

Super Slide™ (Standard Type)





Solderable with auto dipping and available in a wide variety.

Potentiometers



Typical Specifications

Items	Specifications
Total resistance tolerance	± 20%
Maximum operating voltage	Please see P.372
Operating force	0.3 to 2.5N
Operating life	15,000cycles
Operating temperature range	- 25°C to + 70°C

Product Line sulated lever

General-use

Mixer

Insulated	iever										
Number of resistor	Travel	Lever	Length of lever	Total resistance	Resistance	Detent	Mounting	Minimu unit	m order pcs.)	Products No.	Drawing
elements	(mm)	types	(L ₁) (mm)	(k Ω)	taper	Detent	plate	Japan	Export	rroducts reo.	No.
	20				1B		Without	700	2,800	RS201111J011	1
				10	15A		VVIIIIOGI			RS301111J00P	2
	30	J-1	5		1B	Without	With			RS30111AJ01R	3
				50			Without	600 2,400		RS301111J00R	2
Single-unit					15A		With		600 2,40	600 2,400	600 2,400
		Α					Without			RS301111A01G	4
		С					VVIIIOGI			RS301111C01L	5
			10	10	1B					RS30111AC00V	6
	45	В		10			With	1,300	1,300	RS45111ABA02	7
Dual-unit	30	С					*************************************	600	2,400	RS30112AC00J	8
Dual-ullit	30	J-1	5		3B			600	2,400	RS30112AJA02	9

Metal lever

Number	Travel	Lever	Length of	Total	Resistance	Detent	Mounting		Winimum order unit (pcs.)		Drawing					
of resistor elements	(mm)	types	lever (L ₁) (mm)	resistance (k Ω)	taper	Detent	plate	Japan	Export	Products No.	No.					
	15				15A			700	2,800	RS15111A900B	10					
	20	9-1	10	10			With	700	2,800	RS20111A9A03	11					
									2,400	RS30111A9012	12					
	30	4	15	20	1B		Without	600		RS3011114A02	13					
0: 1 :		6	15		ID		With			RS30111A602N	14					
Single-unit	45	45 9-1	10	40	10	10	10	10				VVILII	1 200	1 200	RS45111A900F	15
					15A Wit	Without	Without	1,300	1,300	RS4511119A04	16					
		6	15				With			RS6011YA600M	17					
	60	9-1	10	10				900	900	RS6011Y19004	18					
		6 15				Without			RS6011Y1600Q	19						
	45				1B					RS451121400A	20					
	45	4	20					1,150	1,150	RS45112A400G	21					
Dual-unit	00	_	45		45.4		With	000	000	RS60112A600N						
	60	6	15	20	15A			900	900	RS60112A600U	22					

Notes

Other varieties are also available. Refer to "Other Specifications" (P.372).

Super Slide™ (Standard Type)



Packing Specifications

Tray

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

Rotary Potentiometers

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Dim	ensions	Unit:mm
No.	Style	PC board mounting hole dimensions (Viewed from mounting side)
1	35 31 31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 C C C C C C C C C C C C C C C C C C C
2	数付面 30 5 5 CO.5 CO.5 CO.5 CO.5 CO.5 CO.5 CO.5	35 0 0 3-ø1.5 holes
3	和 和 和 和 和 和 和 和 和 和 和 和 和 和	35 22.5 22.5 (12.5) 10 3-ø1.5 holes
4	45 41 41 0.4 0.4 0.4	35 C C C C C C C C C C C C C C C C C C C

The length of the operating part (L_1) can be customized. Refer to **P.373** for details.

Rotary Potentiometers Slide Potentiometers

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Dimensions Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from mounting side)
5	45 41 30 30 (R0.3) 45 41 41 41 41 41 41 41 41 41 41 41 41 41	35 2 2 3-ø1.5 holes
6	45 41 41 41 41 41 41 41 41 41 41 41 41 41	35 22.5 3-01.5 holes
7	60 56 45 取付面 0.4	50 32.5 32.5 3-ø1.5 holes
8	45 41 30 6.6 (RO.3) 1.8 1.2	40 22.5 6-ø1.1 holes (12.5)
9	45 41 30 Q ₅ 1 Q ₆	40 22.5 6-e1.1 holes

The length of the operating part $(L_{\mbox{\scriptsize 1}})$ can be customized. Refer to $\mbox{\bf P.373}$ for details.

Super Slide™ (Standard Type)

Dimensions Unit:mm PC board mounting hole dimensions (Viewed from mounting side) No. Style 10 4-R_{0.3 m} 11 取付面 12 13 取付面 14 0.4

The length of the operating part (L_1) can be customized. Refer to **P.373** for details.

Rotary Potentiometers

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Mixer

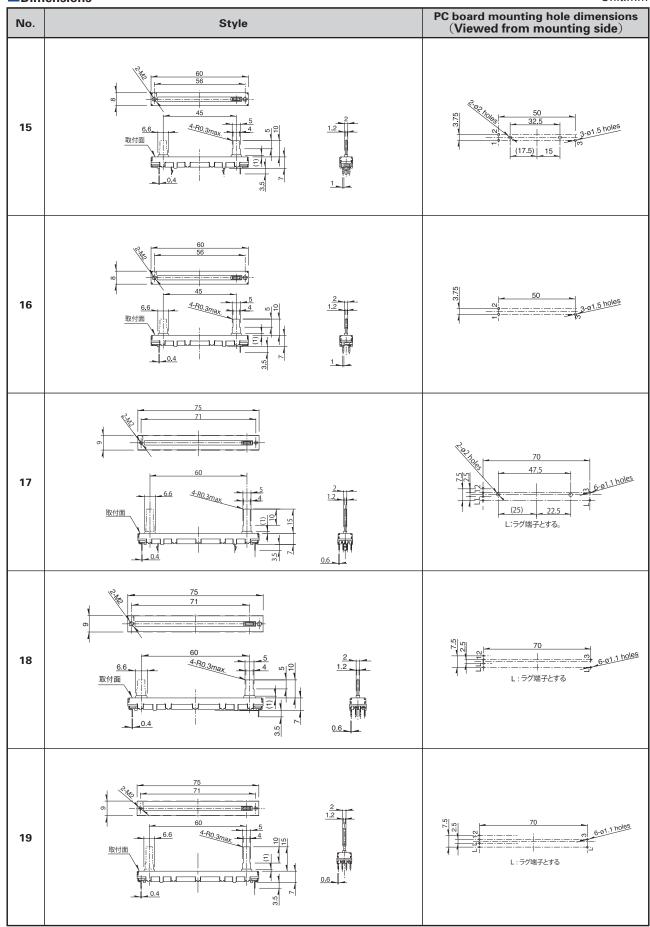
Dimensions Unit:mm

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The length of the operating part (L_1) can be customized. Refer to **P.373** for details.

DimensionsUnit:mm

— DIM	ensions	Unit:mm
No.	Style	PC board mounting hole dimensions (Viewed from mounting side)
20	80 56 56 45 45 45 0.6 0.6	55 S G G-01.1 holes
21	60 56 56 45 45 1.2 1.2 0.6	32.5 on 6-01.1 holes
22	75 71 71 60 60 4-RO 3max 4 9 9 9 9 0.6	770 47.5 (25) 22.5

The length of the operating part (\boldsymbol{L}_1) can be customized. Refer to $\boldsymbol{P.373}$ for details.

Rotary Potentiometers

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Super Slide[™] (Standard Type) / Other Specifications

In addition to the products listed, we can accommodate the follow specifications.

Rotary Potentiometers

Slide Potentiometers

I ravel Distance variety					
Travel (mm)	15	20	30	45	60

■ Total Resistance Variety

Totalresistance ($\mathbf{k}\Omega$)	10	20	50	100	200

Resistance taper

					
Resistance taper	1B	3B	4B	10A	15A

Note

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

General-use

Rated Voltage

Mixer	

	J -			
Travel	Single	Single-unit		-unit
Iravei	1B	4B, 10A, 15A	1B, 3B	4B, 10A, 15A
15mm	0.05W	0.025W	0.025W	0.012W
20mm	0.1W	0.05W	0.05W	0.025W
30mm	0.2W	0.1W	0.1W	0.05W
45mm	0.25W	0.125W	0.125W	0.06W
60mm	0.2W	0.1W	0.2W	0.1W

Maximum operating voltage

IVIGAIIIIGIII	operating voitage				
Travel	Single-unit		Single-unit	Dual	l-unit
Travel	1B	4B, 10A, 15A	1B, 3B	4B, 10A, 15A	
15mm	100V AC,10V DC	50V AC,10V DC	100// 40/ 10// DC	F0\/ AC 10\/ DC	
20mm			100V AC,10V DC	50V AC,10V DC	
30mm	0001/ 40 401/ DO	150/ 40 10// 00			
45mm	200V AC,10V DC	150V AC,10V DC	200V AC,10V DC	150V AC,10V DC	
60mm					

■ Terminal Layout / Circuit Diagram (Viewed from Mounting Side)

	, , , , , , , , , , , , , , , , , , ,	
Single-unit	Single-unit (with lug terminal) (RS6011Y only)	Dual-unit

Note

marked are specifications recommended by Alps.

Super Slide[™] (Standard Type) / Other Specifications

In addition to the products listed, we can accommodate the follow specifications.

Leve	er Types	
	Metal lever	
Code	Dimensions	
9-2	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	t=1.2
9-1	RO3 Max 5 4 4 5 5 6.6 E.	t=1.2
6	01 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	t=1.2
4	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	t=1.2

		Unit:mm
	Insulated lever	
Code	Dimensions	
J-1	5 1 5	t=2
А	5 C1	t=2
С	5 4 1.8 1.2 1.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	L ₁ 10 15

Potentiometers

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Corresponding Specifications

- corresponding open	
Resistance taper	3B, 15C
Dust cover	Available
Тар	Available (Only the center- positioned)

Insulated lever configurati	on
B	t=2
49 45	10 15

Unit:mm

Note

marked are specifications recommended by Alps.

When ordering product varieties that are not listed, specify referring to the examples below.

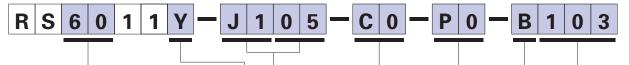
Rotary Potentiometers

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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	Α	10
UA	_ A	15
0C	С	10
UC	C	15
0B	В	10
UB	Ь	15

ivietai iev	er
Cada	Confin

Code	Configuration	Length
91	9-1	10
92	9-2	5
04	4	15
	4	20
06	6	15
06	0	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

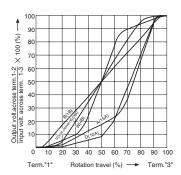
Code	Mounting plate			
P0	Without			
P1	With			

Total resistance

Code	Total resistance $(\mathbf{k}\Omega)$	Code	Total resistance (kΩ)	
103	10	104	100	
203	20	204	200	
503	50			

Resistance taper

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



Note

marked are specifications recommended by Alps.

Slide Potentiometers

■ List of Varieties

Potentiometers

Slide Potentiometers

General-use

Mixer

	Туре	Standard Type						
	Series	RS □□ 1	RS 🗆	Compact Reflow Type RS08U				
photo								
Travel (mm)		15, 20, 30, 45, 60	15, 2	8				
Direction of lever		Ver	tical	Vertical	Horizontal			
S	Shaft material	Metal / Resin						
Number	of resistor elements		Single-unit / Dual-unit		Singl	e-unit		
Operating temperature range			-25°C to +70°C		-10℃ t	o +70°C		
C	Operating life	15,000cycles		10,000cycles				
Available for automotive use		0						
Life cycle (availability)		*2	<u> </u>	* 2				
	Total resistance (kΩ)	10, 20, 50, 100, 200	5, 10, 20, 50,	10				
	Resistance taper	10A, 15A, 1B, 3B, 4B	15A, 1	1B				
Electrical	Rated Power	Please see P.372	Please se	0.025W				
performance	Insulation resistance	100MΩ min. 250V DC	Dual-unit:100M	100MΩ mi	n. 100V DC			
	Voltage proof	300V AC for 1 minute	Dual-unit:300V	100V AC f	or 1 minute			
	Center-taps	Without / With			Wit	hout		
	Operating force	0.3 to 2.5N	0.6 +	0.17±	:0.15N			
	Center detent	Without / With			Wit	hout		
	Stopper strength	50N	30	5N				
Mechanical performance	Lever push-pull strength	50N	30N		5N			
	Lever wobble (mm) *Both sides	2(2×L) 20	1.6 max.					
	Detent slip-out force	Operating force+ (0.2 to 2N)	Operating force+0.3 ^{+0.5} _{-0.25} N		T			
	Lever deviation (mm) **One side	0.5 max.						
Termimal style		Insertion			Reflow			
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"L" in the "Lever Wobble" column of the above table indicates the length of lever.
 [RS \(\superstruct{\super

3. O indicates applicability to some products in the series.

Slide Potentiometers Soldering Conditions

Reference for Hand Soldering

Series	Tip temperature	Duration of Soldering time	No. of solders	
RS 1, RS H, RS08U, RS K(Standard), RS N, RS N11S, RS6011 P, RS N1 M, RSA0K1 V(Motor terminal)	350°C max.	3s max.	1 time	

Rotary Potentiometers

Slide Potentiometers

Reference for Dip Soldering

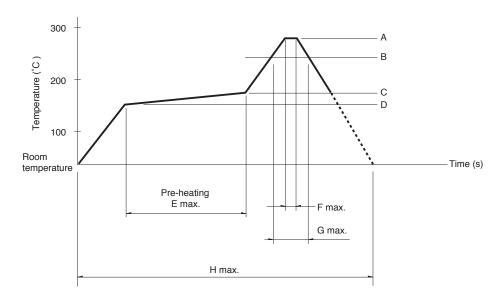
0 :	Preheating		Dip so	Number of		
Series	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	soldering	
RS 1, RS 1, H, RS 1, N, RS 1,	100°C max.	1 min. max.	260℃	5s max.	1 time	

General-use

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Example of Reflow Soldering Condition

Temperature profile



Series	Α	В	С	D	E	F	G	н	No. of reflows
RS08U	250℃	200℃	150℃	150℃	2 min.	3s	40s	4 min.	1 time

Notes

- 1. When using an infrared reflow oven, solder may sometimes not be applied. Be sure to use a hot air reflow oven or a type that uses infrared rays in combination with hot air.
- 2. The temperatures given above are the maximum temperatures at the terminals of the potentiometer when employing a hot air reflow method. The temperature of the PC board and the surface temperature of the potentiometer may vary greatly depending on the PC board material, its size and thickness. Ensure that the surface temperature of the potentiometer does not rise to 250° C or greater.
- Conditions vary to some extent depending on the type of reflow bath used. Be sure to give due consideration to this prior to use.