

Slide Potentiometers for Fader Control of Mixers

Motor-driven Master Type(Motor N Fader, Motor K Fader)

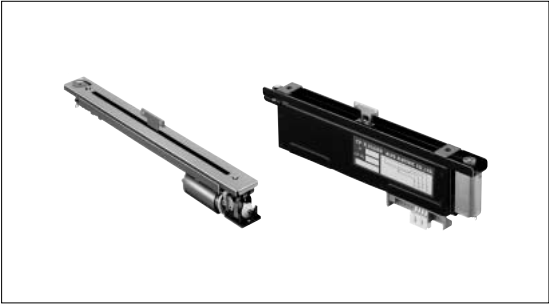
RS ☐ ☐ N1 ☐ M/RSA0K1 ☐ V Series



Provides a superior operational feel with high-speed tracking in motor drive mode.

Rotary
Potentiometers

Slide
Potentiometers



General-use

Mixer

Typical Specifications

Items	Specifications	
	Motor N fader	Motor K fader
Total resistance tolerance	± 20%	
Maximum operating voltage	10V DC, 200V AC(Travel : 60mm) 10V DC, 500V AC(Travel : 100mm)	
Operating force	0.3 to 1.3N	0.15 to 0.65N
Operating life	30,000cycles	CP type : 300,000cycles
Operating temperature range	- 10 to + 60	
Rated voltage of motor	10V DC	
Maximum current of motor	800mA or less(at 10V DC)	

Product Line

Number of resistor elements	Travel (mm)	Type	Lever type	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Terminal style	Touch sense track	Minimum packing unit (pcs.)	Products No.	Drawing No.
Single-unit	60	Motor N Fadar	9-T (T-bar)	8.2	10	1B	Lead	With	100	RS60N11M9A05	1
							For PC board			RS60N11M9A08	2
	Lead						RSA0N11M9A06			3	
	For PC board						RSA0N11M9A07			4	
	100	Motor K Fadar (CP type)					Connector			RSA0K11V900S	5

Note

Products other than those listed in above products are also available. Please contact us for details.

Refer to P.441 for product varieties.

Dimensions		Unit:mm
No.	Style	
1		
2		
	PC board mounting hole dimensions	
3		

Rotary Potentiometers

Slide Potentiometers

General-use

Mixer

Dimensions

Unit:mm

Dimensions		Unit
No.	Style	PC board mounting hole dimensions
4	Technical drawing of Style 4 connector. Dimensions include: 74, 120, 72.5, 2-M3, 18, 100, 18.5, 8.2, 26, 1.5, 18.5, 14.5, 8, 4, 1.5, 8.2, and $t=1.2$.	Technical drawing of PC board mounting hole dimensions for Style 4. Dimensions include: 11.25, 3.75, 2-$\phi 2$ holes, 6-$\phi 1.5$ holes, 56.65, 63.65, 29.55, and 8.
5	Technical drawing of Style 5 connector. Dimensions include: 83, 120 $\pm$ 0.2, 16 max., 2-M3, 1T side (1T側), 100 $\pm$ 1, 3T side (3T側), Travel (移動距離), 18.5 (14.5), 8, 15 max., 1.5, 2-$\phi 2$, 33.5, 0.3 (3.5), 0.3 (12.4), 2.5X3=7.5 (75), 12.5, 43.4, 20.3, 39, 37, 39.5, 9.6 (13.7), and Terminal No. A, B, ①, ②.	Technical drawing of PC board mounting hole dimensions for Style 5. Dimensions include: 11.25, 3.75, 2-$\phi 2$ holes, 6-$\phi 1.5$ holes, 56.65, 63.65, 29.55, and 8.

Product Varieties

In addition to the recommended products, the following specifications can also be accommodated.

Products Specifications

Type	Travel (mm)	Model	Touch sense track	Terminal
Single-unit	60	RS60N11M	Available	For PC board for auto dipping Lead
	100	RSA0N11M		Fader Terminal : Connector Motor Terminal : Lead
		RSA0K11V		
Dual-unit (Servo + Audio track)	60	RS60N12M		Printed wiring for auto dipping Lead
	100	RSA0N12M		Fader Terminal : Connector Motor Terminal : Lead
		RSA0K12V		

Rotary Potentiometers

Slide Potentiometers

Lever Types

Unit:mm

Configuration code	9-T (T-Bar)
Dimensions	

General-use

Mixer

Total Resistance Variety

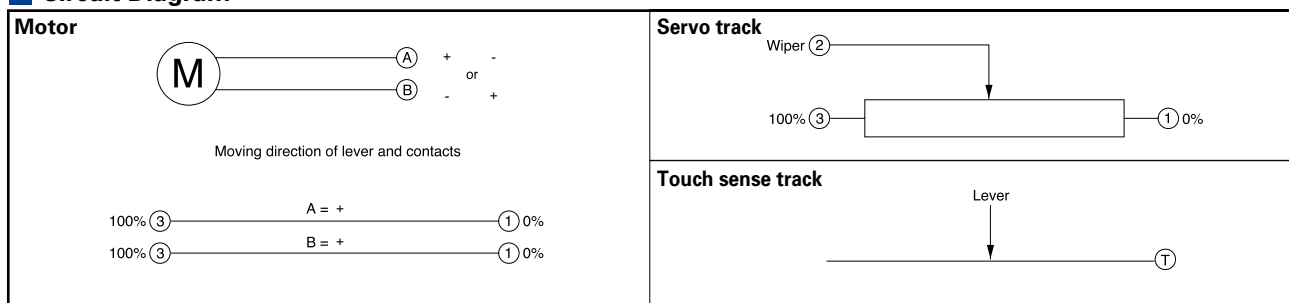
Total resistance(k Ω)	10※	50	100	250
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※ Motor K fader: Only 10k Ω

Resistance Taper

Resistance taper	Servo	1B		
	Audio	15A	1B	10A

Circuit Diagram



Notes

1. marked are specifications recommended by ALPS.
2. Products other than those listed in the above list are also available. Please contact us for details.

Refer to P.442, 443, 502 for resistance taper.

Orders Other Than Recommended Products

When ordering product varieties that are not listed in the Product Line, please specify by referring to the below example.

Sample Part Number

Rotary
Potentiometers

Slide
Potentiometers

General-use

Mixer

R	S	6	0	N	1	1	M
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T	0
---	---

B	1	0	3
---	---	---	---

Travel (mm)

60	60
A0	100

Number of resistor elements

Single-unit	1
Dual-unit	2

Touch sense track

Code	Touch sense track
T0	Without
T1	With

Resistance taper

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

For dual-units specify the taper of the audio track. Servo track will always be 1B taper.

Term."1" Rotation travel (%) Term."3"

Total resistance

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

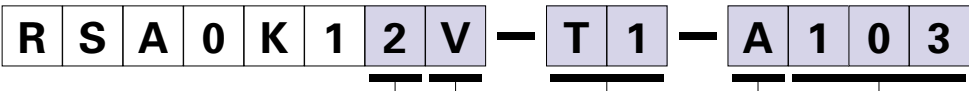
Note

marked are specifications recommended by ALPS.

Orders Other Than Recommended Products

When ordering product varieties that are not listed in the Product Line, please specify by referring to the below example.

Sample part number



Number of resistor elements

Single-unit	1
Dual-unit	2

Type

CP type	V
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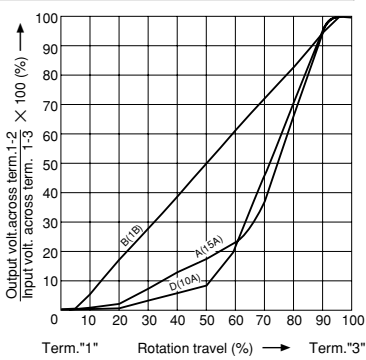
Touch sense track

Code	Touch sense track
T0	Without
T1	With

Resistance taper

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

Appoint the taper of audio track in the case of dual-unit.
Servo track is surely 1B taper.



Total resistance

Code	Total resistance(kΩ)
103	10

Note

marked are specifications recommended by ALPS.

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Potentiometers
Slide
Potentiometers

General-use
Mixer

List of Varieties

Rotary Potentiometers

Slide Potentiometers

General-use

Mixer

Item		Master type		Low-profile master type				Motor-driven master type					
		RS□□K□□		RS□□N1		RS□□N11S		RS6011□Y		RSA0K1□V	RS□□N1□M		
Photo													
Outlined specifications	Travel(mm)	60(RS60K11) 100(RSA0K11) 100(RSA0K12)		60(RS60N11) 100(RSA0N11) 60(RS60N12) 100(RSA0N12)		60(RS60N11S) 100(RSA0N11S)		60(RS6011SY) 60(RS6011DY)		100(RSA0K11V)		60(RS60N11M) 100(RSA0N11M)	
	Number of resistor elements	Single-unit	Dual-unit	Single-unit	Dual-unit	Single-unit		Dual-unit		Single-unit (CP type)		Single-unit	
Electrical Performance	Total resistance (kΩ)	10, 50, 100, 250				RS□□N1 : 10, 50, 100, 250 RS□□N11S : 10, 50, 100, 250 RS6011□Y : 10, 20, 50				RS□□N1□M : 10, 50, 100, 250 RSA0K1□V : 10			
	Resistance taper	15A, 1B				RS□□N1 : 15A, 1B, 10A RS□□N1□S : 15A, 1B, 10A RS6011□Y : 15A, 1B, 10A				Single-unit : 1B Dual-unit : Servo 1B Audio 15A, 1B, 10A			
Mechanical Performance	Operating force	Standard : 0.1 to 0.6N				RS□□N1□ Single-unit : 0.05 to 0.8N Dual-unit : 0.05 to 0.9N RS6011□Y 0.1 to 2.0N RS□□N11S 0.05 to 0.8N				RS□□N1□M 0.3 to 1.3N RSA0K1□V, Single-unit : 0.15 to 0.65N			
	Stopper strength	100N											
	Lever push-pull strength	100N				50N							
	Lever deviation (mm) Both Side	$\frac{2(2 \times L)}{25}$											
	Lever deviation	0.5mm max. (One side)											
Soldering	Manual soldering	350 max. 3s max.											
	Dip soldering	—————				260 max. 5s max. RS□□N1□M(Lead type) , RSA0K1□V : not available							
Environmental Performance	Cold	- 30 ± 2 for 96h											
	Dry heat	70 ± 2 for 240h											
	Damp heat	40 ± 2 , 90 to 95%RH for 96h											
Page		424		428		434		435		438			

- Slide Volume Control Operations Cautions444, 445

Notes

- Attenuation is specified for residual resistance.
- "L" in the "Lever Wobble" column of the above table indicates the length of lever.
- Products other than those listed in the above list are also available. Please contact us for details.