

5 mm Size Slide Switches

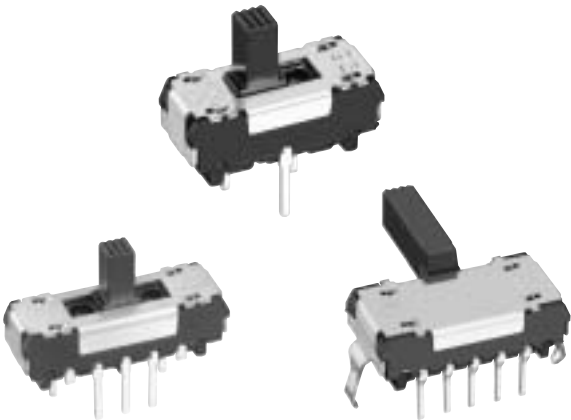
Japan

Type: **ESD17**

Easy-to-use, wide range of customizable features, dip type

■ Features

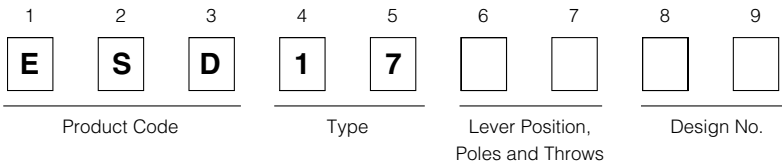
- A wide range of customizable features(lever direction, types of lever, circuit diagram)
- Easy-to-use, robust type
- Self-standing type on printed circuit board



■ Recommended Applications

- Signal switches for VTRs, Audio Equipment and Air Conditioners

■ Explanation of Part Numbers



■ Major Specifications

Lever Position	Vertical		Horizontal
Rating	50 μ A 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	50 pcs. (Vinyl Bag)	
Quantity/Carton	Type I	2000 pcs.	
	Type II	1000 pcs.	

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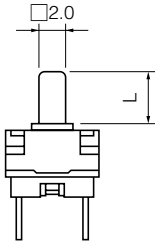
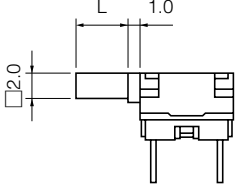
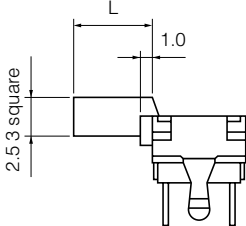
■ Standard Products (Type I)

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)

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■ Dimensions in mm (not to scale)

No. 1 1-pole 2-throw Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD170201</td><td>2.0</td></tr> <tr> <td>ESD170202</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b) (B) details	Part No.	L	ESD170201	2.0	ESD170202	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge: 1.6
Part No.	L						
ESD170201	2.0						
ESD170202	4.0						
No. 2 1-pole 2-throw Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD170205</td><td>2.0</td></tr> <tr> <td>ESD170206</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b) (B) details	Part No.	L	ESD170205	2.0	ESD170206	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge: 1.6
Part No.	L						
ESD170205	2.0						
ESD170206	4.0						
No. 3 1-pole 3-throw Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD170301</td><td>2.0</td></tr> <tr> <td>ESD170302</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c) (B) details	Part No.	L	ESD170301	2.0	ESD170302	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge: 1.6
Part No.	L						
ESD170301	2.0						
ESD170302	4.0						
No. 4 1-pole 3-throw Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD170305</td><td>2.0</td></tr> <tr> <td>ESD170306</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c) (B) details	Part No.	L	ESD170305	2.0	ESD170306	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge: 1.6
Part No.	L						
ESD170305	2.0						
ESD170306	4.0						

Note: ⓐ=Common terminal

■ Dimensions in mm (not to scale)

No. 5 2-poles 2-throws Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD172201</td><td>2.0</td></tr> <tr> <td>ESD172202</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b) Mounting surface View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6	Part No.	L	ESD172201	2.0	ESD172202	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD172201	2.0						
ESD172202	4.0						
No. 6 2-poles 2-throws Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD172205</td><td>2.0</td></tr> <tr> <td>ESD172206</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b) Mounting surface View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6	Part No.	L	ESD172205	2.0	ESD172206	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD172205	2.0						
ESD172206	4.0						
No. 7 2-poles 3-throws Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD172301</td><td>2.0</td></tr> <tr> <td>ESD172302</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c) Mounting surface View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6	Part No.	L	ESD172301	2.0	ESD172302	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD172301	2.0						
ESD172302	4.0						
No. 8 2-poles 3-throws Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD172305</td><td>2.0</td></tr> <tr> <td>ESD172306</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c) Mounting surface View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6	Part No.	L	ESD172305	2.0	ESD172306	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD172305	2.0						
ESD172306	4.0						

Note: ⓈC=Common terminal

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■ Dimensions in mm (not to scale)

No. 9 1-pole 2-throw Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD175201</td><td>2.0</td></tr> <tr> <td>ESD175202</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b)	Part No.	L	ESD175201	2.0	ESD175202	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD175201	2.0						
ESD175202	4.0						
No. 10 1-pole 2-throw Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD175205</td><td>2.0</td></tr> <tr> <td>ESD175206</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b)	Part No.	L	ESD175205	2.0	ESD175206	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD175205	2.0						
ESD175206	4.0						
No. 11 1-pole 3-throw Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD175301</td><td>2.0</td></tr> <tr> <td>ESD175302</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c)	Part No.	L	ESD175301	2.0	ESD175302	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD175301	2.0						
ESD175302	4.0						
No. 12 1-pole 3-throw Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD175305</td><td>2.0</td></tr> <tr> <td>ESD175306</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c)	Part No.	L	ESD175305	2.0	ESD175306	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD175305	2.0						
ESD175306	4.0						

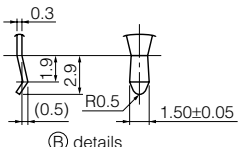
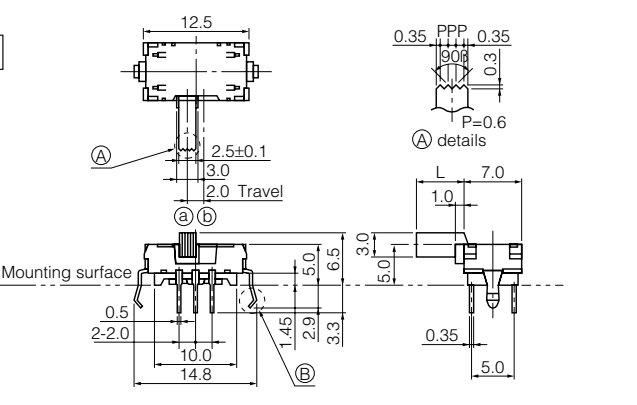
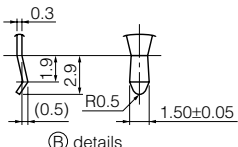
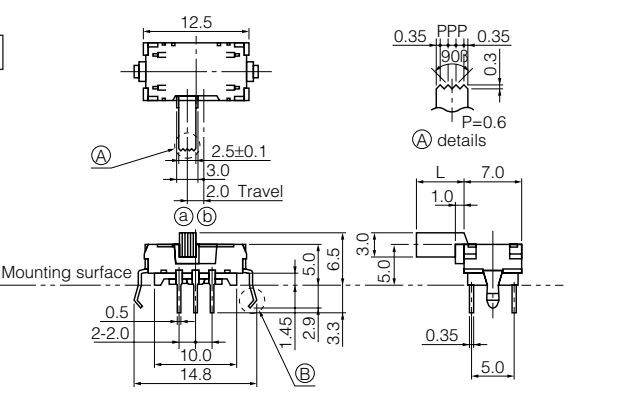
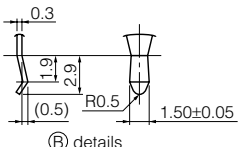
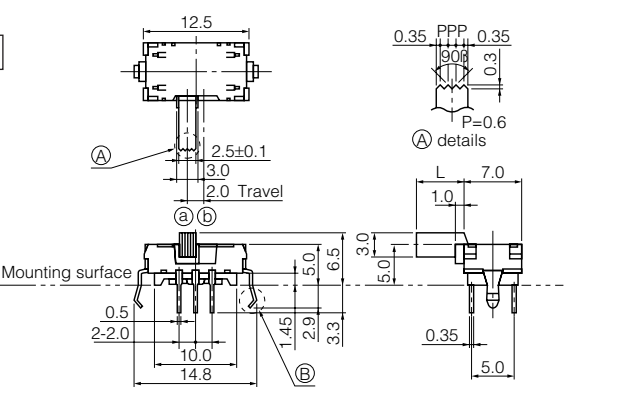
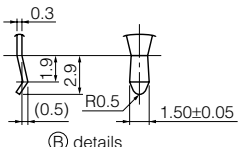
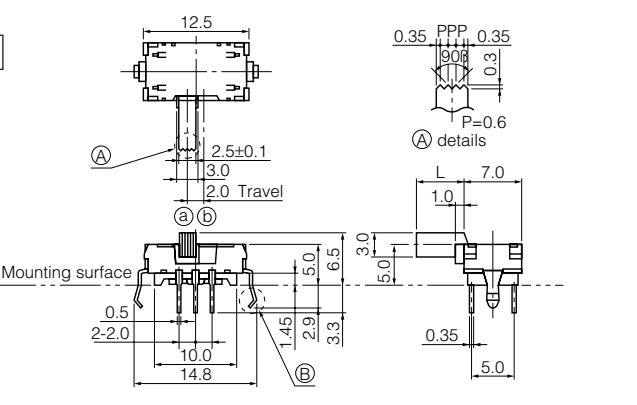
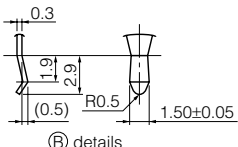
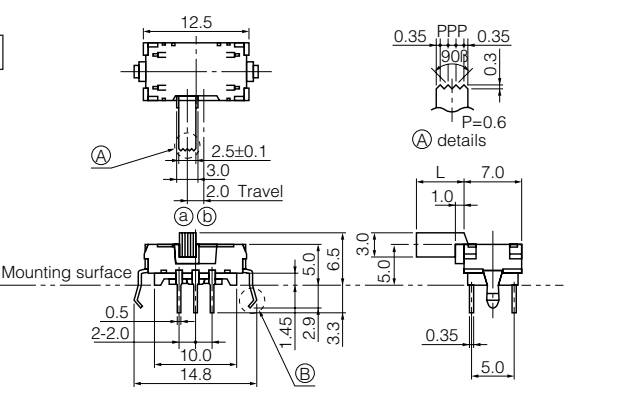
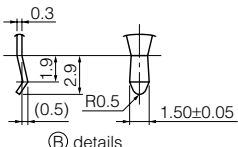
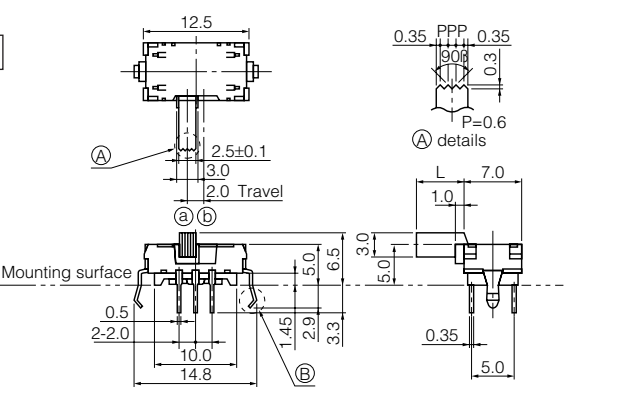
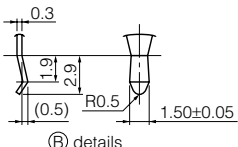
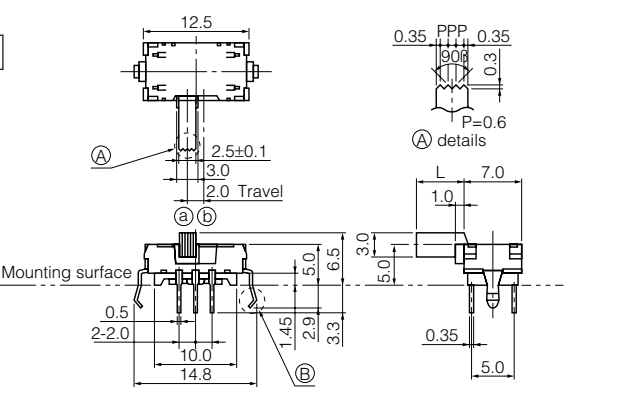
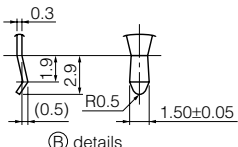
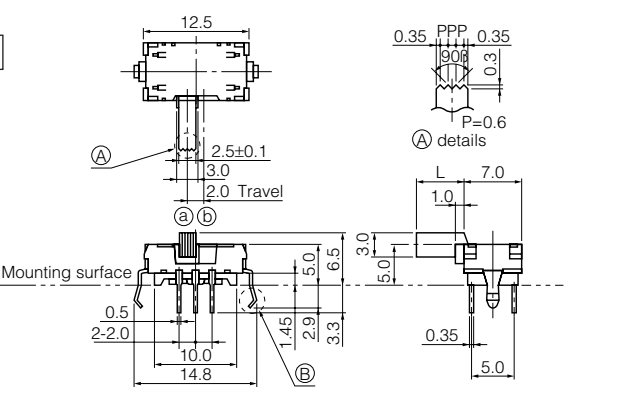
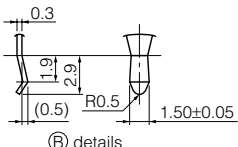
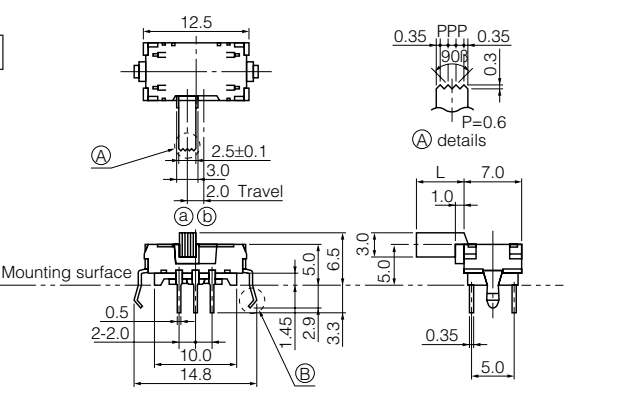
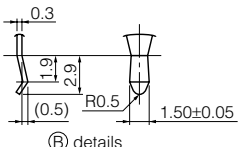
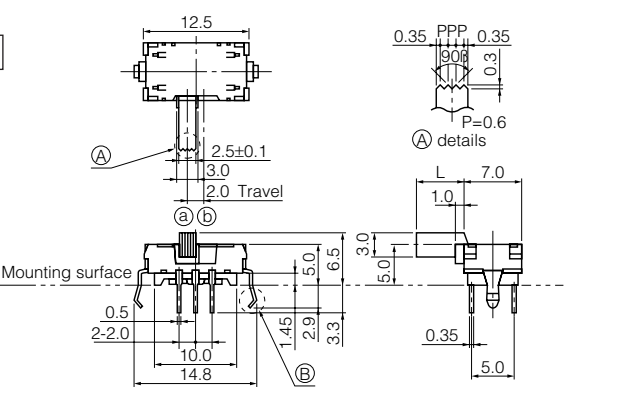
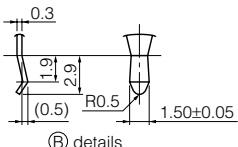
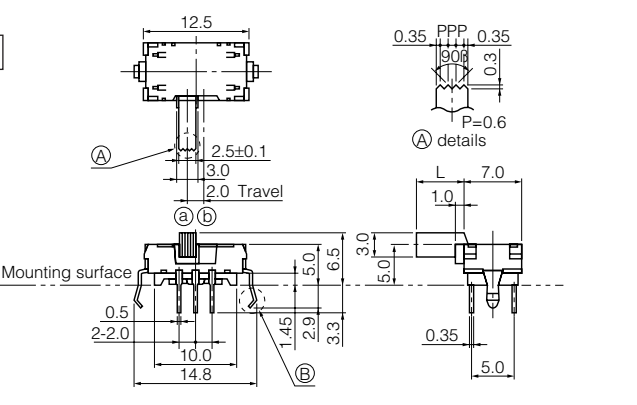
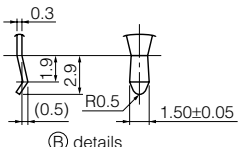
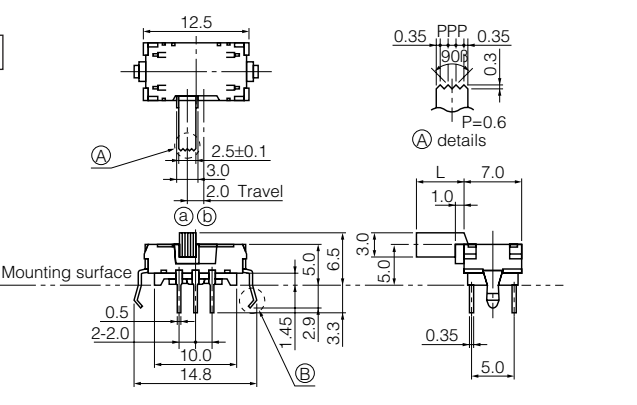
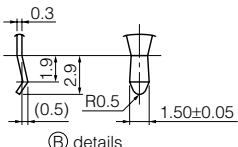
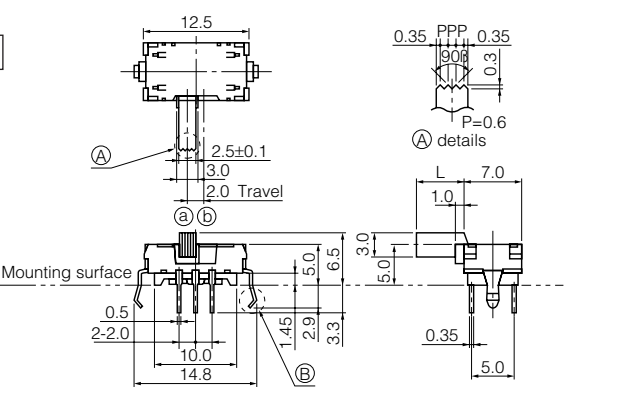
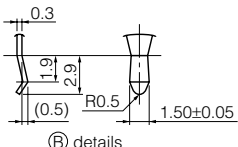
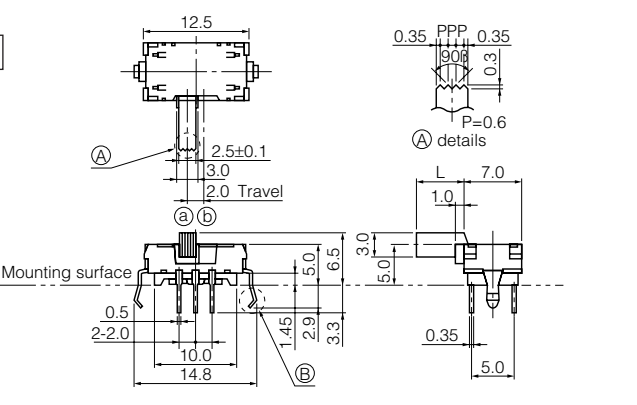
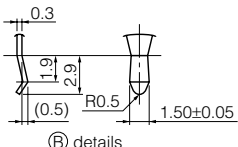
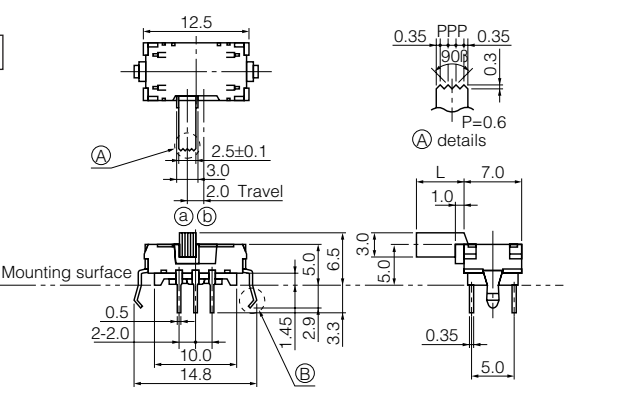
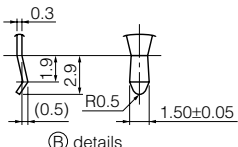
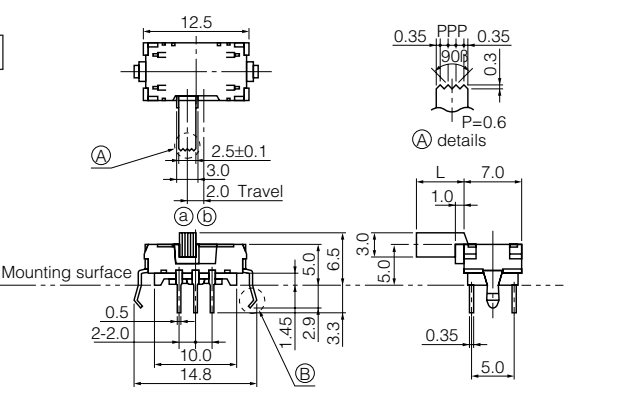
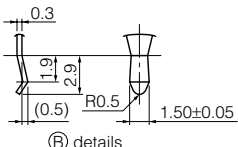
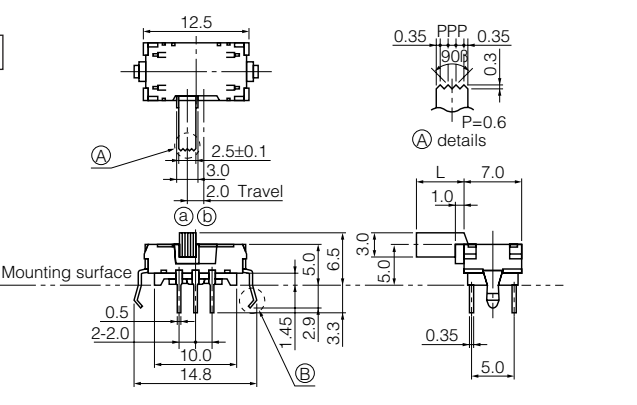
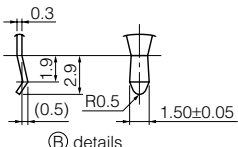
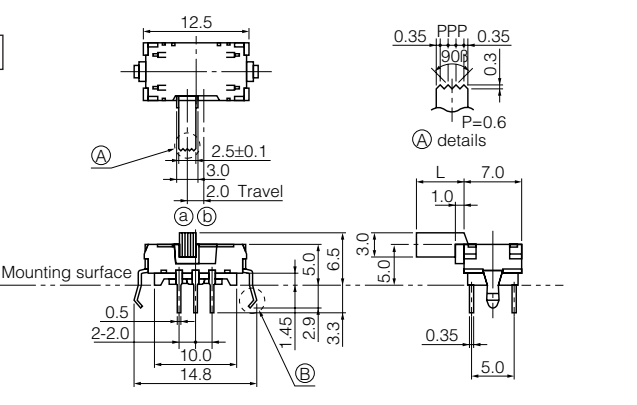
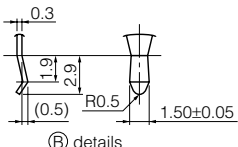
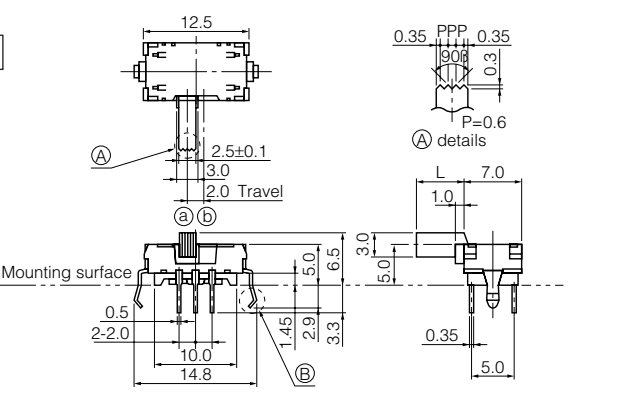
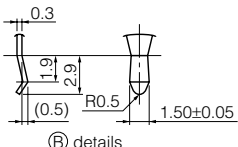
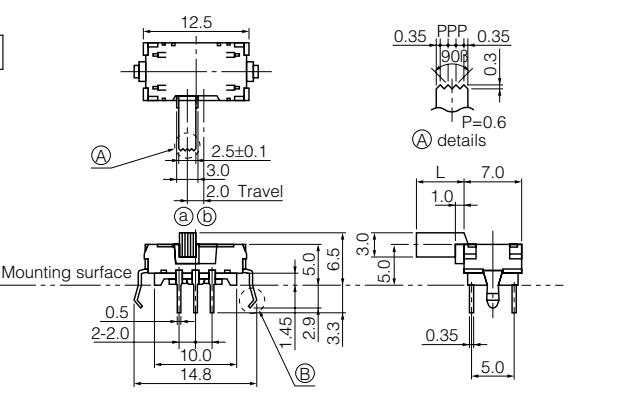
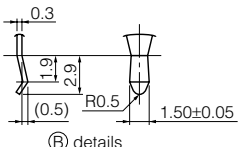
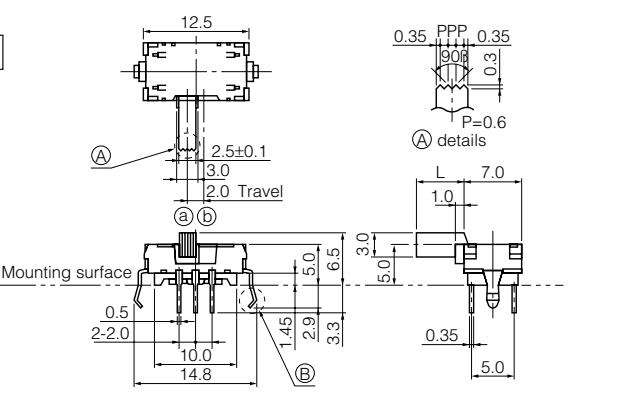
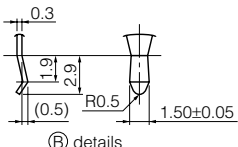
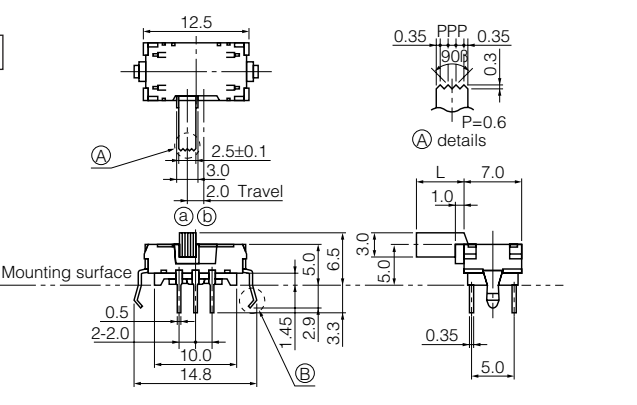
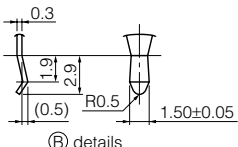
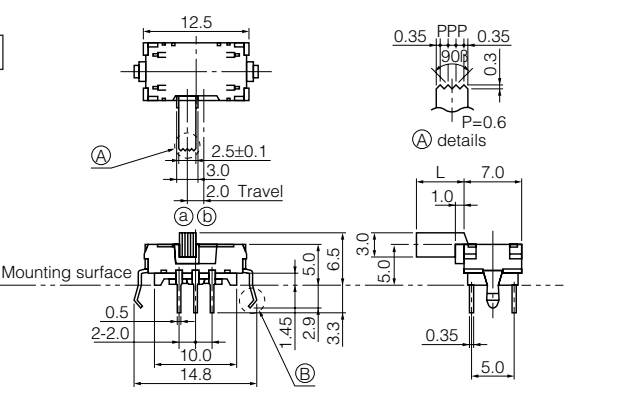
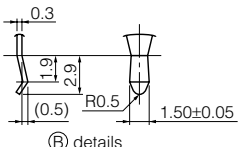
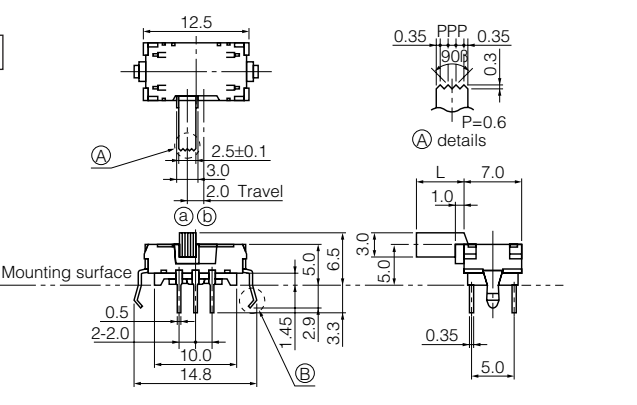
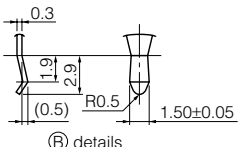
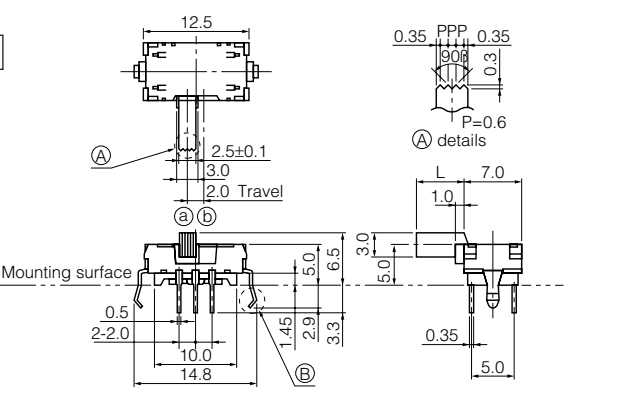
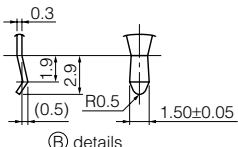
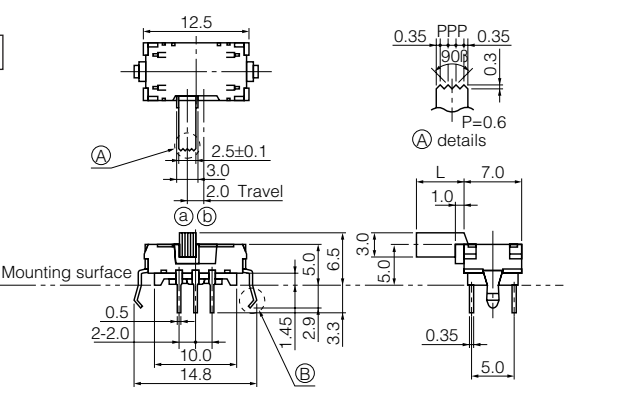
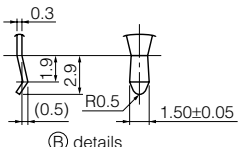
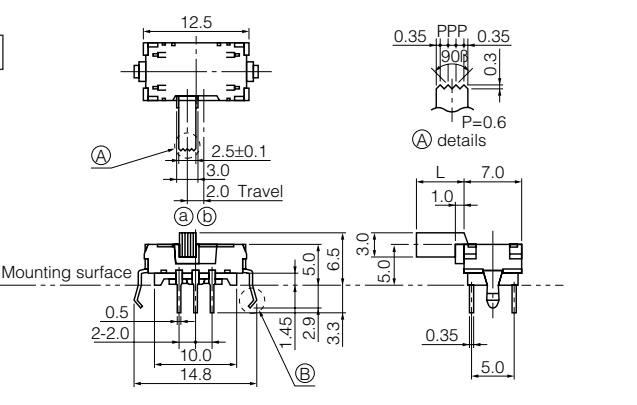
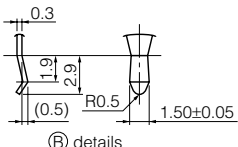
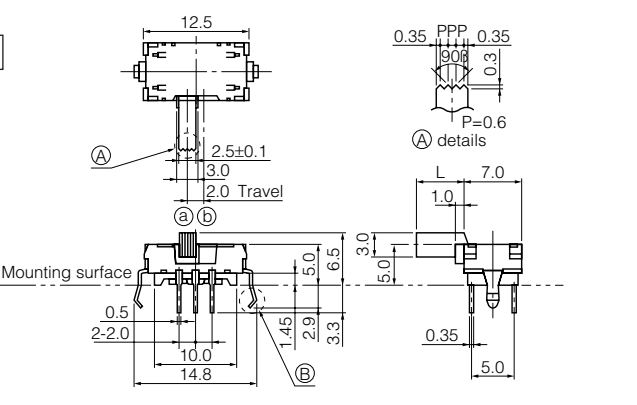
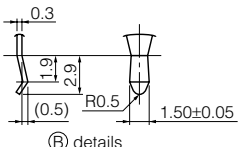
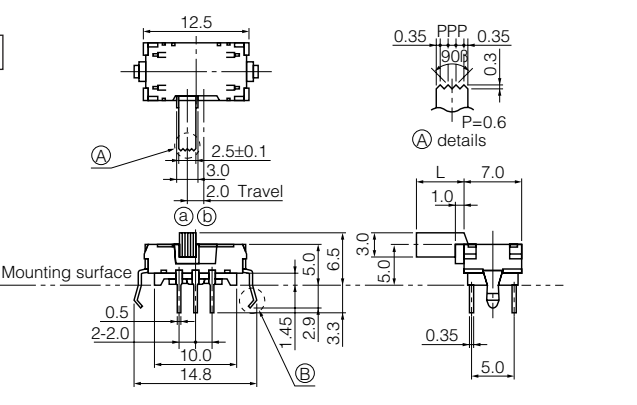
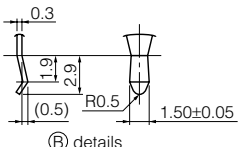
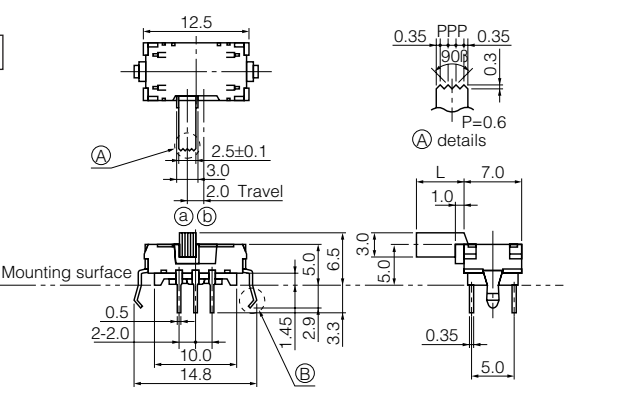
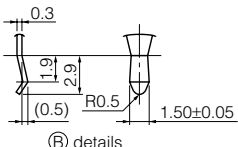
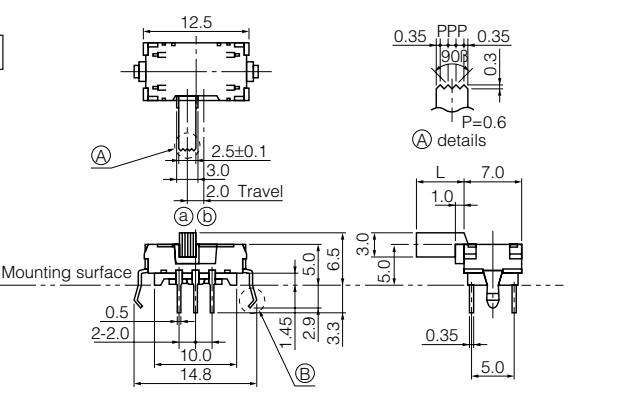
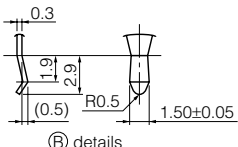
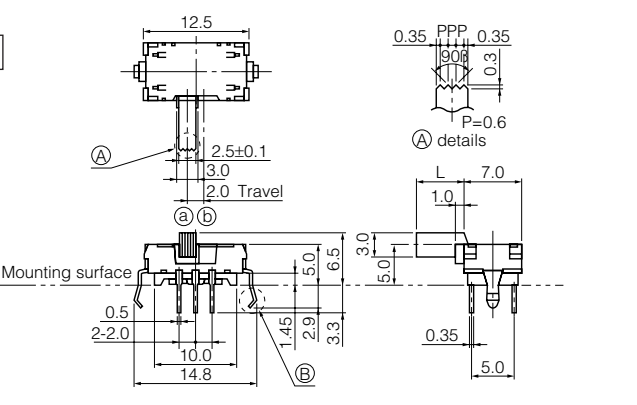
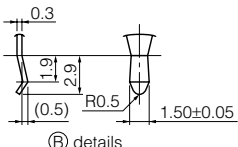
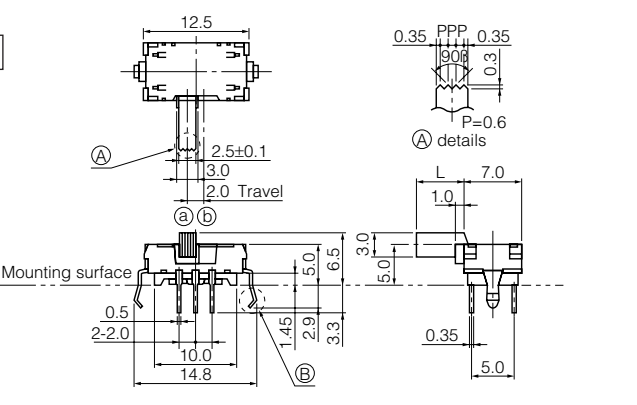
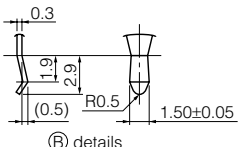
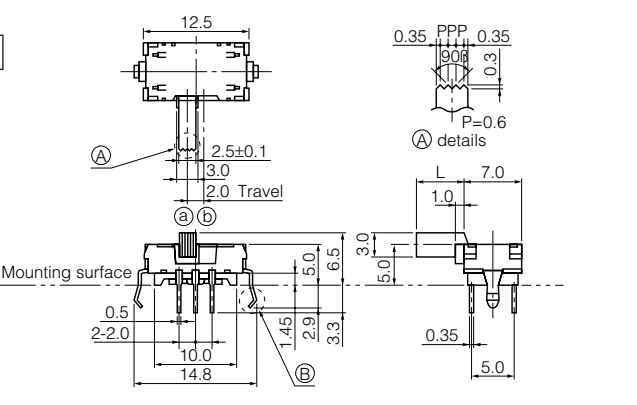
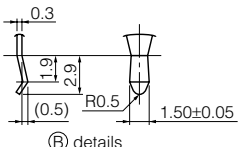
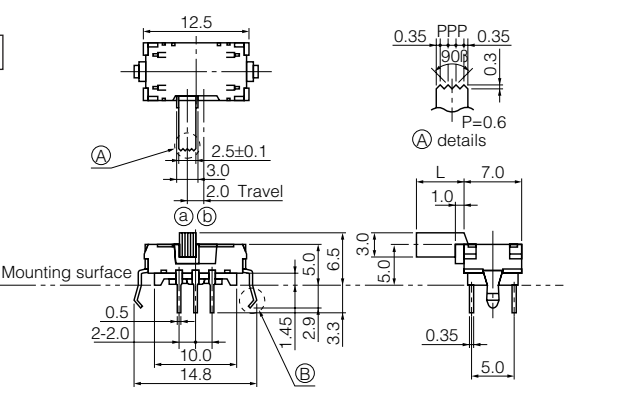
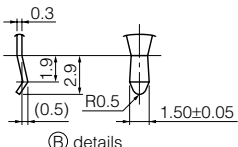
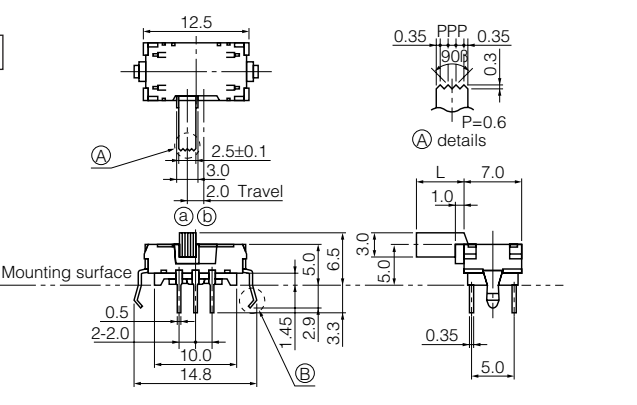
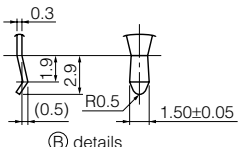
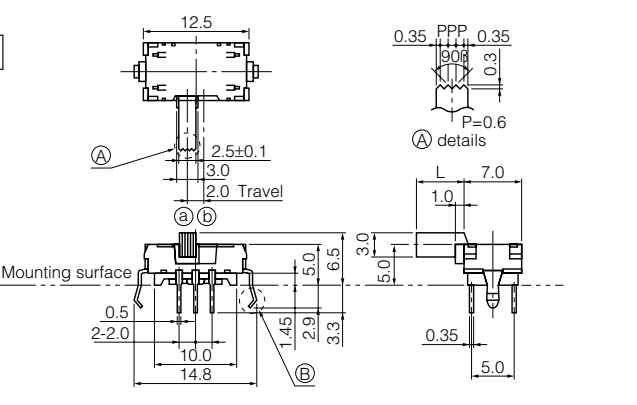
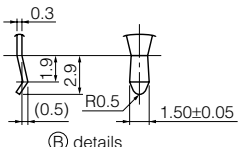
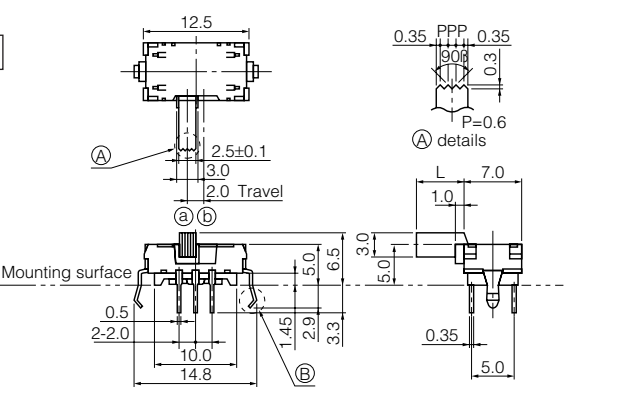
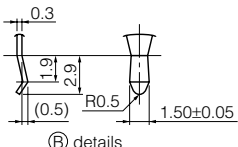
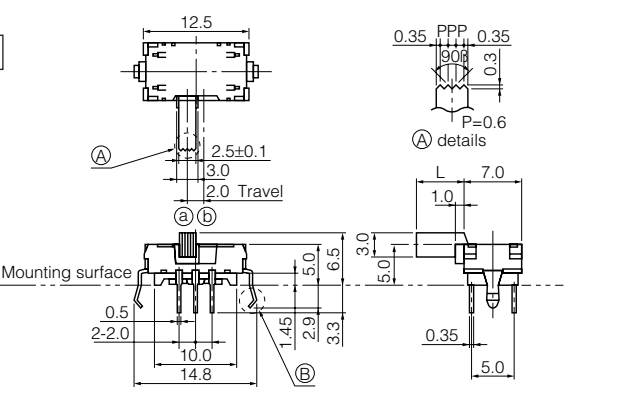
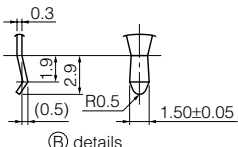
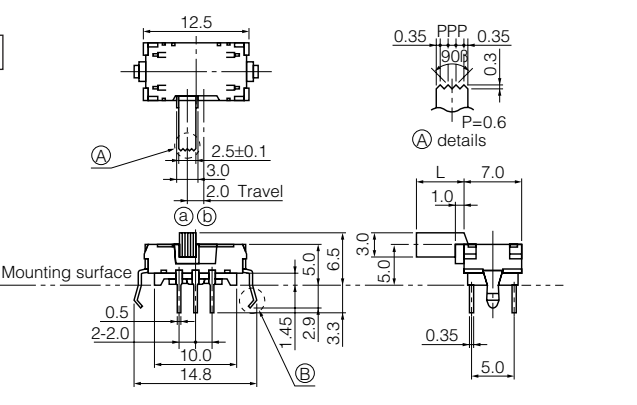
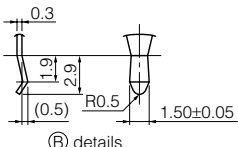
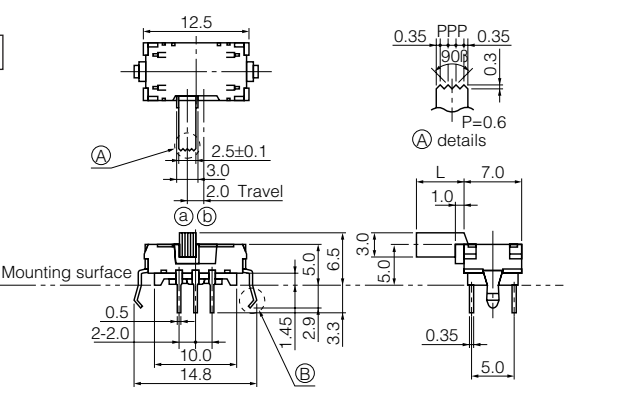
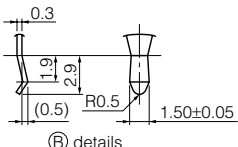
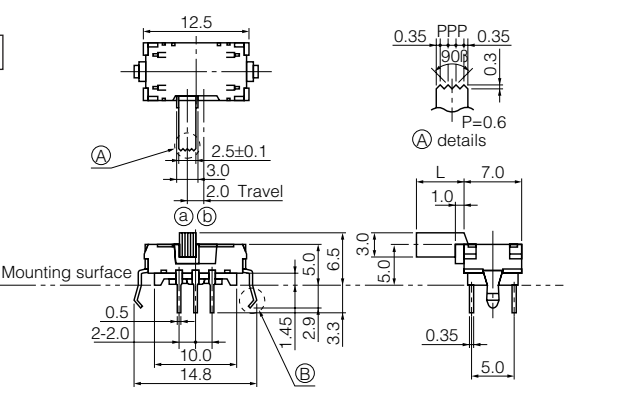
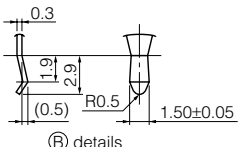
Note: ⓈC=Common terminal

■ Dimensions in mm (not to scale)

No. 13 2-poles 2-throws Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD177201</td><td>2.0</td></tr> <tr> <td>ESD177202</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b)	Part No.	L	ESD177201	2.0	ESD177202	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD177201	2.0						
ESD177202	4.0						
No. 14 2-poles 2-throws Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD177205</td><td>2.0</td></tr> <tr> <td>ESD177206</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (a↔b)	Part No.	L	ESD177205	2.0	ESD177206	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD177205	2.0						
ESD177206	4.0						
No. 15 2-poles 3-throws Type I Self-standing leg <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD177301</td><td>2.0</td></tr> <tr> <td>ESD177302</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c)	Part No.	L	ESD177301	2.0	ESD177302	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD177301	2.0						
ESD177302	4.0						
No. 16 2-poles 3-throws Type I <table border="1"> <tr> <th>Part No.</th><th>L</th></tr> <tr> <td>ESD177305</td><td>2.0</td></tr> <tr> <td>ESD177306</td><td>4.0</td></tr> </table> Operating Force 1.96 N±1.47 N (b→a←c) 2.45 N±1.47 N (b←a→c)	Part No.	L	ESD177305	2.0	ESD177306	4.0	Circuit diagram View from terminal side Recommended PWB piercing plan View from terminal side Tolerance: ±0.05 Thickness of terminal pitch gauge : 1.6
Part No.	L						
ESD177305	2.0						
ESD177306	4.0						

Note: ⓈC=Common terminal

■ Dimensions in mm (not to scale)

No. 17		Circuit diagram					
2-poles 2-throws Self-standing leg <table><tr><td>Part No.</td><td>L</td></tr><tr><td>ESD177210</td><td>6.0</td></tr><tr><td>ESD177211</td><td>9.0</td></tr></table> Operating Force 1.96 N±1.47 N (a↔b)  (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details   (B) details		Part No.	L	ESD177210	6.0	ESD177211	9.0
Part No.	L						
ESD177210	6.0						
ESD177211	9.0						

Note: ⊙C=Common terminal