

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.	0.4 VA (28 VDC max.) (Resistive load)
	Min.	1 μ A 20 mVDC (Resistive load)
Initial contact resistance		100 m Ω max. (1.5 mA 200 μ VAC)
Dielectric strength		250 VAC 1 minute
Initial insulation resistance		500 M Ω min. (250 VDC)
Stroke		1.4 mm
Operating force		1.47 \pm 0.98 N
Electrostatic capacity		5 pF max.
Electrical life		10,000 operations at max. rating 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

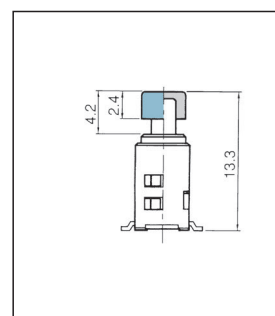
Packaging specifications	Terminal styles	Switching function	Poles
			1 pole
Stick	PC Straight	ON—(ON)	SMAP1F-2M-Z
	Right-angle	ON—(ON)	SMAP1F-5M-Z
Emboss tapping	Right-angle	ON—(ON)	SMAP1F-5M-E-Z

Optional Accessories

《Sold separately》

Color Cap	
Material: ABS resin	
White	140000481453
Red	140000481452
Black	140000481451
Gray	140000481450

Color Cap Mounting

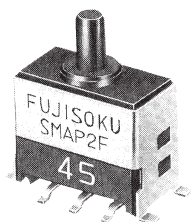


Packaging Specifications

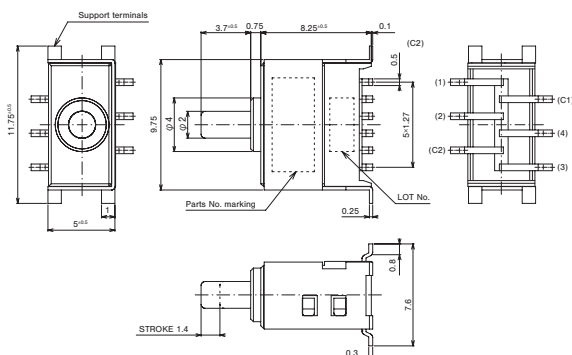
Emboss tapping		Stick	
		PC	R/A
500 pcs./reel			
(Only right angle terminals.) Cover tape Carrier tape		ℓ = 570 50pcs./stick	ℓ = 570 50pcs./stick

(ON) : Momentary.

SMAP-2M



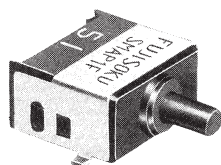
PC



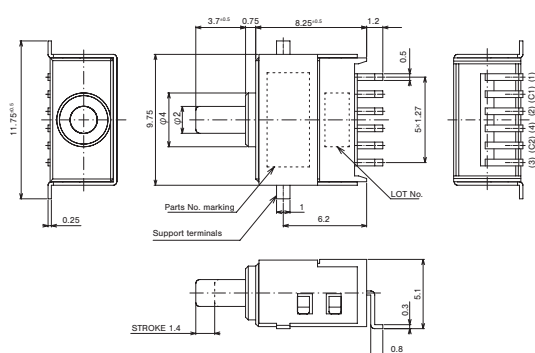
Terminal number not shown on box.

Switching function		Push
Part No.		
☆SMAP1F-2M-Z	ON	(ON)
Connecting terminals	C1-2	C1-1

SMAP-5M



R/A

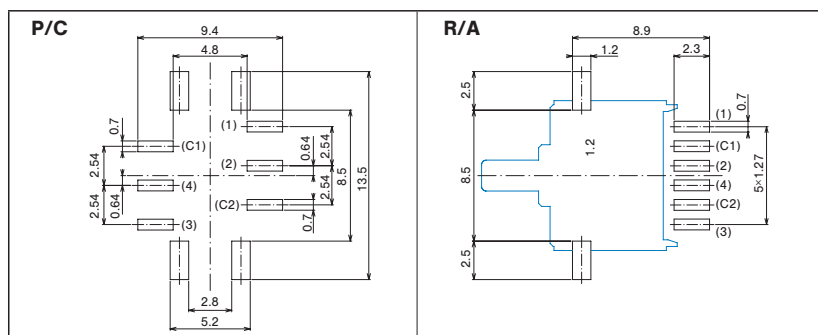


Terminal number not shown on box.

Switching function		Push
Part No.		
SMAP1F-5M-Z SMAP1F-5M-E-Z	ON	(ON)
Connecting terminals	C1-2	C1-1

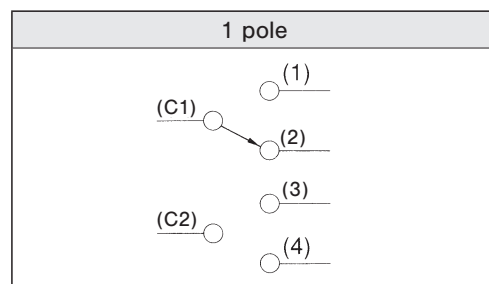
(ON) : Momentary

■ Pad Layouts (Top view)



The blue line shows the outline of the switch.

■ Circuit Diagrams



*In a single-pole configuration, terminals (C2), (3) and (4) are not connected.

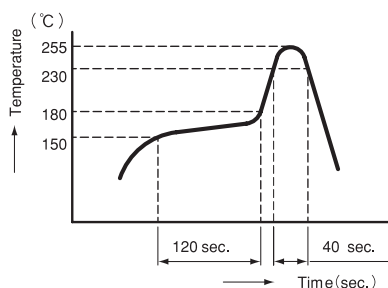
■ Soldering Specifications

(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.