RS6011□P Low-profile Master Type (Super P Fader)

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℃ to +60℃

Product Line

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

Note

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

Packing Specifications

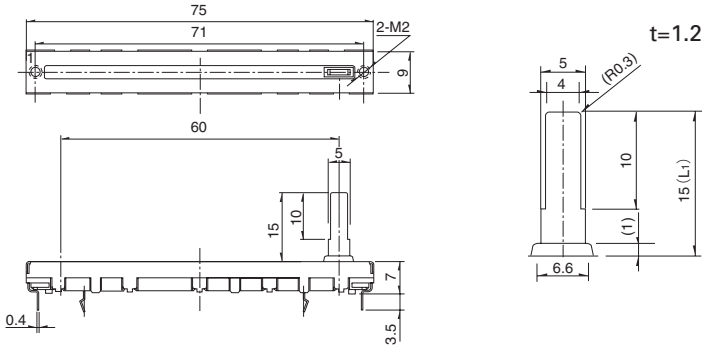
Tray

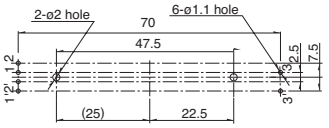
Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
900	900	373×529×273

Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from mounting side)





The RS6011SP uses lug terminals for terminals 1' 2' 3'.

Refer to P.418 for other specifications.
Refer to P.418 for details of lever types.
Refer to P.419 for ordering products not listed.
Refer to P.426 for soldering conditions.

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

Total Resistance Variety

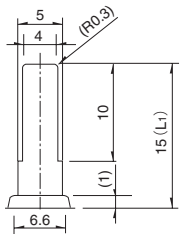
Total resistance (k Ω)	10	20	50

Resistance Taper

Resistance taper	15A	1B	10A

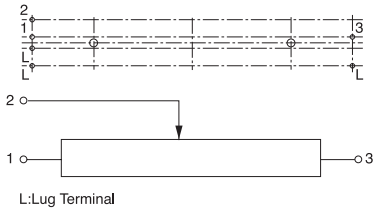
Lever Types

Unit:mm

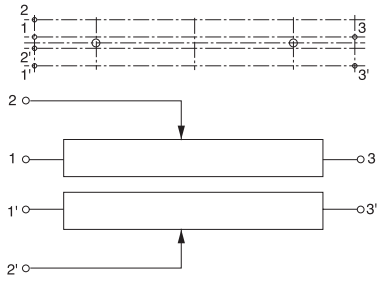
Configuration code	6 (Metal lever)
Dimensions	t=1.2 
Length L_1	15

Terminal Layout / Circuit Diagram (Viewed from Mounting Side)

Single-unit



Dual-unit



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

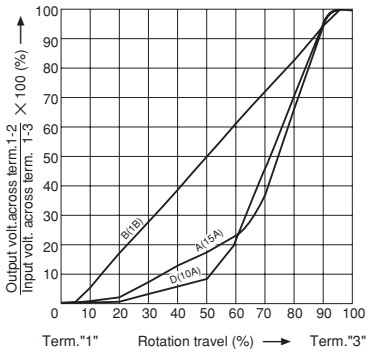
R	S	6	0	1	1	S	P	–	B	1	0	3

Number of resistor elements

Single-unit	S
Dual-unit	D

Resistance taper

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



Total resistance

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

Slide Potentiometers

List of Varieties

Type		Low-profile master type			Motor-driven master type		
Series		N Fader	Slim Type	Super P Fader	Motor N Fader	Motor K Fader	Motor V Fader
		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							
Travel (mm)		60, 100		60	60, 100	100	100
Direction of lever		Vertical					
Lever material		Metal					Resin
Operating temperature range		−10℃ to +60℃					
Operating life		30,000 cycles			30,000 cycles	300,000 cycles	100,000 cycles
Available for automotive use		—	—	—	—	—	—
Life cycle		★2	★2	★2	★2	★2	★2
Electrical performance	Total resistance (k Ω)	10, 50, 100, 250		10, 20, 50	10, 50, 100, 250	10	10
	Resistance taper	15A, 1B, 10A			Single-unit: 1B Dual-unit: Servo 1B Audio 15A, 1B, 10A		1B
	Rated Power	0.1W (RS60N) 0.25W (RSA0N)	0.2W (RS60N11S) 0.5W (RSA0N11S)	0.2W (Single-unit) 0.1W (Dual-unit)	0.2W (RS60N1□M) 0.5W (RSA0N1□M)	0.5W	
	Insulation resistance	100MΩ min. 250V DC					
	Voltage proof	250V AC for 1 minute					
	Center-taps	Without					
Mechanical performance	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					
	Stopper strength	100N					10N
	Lever push-pull strength	50N					5N
	Lever wobble (mm) ※ Both sides	$\frac{2(2\times L)}{25}$					
	Lever deviation (mm)	0.5 max. (One side)					
Terminal style		Insertion			Lead, Insertion	Connector(Fader) Lead (Motor)	Connector
Page		410	414	417	420		

Notes

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

Reference for Manual Soldering

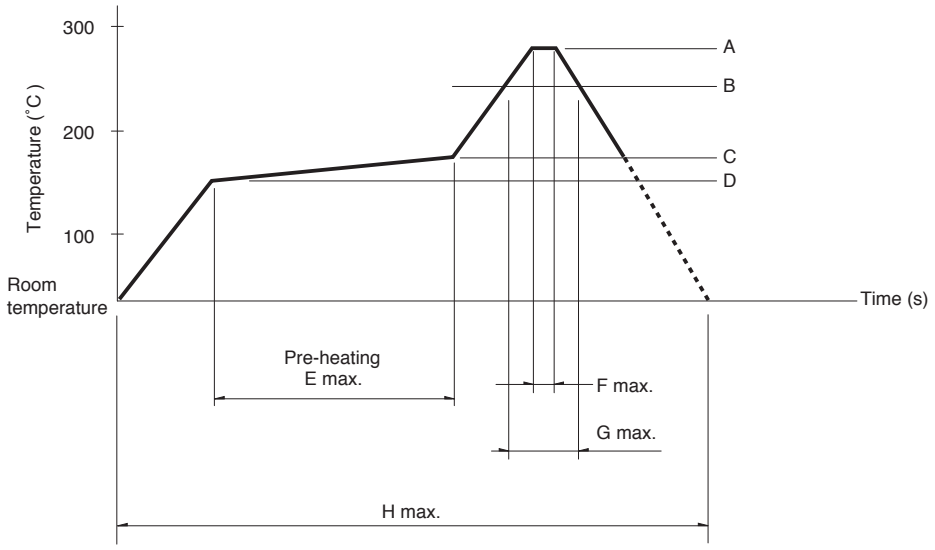
Series	Tip temperature	Duration of Soldering time	No. of solders
RS□□1, RS□□H, RS08U, RS□□K (Standard), RS□□N, RS□□N11S, RS6011□P, RS□□N1□M, RSA0K1□V (Motor terminal)	350℃ max.	3s max.	1 time

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.