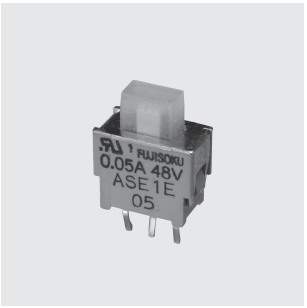
ASE

Hyper-miniature Slide Switches

Washable

RoHS Compliant

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

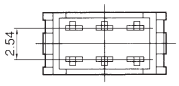
■Part Numbering

A SE 2 D — 2 M — 10 — Z

Series code

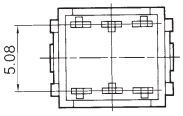
Code	Type
SE	Slide type

Fig.	Numberof poles
1	1 pole
2	2 poles



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

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



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

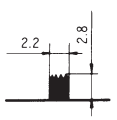
Fig.	Terminal styles
2	PC terminal
5	Right angle (0.2inch pitch)
6	Right angle (0.3inch pitch)

Code	Actuator shape
M	Standard

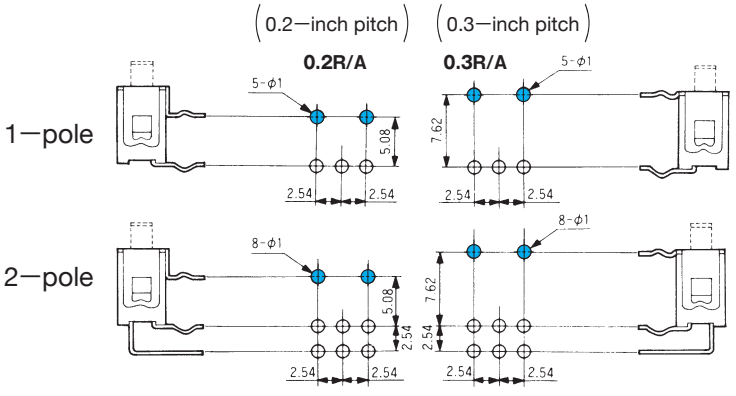
Clip mechanism

■ Actuator Shape

Standard (M)



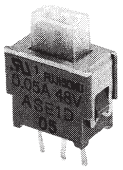
■Right Angle Terminals

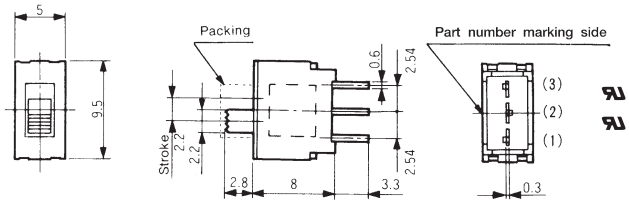


:Optional Accessories.

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

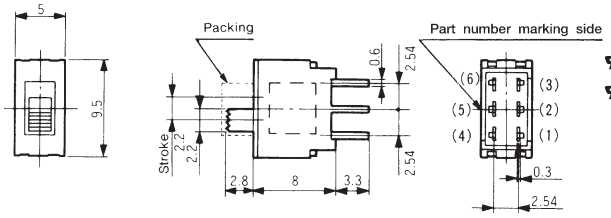
Terminal numbers are not shown on the switch.

DPDT

PC

Distance between two terminal rows : 2.54 mm





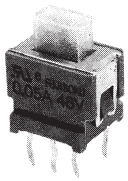
Part No. \ Switching function	Viewed from part No. marking side		
ASE2D−2M−10−Z	ON	—	ON
★ASE2E−2M−10−Z	ON	OFF	ON
Connecting terminals	2−1 5−4	—	2−3 5−6

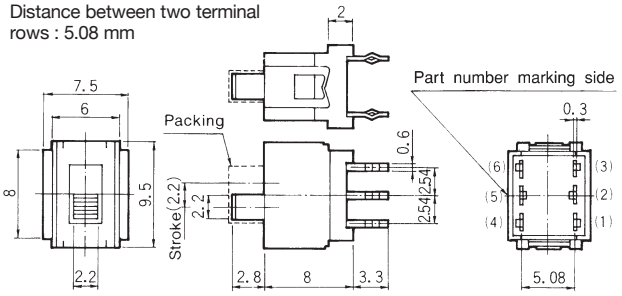
Terminal numbers are not shown on the switch.

DPDT

PC

Distance between two terminal rows : 5.08 mm





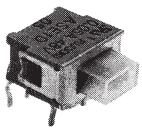
Part No. \ Switching function	Viewed from part No. marking side		
☆ASE2N−2M−10−Z	ON	—	ON
Connecting terminals	2−1 5−4	—	2−3 5−6

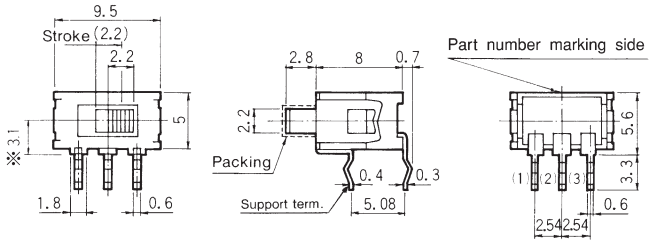
Terminal numbers are not shown on the switch.

SPDT

0.2R/A

Mounting height : 3.1 mm





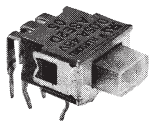
Part No. \ Switching function	Viewed from part No. marking side		
ASE1D−5M−10−Z	ON	—	ON
Connecting terminals	2−1	—	2−3

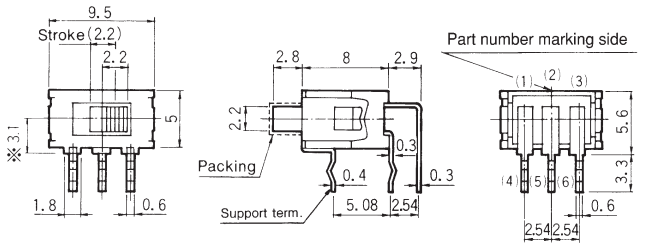
Terminal numbers are not shown on the switch.

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
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.

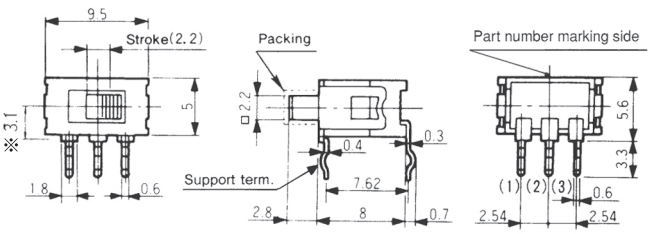
ASE

SPDT

0.3R/A

Mounting height : 3.1 mm





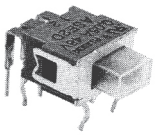
Switching function / Part No.	Viewed from part No. marking side		
ASE1D-6M-10-Z	ON	—	ON
Connecting terminals	2—1	—	2—3

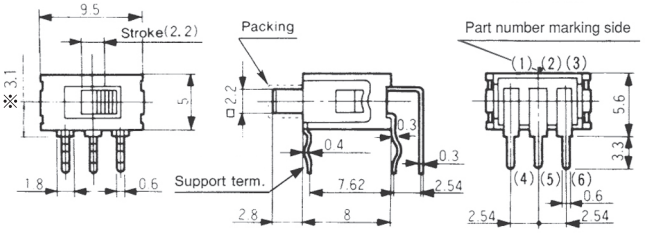
Terminal numbers are not shown on the switch.

DPDT

0.3R/A

Mounting height : 3.1 mm





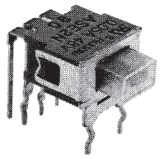
Switching function / Part No.	Viewed from part No. marking side		
☆ASE2D-6M-10-Z	ON	—	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

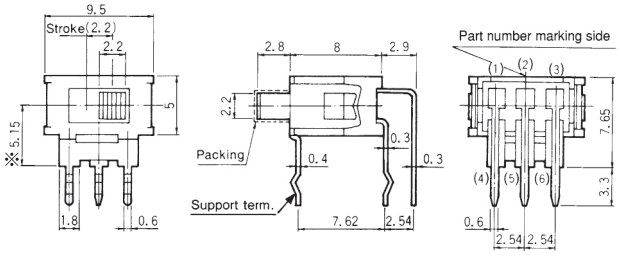
Terminal numbers are not shown on the switch.

DPDT

0.3R/A

Mounting height : 5.15 mm

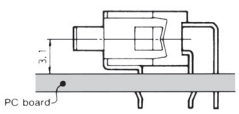
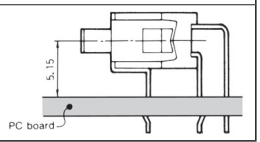




Switching function / Part No.	Viewed from part No. marking side		
★ASE2N-6M-10-Z	ON	—	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

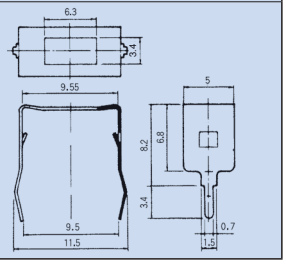
Terminal numbers are not shown on the switch.

■ Mounting Height

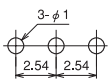
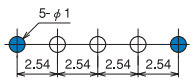
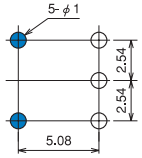
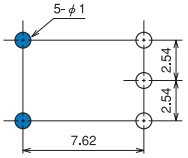
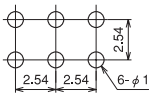
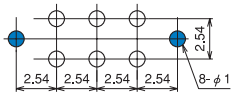
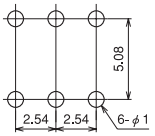
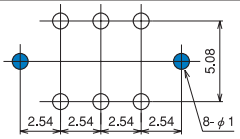
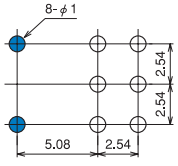
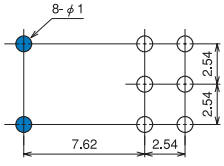
Switching function	D·E	N
Mounting		

■Optional Accessories

《Supplied separately》

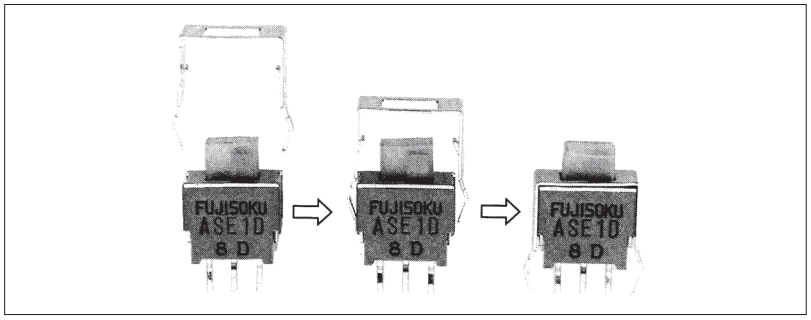
Part Name	Bracket
Part No.	**140000640324**
Dimensions	

■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				

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

■ Bracket Installation Procedure



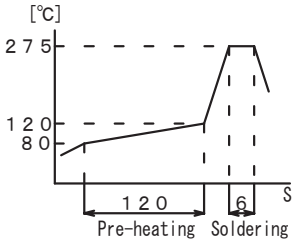
■Handling Precautions (AS and ASE Series)

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.

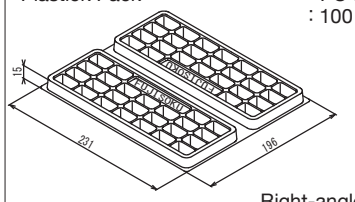
(3)After mounting the switch, do not place the device in such a way that the device weight will be applied on the knob, etc. of the switch.

(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

Plastick Pack

PC terminals
: 100 pcs./pack



Right-angle terminals
: 50 pcs./pack

Certifications

■Handling Precautions

1.Soldering Specifications

(1)Manual Soldering
Device ： Soldering iron 350℃, Max.; 3 seconds, Max.

2.Flux Cleaning

(1)Solvent : Fluorine or Alcohol type.
(2)are not process sealed. If the PC board is to be cleaned, clean the soldering surface of the substrate with a brush so that the switch is not exposed to the cleaning solution.

■UL Recognized / CSA Certified

Classification	Part No.	ᖇᒐ	page	Part No.	ᖇᒐ	page
Slide switches	**ASE1D−2M−10−Z**	●	494	**ASE1D−5M−10−Z**	●	494
	ASE1E−2M−10−Z	●	494	**ASE2D−5M−10−Z**	●	494
	ASE2D−2M−10−Z	●	494	**ASE1D−6M−10−Z**	●	494
	ASE2E−2M−10−Z	●	494	**ASE2D−6M−10−Z**	●	494
	ASE2N−2M−10−Z	●	494	**ASE2N−6M−10−Z**	●	494
	8SS1011−Z	●	501			
	8SS1012−Z	●	501			
	8SS1021−Z	●	501			
	8SS1022−Z	●	501			
	8SS2011−Z	●	501			
	8SS2012−Z	●	501			
	8SS2021−Z	●	501			
	8SS2022−Z	●	501			

●UL-recognized or CSA-certified products.
● : **UL File No. E43275**
CSA File No.LR38341
Note: Please refer to P.575 for more details on UL-recognized / CSA-certified products.
Additional cost will be required.

■Table of Part Numbers

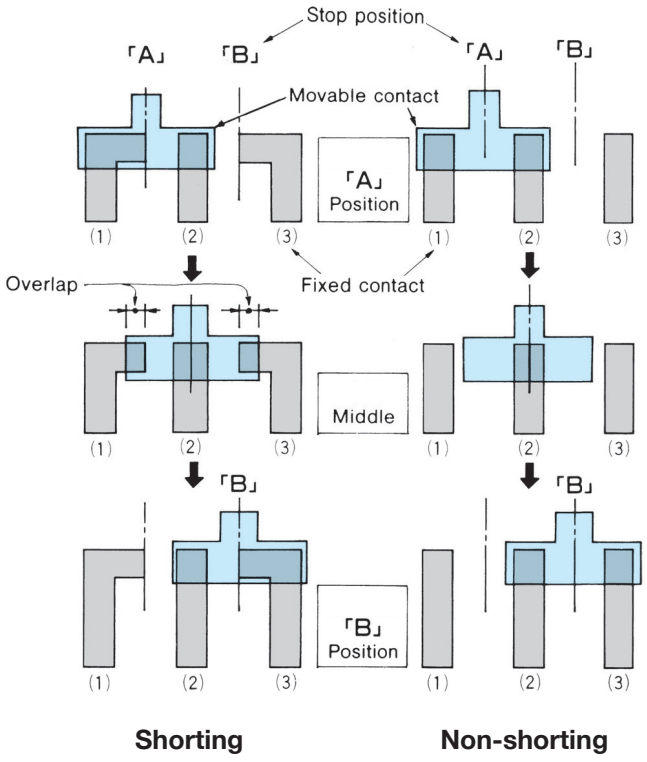
Series	Switching function	TAB terminals		Screw terminls	Solder terminals	
		1−pole	2−poles	1−pole	1−pole	2−poles
ES (15A)	OFF − ON	★ **ES115A−Z**	———	———	★ **ES115A12−Z**	———
	ON − ON	★ **ES115D−Z**	**ES215N−Z**	———	★ **ES115D12−Z**	———
	ON−OFF−ON	★ **ES115E−Z**	★ **ES215P−Z**	———	———	———
ES (25A)	OFF − ON	———	———	★ **ES125A10−Z**	★ **ES125A12−Z**	———
	ON − ON	———	———	———	★ **ES125D12−Z**	★ **ES225N12−Z**

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

■Shorting (Make-Before-Break)

A switch which momentarily connects both circuits when the actuator is moved from Point A to B in the below figure.

All switches which are not marked as “Shorting” are “Non-shorting” (Break-Before-Make).



〔Fig.1.〕

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

NIDEC COMPONENTS CORPORATION:

ATE2E2M310Z CHS-02TA CL-SB-23A-02T CLDA1CB4A2T SM-31TW104 CFS-0201MB CT-94EW203 ST5EW204 8A3011-Z CT-6EW102 MG16B-120-AB-00 ST-32ETB103 8A4011-Z ATE1G-2M3-10-Z CMS-2302B ET115C12-Z ST-5ETW501 CFP2-1FC4-AW 8B2012-Z 8R1021-N-Z HG37-010-AB-00 SM-42X205 CL-SB-13A-11 FT63ES503 ST-32ETB202 CHS-06MB ET110F-Z MFS101D-10-Z ST-32ETA202 ST-4ETB503