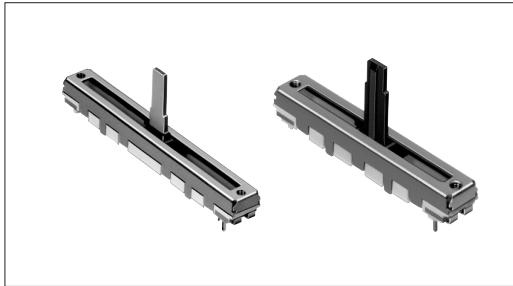


Slide Potentiometer Standard Type (Super Slide™)

RS□□1 Series



Solderable with auto dipping and available in a wide variety.



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°C to +70°C

Rotary Potentiometers

Slide Potentiometers

Product Line

Insulated 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	20	J-1	5	10	1B	Without	Without	2,800	RS201111J011	1		
	30				15A				RS301111J00P	2		
				45	1B		Without	2,400	RS301111AJ01R	3		
	60				15A		Without		RS301111J00R	2		
		30	A	10	10		Without	Without	1,300	RS301111AJ01K	3	
	C		Without				RS301111A01G	4				
	45		B		10		10	With		Without	RS301111C01L	5
			60					C		With	Without	RS301111AC00V
Dual-unit	30	C		5	3B	Without	With	1,300	RS451111ABA02	7		
		J-1	2,400					RS30112AC00J	8			
								2,400	RS30112AJA02	9		

General-use

Mixer

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	2,800	RS15111A900B	10	
	20				RS20111A9A03				11		
	30				4		15	20	1B	Without	2,400
		6	RS3011114A02	13							
	45	9-1	10	10	10		Without	1,300	RS30111A602N	14	
									6	RS45111A900F	15
	60	6	15	10	10		Without	With	900	RS4511119A04	16
										9-1	10
		6	15	10	10		Without	RS6011Y19004	18		
								6	15	10	10
Dual-unit	45	4	20	20	1B	Without	With	1,150	RS451121400A	20	
								900	RS45112A400G	21	
	60	6	15	15	15A	Without	With	900	RS60112A600N	22	
				20					RS60112A600U		



Automotive Use

Notes

1. Products other than those listed in above products are also available. Please contact us for details.
2. Please place purchase orders per minimum order unit N (integer).

Refer to P.432 for product varieties.
Refer to P.432 for configuration details.
Refer to P.432, 433, 470 for resistance taper.

ALPS

■ Packing Specifications

Tray

Travel (mm)	Number of resistor elements	Number of packages (pcs.)		Export package measurements (mm)
		1 case/Japan	1 case/export packing	
15, 20	Single-unit	700	2,800	378 × 518 × 422
30	Single-unit/ Dual-unit	600	2,400	
45	Single-unit	1,300	1,300	373 × 529 × 273
	Dual-unit	1,150	1,150	
60	Single-unit/ Dual-unit	900	900	

Rotary Potentiometers

Slide Potentiometers

General-use

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Automotive Use

■ Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
1		
2		
3		
4		
5		

The length of the operating part (L₁) can be customized. Refer to P.432 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
6		
7		
8		
9		

Rotary Potentiometers

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The length of the operating part (L₁) can be customized. Refer to P.432 for details.

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Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
10		
11		
12		
13		
14		

The length of the operating part (L) can be customized. Refer to P.432 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
15		
16		
17		
18		

Rotary Potentiometers
 Slide Potentiometers

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The length of the operating part (L) can be customized. Refer to P.432 for details.

Dimensions

Unit:mm

Rotary Potentiometers
 Slide Potentiometers

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No.	Style	PC board mounting hole dimensions
19		
20		
21		
22		

The length of the operating part (L) can be customized. Refer to P.432 for details.

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
-------------	----	----	----	----	----

Total Resistance Variety

Total resistance (kΩ)	10	20	50	100	200
-----------------------	----	----	----	-----	-----

Resistance Taper

Resistance taper	1B	4B	10A	15A
------------------	----	----	-----	-----

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	<table border="1"> <tr><td>L₁</td></tr> <tr><td>5</td></tr> </table>	L ₁	5	J-1	<table border="1"> <tr><td>L₁</td></tr> <tr><td>5</td></tr> </table>	L ₁	5		
L ₁									
5									
L ₁									
5									
9-1	<table border="1"> <tr><td>L₁</td></tr> <tr><td>10</td></tr> </table>	L ₁	10	A	<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									
L ₁									
10									
15									
6	<table border="1"> <tr><td>L₁</td></tr> <tr><td>15</td></tr> <tr><td>20</td></tr> </table>	L ₁	15	20	C	<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									
15									
20									
L ₁									
10									
15									
4	<table border="1"> <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
Dust cover	Available
Tap	Available (Only the center-positioned)

Insulated lever configuration B				
<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 (Viewed from Mounting Side)

<p>Single-unit</p>	<p>Single-unit (with lug terminal) (RS6011Y only)</p> <p>L : Lug terminal</p>	<p>Dual-unit</p>
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Note

marked are specifications recommended by ALPS.

Refer to P.433, 470 for resistance taper.

Rotary Potentiometers

Slide Potentiometers

General-use

Mixer



Automotive Use

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



Rotary Potentiometers

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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
04	4	15
		20
06	6	15
		20

Length of operation unit

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

Detent

Code	Detent
C0	Without
C1	Center

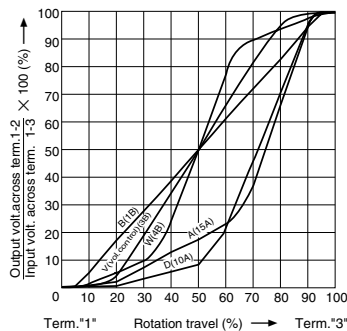
Mounting plate

Code	Mounting plate
P0	Without
P1	With

Resistance taper

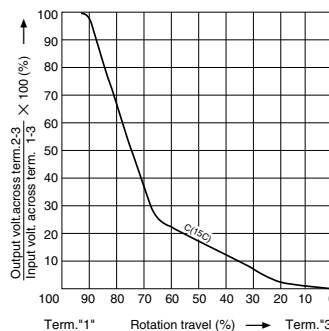
Code	Resistance taper
A	15A
B	1B
D	10A
W	4B
V	3B
C	15C

B:For tone & general
V:For vol.



Total resistance

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



Note

marked are specifications recommended by ALPS.



Automotive Use






List of Varieties

Rotary Potentiometers

Slide Potentiometers

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Mixer

Type	Super Slide™		Slim Slide™ (Slim4)				Compact Reflow Type	
	RS□□11□		RS□□H1□				RS08	
photo								
Travel (mm)	15 20 30 45 60		15 20 30	15 20 30	15 20 30	15 20 30	8	
Number of resistor elements	Single-unit	Dual-unit	Single-unit	Dual-unit	Single-unit	Dual-unit	Single-unit	
Automotive use	<input type="radio"/>	<input type="radio"/>	—	—	—	—	—	—
Direction of lever	Vertical				Horizontal		Vertical	Horizontal
Electrical Performance	Total resistance (kΩ)	10, 20, 50, 100, 200		5, 10, 20, 50, 100 200, 250			10	
	Resistance taper	15A, 1B, 4B, 10A, 3B, 15C		15A, 1B, 3B			1B	
Mechanical Performance	Operating force	0.3 to 2.5N		0.2 to 1.1N			0.17±0.15N	
	Stopper strength	50N		30N			5N	
	Lever push-pull strength	50N		30N			5N	
	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)			————	
	Lever deviation (mm) ※One side	0.5 max.		————			————	
Solder heat resistance	Manual soldering	350°C max. 3s max.						
	Dip soldering	260°C max. 5s max.					————	
	Reflow soldering	————					250°C max. 3s max.	
Environmental Performance	Cold	-30±2°C for 96h						
	Dry heat	70±2°C for 96h						
	Damp heat	40±2°C, 90 to 95%RH for 96h						
Page	426		434				440	

● Slide Potentiometers Cautions441, 442

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.
- [RS□□] □□ indicates travel.
- marks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C.