blue	2.0~2.6 2.1~2.6 2.0~2.6 3.5~4.0	30 mA max.	5V	100uA
Bicolor LED				
Red & Yellow	Red 2.0~2.4 Yellow 2.1~2.4	30 mA max.		
Red & Green	Red 2.0~2.4 Green 2.0~2.4			
Red & Blue	Red 2.0~2.6 Blue 3.5~4.0			
Yellow & Green	Yellow 2.0~2.6 Green 2.0~2.6			
Yellow & Blue	Yellow 2.1~2.6 Blue 3.5~4.0			
Green & Blue	Green 2.0~2.6 Blue 3.5~4.0			



Attention: LED are electrostatic sensitive devices

