

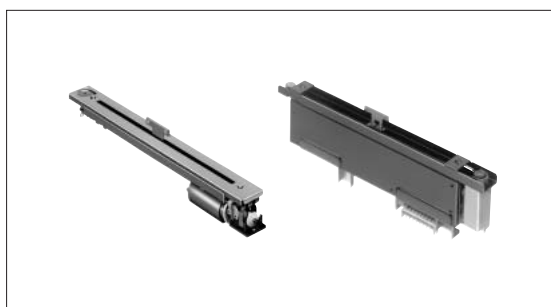
Motor-driven Master Type (Motor N Fader, Motor K Fader)

RS N1 M/RSA0K1 V/RSA0K1 W Series



Provides a superior operational feel and high-speed tracking at motor driving.

Rotary Potentiometers
Slide Potentiometers
 Multi Control Devices
 Rotary Sensors
 Linear Sensors



Features

- Motor driven, low-profile type with a thickness of 22mm.
- Timing belt drive ensures superior trackability at motor driving and an excellent feel in manual mode.
- Available with a touch sensing function.

Applications

- Fader control for mixing console

Typical Specifications

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

Recommended Products List

Number of resistor elements	Travel (mm)	Type	Products No.	Lever type	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Terminal style	Touch sense track	Minimum packing unit (pcs.)	Drawing No.
Single-unit	60	Motor N Fadar	RS60N11M9A05	9-T (T-bar)	8.2	10	1B	Lead	With	100	1
			RS60N11M9A08					For PC board			2
	RSA0N11M9A06		Lead					3			
	RSA0N11M9A07		For PC board					4			
	Motor K Fadar CP type		RSA0K11V900C					Connector			5
	Motor K Fadar Standard type		RSA0K11W9001					Lead			6

Note

Additional product specifications in response to those not included in the above recommended products are also available.

For product varieties, see P.139
 For products specifications, see P.142

Slide Potentiometers for Fader Control of Mixers

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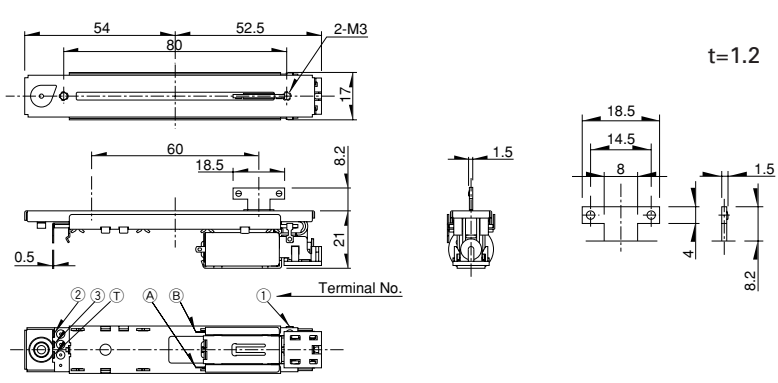
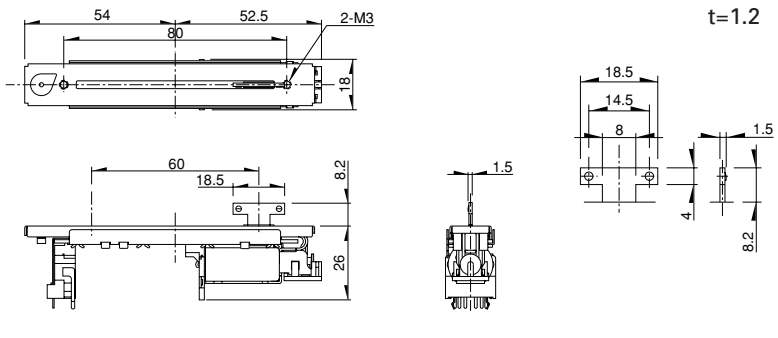
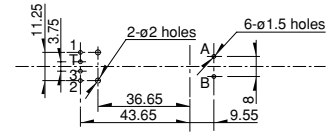
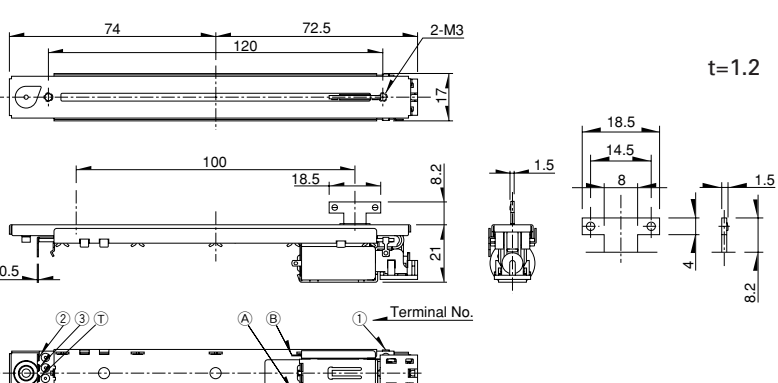
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General-use

Mixer

Dimensions

Unit:mm

No.	Style	
1		
2		<p>PC board mounting hole dimensions</p> 
3		

Slide Potentiometers for Fader Control of Mixers

Motor-driven Master Type (Motor N Fader, Motor K Fader) | RS□□N1□M/RSA0K1□V/RSA0K1□W Series

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
4		
5		
6		

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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	Motor N fader	60	RS60N11M	Available	For PC board for auto dipping Lead
			RSA0N11M		Fader Terminal : Connector
	Motor K fader CP type	100	RSA0K11V		Motor Terminal : Lead
Motor K fader Standard type	RSA0K11W		Lead		
Dual-unit (Servo+ Audio track)	Motor N fader	60	RS60N12M		Printed wiring for auto dipping Lead
			RSA0N12M		Fader Terminal : Connector
	Motor K fader CP type	100	RSA0K12V	Motor Terminal : Lead	
Motor K fader Standard type	RSA0K12W		Lead		

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Lever Types

Unit:mm

Configuration code	9-T (T-Bar)
Dimensions	<p>t=1.2</p>

General-use

Mixer

Electrical Characteristics

Total resistance (kΩ)		10※	50	100	250
Total resistance tolerance		±20%			
Resistance taper	Servo	1B			
	Audio	15A	1B	10A	

※ Motor K fader:Only 10kΩ

Notes

- Shows the specification recommended by us.
- Additional product specifications not included in the above list are also available. Contact us for details.

Orders Other Than Recommended Products

Specify orders for varieties that are not listed in the Recommended Product List, referring to the following example.

Sample Part Number



Travel (mm)

60	60
A0	100

Number of resistor elements

Single-unit	1
Dual-unit	2

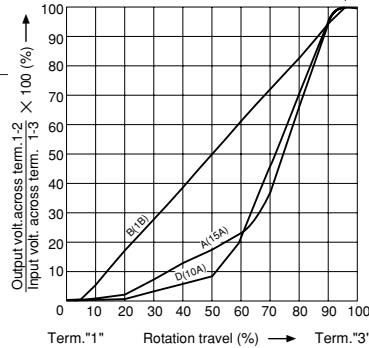
Touch sense track

Code	Touch sense track
T0	Without
T1	With

Resistance taper

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

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
503	50
104	100
254	250

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Orders Other Than Recommended Products

Specify orders for varieties that are not listed in the Recommended Product List, referring to the following example.

Sample part number

R S A 0 K 1 2 V - T 1 - A 1 0 3

Number of resistor elements

Single-unit	1
Dual-unit	2

Type

CP type	V
Standard type	W

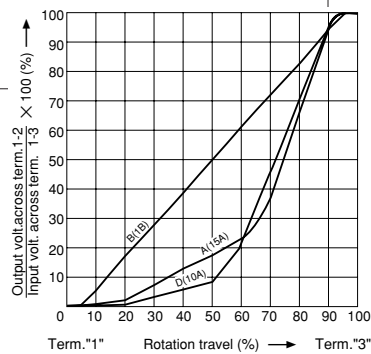
Touch sense track

Code	Touch sense track
T0	Without
T1	With

Resistance taper

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

For two-ganged models, please specify the resistance of the audio track.



Total resistance

Code	Total resistance (kΩ)
103	10

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Products Specifications

Item	Master type	Low-profile master type	Motor-driven master type
Model	RS□□K□□	RS□□N1 RS□□N11S RS6011□Y	RS□□N1□M RSA0K1□V RSA0K1□W

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Mechanical Performance

Operating temperature range	-10 °C to +60°C		
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, RSA0K1□W Single-unit : 0.15 to 0.65N Dual-unit : 0.25 to 0.9N
Stopper strength	100N		
Lever push-pull strength	100N	50N	
Lever wobble (mm) ※Both side	$\frac{2(2 \times L)}{25}$		
Lever deviation	0.5mm max. (One side)		
Solder heat resistance	Manual soldering	350°C max. 3s max.	
	Dip soldering	260°C max. 5s max. RSA0K1□W, 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	RS□□N1□M : 10, 50, 100, 250 RSA0K1□V : 10 RSA0K1□W : 10
Total resistance tolerance	±20%		
Resistance taper	15A, 1B, 15C	RS□□N1 : 15A, 1B, 15C, 10A RS□□N1□S : 15A, 1B, 15C, 10A RS6011□Y : 15A, 1B, 10A	Single-unit : 1B Dual-unit : Servo 1B Audio 15A, 1B, 10A

Endurance

Sliding life	Standard : 100,000 cycles C P : 300,000 cycles	30,000 cycles RSA0K1□V : 300,000 cycles RSA0K1□W : 100,000 cycles
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Environmental Test

Cold	-25°C for 96h
Long-term heat resistance	70°C for 240h
Moisture resistance	40°C ±2°C, 90 to 95%RH for 96h

Notes

- "L" in the "Lever Wobble" column of the above table indicates the length of lever.
- Specifications other than those listed above can be customized.