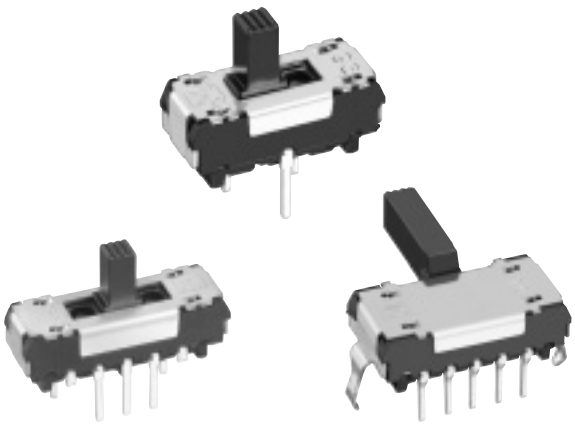
5 mm Size Slide Switches

Type: **ESD17**

Japan



Easy-to-use, wide range of customizable features

■ Features

- A wide range of customizable features (lever direction, types of lever, circuit diagram)
- Easy-to-use and robust
- Self-standing type

■ Recommended Applications

- Signal switches for car audio equipment and air conditioners

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9
E	S	D	1	7				
Product Code			Type		Lever Position, Poles and Throws		Design No.	

■ Major Specifications

Lever Position	Vertical	Horizontal
Rating	50 µA 3 Vdc to 0.1 A 30 Vdc	
Travel	2.0 mm	
Mounting Height	5.0 mm	
Poles	1-pole, 2-poles	
Throws	2-throws, 3-throws	
Terminal Pitch	2.0 mm	
Switching Mode	Non-shorting	
Minimum Quantity/Packing Unit	Type I	100 pcs. (Vinyl Bag)
	Type II	100 pcs. (Vinyl Bag)
Quantity/Carton	Type I	2000 pcs.
	Type II	2000 pcs.

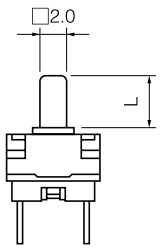
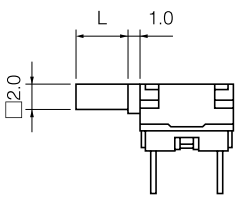
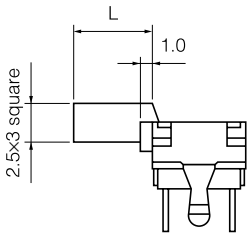
■ Standard Products (Type Ⅰ)

Poles	Throws	Lever Length	Vertical		Horizontal	
			Self-standing	Without Legs	Self-standing	Without Legs
1-pole	2-throws	2.0 mm	ESD170201	ESD170205	ESD175201	ESD175205
		4.0 mm	ESD170202	ESD170206	ESD175202	ESD175206
2-poles		2.0 mm	ESD172201	ESD172205	ESD177201	ESD177205
		4.0 mm	ESD172202	ESD172206	ESD177202	ESD177206
1-pole	3-throws	2.0 mm	ESD170301	ESD170305	ESD175301	ESD175305
		4.0 mm	ESD170302	ESD170306	ESD175302	ESD175306
2-poles		2.0 mm	ESD172301	ESD172305	ESD177301	ESD177305
		4.0 mm	ESD172302	ESD172306	ESD177302	ESD177306

■ Standard Products (Type Ⅱ)

Poles	Throws	Lever Length	Horizontal
			Self-standing
2-poles	2-throws	6.0 mm	ESD177210
		9.0 mm	ESD177211
2-poles	3-throws	6.0 mm	ESD177310
		9.0 mm	ESD177311

■ Product Chart

Poles	Throws	Type Ⅰ				Type Ⅱ	
		□2.0 mm×L mm				□(2.5 mm×3.0 mm)×L mm	
		Vertical		Horizontal		Horizontal	
							
	L=	2.0 mm	4.0 mm	2.0 mm	4.0 mm	6.0 mm	9.0 mm
1-pole	2-throws	○	○	○	○	—	—
	3-throws	○	○	○	○	—	—
2-poles	2-throws	○	○	○	○	○	○
	3-throws	○	○	○	○	○	○

Note: Available with or without Self-standing legs (Type Ⅰ)

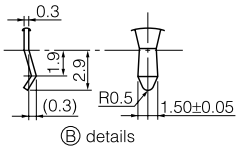
■ Dimensions in mm (not to scale)

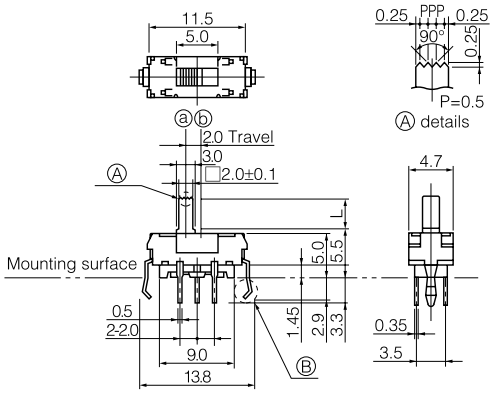
No. 1

1-pole 2-throws Type I
Self-standing leg

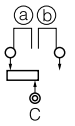
Part No.	L
ESD170201	2.0
ESD170202	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ



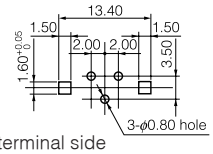


Circuit diagram



View from terminal side

Recommended PWB piercing plan



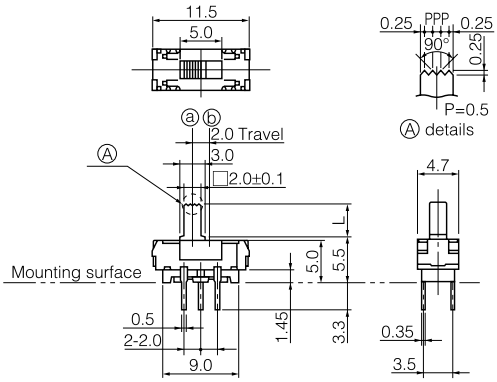
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 2

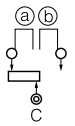
1-pole 2-throws Type I

Part No.	L
ESD170205	2.0
ESD170206	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ

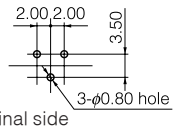


Circuit diagram



View from terminal side

Recommended PWB piercing plan



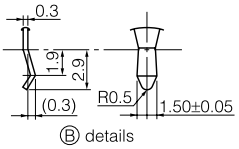
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

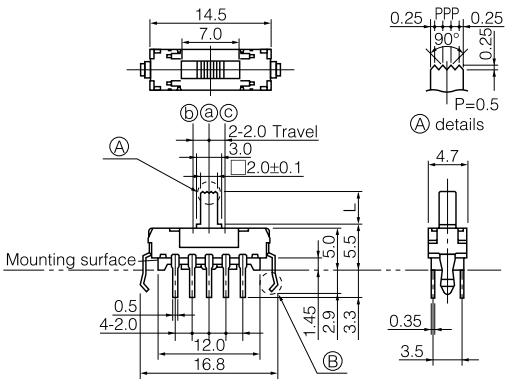
No. 3

1-pole 3-throws Type I
Self-standing leg

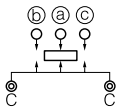
Part No.	L
ESD170301	2.0
ESD170302	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ



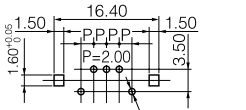


Circuit diagram



View from terminal side

Recommended PWB piercing plan



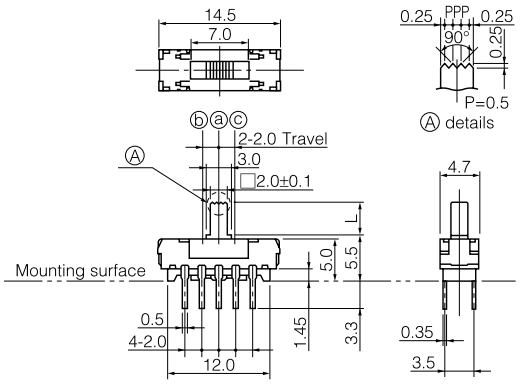
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 4

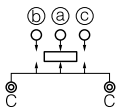
1-pole 3-throws Type I

Part No.	L
ESD170305	2.0
ESD170306	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ

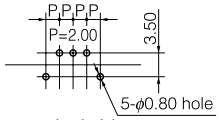


Circuit diagram



View from terminal side

Recommended PWB piercing plan



View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

Note: ◎C=Common terminal

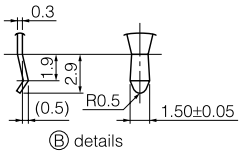
■ Dimensions in mm (not to scale)

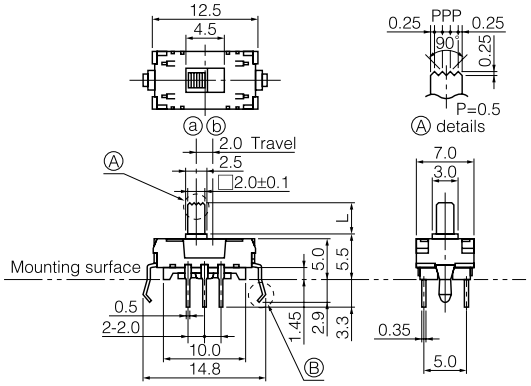
No. 5

2-poles 2-throws Type I
Self-standing leg

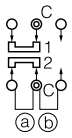
Part No.	L
ESD172201	2.0
ESD172202	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ



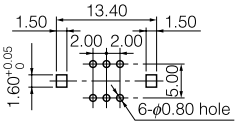


Circuit diagram



View from terminal side

Recommended PWB piercing plan



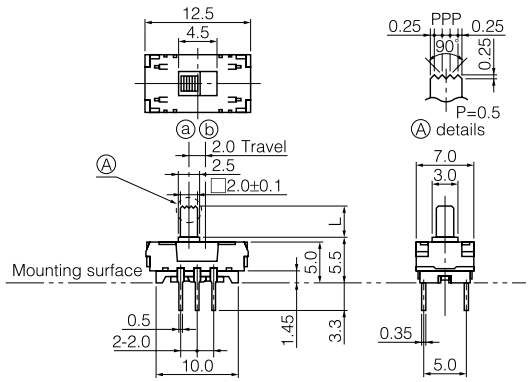
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 6

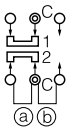
2-poles 2-throws Type I

Part No.	L
ESD172205	2.0
ESD172206	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ

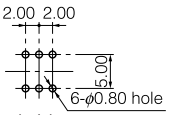


Circuit diagram



View from terminal side

Recommended PWB piercing plan



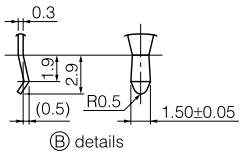
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

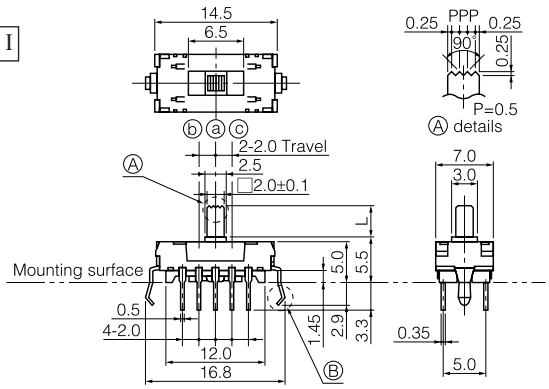
No. 7

2-poles 3-throws Type I
Self-standing leg

Part No.	L
ESD172301	2.0
ESD172302	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ





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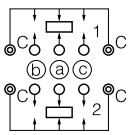
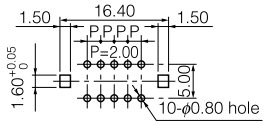


View from terminal side

Recommended PWB piercing plan



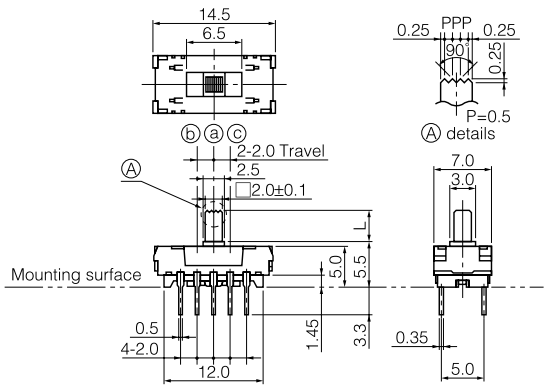
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 8

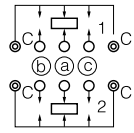
2-poles 3-throws Type I

Part No.	L
ESD172305	2.0
ESD172306	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ

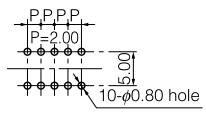


Circuit diagram



View from terminal side

Recommended PWB piercing plan



View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

Note: ◎C=Common terminal

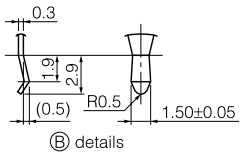
■ Dimensions in mm (not to scale)

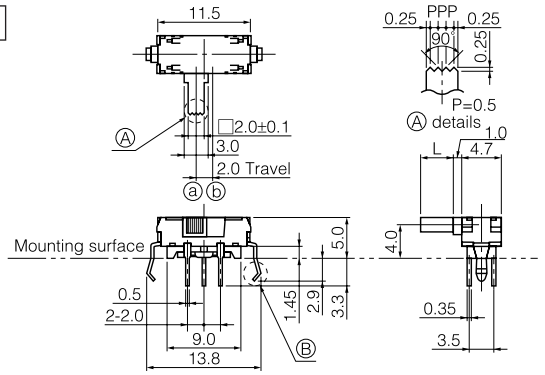
No. 9

1-pole 2-throws Type I
Self-standing leg

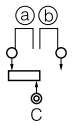
Part No.	L
ESD175201	2.0
ESD175202	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ



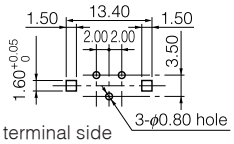


Circuit diagram



View from terminal side

Recommended PWB piercing plan



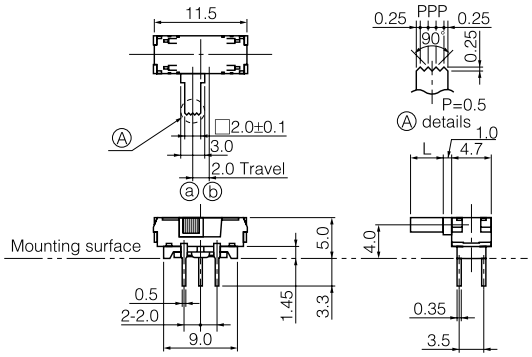
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 10

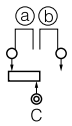
1-pole 2-throws Type I

Part No.	L
ESD175205	2.0
ESD175206	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ

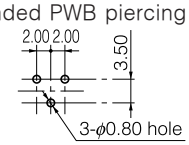


Circuit diagram



View from terminal side

Recommended PWB piercing plan



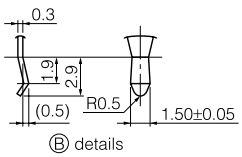
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

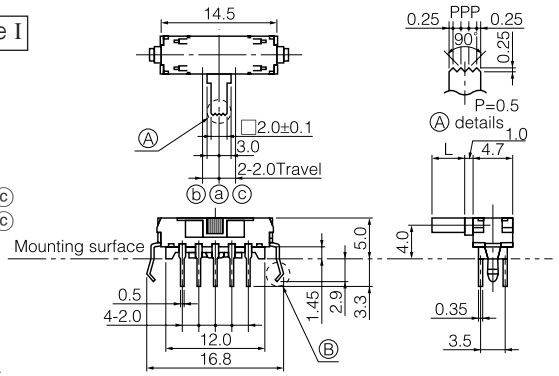
No. 11

1-pole 3-throws Type I
Self-standing leg

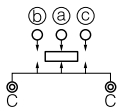
Part No.	L
ESD175301	2.0
ESD175302	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ



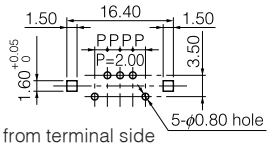


Circuit diagram



View from terminal side

Recommended PWB piercing plan



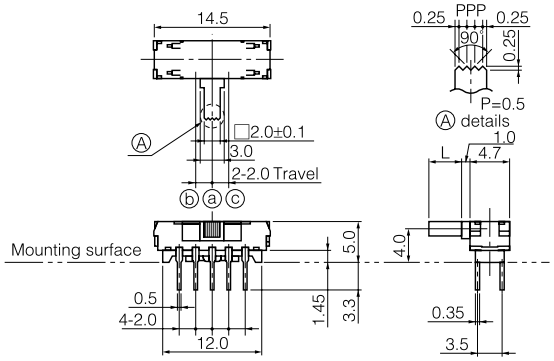
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 12

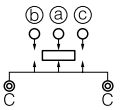
1-pole 3-throws Type I

Part No.	L
ESD175305	2.0
ESD175306	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ

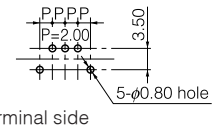


Circuit diagram



View from terminal side

Recommended PWB piercing plan



View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

Note: ◎C=Common terminal

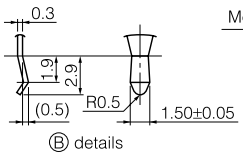
■ Dimensions in mm (not to scale)

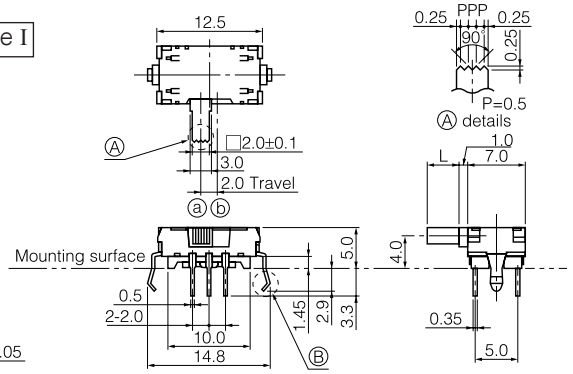
No. 13

2-poles 2-throws Type I
Self-standing leg

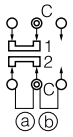
Part No.	L
ESD177201	2.0
ESD177202	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ



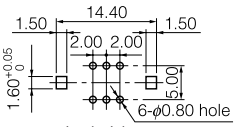


Circuit diagram



View from terminal side

Recommended PWB piercing plan



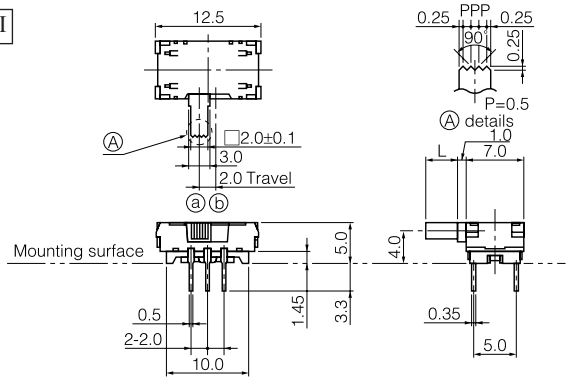
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 14

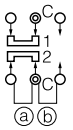
2-poles 2-throws Type I

Part No.	L
ESD177205	2.0
ESD177206	4.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ

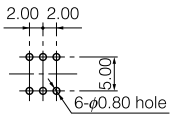


Circuit diagram



View from terminal side

Recommended PWB piercing plan



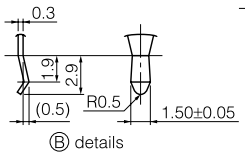
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

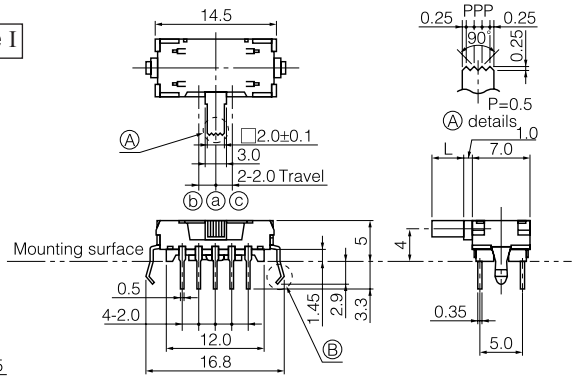
No. 15

2-poles 3-throws Type I
Self-standing leg

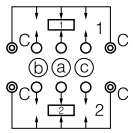
Part No.	L
ESD177301	2.0
ESD177302	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ



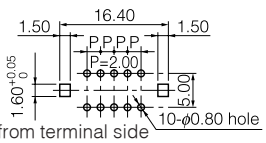


Circuit diagram



View from terminal side

Recommended PWB piercing plan



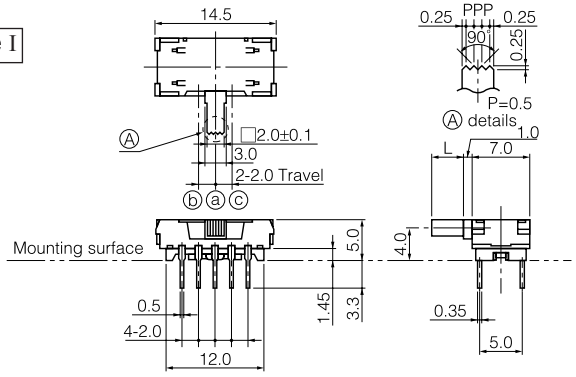
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

No. 16

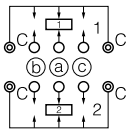
2-poles 3-throws Type I

Part No.	L
ESD177305	2.0
ESD177306	4.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ

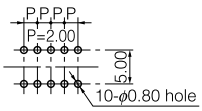


Circuit diagram



View from terminal side

Recommended PWB piercing plan



View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

Note: ◎C=Common terminal

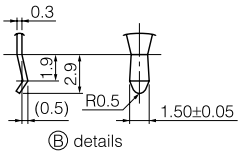
■ Dimensions in mm (not to scale)

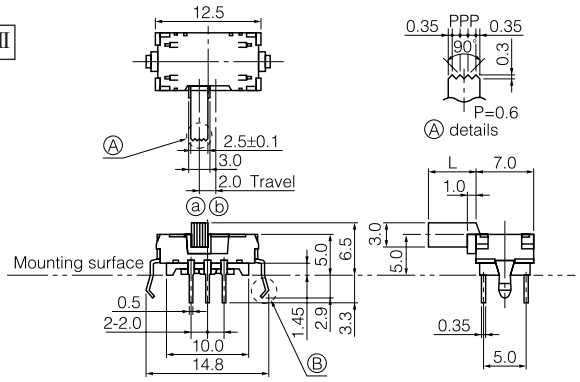
No. 17

2-poles 2-throws Type Ⅱ
Self-standing leg

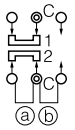
Part No.	L
ESD177210	6.0
ESD177211	9.0

Operating Force
1.96 N±1.47 N ⓐ↔ⓑ



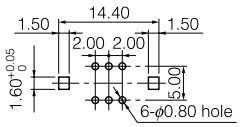


Circuit diagram



View from terminal side

Recommended PWB piercing plan



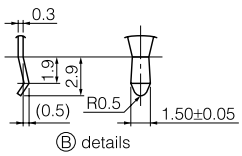
View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

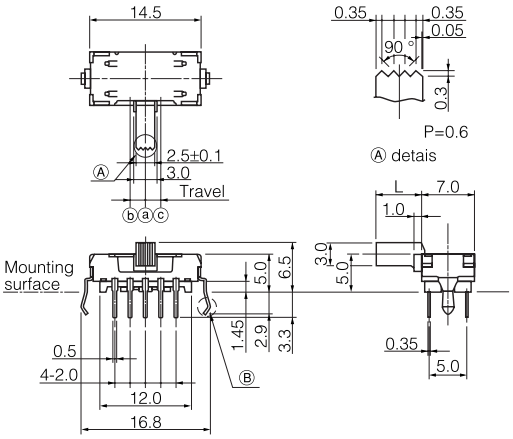
No. 18

2-poles 3-throws Type Ⅱ
Self-standing leg

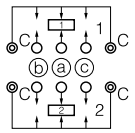
Part No.	L
ESD177310	6.0
ESD177311	9.0

Operating Force
1.96 N±1.47 N ⓑ→ⓐ←ⓒ
2.45 N±1.47 N ⓑ←ⓐ→ⓒ



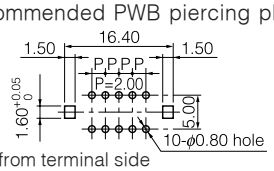


Circuit diagram



View from terminal side

Recommended PWB piercing plan



View from terminal side
Tolerance: ±0.05
Thickness of terminal pitch gauge : 1.6

Note: ⓒC=Common terminal