

Pushbutton Switches Series SP86N / SP86NH / SP86L



General Specifications

Switch circuit :SPDT
 Switch contact rating :12mA @ 24V DC max
 LED rating :Limited forward current(IF) at 20mA max
 Contact Resistance :50m Ohm Max(initial)
 Insulation Resistance :100M Ohm Min
 Operating Force :170gf±50gf (SP86N / SP86L)
 400gf±100gf (SP86NH)

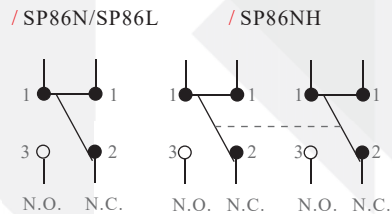
Total Travel :2.5mm±0.5mm
 Mechanical Life :1,000,000 Cycles Min. (SP86N / SP86NH)
 500,000 Cycles Min. (SP86L)

Solder Specifications :260°C for 3 seconds
 Operating Temperature :-10 °C ~ +60 °C
 Function :Momentary (SP86N / SP86NH)
 :Alternate (SP86L)

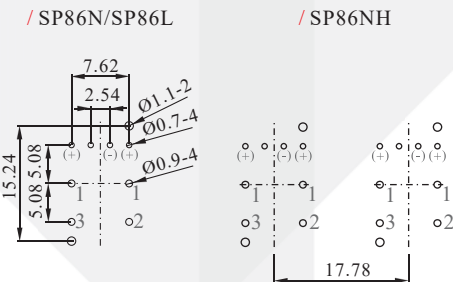
Material

Cap :Acrylonitrile Butadiene Styrene (ABS)
 Case :Polyamide (PA)
 Fixed Support :Stainless steel wire
 Terminal :Phosphor bronze (PBS) with gold plating
 Moving Contact :Phosphor bronze (PBS) with gold plating
 Spring :Piano wire
 LED :3mm Diameter LED Lamp

▶ Circuit & PCB Layout



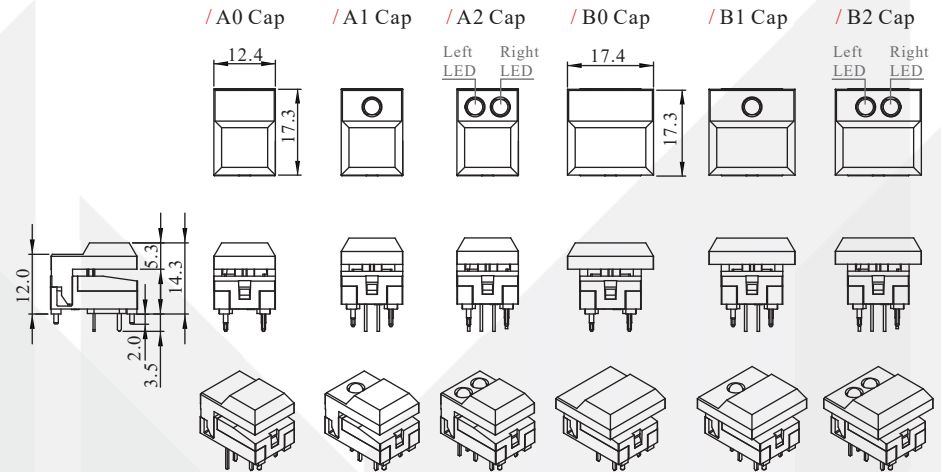
Contact Configuration



PCB Layout

Recommend add resistor to limited each LED forward current at 20mA

▶ Dimension (SP86N)



▶ How to order (SP86N)

SP86N — [] — [] — [] — []

CAP Styles	
Small CAP	
A0	Without LED
A1	One-LED
A2	Two-LED
Large CAP	
B0	Without LED
B1	One-LED
B2	Two-LED

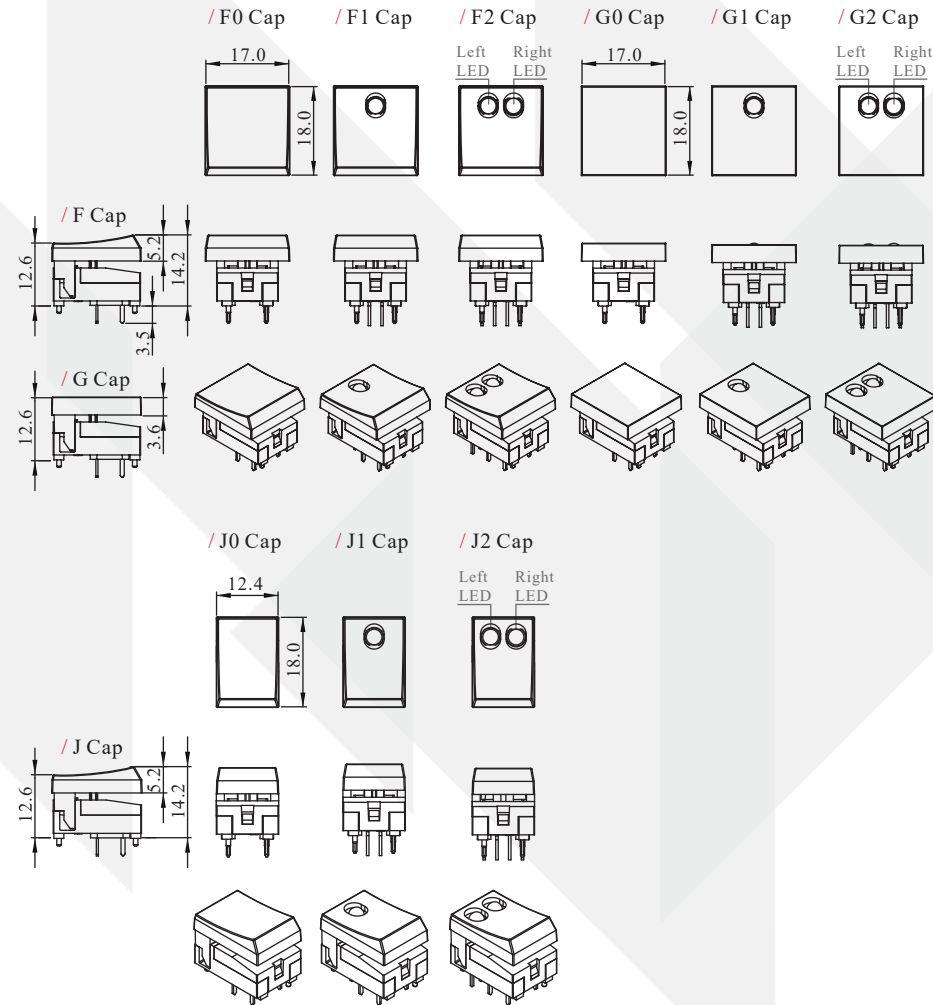
CAP Colors	
5	Black
9	Grey

LED Colors			
00	Without LED		
One LED			
01	Red		
02	Yellow		
03	Green		
07	Blue		
2 LEDs			
Left		Right	
1	Red	1	Red
2	Yellow	2	Yellow
3	Green	3	Green
7	Blue	7	Blue

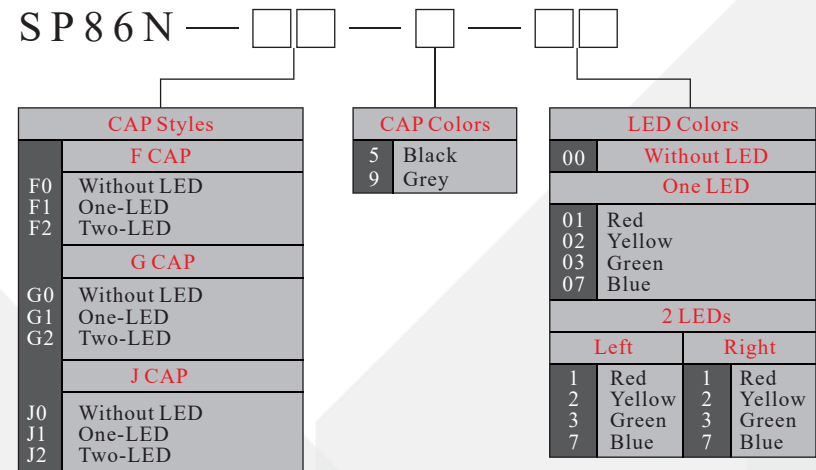
EXAMPLE :
 SP86N-B0-1-01
 SP86N-A2-5-13

Pushbutton Switches Series SP86N / SP86NH / SP86L

Dimension (SP86N)



How to Order



EXAMPLE :
 SP86N-F0-5-01
 SP86N-G2-9-13

