

SPF SERIES

TACTILE SWITCH



General Specifications

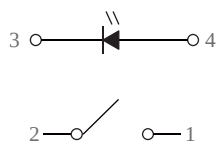
Circuit	:SPST
Current Rating	:50mA
Voltage Rating	:12VDC
Dielectric Withstanding Voltage	:250VAC for 1 minute
Contact Resistance	:100m Ohm Max.(initial)
Insulation Resistance	:100M Ohm Min.
Operating Force	:200gf±50gf
Total Travel	:0.2mm±0.1mm
Mechanical Life	:100,000 cycles Min.
Function	:Momentary
Operating Temperature	: -10 °C ~ +60 °C

Materials

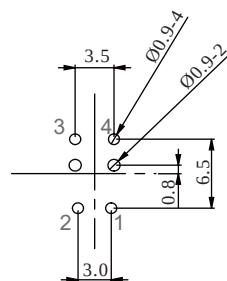
Cap	:Polycarbonate (PC) Acrylonitrile Butadiene Styrene (ABS)
Diffuser	:Polyamide (PA)
Housing	:Polycarbonate (PC) Polyamide (PA) Acrylonitrile Butadiene Styrene (ABS)
Stem	:Polyamide (PA)
Base	:LCP
Terminal	:Bronze with gold plating

PAT. I515757

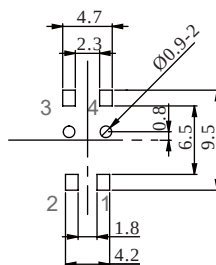
PCB layout & Circuit Diagram



Pin	Function
1	SW COM.
2	SW N.O.
3	LED-
4	LED+



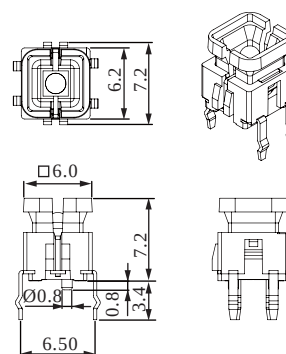
P.C.B. Mounting Holes for SPFSP



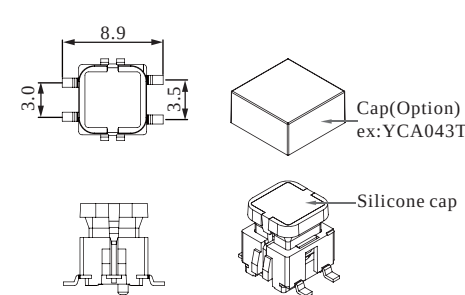
P.C.B. Layout for SPFSC

Dimension

/ SPFSP



/ SPFSC



Note:

- ① With silicone cap suit for pick and place machine.
- ② Fit the Cap **AFTER** soldering process.

How to Order

S P F

Terminal Type	
SP	DIP
SC	SMD Silicone cap
SA	SMD PI tape

LED Color	
0	Without LED
1	Red
2	Yellow
3	Green
4	White
5	Pure Green
7	Blue

EXAMPLE : SPFSP7YCA0434



6

9 6

12 6

9

12

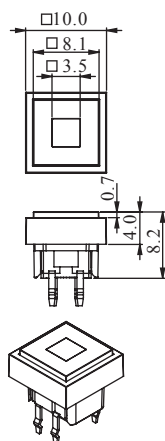
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TACTILE SWITCH

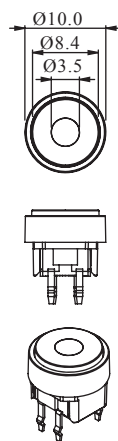


Dimension of Housing

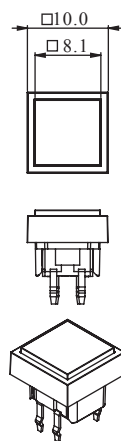
/ Cap Type 1
/ Square Housing



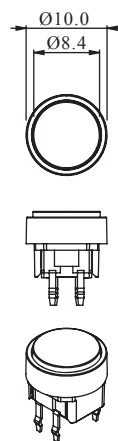
/ Cap Type 2
/ Round Housing



/ Cap Type 3
/ Square Housing



/ Cap Type 4
/ Round Housing



How to Order (Housing)

SPFSP

LED Color	
0	Without LED
1	Red
2	Yellow
3	Green
4	White
5	Pure Green
7	Blue

Housing Type	
S	Square
R	Round

Housing Color	
5	Black
L	Titanium silver

Cap Type with LED	
1	
2	

Cap Type without LED	
3	
4	

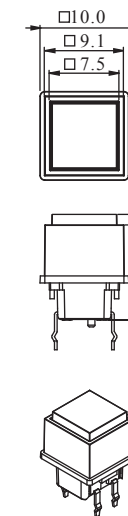
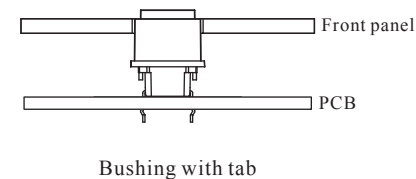
Cap Color	
5	Black
9	Grey

EXAMPLE :
SPFSP7R525

Dimension of □ 9.0 Housing

Features

- Illumination □ 7.5mm cap.
- Total height 12.0mm.
- Bushing structure embellish front panel.
- Customize graved or printed service.



How to Order(□ 9.0 Housing)

SPFSP

LED Color	
0	Without LED
1	Red
2	Yellow
3	Green
4	White
5	Pure Green
7	Blue

Housing Color	
5	Black
L	Titanium silver

Diffuser color	
4	White

Cap type	
1	Flat

Cap Color	
T	Transparent

EXAMPLE :
SPFSP5L41T

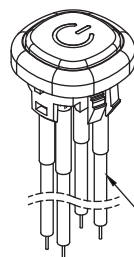
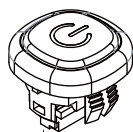
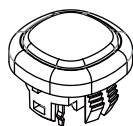
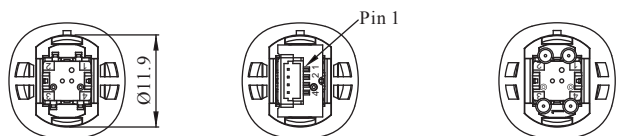
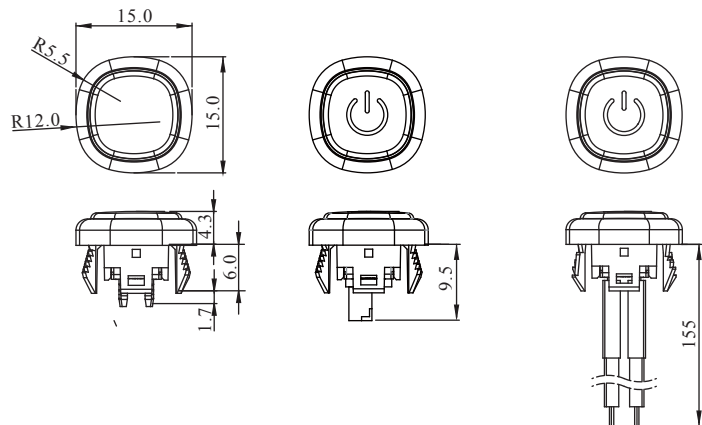
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Dimension of Ø12 Panel Housing

/ SPFSP0A551 / SPFSS7A5501-L001 / SPFSP1A5501-L001-1
/ SPFSP1A5501-L001



The Connector similar
ISTBM04B-SRSS-TB
Applicable Connector:
Conductor pitch / 1.0mm
Conductor width / 0.2mm

Pin	Function	Cable color
1	SW COM.	White
2	SW N.O.	White
3	LED-	Black
4	LED+	Red

UL 1007#22AWG

How to Order Ø12 Panel



SPFSP0A551

Manal solder / Without LED /
Ø12 Black Housing /
Red cap



SPFSP1A5501-L001

Manal solder / Red LED /
Ø12 Black Housing /
Paint Black cap with Marking



SPFSS7A5501-L001

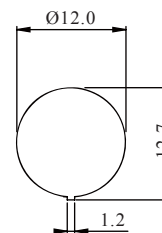
Connector / Blue LED /
Ø12 Black Housing /
Paint Black cap with Marking



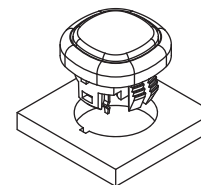
SPFSP1A5501-L001-1

Cable UL1007#22AWG / Red LED /
Ø12 Black Housing /
Paint Black cap with Marking

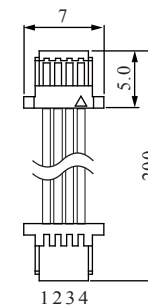
Panel cutting



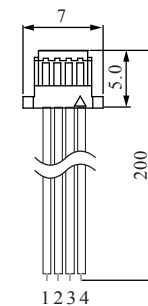
Panel thickness
1.0~3.0mm



Option for SPFSS□A



Cable: YCW037
UL1571#28AWG



Cable: YCW040
UL1571#28AWG