



Illuminated Tactile Switches Series SPD



PAT. I 328824
PAT. ZL 2007 2 0141338.4

General Specifications

Switch circuit :SPST
Switch contact rating :50mA @ 12V DC max
LED rating :Limited forward current(IF) at 20mA max
LED+IC control protocol :1-wire protocol control, 5V DC
Contact Resistance :100mOhm Max.(initial)
Insulation Resistance :100MOhm Min.
Operating Force :220gf±50gf
Total Travel :0.3mm±0.1mm
Mechanical Life :1,000,000 cycles Min.
Operating Temperature :-25 °C ~ +60 °C

Materials

Cover :Polycarbonate (PC)
Reflector :Polyamide(PA)
Base :LCP
Action Dome :Stainless steel with silver plating
Terminal :Phosphor bronze (PBS) with gold plating

Features

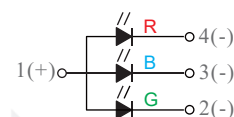
- Bright LEDs of RGB colors available.
- Full face illumination.
- Small and short body for mounting in tight spaces.
- Snap-actioning contact mechanism.
- Build your own legend.
- Long operating Life.

RGB+IC Feature

- Uses WS2812B 5V RGB led with programmable .
- RGB Led Can be connected in series to reduce wiring.

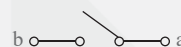
Contact configuration

/ RGB LED



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

/ Switch



/ RGB+IC LED



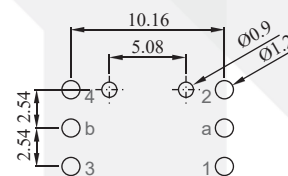
Pin	Function	Description
1	GND	GROUND
2	DIN	DATA IN
3	DOUT	DATA OUT
4	VDD	POWER VOLTAGE,5V

RGB+IC
Control protocol: 1-wire protocol control, 5V DC

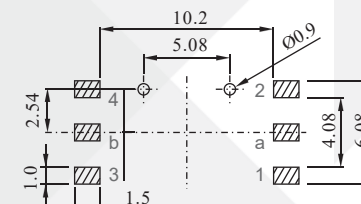
Note

- ⚠ Pin2,3 suggest avoiding high frequency signal to avoid interference.
- ⚠ Wrong polarity may cause damage to the function.

PCB. layout



Through hole Type

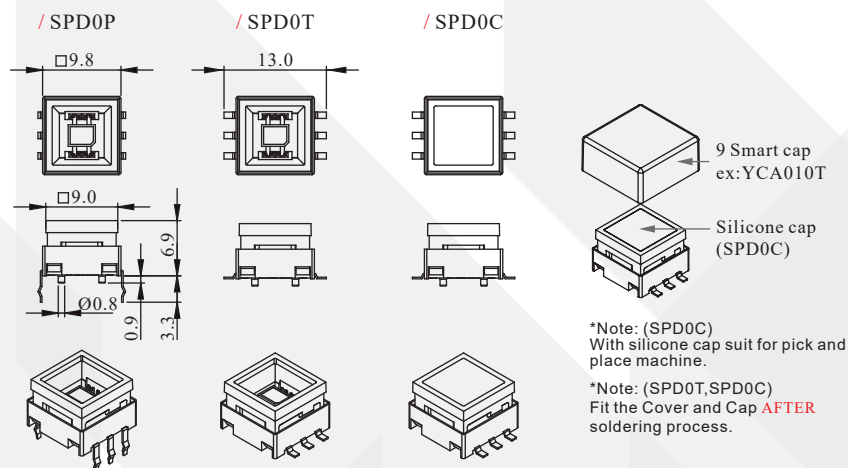


SMD Type

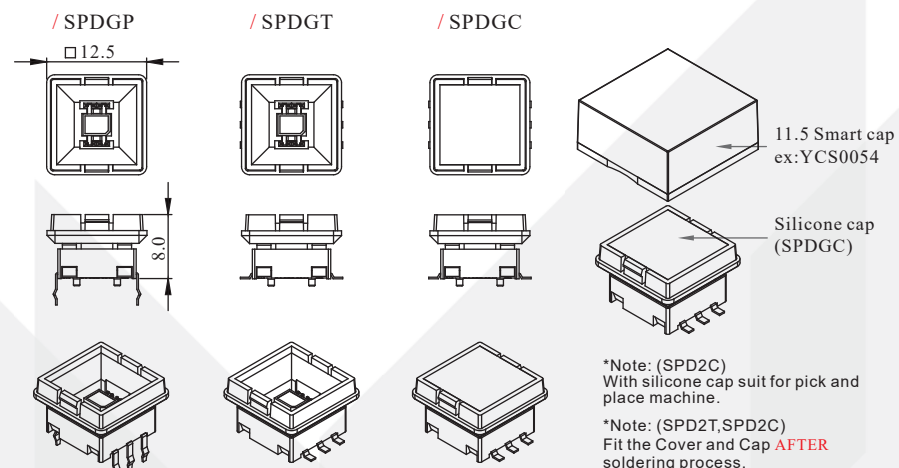


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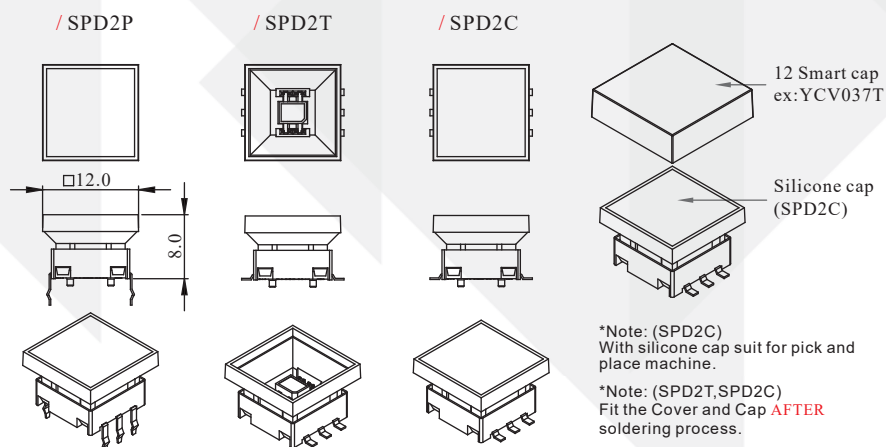
Dimension of SPD0



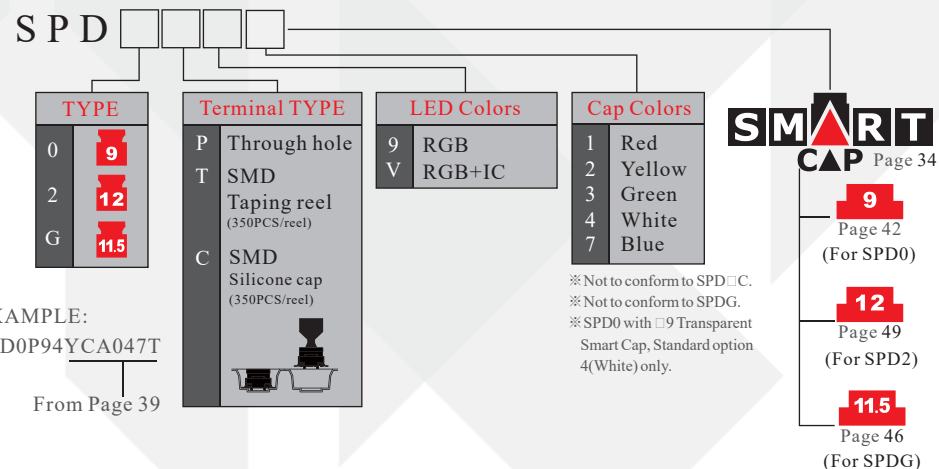
Dimension of SPDG



Dimension of SPD2



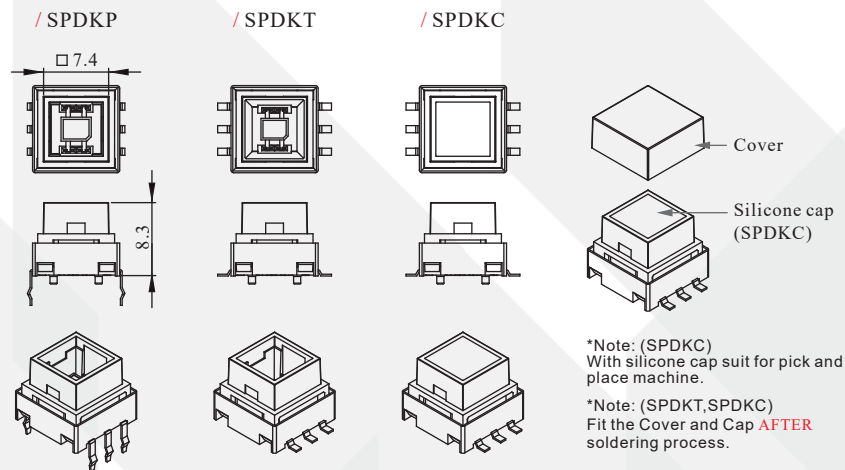
How to order



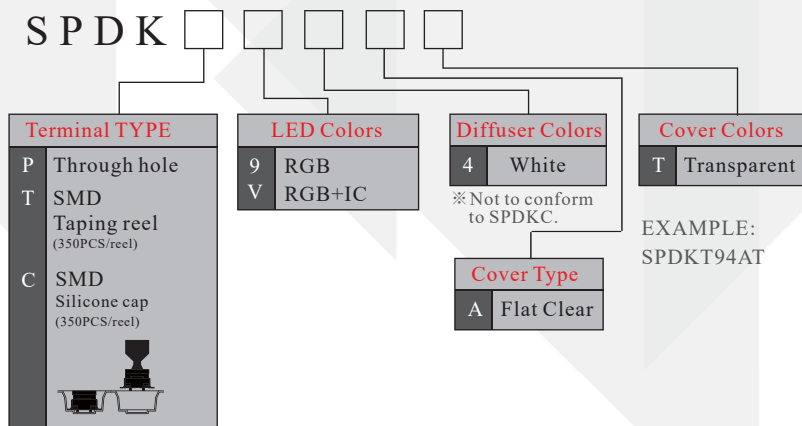


Illuminated Tactile Switches Series SPDK

Dimension of SPDK



How to Order



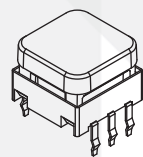
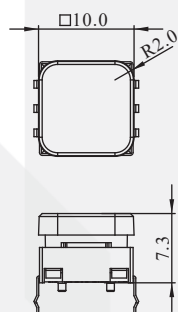


ShanPu

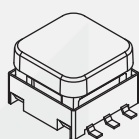
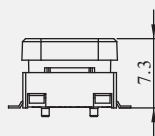
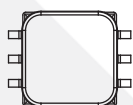
Illuminated Tactile Switches Series SPD1

Dimension of SPD1

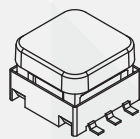
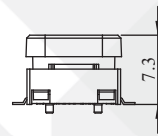
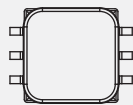
/ SPD1P□YCA1974



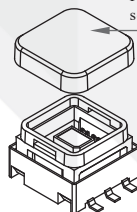
/ SPD1T□YCA1974



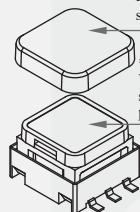
/ SPD1C□YCA1974



*Note:
Fit the Cap **AFTER**
soldering process.



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Fit the Cap **AFTER**
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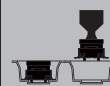
*Note:
With silicone cap
suit for pick and
place machine.

How to order

SPD1 □ □ YCA1974

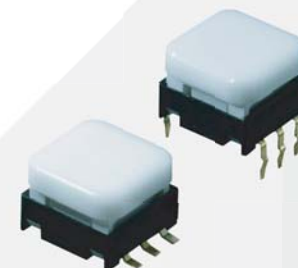
Terminal TYPE

P Through hole
T SMD
Taping reel
(350PCS/reel)
C SMD
Silicone cap
(350PCS/reel)



LED Colors

9 RGB
V RGB+IC



EXAMPLE:
SPD1PVYCA1974

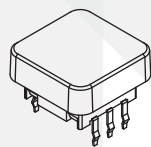
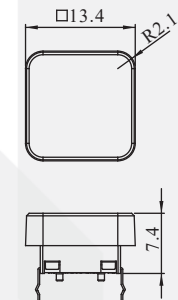


ShanPu

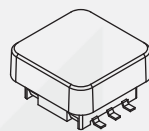
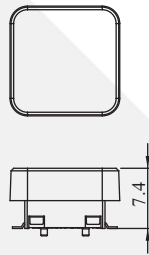
Illuminated Tactile Switches Series SPD3

Dimension of SPD3

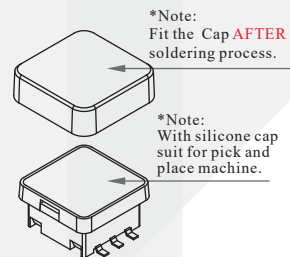
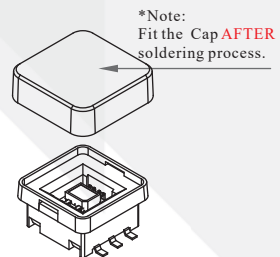
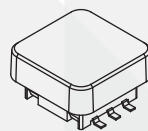
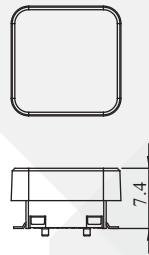
/ SPD3P□YCA1964



/ SPD3T□YCA1964



/ SPD3C□YCA1964



How to order

SPD3 □ □ YCA1964

Terminal TYPE

P	Through hole
T	SMD
	Taping reel (350PCS/reel)
C	SMD
	Silicone cap (350PCS/reel)

LED Colors

9	RGB
V	RGB+IC

EXAMPLE:
SPD3P9YCA1964

