

ASE

SUPER-MINIATURE SLIDE SWITCHES

FEATURES

- **High Contact 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 Small Currents**
Gold-plated contacts make these switches ideal for use with extremely small currents.
- **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**

RoHS compliant



SPECIFICATIONS

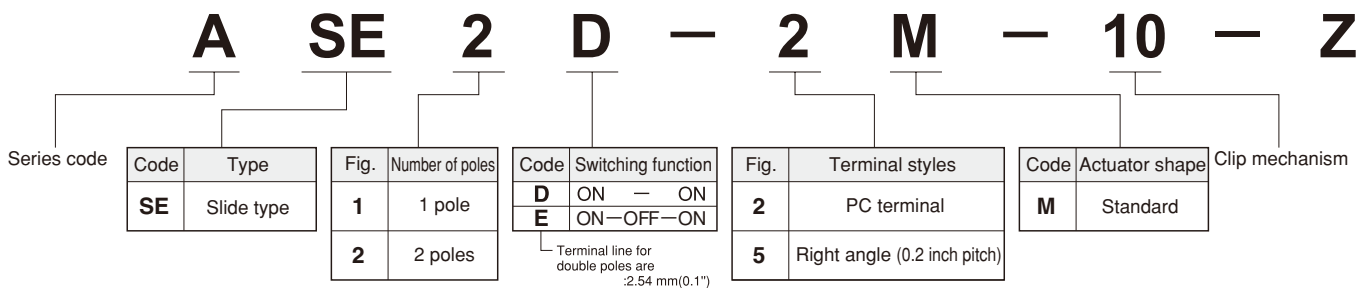
Rating	Max:50mA 48V AC/DC Min:1 μ A 20mV AC/DC
Initial contact resistance	50m Ω max (1.5mA 200 μ VAC)
Dielectric strength	250VAC 1 minute
Insulation resistance	500M Ω min. (250V DC)
Electrical life	10,000 cycles at maximum rating 50,000 cycles at minimum rating
Operating temperature range	-20~+85 $^{\circ}$ C
Storage temperature range	-40~+85 $^{\circ}$ C

TABLE OF PART NUMBERS

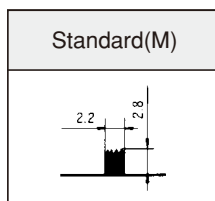
Number of poles	Switching function	PC terminal	Right angle (0.2 inch pitch)
1 pole	ON - ON	ASE1D-2M-10-Z	ASE1D-5M-10-Z
	ON - OFF - ON	ASE1E-2M-10-Z	ASE1E-5M-10-Z
2 poles	ON - ON	ASE2D-2M-10-Z	ASE2D-5M-10-Z
	ON - OFF - ON	ASE2E-2M-10-Z	★ASE2E-5M-10-Z

★ : Made-to-order items.

PART NUMBERING



ACTUATOR SHAPE



OPTIONAL ACCESSORIES

Part Name	Bracket
Part No.	140000640324
Dimension	

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

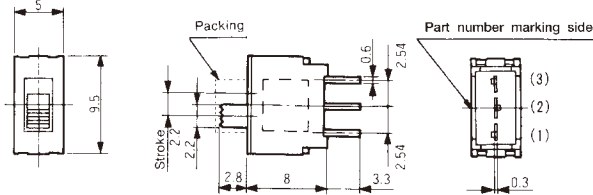
■ Specifications are subject to change without notice. Specifications in this catalog are for reference. The formal specification sheets will be submitted upon request.

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OUTLINE DIMENSIONS

SPDT

PC

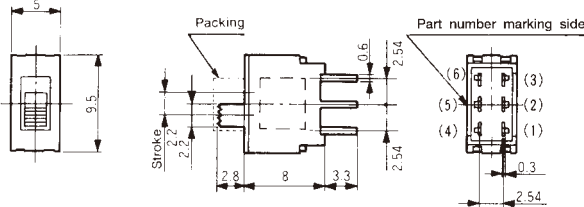


Terminal number not shown on box.

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

DPDT

PC

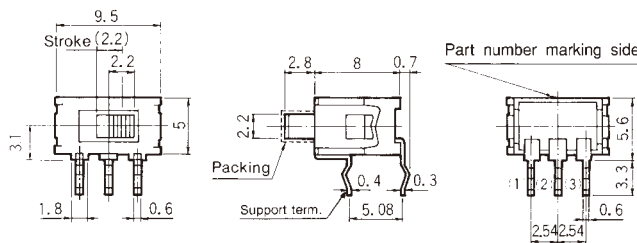


Terminal number not shown on box.

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

SPDT

0.2R/A

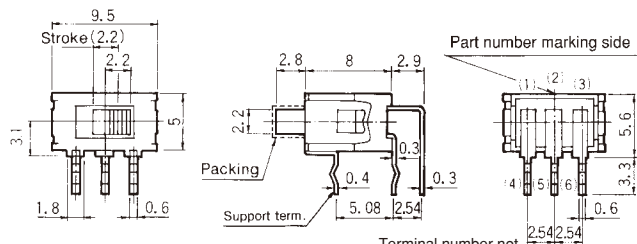


Terminal number not shown on box.

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

DPDT

0.2R/A



Terminal number not shown on box.

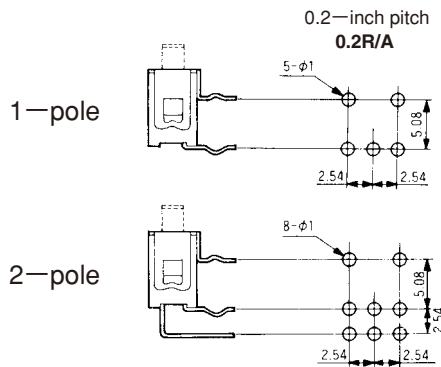
Switching function	Viewed from part No. marking side		
Part no.			
ASE2D-5M-10-Z	ON	—	ON
★ASE2E-5M-10-Z	ON	OFF	ON
Connecting terminals	2-1 5-4	—	2-3 5-6

★ : Made-to-order items.

● The button is sealed with a packing. After washing, remove with tweezers before using.

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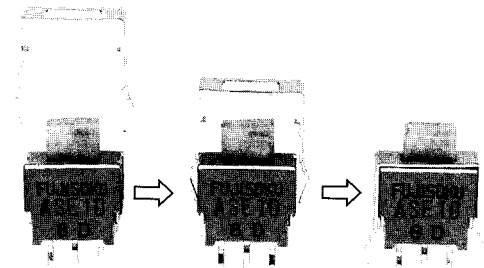
RIGHT ANGLE TERMINALS



MOUNTING HEIGHT

Switching function	D·E
Mounting	

BRACKET INSTALLATION PROCEDURE



PC HOLE LAYOUTS

Series	P/C terminal		Right Angle terminals
	Without bracket	With bracket	0.2 inch pitch
AS1D AS1E ASE1D ASE1E			
AS2D AS2E ASE2D ASE2E			

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■ PRECAUTIONS

1. 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, 120 sec.

2. 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. When PC board cleaning is required, brushing on the soldering face shall be provided so that the AS series is not exposed to the cleaning solution.
- (3) Do not apply ultrasonic cleaning.

3. Installation

- (1) Use printed circuit board with 1mm diameter holes.
- (2) Do not bend the terminals prior to mounting.
- (3) After the switch mounting, do not place the device in a position in which its weight will be placed on the switch Actuator, etc.
Do not apply a load exceeding 12.7 N {1.3 kgf} to the Actuator.
Use brackets (sold separately) when applying a force of over 12.7 N {1.3 kgf} to the button. Actuator strength is 29.4 N {3 kgf} max., when a Bracket is used.

■ PACKAGING SPECIFICATION

