SMAP

Surface Mount Pushbutton Switches

Washable

FUJISOKU SWITCHES

RoHS Compliant



■ Features

- Compatible with Reflow Soldering
- Washable
- Gold-Plated Contacts for Low Current Application
- Clip Contact Mechanism for High Contact Reliability

■ Specifications

Rating	Max.	0.4VA (28VDC max.) (Resistive load)
	Min.	1μA 20mVDC (Resistive load)
Initial contact resistance		100m Ω max. (1.5mA 200 μ VAC)
Dielectric strength		250VAC 1minute
Initial insulation resistance		500M Ω min. (250VDC)
Stroke		1.4mm
Operating force		1.47±0.98 N
Electrostatic capacity		5pF max.
Electrical life		10,000 operations at max. rating 30,000 operations at min. rating
Switch timing		Non-shorting
Operating temperature range		−20～+80℃
Storage temperature range		−40～+80℃

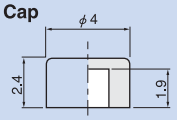
■ Table of Part Numbers

Packaging specifications	Terminal styles	Switching function	Poles	
			1 pole	2 poles
Stick	PC	ON−(ON)	SMAP1F-2M-Z	SMAP2F-2M-Z
	Right-angle	ON−(ON)	SMAP1F-5M-Z	SMAP2F-5M-Z
Emboss taping	Right-angle	ON−(ON)	SMAP1F-5M-E-Z	SMAP2F-5M-E-Z

■ Optional Accessories

《Sold separately》

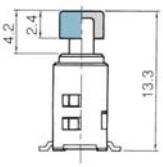
Color Cap



Material: ABS resin

White	140000481453
Red	140000481452
Black	140000481451
Gray	140000481450

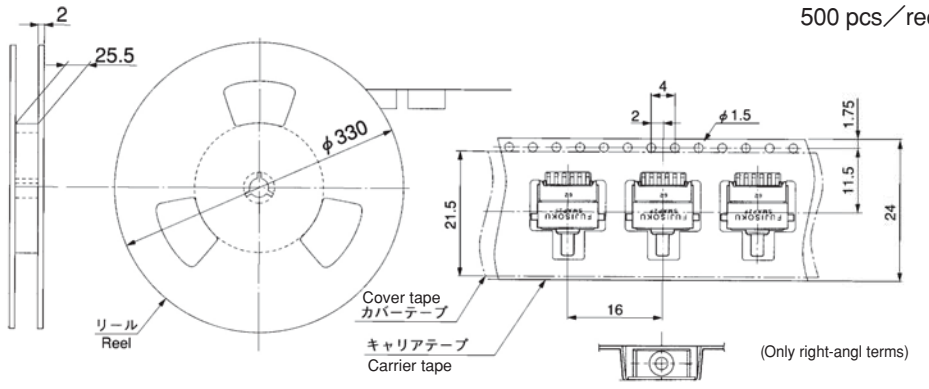
■ Color Cap Mounting



■ Packaging Specifications

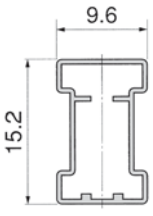
Emboss taping

500 pcs／reel



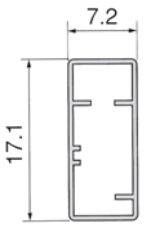
Stick

PC



ℓ=570
50pcs／stick

R/A

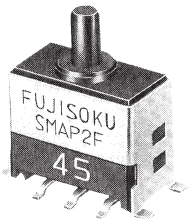


ℓ=570
50pcs／stick

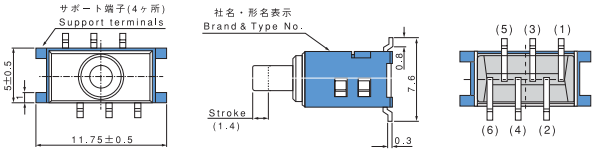
(ON)：Momentary.

Washable SMAP

SMAP−2M



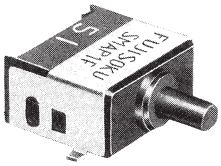
PC



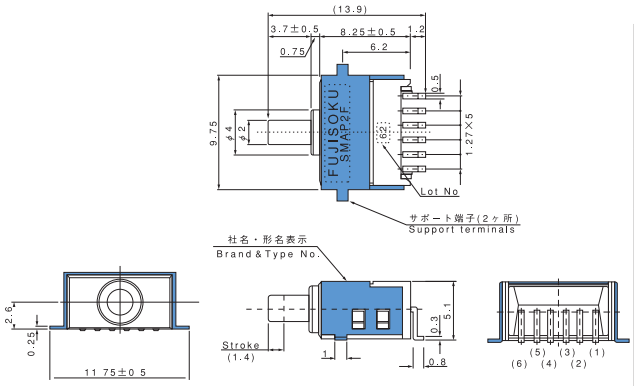
Terminal numbers are not shown on the switch.

Part No. \ Switching function		Push
☆SMAP1F-2M-Z	ON	(ON)
Connecting terminals	2−3	2−1
☆SMAP2F-2M-Z	ON	(ON)
Connecting terminals	2−3 5−4	2−1 5−6

SMAP−5M



R/A

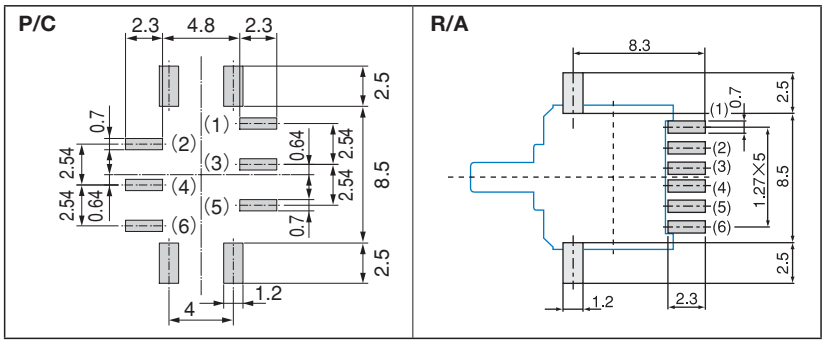


Terminal numbers are not shown on the switch.

Part No. \ Switching function		Push
SMAP1F-5M-Z SMAP1F-5M-E-Z	ON	(ON)
Connecting terminals	2−3	2−1
★SMAP2F-5M-Z ★SMAP2F-5M-E-Z	ON	(ON)
Connecting terminals	2−3 5−4	2−1 5−6

(ON) : Momentary

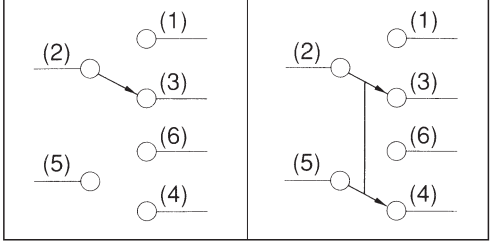
■Pad Layouts (Top view)



The blue line shows the outline of the switch.

■Circuit Diagrams

1 pole	2 poles



•In a single-pole configuration, terminals (4), (5) and (6) are not connected.

■Soldering Specifications

(1)Manual Soldering

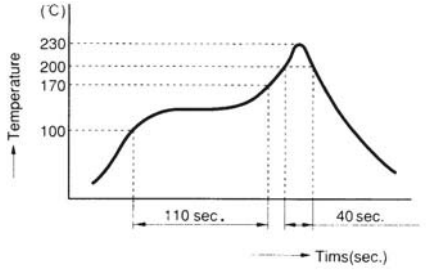
Device : Soldering iron

380°C ±10°C; 3±0.5 seconds

(2)Reflow Soldering

Device : Inline or batch system

•Apply reflow soldering only once



■Flux Cleaning

(1)Solvent :Fluorine or Alcohol type

(2)Cleaning after soldering should be done after the terminal temperature falls to 90°C or below, or after leaving the switch for five minutes or longer at room temperature.

(3)Do not use ultrasonic cleaning.

(ON) : Momentary. ☆ : Semi-standard products. ★ : Made to order products.