Compact and good operational feel, suitable for mixing console faders



■ Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	200V AC, 10V DC (Single-unit) 150V AC, 10V DC (Dual-unit)
Operating force	0.5 ^{+1.0} _{-0.4} N
Operating life	30,000 cycles
Operating temperature range	−10°C to +60°C

Product Line

Number of resistor elements	Travel (mm)	Lever type	Length of lever (mm)	Total resistance (k Ω)	Resistance taper	Minimumorde Japan	er unit (pcs.) Export	Products No.																
Single unit		6	15																10	10	1B			RS6011SP6003
Single-unit	00			20	15A	900	0 900	RS6011SP6004																
Dual-unit	60			10		900		RS6011DP6002																
				20				RS6011DP6003																

Note

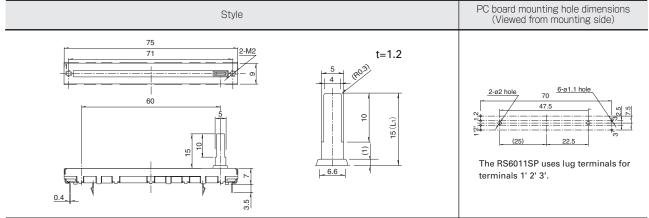
Other varieties are also available. Refer to "Other Specifications" (P.418).

Packing Specifications

Tray

Number of pa	Export package measurements	
1 case /Japan	1 case /export packing	(mm)
900	900	373×529×273

Dimensions



Low-profile Master Type (Super P Fader) / Other Specifications

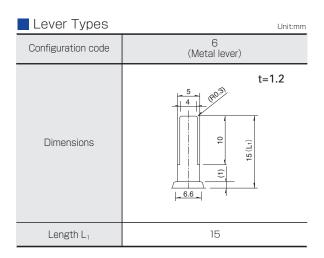
In addition to the products listed, we can accommodate the follow specifications.

■ Total Resistance Variety

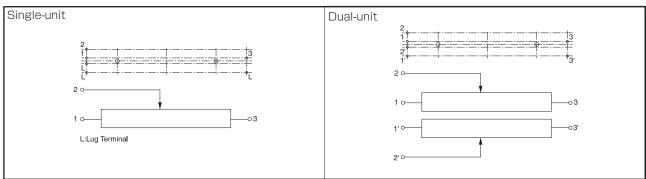
Total resistance (k Ω)	10	20	50

Resistance Taper

<u> </u>			
Resistance taper	15A	1B	10A



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



Corresponding Specifications

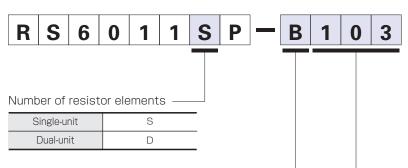
Dust cover	Available

Notes

- 1. Marked are specifications recommended by Alps.
- 2. A variety of operational feels are available, so please inquire if you have a request.

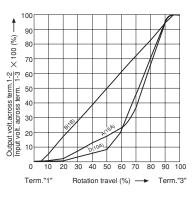
When ordering product varieties that are not listed, specify referring to the examples below.

Sample Part Number



Resistance taper -

Code	Resistance taper					
Α	15A					
В	1B					
D	10A					



Total resistance

Code	Total resistance (k Ω)
103	10
203	20
503	50

	Type	Low-profile master type Motor-driven master			type Motor-driven master type				
		N Fader	Slim Type	Super P Fader	Motor N Fader	Motor K Fader	Motor V Fader		
	Series	RS □□ N	RS 🗆 N11S	RS6011 🗌 P	RS 🗆 N1 🗆 M	RSA0K1 □ V	RSA0V11M		
		Single-unit/Dual-unit	Single-unit	Single-unit/Dual-unit	Single-unit/Dual-unit	Single-unit/Dual-unit	Single-unit		
Photo				1					
	Travel (mm)	60,	100	60	60, 100	100	100		
ı	Direction of lever	Vertical							
	Lever material			Metal			Resin		
Operat	ting temperature range			-10℃ t	o +60°C				
	Operating life	ting life 30,000 cycles 30,000 cycles 300,000 cycles 10					100,000 cycles		
Availa	Available for automotive use — — — — — — —				_				
	Life cycle	* 2	* 2	* 2	* 2	* 2	* 2		
	Total resistance (k Ω)	10, 50, 1	00, 250	10, 20, 50	10, 50, 100, 250		10		
	Resistance taper		15A, 1B, 10A	Single-unit: 1B Dual-unit: Servo 1B Audio 15A, 1B, 10A			1B		
Electrical performance	Rated Power	0.1W (RS60N)		0.2W (Single-unit) 0.1W (Dual-unit)	0.2W (RS60N1 \(\text{M} \) 0.5W (RSA0N1 \(\text{M} \) \)		5W		
periorniance	Insulation resistance	100MΩ min. 250V DC							
	Voltage proof	250V AC for 1 minute							
	Center-taps			With	nout				
	Operating force	Single-unit 0.3 ^{+0.5} _{-0.25} N Dual-unit 0.4 ^{+0.5} _{-0.35} N	0.3 ^{+0.5} _{-0.25} N	0.5 ^{+1.0} _{-0.4} N	0.8±0.5N	Single-unit: 0.4±0.25N Dual-unit: 0.25 to 0.9N	_		
	Center detent	Without							
Mechanical	Stopper strength	100N							
performance	Lever push-pull strength			50N			5N		
	Lever wobble (mm) ** Both sides	2(2×L) 25							
	Lever deviation (mm)			0.5 max.	(One side)				
	Terminal style		Insertion		Lead, Insertion	Connector(Fader) Lead (Motor)	Connector		
	Page	410	414	417		420			
	Page entiometers Soldering C neter Cautions	Conditions · · · ·	414	417					

Notes

- 1. Attenuation is specified for residual resistance.
- 2. "L" in the "Lever Wobble" column of the above table indicates the length of lever.



Slide Potentiometers / Soldering Conditions

Reference for Manual Soldering

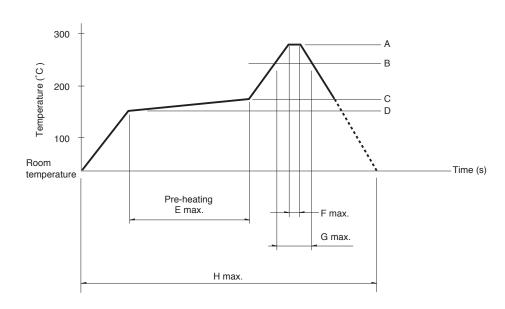
Series	Tip temperature	Duration of Soldering time	No. of solders	
RS	350℃ max.	3s max.	1 time	

■ Reference for Dip Soldering

	Preheating		Dip so		
Series Soldering surfar temperature		Heating time	ng time Soldering time Soldering time		Number of soldering
RS□□1, RS□□H, RS□□N, RS□□N11S, RS6011□P, RS□□N1□M	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.

