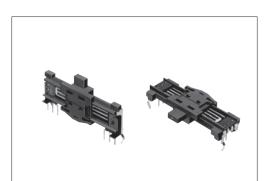
Compact total length of travel +15mm and improved operating feel





■ Typical Specifications

Items	Specifications		
Total resistance tolerance	±20%		
Maximum operating voltage	Please see P.414		
Operating force	0.6 ^{+0.5} _{-0.4} N		
Operating life	10,000 cycles		
Operating temperature range	−25°C to +70°C		

Product Line

Number of	Direction	Travel	Lever	Length of lever	Total resistance	Resistance	Center	Тар	Minimum ord		Products No.	Drawing
resistor elements	of lever	(mm)	types	(L1) (mm)	(k Ω)	taper	detent	Тар	Japan	Export		No.
				9.5	100		With	-			RS15H113CA05	
		15			50		Without		2,900	5,800	RS15H111CA04	1
	Vertical		С			1B	With				RS15H113C001	
	70.000	20		14.5	100				2,500	5,000	RS20H113C008	2
					50				2,000	0,000	RS20H111C009	
		30			10	15A			2,000	4,000	RS30H111A00D	3
					100	10	\				RS15H11AA04M	
		15			10	1B	Without				RS15H11AA008	7
					10	15A				5,500	RS15H11AA00G	
Single-unit			A		250			-	2,750		RS20H11AA02T	8
	Horizontal	20 izontal			10		With				RS20H11CA00B	
				4.5	5						RS20H11AA01U	
					50		1B Without				RS20H11AA019	
								Without			RS20H11AA015	
		30			10 1B	1B					RS30H11AA009	
					50					3,960	RS30H11AA00G	9
					200				1,980		RS30H11AAA0B	
					5						RS30H11AA00P	
				9.5							RS30H11AAA02	-
		15		4.5	10	15A			2,900	5,800	RS15H121A009	4
	Vertical	20		9.5	100		With	-	2,500	5,000	RS20H123A01C	5
		30						-	2,000	4,000	RS30H121A00B	6
Dual-unit				4.5	10	1B					RS15H12AA00F	
		15			50		Without		2,750	5,500	RS15H12AA009	10
	Horizontal	20	С	14.5	250	3B			_,	-,	RS20H12AC002	11
		30	A	4.5	50	15A			1,980	3,960	RS30H12AA003	12
						.5/ (.,500	3,500		

Note

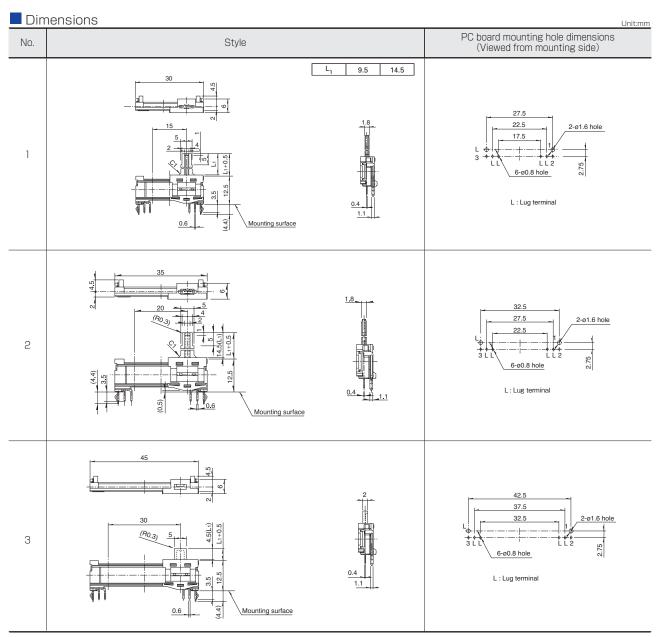
Other varieties are also available. Refer to "Other Specifications" (P.414).



Packing Specifications

Tray

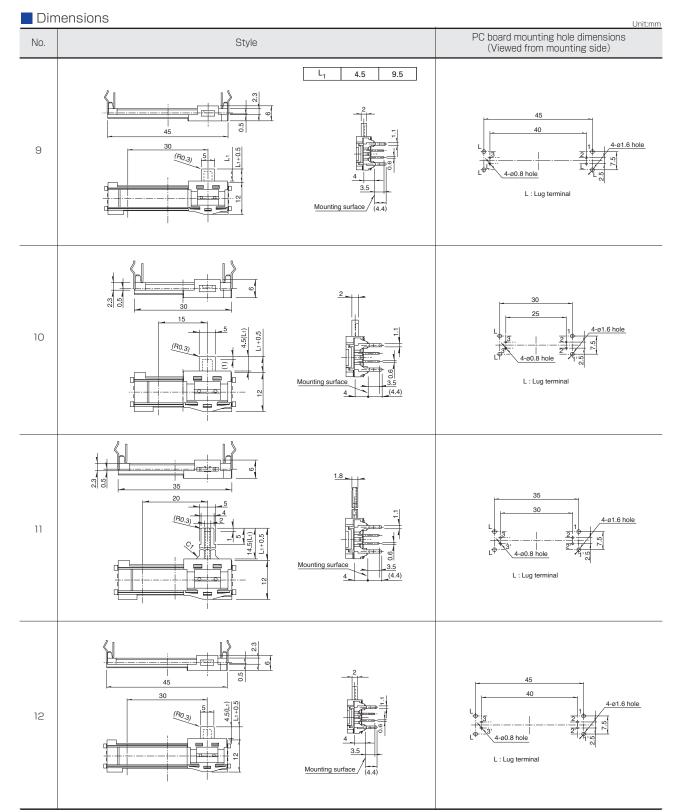
Travel (mm)	Direction of lever	Number of pa	Export package	
Traver (ITIIII)	Direction or level	1 case /Japan	1 case /export packing	measurements (mm)
15	Vertical	2,900	5,800	378×514×512
15	Horizontal	2,750	5,500	374×508×408
20	Vertical	2,500	5,000	378×514×512
	Horizontal	2,750	5,500	374×508×408
30	Vertical	2,000	4,000	378×514×512
30	Horizontal	1,980	3,960	374×508×408



The length of Lever (L_1) can be customized. Refer to P.414 for details.



Dimensions Unit:mm PC board mounting hole dimensions (Viewed from mounting side) No. Style 4 L : Lug terminal Mounting surface 32.5 2-ø1.6 hole (R0.3) 5 5 6-ø0.8 hole L : Lug terminal Mounting surface 42.5 37.5 6 6-ø0.8 hole L : Lug terminal Mounting surface 4-ø1.6 hole 7 4-ø0.8 hole L : Lug terminal Mounting surface / 4-ø1.6 hole 8 4-ø0.8 hole L : Lug terminal Mounting surface /



The length of Lever (L_1) can be customized. Refer to P.414 for details.



Slim Slide™ (Slim 4) / Other Specifications

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

Travel Distance Variety

Travel (mm)	15			20		30	
■ Total Resistance Variety							
Total resistance (k Ω)	5	10	20	50	100	200	250
						•	

Resistance Taper

Resistance taper	15A	1B	3B				

Note

Also compatible to DC (10V DC). (Excluding tapped types)

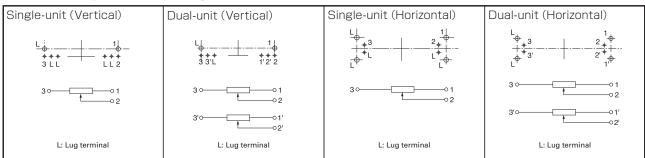
Rated Power

Travel	Resistance taper			
Havei	15A	1B, 3B		
15mm	0.012W	0.025W		
20mm	0.025W	0.05W		
30mm	0.05W	O.1W		

Maximum Operating Voltage

Travel	Resistance taper			
Havei	15A	1B, 3B		
15mm	50V AC, 10V DC	100V AC. 10V DC		
20mm	50V AC, 10V DC	100V AC, 10V DC		
30mm	150V AC, 10V DC	200V AC, 10V DC		

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



Lever Types

Lever Typ	Level Types Unitum						
Configuration code	,	A	(2	[D	
Dimensions	(Rp.3)	-2- 	5 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.8	0.8 S S S S S S S S S S S S S S S S S S S	1.6	
Length L ₁	4.5	9.5	9.5	14.5	9.5	14.5	

Corresponding Specification

Тар	Available, (Only the center-positioned)
-----	--------------------------------------------

Notes

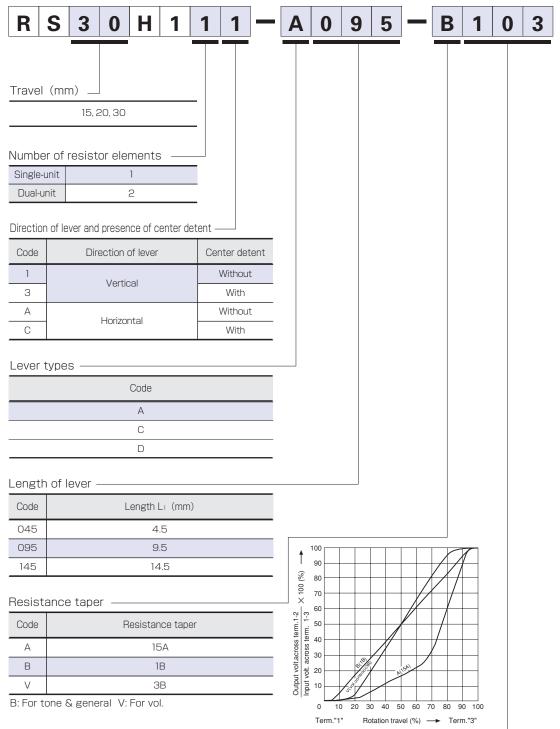
- 1. The color of the D-type lever is black. Please specify the required color for markers from red, green, orange and white.
- 2. Marked are specifications recommended by Alps.



Slim Slide™ (Slim 4) / Ordering Products Not Listed

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

Sample Part Number



Total resistance -

Code	Total resistance (k Ω)	Code	Total resistance (k Ω)
502	5	104	100
103	10	204	200
203	20	254	250
503	50	_	_

Note

Marked are specifications recommended by Alps.

Slide Potentiometers

List of Varieties

Type Standard Type						Master Type			
		Super Slide™	Slim Slide	™ (Slim4)	Compact F	Reflow Type	K Fader		
	Series	RS □□ 1	RS 🗆	□ H	RS	U80	RS □□ K		
		Single-unit/Dual-unit	Single-unit	t/Dual-unit	Sing	e-unit	Single-unit/Dual-unit		
	Photo								
	Travel (mm)	15, 20, 30, 45, 60	15, 2	0, 30		3	60, 100		
1	Direction of lever	Vert	ical	Horizontal	Vertical	Horizontal	Vertical		
	Lever material	Metal / Resin		Resin			Metal		
Operat	ing temperature range		-25℃ to +70℃		-10°C t	:o +70°C	-10℃ to +60℃		
	Operating life	15,000 cycles		10,000 cycles			100,000 cycles (Standard) 300,000 cycles (CP)		
Availa	ble for automotive use	0	_	_	-	_	_		
Life	e cycle (availability)	* 2	Á	2		2	* 2		
	Total resistance (k Ω)	10, 20, 50, 100, 200	5, 10, 20, 50, 100, 200, 250		10		10, 50, 100(Standerd) 10 (CP)		
	Resistance taper	10A, 15A, 1B, 3B, 4B	15A, 1B, 3B		18		15A, 1B		
Electrical	Rated Power	Please see P.395	Please see P.402		0.025W		0.25W		
performance	Insulation resistance	100MΩ min. 250V DC	Dual-unit: 100MΩ min. 250V DC		100MΩ min. 100V DC		100MΩ min. 250V DC		
	Voltage proof	300V AC for 1 minute	Dual-unit: 300V	AC for 1 minute	100V AC for 1 minute		250V AC for 1 minute		
	Center-taps		Without / With			nout			
	Operating force	0.3 to 2.5N	0.6	^{0.5} _{0.4} N	0.17±	:0.15N	Please see P.408		
	Center detent		Without / With			nout			
	Stopper strength	50N	30	N	5N		100N		
Mechanical performance	Lever push-pull strength	50N	30	N	5	iN	100N		
	Lever wobble (mm) ** Both sides	<u>2(2×L)</u> 20	1.6	max.	_		<u>2(2×L)</u> 25		
	Detent slip-out force	Operating force + (0.2 to 2N)	Operating force +0.3 ^{+0.5} _{-0.25} N				-	_	_
	Lever deviation (mm) ** One side	0.5 max.					0.5 max.		
	Terminal style	Insertion			Reflow		Lead (Standard) Connector (CP)		
	Page	401	4	10	4	16	417		

Notes

1. "L" in the "Lever Wobble" column of the above table indicates the length of lever.

2. [RS □□]

indicates travel.

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



Slide Potentiometers / Soldering Conditions

Reference for Manual Soldering

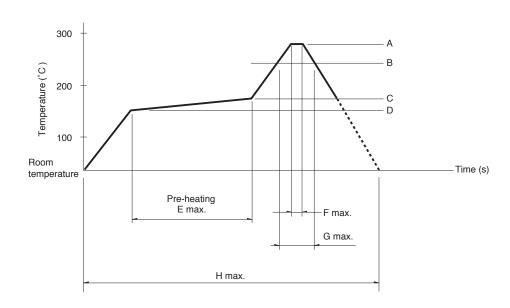
Series	Tip temperature	Duration of Soldering time	No. of solders	
RS 1, RS 1, RS08U, RS 1, RS 1, RS08U, RS 1, RS 1, RS011 P, RS 1, N1 M, RSA0K1 V (Motor terminal)	350℃ max.	3s max.	1 time	

■ Reference for Dip Soldering

Series	Prehe	eating	Dip so		
	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	Number of soldering
RS	100°C max.	1 min. max.	260℃	5s max.	1 time

■ Example of Reflow Soldering Condition

Temperature profile



Series	А	В	С	D	Е	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.
- 3. Conditions vary to some extent depending on the type of reflow bath used. Be sure to give due consideration to this prior to use.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ALPS:

RS20H111C009	RS15H12AA009	RS30H111A00D	RS20H113C008	RS20H123A01C	RS15H113C001
RS30H121A00B	RS20H11AA01U	RS30H11AAA02	RS15H113CA05	RS30H12AA003	RS20H12AC002
RS15H121A009	RS30H11AA00G	RS15H12AA00F	RS20H11CA00B	RS30H11AAA0B	RS20H11AA015
RS15H11AA00G	RS20H11AA019	RS15H111CA04	RS15H11AA008	RS20H11AA02T	RS30H11AA00P
RS15H11AA04M	RS30H11AA009				