

ShanPu

Tactile Switches Series SPF



PAT. I515757

General Specifications

Switch circuit
Switch contact rating

Switch contact rating :50mA @ 12V DC max LED rating :Limited forward current(IF)

at 20mA max

:SPST

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

:Polycarbonate (PC)

Acrylonitrile Butadine Styrene (ABS)

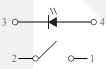
Polyamide (PA) :Polycarbonate (PC)

Diffuser :Polycarbonate (PC)
Housing Polyamide (PA)

Acrylonitrile Butadine Styrene (ABS)

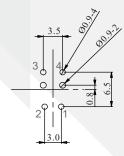
Stem :Polyamide (PA)
Base :Polyamide (PA)
Terminal :Bronze with gold plating

PCB layout & Circuit Diagram

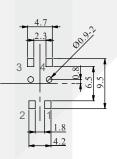


Pin	Function
1	SW COM.
2	SW N.O.
3	LED-
4	LED+

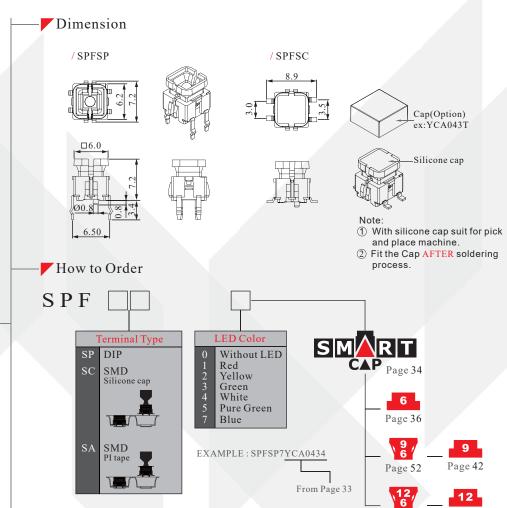
Recommend add resistor to limited each LED forward current at 20mA



P.C.B. Mounting Holes for SPFSP



P.C.B. Layout for SPFSC

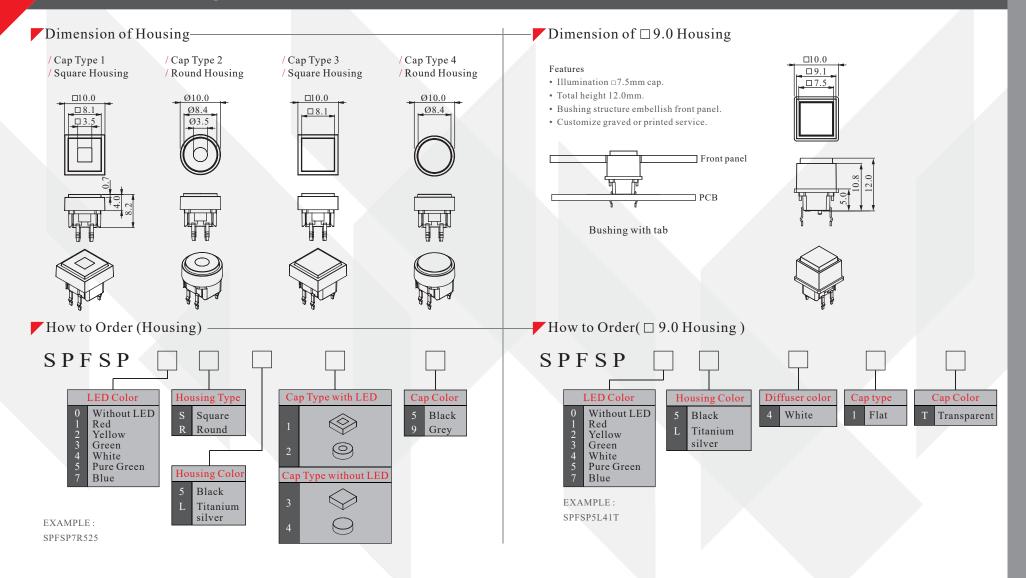


Page 49



ShanPu

Tactile Switches Series SPF





ShanPu

Tactile Switches Series SPF

Dimension of Ø12 Panel Housing

/ SPFSP0A551 / SPFSP1A5501-L001

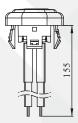
/SPFSS7A5501-L001







/SPFSP1A5501-L001-1











The Connector similar

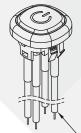
JST BM04B-SRSS-TB

Applicable Connector:

Conductor pitch / 1.0mm

Conductor width / \(\pi\) 0.2mm





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

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

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

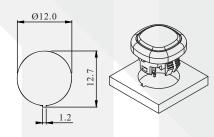


SPFSS7A5501-L001
Connector / Blue LED /
Ø12 Black Housing /
Paint Black cap with Marking



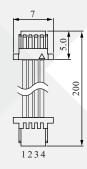
SPFSP1A5501-L001-1 Cable UL1007#22AWG / Red LED / Ø12 Black Housing / Paint Black cap with Marking

Panel cutting

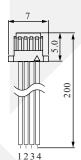


Panel thickness 1.0~3.0mm

POption for SPFSS□A



Cable: YCW037 UL1571#28AWG



Cable: YCW040 UL1571#28AWG