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ES

Miniature Slide Switches

RoHS Compliant



■Part Numbering

ES **1** **15** **A** **12** **—** **Z**

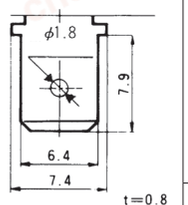
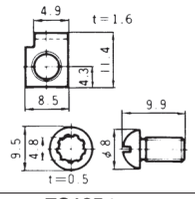
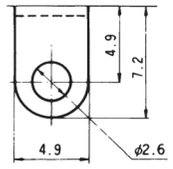
- ES: Series code
- 1: Number of poles
- 15: Current
- A: Switching function
- 12: Terminal styles

Number of poles	
1	1 pole
2	2 poles

1 pole	2 pole	Switching function
A	—	OFF — ON
D	**N**	ON — ON
E	**P**	ON—OFF—ON

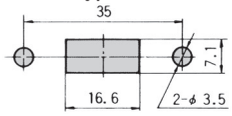
Terminal styles	
None	#250 Tab terminal
10	Screw terminal
12	Solder terminal

■Terminal Styles

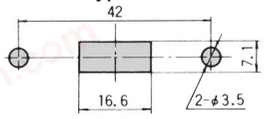
TAB#250 (Style : —)	Screw (Style : 10)	Solder (Style : 12)
	M4.5	
		
t=0.8	**ES125** type (**25A** type)	t=0.7

■Panel Cut-Out Dimensions

●ES115･125 type

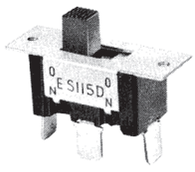


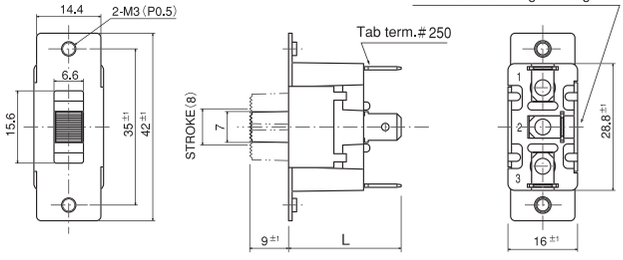
●ES215･225 type



ES115 1—pole

Switches with switching function “A” do not have terminal No. 2.





Terminal numbers are shown on the bottom of the switch.

■Specifications

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ES115A■—Z **ES115D■—Z**	AC125V 15A AC250V 15A	20mΩ Max. (DC2～4V 100mA)	AC1500V 1分間/minute	100MΩ Min. (DC500V)	20,000 cycles
ES115E■—Z	AC125V 15A AC250V 7A				

Dimension L

Part No. \ Terminal style	TAB	Screw	Solder
ES115A■—Z	25.2±1	———	22.3±1
ES115D■—Z			
ES115E■—Z	25.7±1	———	22.8±1

Part No. \ Switching function	Viewed from part No. marking side		
			
ES115A■—Z	OFF	—	ON
Connecting terminals	—	—	1—3
ES115D■—Z	ON	—	ON
ES115E■—Z	ON	OFF	ON
Connecting terminals	2—1	—	2—3

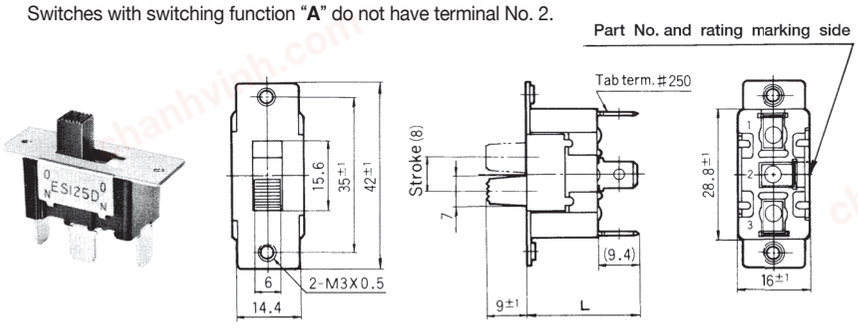
To check the full part number of the products marked with the ■, please refer to “Table of Part Numbers” on P. 505.

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ES

ES125 1—pole

Switches with switching function "**A**" do not have terminal No. 2.



Terminal numbers are shown on the bottom of the switch.

■Specifications

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ES125A■—Z **ES125D■—Z**	AC125V 25A AC250V 25A	20mΩ Max. (DC2～4V 100mA)	AC1500V 1分間/minute	100MΩ Min. (DC500V)	20,000 cycles

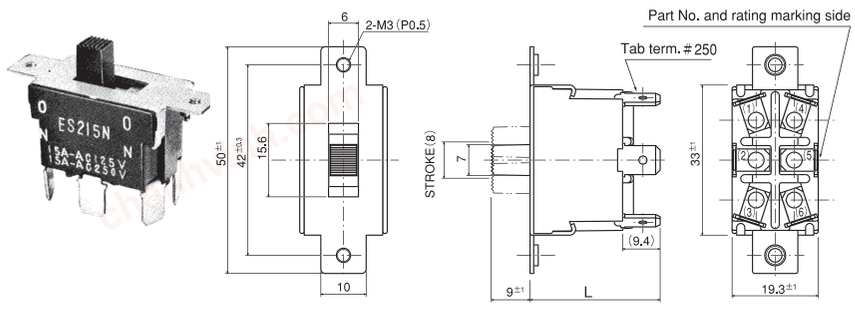
Dimension L

Part No. \ Terminal style	TAB	Screw	Solder
ES125A■—Z **ES125D■—Z**	25.2±1	26.4±1	22.3±1

Part No. \ Switching function	Viewed from part No. marking side		
			
ES125A■—Z	OFF	—	ON
Connecting terminals	—	—	1—3
ES125D■—Z	ON	—	ON
Connecting terminals	2—1	—	2—3

To check the full part number of the products marked with the ■, please refer to "Table of Part Numbers" on P. 505.

ES215 2—poles



Terminal numbers are shown on the bottom of the switch.

■Specifications

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ES215N■—Z	AC125V 15A AC250V 15A	20mΩ Max. (DC2～4V 100mA)	AC1500V 1分間/minute	100MΩ Min. (DC500V)	20,000 cycles
ES215P■—Z	AC125V 15A AC250V 7A				

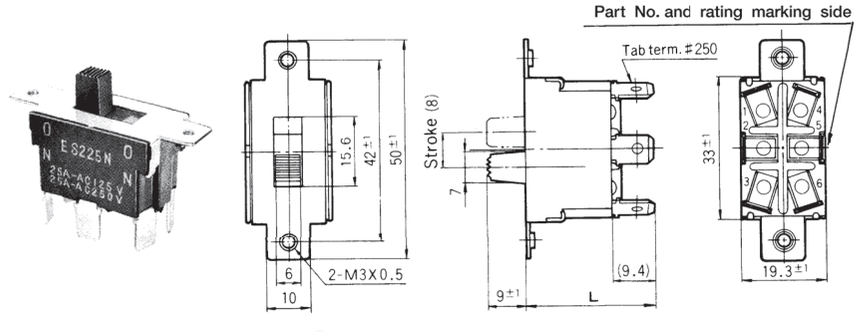
Dimension L

Part No. \ Terminal style	TAB	Screw	Solder
ES215N■—Z	29.3±1	27.1±1	26.4±1
ES215P■—Z		———	

Part No. \ Switching function	Viewed from part No. marking side		
			
ES215N■—Z	ON	—	ON
ES215P■—Z	ON	OFF	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

To check the full part number of the products marked with the ■, please refer to "Table of Part Numbers" on P. 505.

ES225 2—poles



Terminal numbers are shown on the bottom of the switch.

■Specifications

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ES225N■—Z	AC125V 25A AC250V 25A	20mΩ Max. (DC2～4V 100mA)	AC1500V 1分間/minute	100MΩ Min. (DC500V)	20,000 cycles

Dimension L

Part No. \ Terminal style	TAB	Screw	Solder
ES225N■—Z	29.3±1	30.6±1	26.4±1

Part No. \ Switching function	Viewed from part No. marking side		
			
ES225N■—Z	ON	—	ON
Connecting terminals	2—1 5—4	—	2—3 5—6

To check the full part number of the products marked with the ■, please refer to "Table of Part Numbers" on P. 505.

■ indicates the terminal style number ("None", "10", or "12.").

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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.		page	Part No.		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**

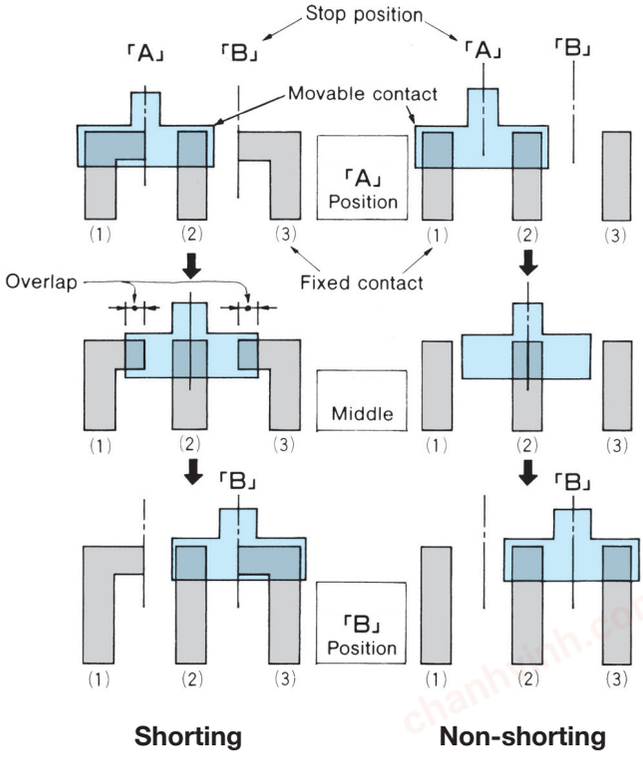
☆ : Semi-standard products. ★ : Made to order products.

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■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.〕