

SMAP

Surface Mount Pushbutton Switches

Washable

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.	1 μ A 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 \pm 0.98 N	
Electrostatic capacity	5pF max.	10,000 operations at max. rating
Electrical life	30,000 operations at min. rating	
Switch timing	Non-shorting	
Operating temperature range	-20 \sim +80 $^{\circ}$ C	
Storage temperature range	-40 \sim +80 $^{\circ}$ C	

Table of Part Numbers

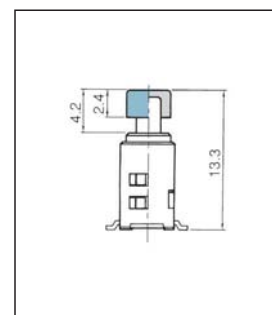
Packaging specifications	Terminal styles	Switching function	Poles	
			1 pole	2 poles
Stick	PC	ON-(ON)	SMAP1F-2M-Z	SMAP2F-2M-Z
	Right-angle	ON-(ON)	SMAP1F-5M-Z	SMAP2F-5M-Z
Emboss tapping	Right-angle	ON-(ON)	SMAP1F-5M-E-Z	SMAP2F-5M-E-Z

Optional Accessories

《Sold separately》

<p>Color Cap</p> <p>Material: ABS resin</p>	
White	140000481453
Red	140000481452
Black	140000481451
Gray	140000481450

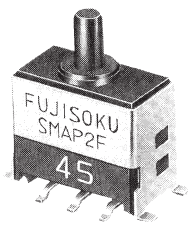
Color Cap Mounting



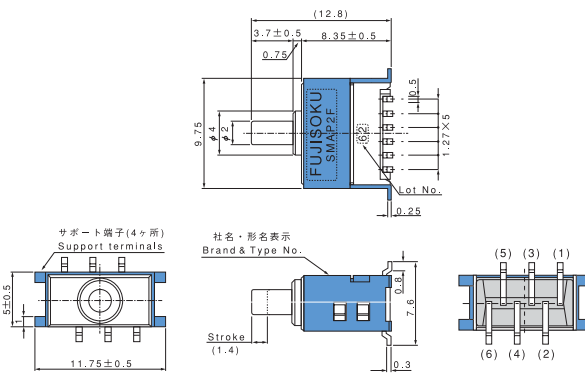
Packaging Specifications

Emboss tapping		Stick	
<p>500 pcs/reel</p>		PC	R/A
		<p>$\ell = 570$ 50pcs/stick</p>	<p>$\ell = 570$ 50pcs/stick</p>



(ON) : Momentary.

SMAP-2M

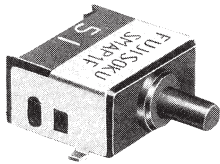
PC



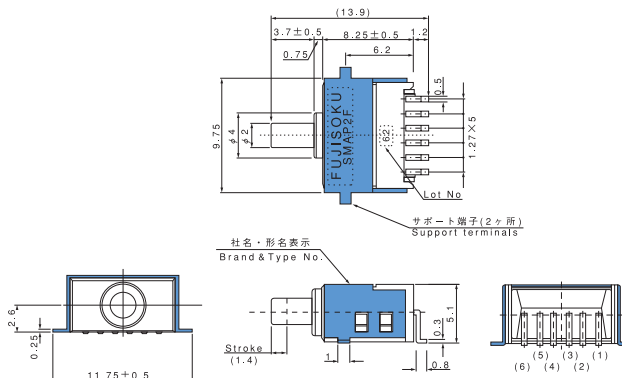
Terminal numbers are not shown on the switch.

Switching function		
Part No.		
☆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



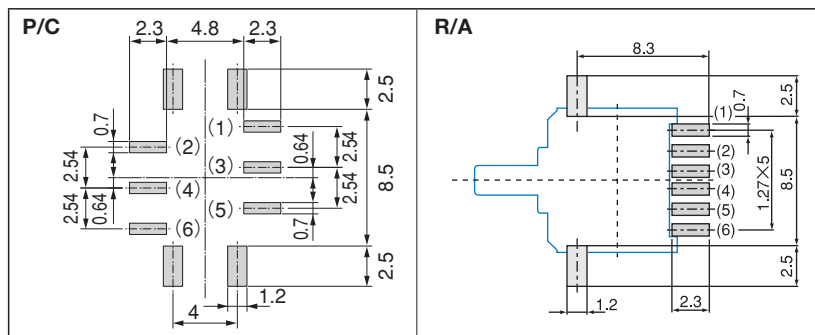
Terminal numbers are not shown on the switch.

<div>Switching function</div> <div>Part No.</div>	<div>  </div>	<div> <div>Push</div>  </div>
SMAP1F-5M-Z	ON	(ON)
SMAP1F-5M-E-Z		
Connecting terminals	2—3	2—1
★SMAP2F-5M-Z	ON	(ON)
★SMAP2F-5M-E-Z		
Connecting terminals	2—3 5—4	2—1 5—6

(ON) : Momentary

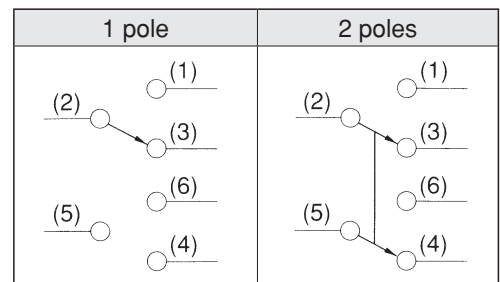
■ Pad Layouts

(Top view)



The blue line shows the outline of the switch.

■ Circuit Diagrams



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

■ Soldering Specifications

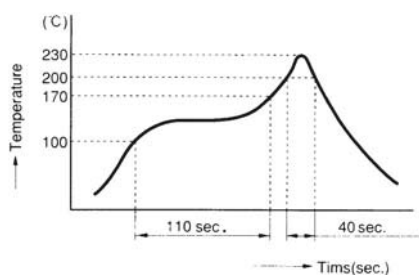
(1)Manual Soldering

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.