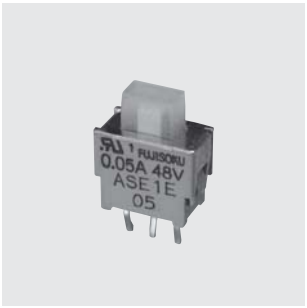
ASE

Washable

FUJISOKU SWITCHES

RoHS Compliant

Hyper-miniature Slide Switches



UL

■Features

1. High Contact Reliability

Twin-contact clip mechanism for high contact reliability

2. Immersion washable type

3. Gold-plated contacts suitable for low current applications

4. For PC board mounting

5. Improved operability

The independent detent structure provides a light operating touch.

6. UL-recognized

■ Specifications

Rating	0.4VA AC/DC	Voltagr range	20mV～48V
		Current range	1μA～50mA
	Max.	50mA 60V AC/DC	
	Min.	1μA 20mA AC/DC	
Initial contact resistance		50mΩ max. (1.5mA 200μ VAC)	
Dielectric strength		250VAC 1 minute	
Initial insulation resistance		500MΩ min. (500VDC)	
Electrical life		10,000 cycles at max. rating.	
		10,000 cycles at min. rating or 0.4VA	
Operating force		0.69～4.9N	
Operating temperature range		−20℃～+85℃	
Storage temperature range		−40℃～+85℃	

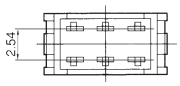
■Part Numbering

A SE 2 D — 2 M — 10 — Z

Series code

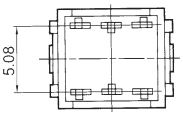
Code	Type
SE	Slide type

Fig.	Numberof poles
1	1 pole
2	2 poles



Terminal line for double poles are 2.54mm (0.1") (Compact type)

Distance between two terminal rows : 5.08mm (0.2")



Code	Switching function
D N	ON — ON
E P	ON−OFF−ON

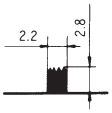
Fig.	Terminal styles
2	PC terminal
5	Right angle (0.2inch pitch)
6	Right angle (0.3inch pitch)

Code	Actuator shape
M	Standard

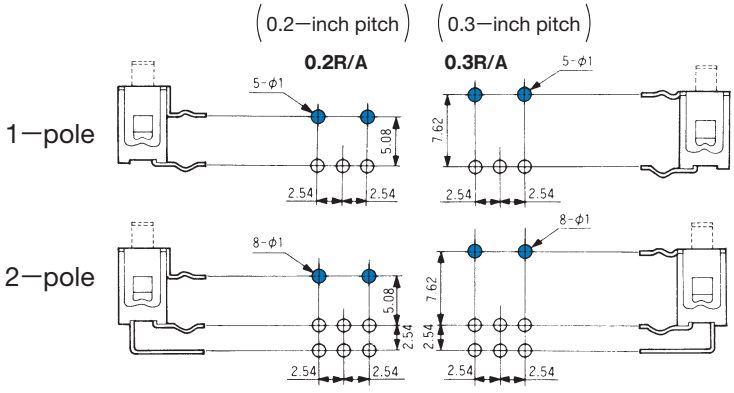
Clip mechanism

■ Actuator Shape

Standard (M)



■Right Angle Terminals

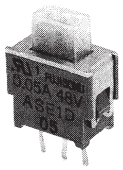


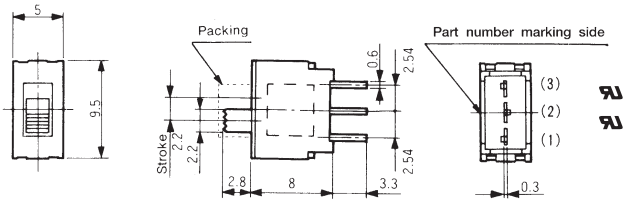
:Optional Accessories.

ASE

SPDT

PC



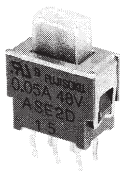


Part No. \ Switching function	Viewed from part No. marking side		
ASE1D−2M−10−Z	ON	—	ON
☆ASE1E−2M−10−Z	ON	OFF	ON
Connecting terminals	2−1	—	2−3

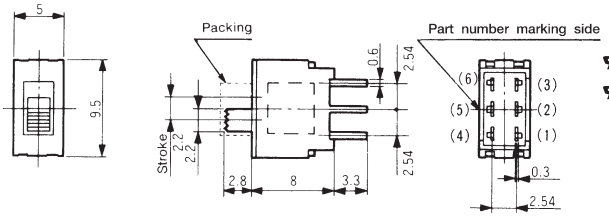
Terminal numbers are not shown on the switch.

DPDT

PC



Distance between two terminal rows : 2.54 mm

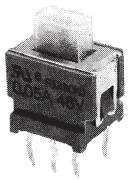


Part No. \ Switching function	Viewed from part No. marking side		
ASE2D−2M−10−Z	ON	—	ON
★ASE2E−2M−10−Z	ON	OFF	ON
Connecting terminals	2−1 5−4	—	2−3 5−6

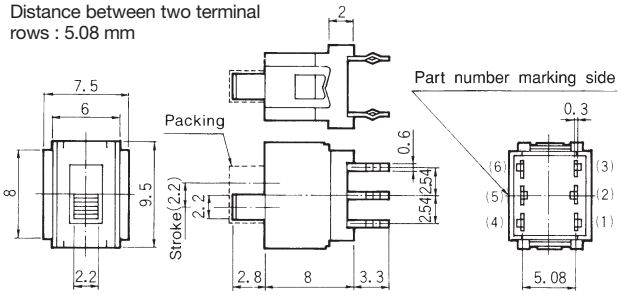
Terminal numbers are not shown on the switch.

DPDT

PC



Distance between two terminal rows : 5.08 mm

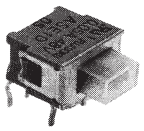


Part No. \ Switching function	Viewed from part No. marking side		
☆ASE2N−2M−10−Z	ON	—	ON
★ASE2P−2M−10−Z	ON	OFF	ON
Connecting terminals	2−1 5−4	—	2−3 5−6

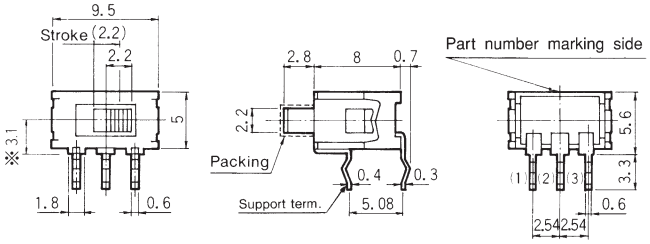
Terminal numbers are not shown on the switch.

SPDT

0.2R/A



Mounting height : 3.1 mm

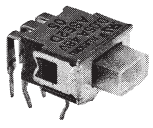


Part No. \ Switching function	Viewed from part No. marking side		
ASE1D−5M−10−Z	ON	—	ON
★ASE1E−5M−10−Z	ON	OFF	ON
Connecting terminals	2−1	—	2−3

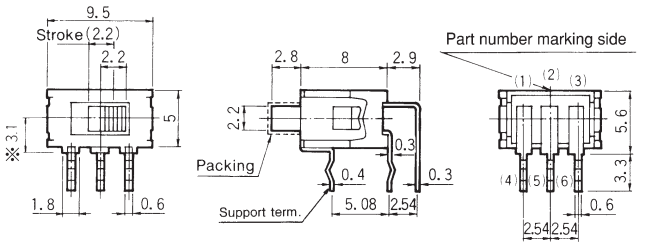
Terminal numbers are not shown on the switch.

DPDT

0.2R/A



Mounting height : 3.1 mm

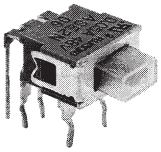


Part No. \ Switching function	Viewed from part No. marking side		
ASE2D−5M−10−Z	ON	—	ON
★ASE2E−5M−10−Z	ON	OFF	ON
Connecting terminals	2−1 5−4	—	2−3 5−6

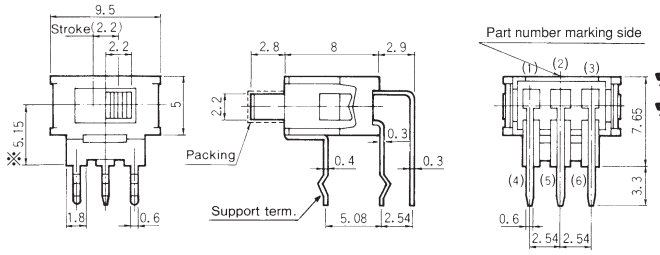
Terminal numbers are not shown on the switch.

DPDT

0.2R/A



Mounting height : 5.15 mm



Part No. \ Switching function	Viewed from part No. marking side		
★ASE2N−5M−10−Z	ON	—	ON
▲ASE2P−5M−10−Z	ON	OFF	ON
Connecting terminals	2−1 5−4	—	2−3 5−6

Terminal numbers are not shown on the switch.

★ : Made to order products.

●The actuator is sealed with a white-colored packing. Remove the packing with tweezers after the washing process.

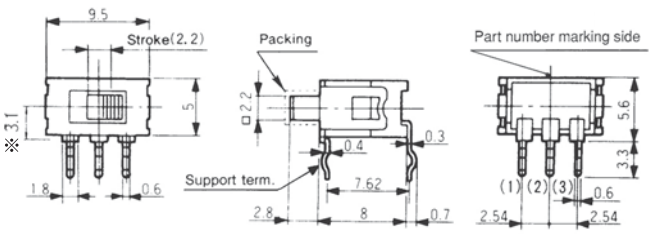
ASE

SPDT

0.3R/A

Mounting height : 3.1 mm





Part No. \ Switching function	Viewed from part No. marking side		
			
ASE1D-6M-10-Z	ON	—	ON
★ASE1E-6M-10-Z	ON	OFF	ON
Connecting terminals	2—1	—	2—3

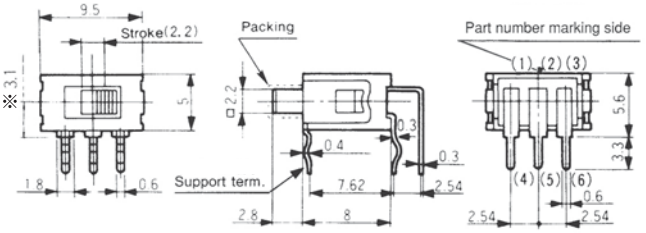
Terminal numbers are not shown on the switch.

DPDT

0.3R/A

Mounting height : 3.1 mm





Part No. \ Switching function	Viewed from part No. marking side		
			
☆ASE2D-6M-10-Z	ON	—	ON
★ASE2E-6M-10-Z	ON	OFF	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

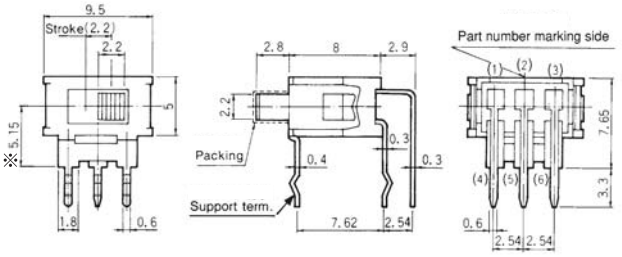
Terminal numbers are not shown on the switch.

DPDT

0.3R/A

Mounting height : 5.15 mm

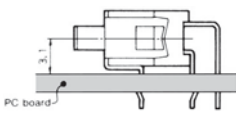
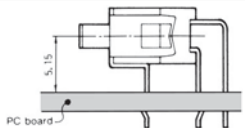




Part No. \ Switching function	Viewed from part No. marking side		
			
★ASE2N-6M-10-Z	ON	—	ON
★ASE2P-6M-10-Z	ON	OFF	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

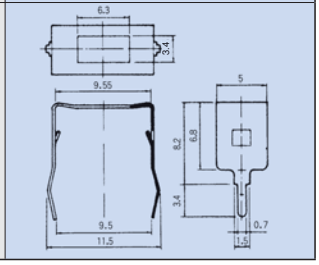
Terminal numbers are not shown on the switch.

■ Mounting Height

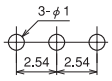
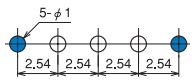
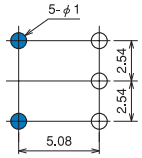
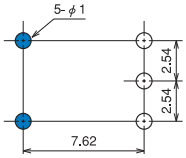
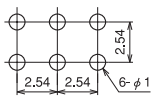
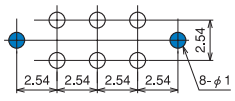
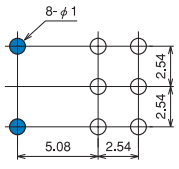
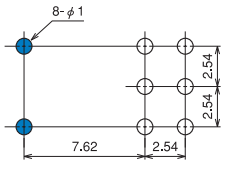
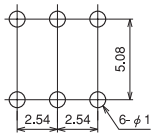
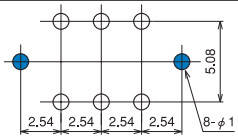
Switching function	D·E	N·P
Mounting		

■Optional Accessories

《Supplied separately》

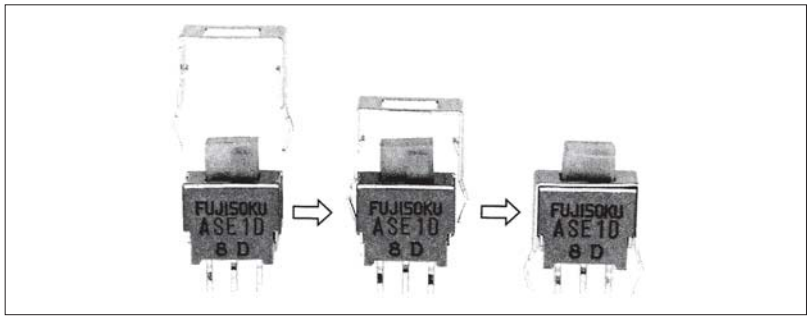
Part Name	Bracket
Part No.	**140000640324**
Dimensions	

■PC Hole Layouts

Series	P/C terminal		Right Angle terminal	
	Whithout bracket	Whit bracket	0.2inch pitch	0.3inch pitch
ASE1D **ASE1E**				
ASE2D **ASE2E**				
ASE2N **ASE2P**				

★ : Made to order products.　　☆ : Semi-standard products.

■ Bracket Installation Procedure



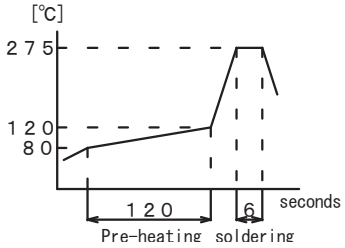
■Handling Precautions (AS and ASE Series)

1.Soldering Specifications

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

(2)Auto Soldering
Device ： Jet wave type or dip type
275℃, Max.; 6 seconds, Max.

・Pre-heating should be done at temperatures ranging from 80℃ to 120℃ and within 120 sec.



2. Flux Cleaning

(1)Solvent : Fluorine or Alcohol type.

(2)Cleaning after soldering should be done after the terminal temperature falls to 90℃ or below, or after leaving the switch for five minutes or longer at room temperature.
AS series are not process sealed and are not washable. If the PC board is to be cleaned, clean the soldering surface of substrate with a brush so that the switch is not exposed to the cleaning solution.

(3)Do not use ultrasonic cleaning system.

3. Mounting of Switch

(1)Use the PC boards of ϕ1 holes.

(2)Do not bend the terminals before mounting the switch on the PC board.

(3)After mounting the switch, do not place the device in such a way that the device weight will be applied on the knob, etc. of the switch.

(4)Do not apply load exceeding 12.7 N (1.3 kgf) to the knob. Use a bracket (optional accessory) if the load is expected to exceed 12.7 N (1.3 kgf). The strength of the knob will be reinforced to 29.4 N (3 kgf) max..

■Packaging Specifications

