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FP

- Terminal Pins: Kinked
- Actuator Color: Yellow

Ultra-Miniature Pushbutton Switches

Washable

RoHS Compliant



Features

1. Ultra-miniature pushbutton switch for high density mounting.
2. Washable.
3. Terminal pin pitch: 2.54 mm.
4. Independent detent mechanism ensures light operational feel.
5. Clip contact mechanism for long-term contact reliability.
6. Gold-plated contacts.

Specification

Rating	Max.	0.4VA (28VDC max.)
	Min.	1μA 20mVDC
Initial contact resistance		100mΩmax. (1.5mA 200μVAC)
Dielecteic strength		250V AC 1 minute
Insulation resistance		500MΩ min. (250VDC)
Electrical life		10,000 operations at max.rating, 30,000 operations at min.rating,
Mechanical life		30,000 cycles
Operating force		1.47±0.98N
Operating temperature range		−40～+85℃
Storage temperature range		−40～+85℃

Part Numbering

F P 2 F — 2 M Z

Series code | Actuator shape | Number of poles | Switching function | Terminal style | Actuator shape

Code	Type
P	Pushbutton

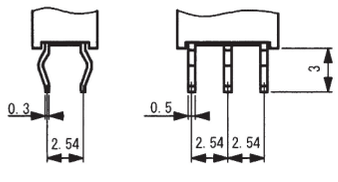
Fig.	Number of poles
1	1 pole
2	2 poles

Code	Switching function
F	ON — (ON)

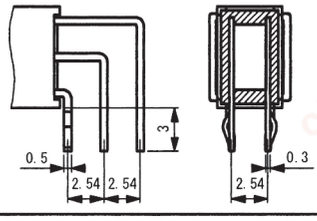
Fig.	Terminal style
2	P/C
5	Right angle
4	Vertical mounting

Code	Actuator shape
M	Standard

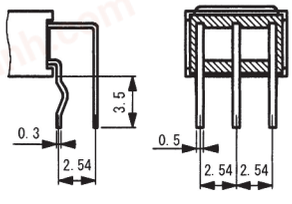
Terminal style of「2」(Style : P C Terminal)



Terminal style of「4」(Style : V/M Terminal)



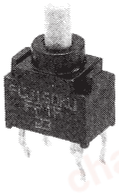
Terminal style of「5」(Style : R/A Terminal)

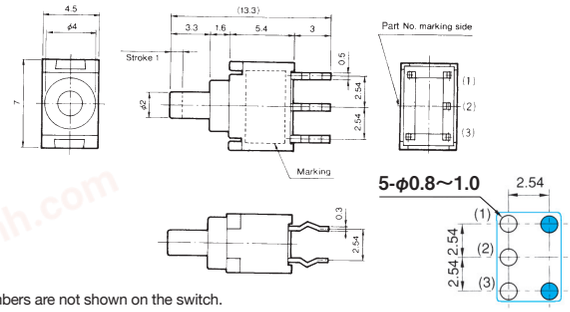


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SPDT

PC





Terminal numbers are not shown on the switch.

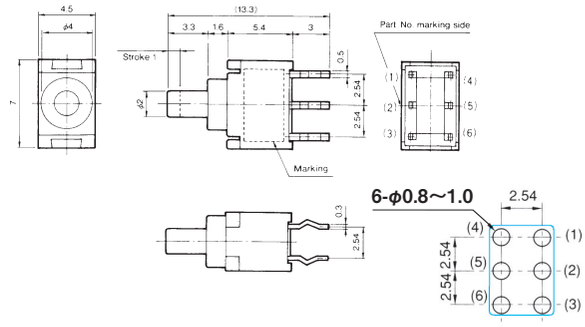
Part No. \ Switching function		
FP1F−2M−Z	ON	(ON)
Connecting terminals	2−3	2−1

プリント基板孔あけ寸法図（Top view）
PC Hole Layouts

DPDT

PC





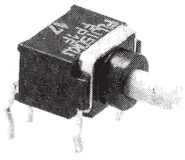
Terminal numbers are not shown on the switch.

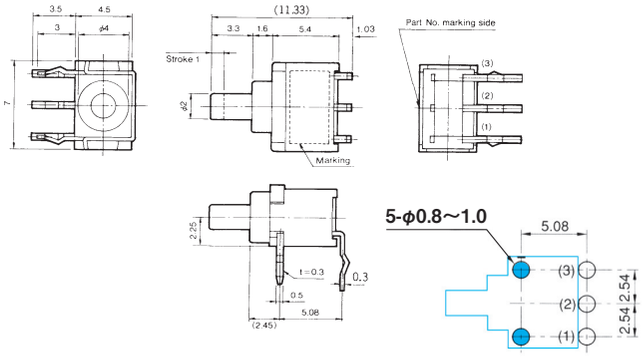
Part No. \ Switching function		
★FP2F−2M−Z	ON	(ON)
Connecting terminals	2−3 5−6	2−1 5−4

プリント基板孔あけ寸法図（Top view）
PC Hole Layouts

SPDT

R/A





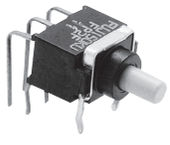
Terminal numbers are not shown on the switch.

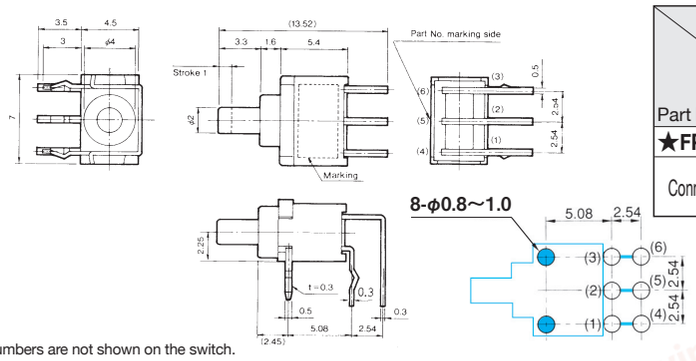
Part No. \ Switching function		
FP1F−5M−Z	ON	(ON)
Connecting terminals	2−3	2−1

Top view)
PC Hole Layouts

DPDT

R/A





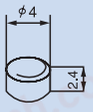
Terminal numbers are not shown on the switch.

Part No. \ Switching function		
★FP2F−5M−Z	ON	(ON)
Connecting terminals	2−3 5−6	2−1 5−4

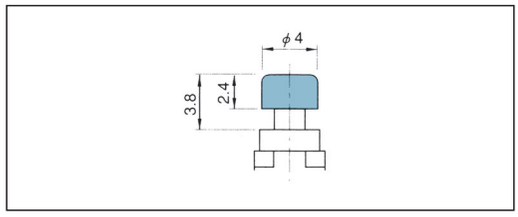
PC Hole Layouts

■Optional Accessories

《Sold separately》

Part Name	Dimension	Color	Part Number
Color Cap	Gloss finish  ABS resin	White	**140000481453**
		Red	**140000481452**
		Black	**140000481451**
		Gray	**140000481450**

■Color Cap Mounting



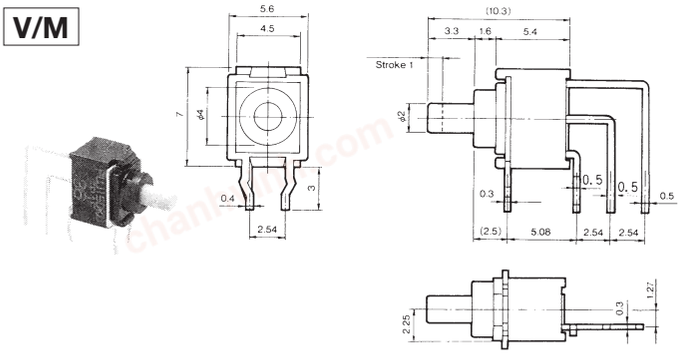
:Optional Accessories.　The blue line shows the outline of the switch.　(ON)：Momentary.　★：Made to order products.

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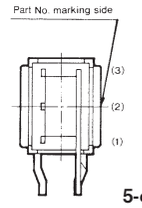
FP

SPDT

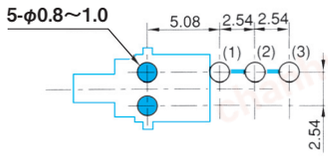
V/M



Terminal numbers are not shown on the switch.



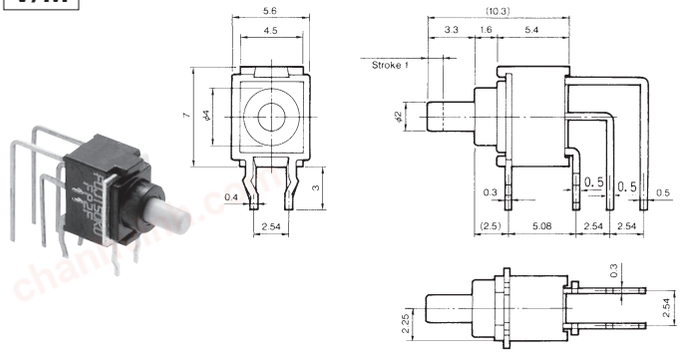
Part No. \ Switching function		
FP1F−4M−Z	ON	(ON)
Connecting terminals	2−3	2−1



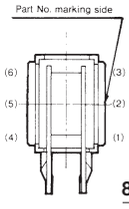
(Top view)
PC Hole Layouts

DPDT

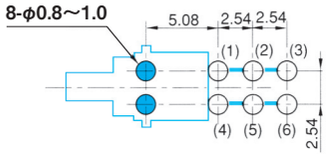
V/M



Terminal numbers are not shown on the switch.



Part No. \ Switching function		
★FP2F−4M−Z	ON	(ON)
Connecting terminals	2−3 5−6	2−1 5−4



(Top view)
PC Hole Layouts

■Handling Precautions (FP, FT, FL)

1. Soldering Specifications

(1)Manual Soldering
Device : Soldering iron
380°C, Max.; 3 seconds, Max.

(2)Auto soldering
Device : Jet wave type or dip type
275°C, Max.; 6 seconds, Max.
・Pre-heating should be done at temperatures from 80 to 120°C and within 120 seconds.

(3)When soldering two or more terminals to the common land, use solder resist to solder them independently.

2. Flux Cleaning

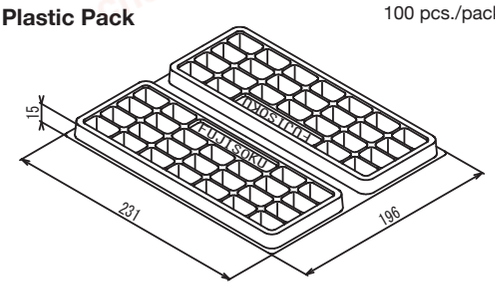
(1)Solvents :Fluorine or Alcohol type

(2)Cleaning after soldering should be done after the PC board is exposed to room temperature (30℃ or below) for 1 to 2 hours.

(3)Do not use ultrasonic cleaning.

■Packaging Specifications

Plastic Pack 100 pcs./pack



The blue line shows the outline of the switch. (ON) : Momentary. ★ : Made to order products.