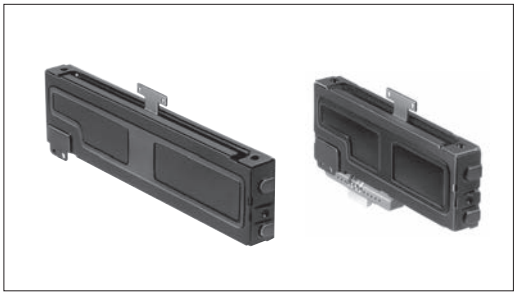
RS □□ K Master Type (K Fader)

Minimum lever wobble and high precision characteristics combined with good operational feel



Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	350V AC, 20V DC
Operating force	Please see P.408
Operating life	Please see P.408
Operating temperature range	−10℃ to +60℃

Product Line

Type	Number of resistor elements	Travel (mm)	Lever type	Length of lever (mm)	Total resistance (k Ω)	Resistance taper	Minimum order unit (pcs.) Japan	Minimum order unit (pcs.) Export	Products No.	Drawing No.
Standard Type	Single-unit	60	9-T (T-Bar)	8.2	10	15A	50	100	**RS60K11A9010**	1
		100							**RSA0K11A901L**	2
	Dual-unit		1	12					**RSA0K12A1013**	3
CP Type	Single-unit	60	9-T (T-Bar)	8.2					**RS60K11K9A13**	4
		100							**RSA0K11K9A16**	5
	Dual-unit								**RSA0K12K9A14**	6

Note

Other varieties are also available. Refer to "Other Specifications" (P.408).

Packing Specifications

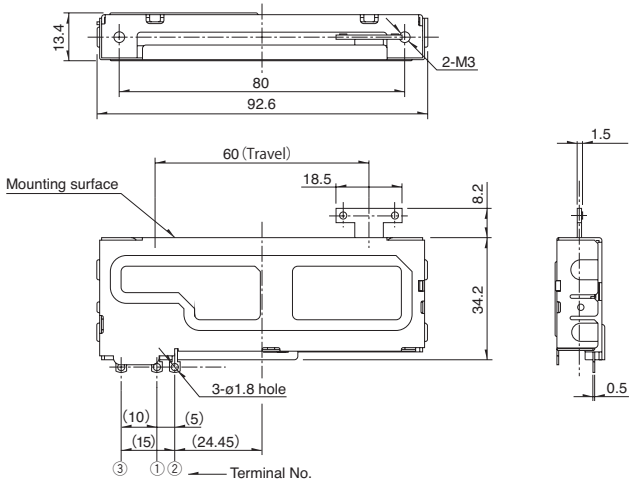
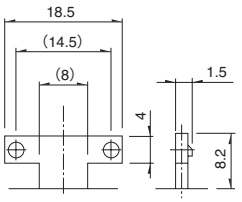
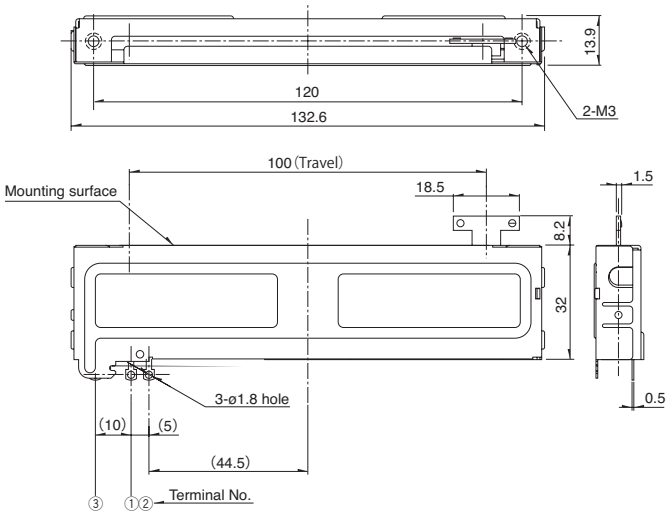
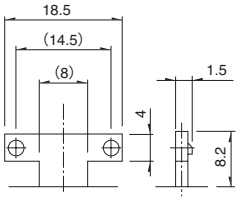
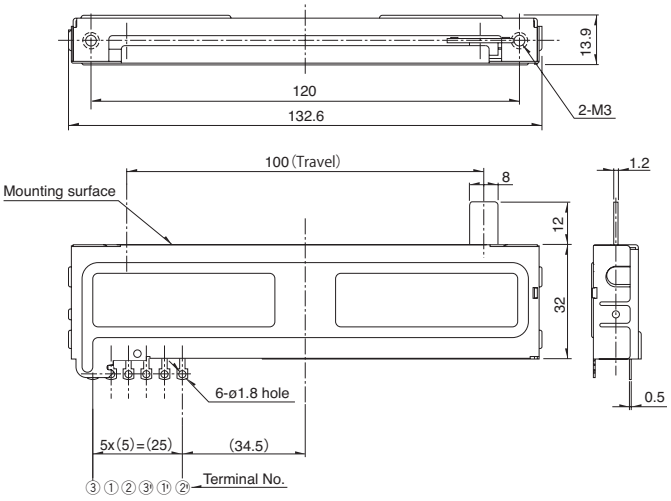
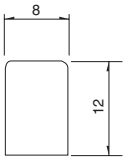
Bulk

Travel (mm)	Number of packages (pcs.) 1 case /Japan	Number of packages (pcs.) 1 case /export packing	Export package measurements (mm)
60	50	100	292×520×190
100	50	100	370×520×201

Refer to P.408 for other specifications.
Refer to P.408 for details of lever types.
Refer to P.409 for ordering products not listed.
Refer to P.426 for soldering conditions.

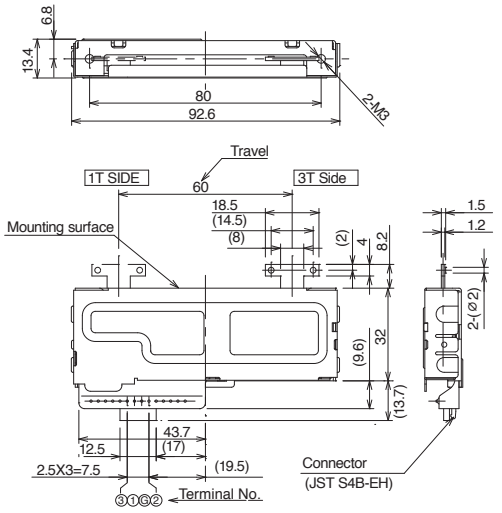
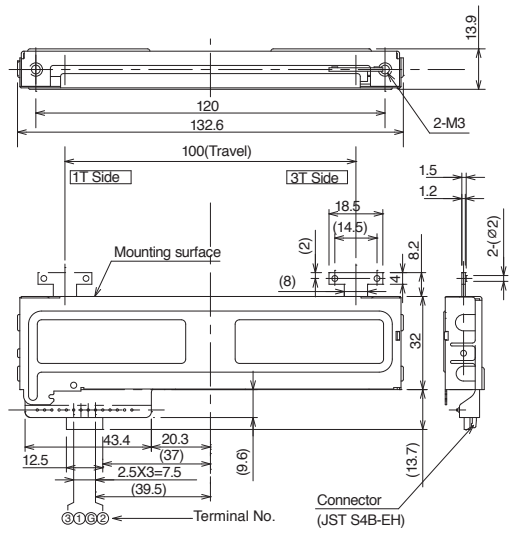
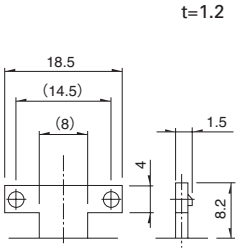
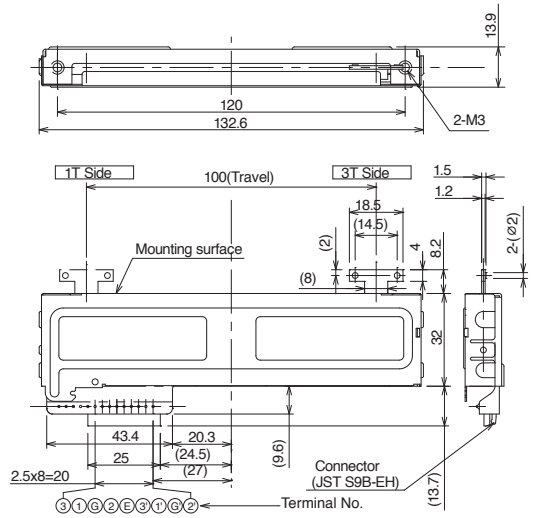
Dimensions

Unit:mm

No.	Style	
1		t=1.2 
2		t=1.2 
3		t=1.2 

Dimensions

Unit:mm

No.	Style
4	
5	 
6	

Master Type (K Fader) / Other Specifications

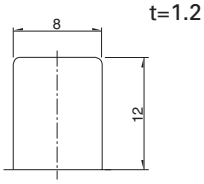
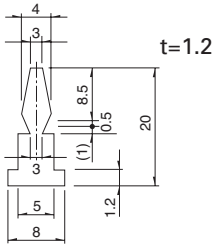
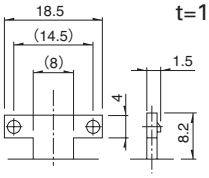
In addition to the products listed, we can accommodate the follow specifications.

Specifications

Type		Travel (mm)	Terminal style		Oeprating force	Sliding life	Micro switch
Standard type	Single-unit	60 / 100	Lead type		$0.3^{+0.3}_{-0.2}$N	100,000 cycles	Available (100mm only)
	Dual-unit				0.4±0.3N		
CP type	Single-unit		Connector type	JST S4B-EH	0.2±0.15N	300,000 cycles	
	Dual-unit			JST S9B-EH	0.3±0.2N		

Lever Types

Unit:mm

Configuration code	1	4	9-T (T-Bar)
Dimensions			

Total Resistance Variety

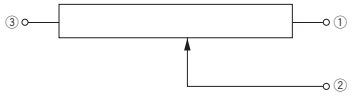
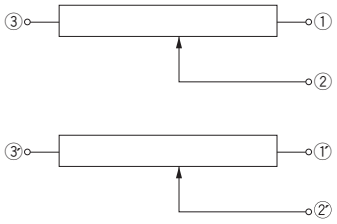
Total resistance (k Ω)	10※	50	100

※CP type: Only 10 kΩ

Resistance Taper

Resistance taper	15A	1B

Circuit Diagram

Single-unit	Dual-unit
	

Note

Marked are specifications recommended by Alps.

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

Sample Part Number

R	S	6	0	K	1	1	A	–	9	T	–	A	1	0	3

Travel

60	60mm
A0	100mm

Number of resistor elements

Single-unit	1
Dual-unit	2

Resistor element type, and presence of micro switch.

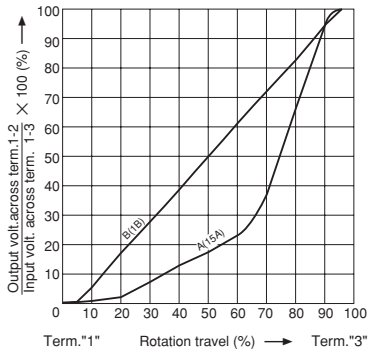
Code	Resistor elements Standard type	Code	Resistor elements CP type
A	Without micro switch	K	Without micro switch
B	With micro switch	L	With micro switch

Lever types

Code	Configuration code
01	1
04	4
9T	9-T (T-Bar)

Resistance taper

Code	Resistance taper
A	15A
B	1B



Total resistance

Code	Total resistance (k Ω)	Code	Total resistance (k Ω)
103	10	104	100
503	50	254	250

CP type: Supports 10kΩ only.

Note

Marked are specifications recommended by Alps.

Slide Potentiometers

List of Varieties

Type		Standard Type					Master Type
Series		Super Slide™	Slim Slide™ (Slim4)		Compact Reflow Type		K Fader
		RS □□ 1	**RS □□ H**		**RS08U**		**RS □□ K**
		Single-unit/Dual-unit	Single-unit/Dual-unit		Single-unit		Single-unit/Dual-unit
Photo							
Travel (mm)		15, 20, 30, 45, 60	15, 20, 30		8		60, 100
Direction of lever		Vertical		Horizontal	Vertical	Horizontal	Vertical
Lever material		Metal / Resin	Resin				Metal
Operating temperature range		−25℃ to +70℃			−10℃ to +70℃		−10℃ to +60℃
Operating life		15,000 cycles	10,000 cycles				100,000 cycles (Standard) 300,000 cycles (CP)
Available for automotive use		○	—	—	—		—
Life cycle (availability)		★2	★2		★2		★2
Electrical performance	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		1B		15A, 1B
	Rated Power	Please see P.395	Please see P.402		0.025W		0.25W
	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			Without		
Mechanical performance	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			Without		
	Stopper strength	50N	30N		5N		100N
	Lever push-pull strength	50N	30N		5N		100N
	Lever wobble (mm) ※ Both sides	$\frac{2(2\times L)}{20}$	1.6 max.		—		$\frac{2(2\times L)}{25}$
	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		389	398		404		405

Slide Potentiometers Soldering Conditions · · · · · 426
Potentiometer Cautions · · · · · 427
Potentiometers Measurement and Test Methods · · · · · 429
Potentiometers Resistance Taper · · · · · 431

Notes

1. "L" in the "Lever Wobble" column of the above table indicates the length of lever.
2. 「RS □□」
   → □□ indicates travel.
3. ○ Indicates applicability to some products in the series.

Reference for Manual Soldering

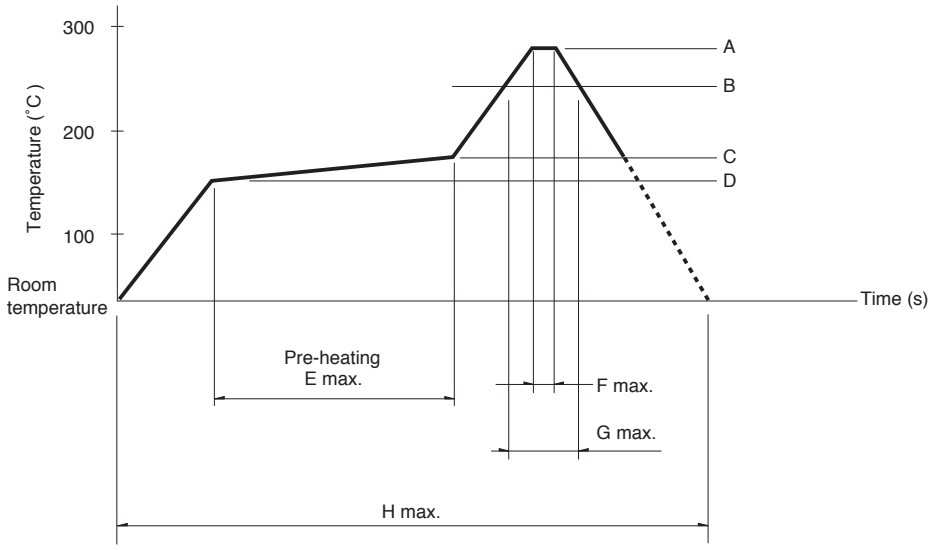
Series	Tip temperature	Duration of Soldering time	No. of solders
RS□□1, RS□□H, RS08U, RS□□K (Standard), RS□□N, RS□□N11S, RS6011□P, RS□□N1□M, RSA0K1□V (Motor terminal)	350℃ max.	3s max.	1 time

Reference for Dip Soldering

Series	Preheating		Dip soldering		Number of soldering
	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	
RS□□1, RS□□H, RS□□N, RS□□N11S, RS6011□P, RS□□N1□M	100℃ max.	1 min. max.	260℃	5s max.	1 time

Example of Reflow Soldering Condition

Temperature profile



Series	A	B	C	D	E	F	G	H	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.