

Slide Potentiometer Standard Type (Super Slide™)

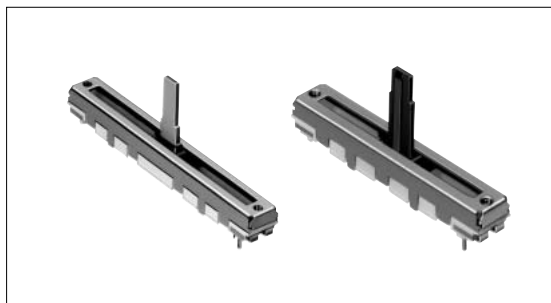
RS □ □ 1 Series



Solderable with auto dipping and available in a wide variety.

Rotary
Potentiometers

Slide
Potentiometers



Typical Specifications

Items	Specifications
Total resistance tolerance	± 20%
Maximum operating voltage	50V AC, 10V DC
Operating force	0.3 to 2.5N
Operating life	15,000cycles
Operating temperature range	- 25 to + 70

Product Line

Insulated lever

Number of resistor elements	Travel (mm)	Lever types	Length of lever(mm)	Total resistance (k Ω)	Resistance taper	Detent	Mounting plate	Minimum packing unit(pcs.)	Products No.	Drawing No.			
Single-unit	30	J-1	5	10	15A	Without	Without	1,000	RS301111J00P	1			
				50	1B		With		RS301111AJ01R	2			
							Without		RS301111J00R	1			
				15A	With		RS301111AJ01K		2				
	A	10	10	1B	Without		RS301111A01G		3				
					C		Without		RS301111C01L	4			
							45		B	10	1B	With	RS301111AC00V
					C								RS451111ABA02
Dual-unit	30	C	5		3B			RS30112AC00J	7				
		J-1						RS30112AJA02	8				

Metal lever

Number of resistor elements	Travel (mm)	Lever types	Length of lever(mm)	Total resistance (kΩ)	Resistance taper	Detent	Mounting plate	Minimum packing unit(pcs.)	Products No.	Drawing No.
Single-unit	15	9-1	10	10	15A	Without	With	1,000	RS151111A900B	9
	30		15	20	1B		Without		RS301111A9012	10
		4					10		With	RS3011114A02
	6	10	Without	RS301111A602N	12					
	45		9-1	10	15A		With		RS451111A900F	13
		Without					RS4511119A04		14	
	60	6	15	1B	With		RS6011YA600M		15	
		9-1	10		Without		RS6011Y19004		16	
		6	15		Without		RS6011Y1600Q		17	
	Dual-unit	45	4	20	20		15A		With	RS451121400A
60		6	15	RS45112A400G		19				
				RS60112A600N		20				
				RS60112A600U						

Note

Products other than those listed in above products are also available. Please contact us for details.

Refer to **P.408** for product varieties.
Refer to **P.408** for configuration details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
1		
2		
3		
4		

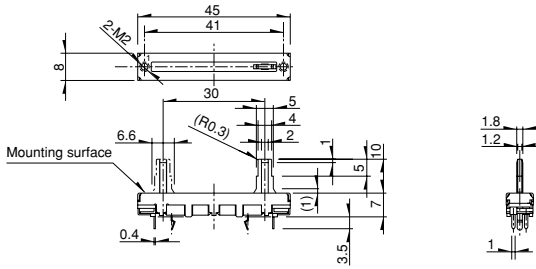
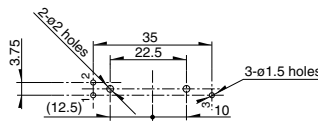
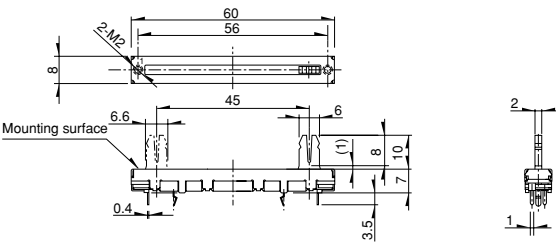
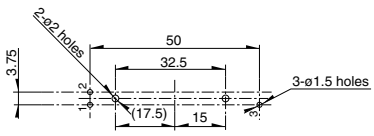
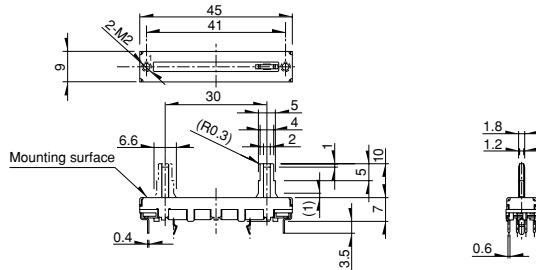
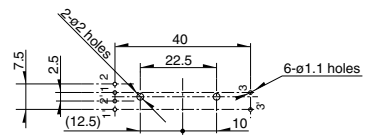
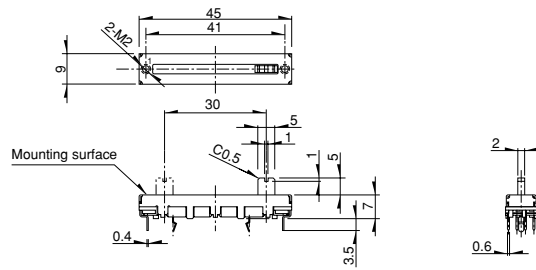
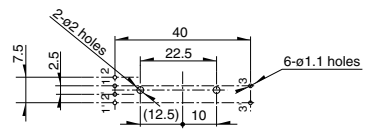
Rotary
Potentiometers
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General-use
Mixer

The length of the operating part(L₁)can be customized. Refer to P.408 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
5		
6		
7		
8		

The length of the operating part(L₁)can be customized. Refer to P.408 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
9		
10		
11		
12		

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General-use
Mixer

The length of the operating part(L₁)can be customized. Refer to P.408 for details.

Rotary
Potentiometers

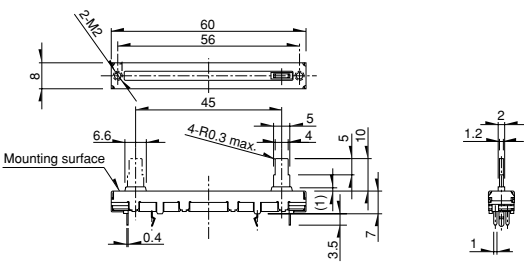
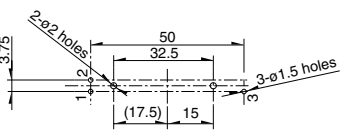
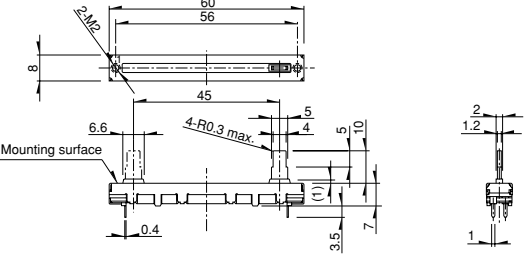
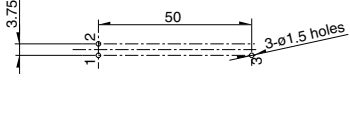
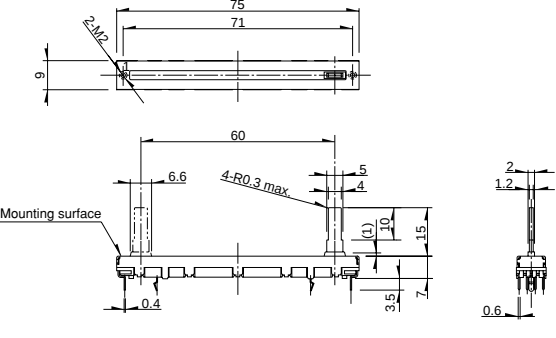
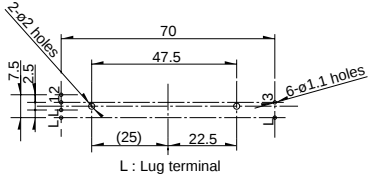
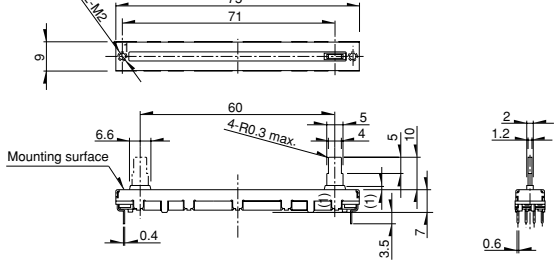
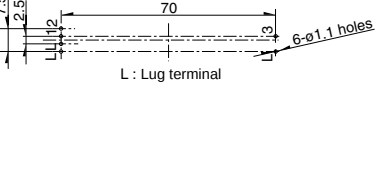
Slide
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General-use

Mixer

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
13		
14		
15		
16		

The length of the operating part(L) can be customized. Refer to P.408 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
17	Technical drawing of Style 17 potentiometer. Top view shows a rectangular body with dimensions 75 (total length), 71 (mounting area length), and 60 (terminal area length). Mounting holes are 2-M2. Side view shows a height of 9mm. Front view shows terminal dimensions: 6.6mm terminal width, 4-R0.3 max. fillet, 5mm terminal height, 4mm terminal width, 10mm terminal pitch, 15mm terminal length, 7mm terminal thickness, 3.5mm terminal base width, and 0.4mm mounting surface offset. A detail view shows terminal thicknesses of 2mm, 1.2mm, and 0.6mm.	PC board mounting hole dimensions for Style 17. The layout shows 6-φ1.1 holes with a total length of 70mm. Hole spacing includes 7.5mm, 2.5mm, 12mm, and 3mm. A dimension L indicates the lug terminal length. L : Lug terminal
18	Technical drawing of Style 18 potentiometer. Top view shows a rectangular body with dimensions 60 (total length), 56 (mounting area length), and 45 (terminal area length). Mounting holes are 2-M2. Side view shows a height of 9mm. Front view shows terminal dimensions: 6.6mm terminal width, 3mm terminal height, 4mm terminal width, 8.5mm terminal pitch, 10mm terminal length, 20mm terminal thickness, 7mm terminal base width, 3.5mm terminal base offset, and 0.4mm mounting surface offset. A detail view shows terminal thicknesses of 2mm, 1.2mm, and 0.6mm.	PC board mounting hole dimensions for Style 18. The layout shows 6-φ1.1 holes with a total length of 55mm. Hole spacing includes 7.5mm, 2.5mm, 12mm, and 3mm.
19	Technical drawing of Style 19 potentiometer. Top view shows a rectangular body with dimensions 60 (total length), 56 (mounting area length), and 45 (terminal area length). Mounting holes are 2-M2. Side view shows a height of 9mm. Front view shows terminal dimensions: 6.6mm terminal width, 3mm terminal height, 4mm terminal width, 8.5mm terminal pitch, 10mm terminal length, 20mm terminal thickness, 7mm terminal base width, 3.5mm terminal base offset, and 0.4mm mounting surface offset. A detail view shows terminal thicknesses of 2mm, 1.2mm, and 0.6mm.	PC board mounting hole dimensions for Style 19. The layout shows 2-φ2 holes and 6-φ1.1 holes. The total length is 55mm. Hole spacing includes 7.5mm, 2.5mm, 12mm, 32.5mm, 17.5mm, 15mm, and 3mm.
20	Technical drawing of Style 20 potentiometer. Top view shows a rectangular body with dimensions 75 (total length), 71 (mounting area length), and 60 (terminal area length). Mounting holes are 2-M2. Side view shows a height of 9mm. Front view shows terminal dimensions: 6.6mm terminal width, 4-R0.3 max. fillet, 5mm terminal height, 4mm terminal width, 10mm terminal pitch, 15mm terminal length, 7mm terminal thickness, 3.5mm terminal base width, and 0.4mm mounting surface offset. A detail view shows terminal thicknesses of 2mm, 1.2mm, and 0.6mm.	PC board mounting hole dimensions for Style 20. The layout shows 2-φ2 holes and 6-φ1.1 holes. The total length is 70mm. Hole spacing includes 7.5mm, 2.5mm, 12mm, 47.5mm, (25)mm, 22.5mm, and 3mm.

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Product Varieties

In addition to the recommended products, the following specifications can also be accommodated.

Travel Distance Variety

Travel(mm)	15	20	30	45	60
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Total Resistance Variety

Total resistance(k Ω)	10	20	50	100	200
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Resistance Taper

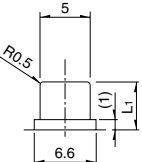
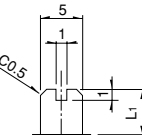
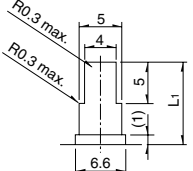
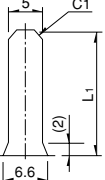
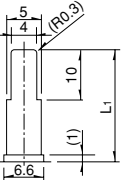
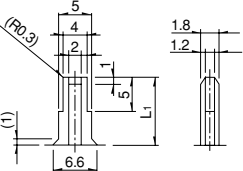
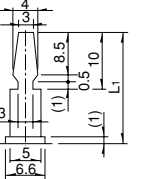
Resistance taper	1B	4B	10A	15A
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Note

DC(10VDC) is also available.(Tapped types are not available)

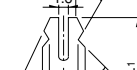
Lever Types

Unit:mm

Metal lever		Insulated lever							
Code	Dimensions	Code	Dimensions						
9-2	 t=1.2 <table><tr><td>L₁</td></tr><tr><td>5</td></tr></table>	L ₁	5	J-1	 t=2 <table><tr><td>L₁</td></tr><tr><td>5</td></tr></table>	L ₁	5		
	L ₁								
5									
L ₁									
5									
9-1	 t=1.2 <table><tr><td>L₁</td></tr><tr><td>10</td></tr></table>	L ₁	10	A	 t=2 <table><tr><td>L₁</td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L ₁	10	15	
	L ₁								
10									
L ₁									
10									
15									
6	 t=1.2 <table><tr><td>L₁</td></tr><tr><td>15</td></tr><tr><td>20</td></tr></table>	L ₁	15	20	C	 t=2 <table><tr><td>L₁</td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L ₁	10	15
	L ₁								
15									
20									
L ₁									
10									
15									
4	 t=1.2 <table><tr><td>L₁</td></tr><tr><td>15</td></tr><tr><td>20</td></tr></table>	L ₁	15	20					
	L ₁								
15									
20									

Corresponding Specifications

Unit:mm

Resistance taper	3B, 15C	Insulated lever configuration				
		B				
Dust cover	Available		t=1.2			
Tap	Available (Only the center-positioned)		<table border="1"><tr><td>L₁</td></tr><tr><td>10</td></tr><tr><td>15</td></tr></table>	L ₁	10	15
L ₁						
10						
15						

Terminal Layout/Circuit Diagram

Single-unit	Dual-unit (with lug terminal X RS6011Y only) L : Lug terminal	Dual-unit
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Note

marked are specifications recommended by ALPS.

Refer to P.408, 502 for resistance taper.

Orders Other Than Recommended Products

When ordering product varieties that are not listed in the Product Line, please specify by referring to the below example.

Sample Part Number



Specify the travel distance from the below codes.

Travel (mm)	Code	Travel (mm)	Code
15	15	45	45
20	20	60	60
30	30		

Number of resistor elements

Single	1 (Enter "Y" for 60 mm travel)
Dual	2

Lever type/Length of operation unit (mm)

Insulated lever

Code	Configuration	Length
J1	J-1	5
0A	A	10
		15
0C	C	10
		15
0B	B	10
		15

Metal lever

Code	Configuration	Length
91	9-1	10
92	9-2	5
		15
04	4	20
		15
06	6	20

Length of operation unit

If the length is less than 10 mm, add a "0" before the number.
(e.g., 5 mm length="05")

Detent

Code	Detent
C0	Without
C1	Center

Mounting plate

Code	Mounting plate
P0	Without
P1	With

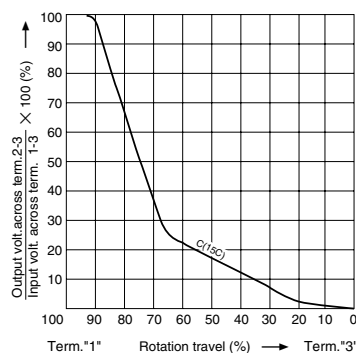
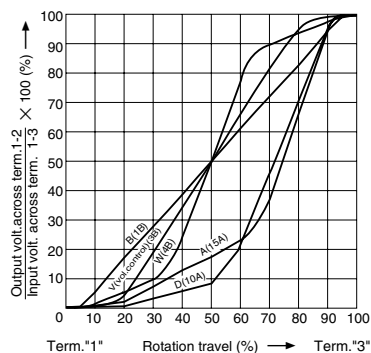
Total resistance

Code	Total resistance (kΩ)	Code	Total resistance (kΩ)
103	10	104	100
203	20	204	200
503	50		

Resistance taper

Code	Resistance taper
A	15A
B	1B
D	10A
W	4B
V	3B
C	15C

B: For tone & general
V: For vol.



Note

marked are specifications recommended by ALPS.

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List of Varieties

Type		Super Slide™		Slim Slide™ (Slim4)				Slim Slide™ (Low-Profile)	
		RS □ □ 11 □		RS □ □ H1 □				RS □ □ M11	
photo									
Travel(mm)		15(RS15111) 20(RS20111) 30(RS30111) 45(RS45111) 60(RS6011Y)	20(RS20112) 30(RS30112) 45(RS45112) 60(RS60112)	15(RS15H111) 15(RS15H113) 20(RS20H111) 20(RS20H113) 30(RS30H111)	15(RS15H121) 20(RS20H123) 30(RS30H121)	15(RS15H11A) 20(RS20H11A) 20(RS20H11C) 30(RS30H11A)	15(RS15H12A) 20(RS20H12A) 30(RS30H12A)	15(RS15M111) 20(RS20M111) 20(RS20M113)	15(RS15M11A) 20(RS20M11A)
Number of resistor elements		Single-unit	Dual-unit	Single-unit	Dual-unit	Single-unit	Dual-unit	Single-unit	
Direction of lever		Vertical				Horizontal		Vertical	Horizontal
Electrical Performance	Total resistance(kΩ)	10, 20, 50, 100, 200		5, 10, 20, 50, 100 200, 250					
	Resistance taper	15A, 1B, 4B, 10A, 3B, 15C		15A, 1B, 3B					
Mechanical Performance	Operating force	0.3 to 2.5N		0.2 to 1.1N				0.15 to 0.8N	
	Stopper strength	50N		30N					
	Lever push-pull strength			30N				20N	
	Lever wobble(mm) Both sides	$\frac{2(2 \times L)}{20}$		1.6 max.					
	Detent slip-out force	Operating force+(0.2 to 2N)		Operating force+(0.05 to 0.8N)				With detent feeling	
	Lever deviation(mm) One side	0.5 max.							
Solder heat resistance	Manual soldering	350 max. 3s max.							
	Dip soldering	260 max. 5s max.							
Environmental Performance	Cold	- 30 ± 2 for 96h							
	Dry heat	70 ± 2 for 96h						70 ± 2 for 240h	
	Damp heat	40 ± 2 , 90 to 95%RH for 96h							
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- Slide Potentiometers Cautions420, 421

Notes

- "L" in the "Lever Wobble" column of the above table indicates the length of lever.
- Products other than those listed in the above list are also available. Please contact us for details.
- The resistance taper specification in () are individually defined.
- 「RS□□」 □□ indicates travel.

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