## **Slide Potentiometers for Fader Control of Mixers**

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

RS N1 M/RSA0K1 V Series



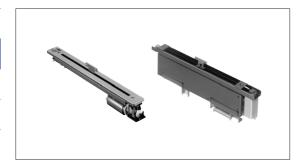
# Provides a superior operational feel with high-speed tracking in motor drive mode.

Rotary Potentiometers

Slide Potentiometers

Multi Control Devices

Sensors



#### Features

- Motor driven, low-profile type with a thickness of 22mm.
- Timing belt drive ensures superior trackability in motor drive mode and an excellent operational feel in manual mode.
- Compatible to touch sense track

### Applications

• For fader control in mixing consoles

Typical Specifications

General-use

Mixer

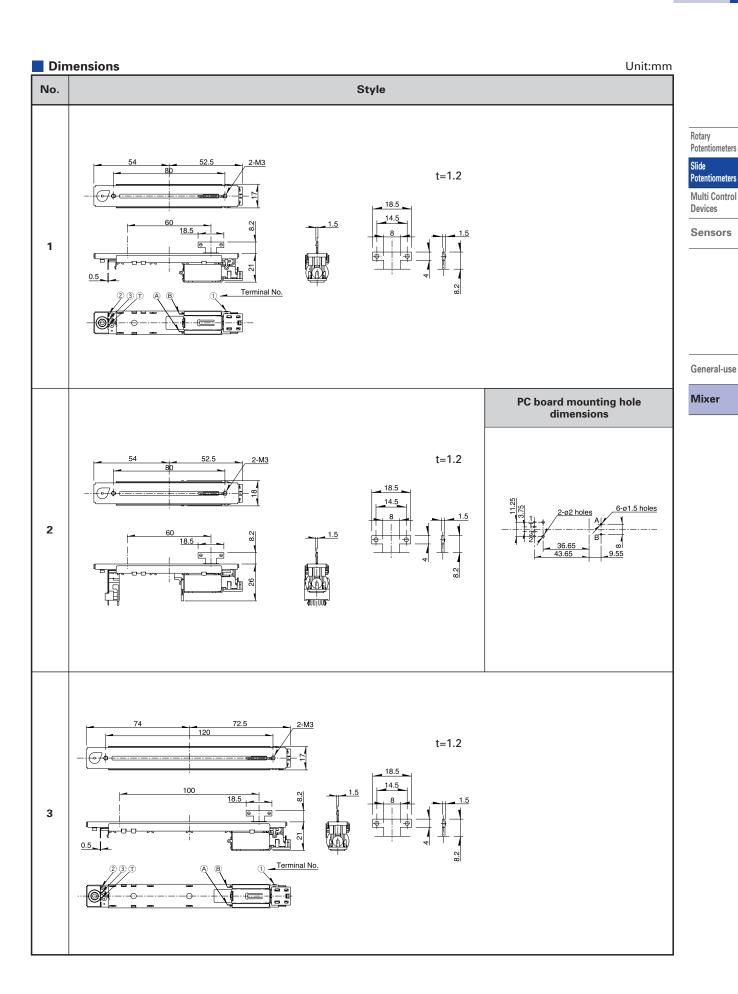
Items	Specifications		
items	Motor N fader	Motor K fader	
Total resistance tolerance	±20%		
Maximum operating voltage	10V DC, 200V AC (Travel : 60mm) 10V DC, 500V AC (Travel : 100mm)		
Operating force	0.3 to 1.3N	0.15 to 0.65N	
Operating life	30,000cycles	CP type : 300,000cycles	
Operating temperature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

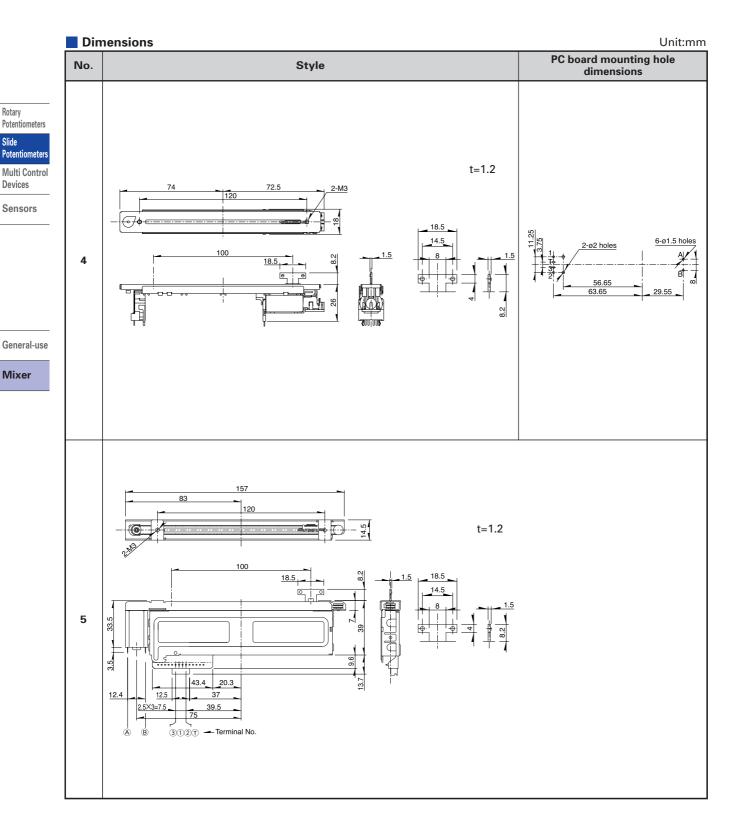
#### Recommended Products List

Number of resistor elements	Travel (mm)	Туре	Lever type	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Terminal style	Touch sense track	Minimum packing unit (pcs.)	Products No.	Drawing No.
	60						Lead			RS60N11M9A05	1
	00	Motor N Fadar					For PC board			RS60N11M9A08	2
Single- unit		Wotor in Fadar	9-T (T-bar)	8.2	10	1B	Lead	With	100	RSA0N11M9A06	3
	100						For PC board			RSA0N11M9A07	4
		Motor K Fadar (CP type)					Connector			RSA0K11V900C	5

### Note

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





Rotary

Slide

# **Product Varieties**

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

#### Products Specifications

	Туре	Travel (mm)	Model	Touch sense track	Terminal
	Motor N fader	60	RS60N11M		For PC board for
Single-unit	Wotor in rader	RSA0N11M		auto dipping Lead	
	Motor K fader CP type	100	RSA0K11V	Available	Fader Terminal : Connector Motor Terminal : Lead
	Motor N fader	60	RS60N12M	Available	Printed wiring for
Dual-unit (Servo+ Audio track)	Motor in rader	400	RSA0N12M		auto dipping Lead
,	Motor K fader CP type	100	RSA0K12V		Fader Terminal : Connector Motor Terminal : Lead

Unit:mm

Rotary Potentiometers Slide **Potentiometers** 

Multi Control **Devices** 

Sensors

## Lever Types

Configuration code	9-T (T-Bar)
Dimensions	t=1.2

General-use

Mixer

#### ■ Total Resistance Variety

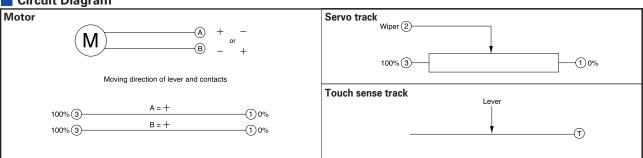
Total resistance (kΩ)	10%	50	100	250

\* Motor K fader: Only 10kΩ

#### Resistance Taper

Resistance	Servo		1B	
taper	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.

# **Orders Other Than Recommended Products**

When ordering product varieties that are not listed in the Recommended Product list, please speficy by referring to the below example.

### Sample Part Number

Rotary Potentiometers Slide

Slide Potentiometers Multi Control

Devices

Sensors

General-use

Mixer

R S 6 0 N

0 N 1 1 M

T 0

B 1 0 3

Travel (mm)

60	60
A0	100

**Number of resistor elements** 

Single-unit	1
Dual-unit	2

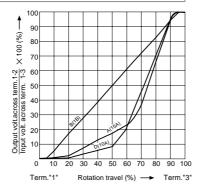
#### Touch sense track

Code	Touch sense track	
T0	T0 Without	
T1	With	

#### Resistance taper

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

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



#### **Total resistance**

Code	Total resistance $(\mathbf{k}\Omega)$
103	10
503	50
104	100
254	250

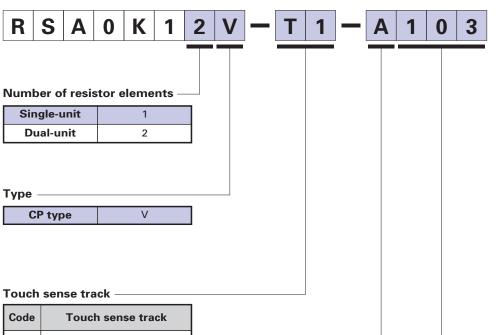
#### Note

marked are specifications recommended by ALPS.

# **Orders Other Than Recommended Products**

When ordering product varieties that are not listed in the Recommended Product list, please speficy by referring to the below example.

### Sample part number

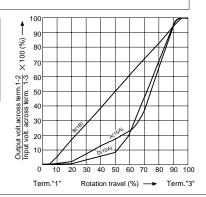


Code	Touch sense track
T0	Without
T1	With

#### Resistance taper

Code	Resistance taper		
В	1B		
Α	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 $(\mathbf{k}\Omega)$
103	10

#### Note

marked are specifications recommended by ALPS.

Rotary Potentiometers

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# **Products Specifications**

RS□N1   RS□N1□M   RS□N1□M   RS□N1□V   RS□N1□V   RS□N1□V   RSA0K1□V   RSA0K	ltem	Master type	Low-profile master type	Motor-driven master type
h36011Llf	Model	RS□□K□□		

Rotary Potentiometers

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General-use

Mixer

Mecha	anical	<b>Performance</b>
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Oper temperat	ating ure range	−10 °C to +60°C		
Operati	ng force	Standard : 0.1 to 0.6N CP Single-unit : 0.05 to 0.35N CP Dual-unit : 0.1 to 0.5N	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 Dual-unit : 0.25 to 0.9N
Stopper	strength		100N	
Lever po		100N 50N		
Lever wol	oble (mm) h side	2(2×L) 25		
Lever de	eviation	0.5mm max. (One side)		
Solder	Manual soldering	350°C max. 3s max.		
heat resistance	Dip soldering			x. 5s max. RSA0K1⊡V∶not available

#### **■ 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	RSN1_M : 10, 50, 100, 250 RSA0K1_V : 10
Total resistance tolerance	±20%		
Resistance taper	15A, 1B, 15C	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

#### Endurance

## Environmental Test

Cold	−30±2°C for 96h	
Dry heat	70±2℃ for 240h	
Damp heat	40±2℃, 90 to 95%RH for 96h	

#### Notes

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