

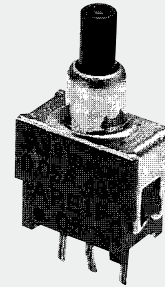
SUPER-MINIATURE PUSHBUTTON SWITCHES

APE

■ FEATURES

- **High Reliability**
Twin-contact clip mechanism is used in the contact section to ensure reliability.
- **Washable Structure**
All switches are of a completely sealed construction.
- **Ideal for Extremely Dry Circuit**
Gold-plated contacts make these switches ideal for use with extremely dry circuit applications.
- **Designed for PC Boards**
Terminal pitches are all in inch sizes (multiples of 2.54 mm).
- **Quality Touch**
Independent standard construction provides a light operating touch.
- **UL approved (File No. E43275 FUJISOKU)**

RoHS compliant



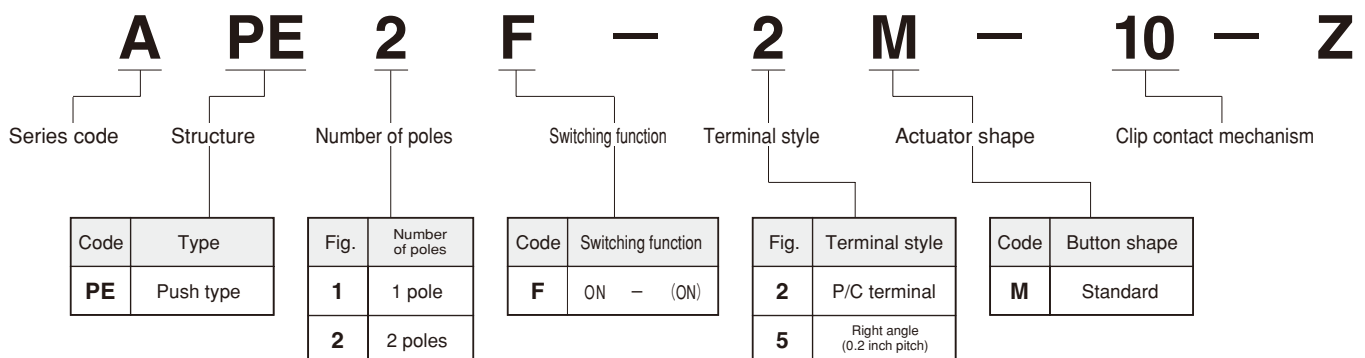
■ SPECIFICATIONS

Rating	Max:50mA 48VAC/DC Min:1μA 20mVAC/DC
Initial contact resistance	50mΩmax. (1.5mA 200 μVAC)
Dielectric strength	250VAC 1 minute
Initial insulation resistance	500MΩmin. (250VDC)
Electrical life	10,000 operations at maximum rating. 30,000 operations at 0.4VA.
Operating force	0.78~2.94N
Operating temperature range	-20~+85°C
Storage temperature range	-40~+85°C

■ TABLE OF PART NUMBERS

Number of poles	Switching function	P/C terminal	Right angle
1	ON - (ON)	APE1F-2M-10-Z	APE1F-5M-10-Z
2	ON - (ON)	APE2F-2M-10-Z	APE2F-5M-10-Z

■ PART NUMBERING



※Please contact us if you can't find your preferable combination in the table of part numbers.

APE

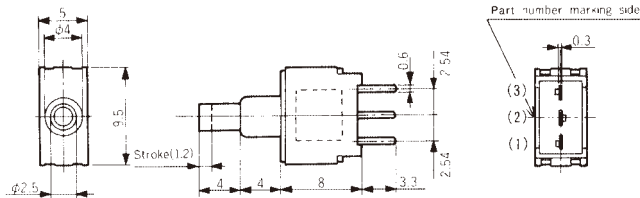
SUPER-MINIATURE PUSHBUTTON SWITCHES

OUTLINE DIMENSIONS

SPDT



PC



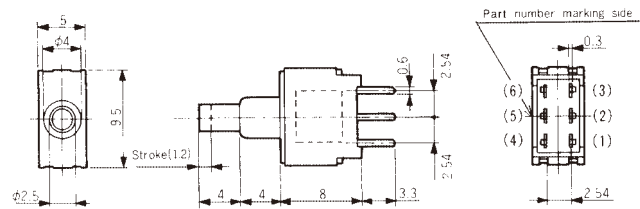
Terminal number not shown on box.

Switching function		
Part No.	APE1F-2M-10-Z	
Connecting terminals	2-3	2-1

DPDT



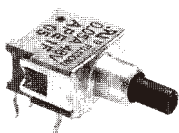
PC



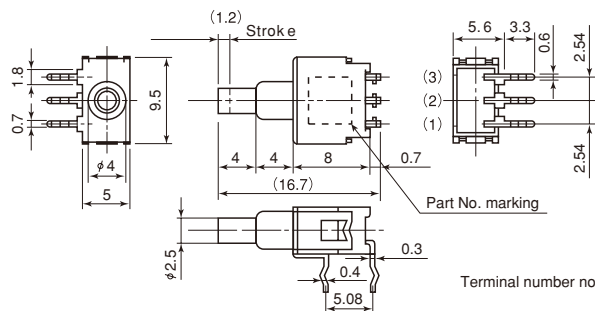
Terminal number not shown on box.

Switching function		
Part No.	APE2F-2M-10-Z	
Connecting terminals	2-3 5-6	2-1 5-4

SPDT



0.2R/A



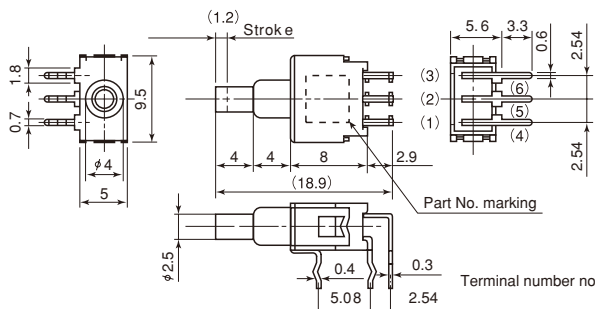
Terminal number not shown on box.

Switching function		
Part No.	★APE1F-5M-10-Z	
Connecting terminals	2-3	2-1

DPDT



0.2R/A



Terminal number not shown on box.

Switching function		
Part No.	★APE2F-5M-10-Z	
Connecting terminals	2-3 5-6	2-1 5-4

※ (ON) : Momentary.

APE

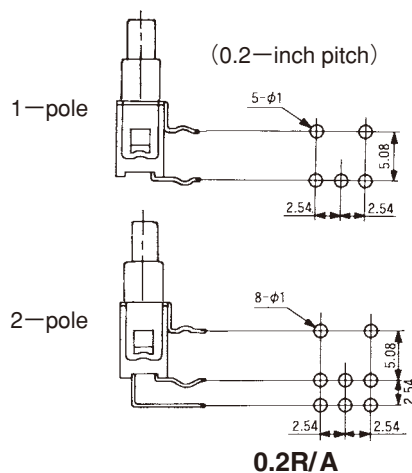
SUPER-MINIATURE PUSHBUTTON SWITCHES

OPTIONAL ACCESSORIES

Part name	Bracket		
Poles	1-pole	2-poles	
Box size	5 mm	7.5 mm	5 mm
Type	AP-M·APE-M	AP-M·APE-M	APE-M
Dimensions			
Part No.	140000640314	140000640315	140000640318

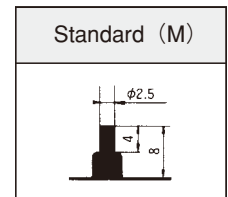
Color cap for AP-M, APE-M (10pcs./pack)		
Dimensions	Color	Part No.
	White	140000481402
	Red	140000481404
	Black	140000481403
	Gray	140000481408
	Green	140000481406
	Blue	140000481407
	Orange	140000481414
	Yellow	140000481405
	Brown	140000481409

RIGHT ANGLE TERMINALS

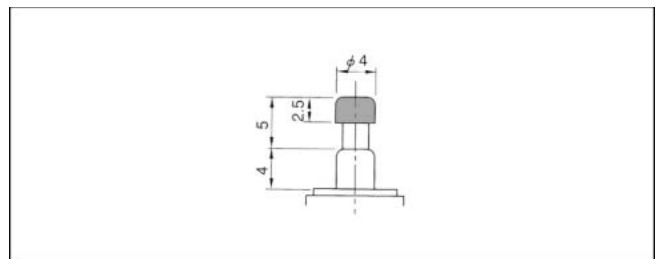


BRACKET INSTALLATION PROCEDURE

BUTTON SHAPE



COLOR CAP MOUNTING



INSTALLATION

- Use printed circuit boards with holes of 1 mm diameter.
- Do not bend terminals prior to installation.
- After switch installation, avoid placing the device in a position in which its weight will be placed on the switch button, etc.
- Do not apply a load exceeding 12.7N to the button. Use Brackets (optionally available) when applying a force of over 12.7N to the switch. Maximum limit strength is 29.4N with Bracket used.
- When making a series installation of switches using Brackets use the 140000640314 or 140000640318 Brackets.
- To especially ensure the stability of switches, use the 140000640315 Brackets.
- When using Brackets pay attention to the printed circuit board drilling dimensions which differ according to type of Brackets. (Page 10.)

APE

SUPER-MINIATURE PUSHBUTTON SWITCHES

■ SOLDERING

- (1) Hand soldering
Device : Solder iron
380 °C Max. 3 sec. Max.
- (2) Auto soldering
Device : Wave or dip type
275 °C Max. 6 sec. Max.
Preheat should be within 80-120 °C, 120sec.

■ FLUX CLEANING

- (1) Solvent : Fluorine or Alcohol type.
- (2) Cleaning shall be made when terminal temperature falls to 90 °C or lower. Or, leave the switch at normal temperature for 5 minutes or longer, before cleaning.
- (3) Do not apply ultrasonic cleaning.

■ PC HOLE LAYOUTS

PC Terminal

Mounting		Without Bracket	When optional Bracket is used.		
Type			140000640314	140000640315	140000640318
AP-M APE	1—pole				
AP-M AP-H	2—pole				
APE	2—pole				

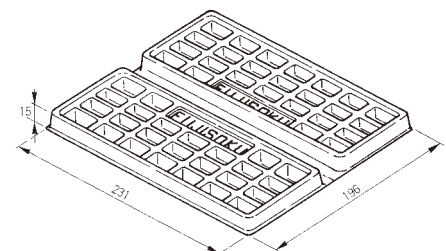
Right-angle Terminal

Terminal		0.2—inch pitch	0.3—inch pitch
Type			
AP-M APE	1—pole		
	2—pole		

■ PACKAGING SPECIFICATION

Plastick Pack

PC terminals
: 100 pcs/pack



Right-angle terminals
: 50 pcs/pack