

Slide Potentiometers for Fader Control of Mixers

Low-profile Master Type (N Fader)

RS□□N Series



Low-profile type with excellent operability contributes to add flexibility in set design.

Rotary Potentiometers
Slide Potentiometers
 Multi Control Devices
 Sensors



Features

- Excellent operational feel from less lever wobble.
- Maximum attenuation of over 110dB.(Compatible to total resistance value of over 10KΩmin.)

Applications

- For fader control in mixing consoles
- For fade control in lighting consoles

General-use
Mixer

Typical Specifications

Items		Specifications
Total resistance tolerance		±20%
Maximum operating voltage		150V AC (RS60N Series) 350V AC (RSA0N Series)
Operating force	Single-unit	0.05 to 0.8N
	Dual-unit	0.05 to 0.9N
Operating life		30,000cycles
Operating temperature range		-10°C to +60°C

Recommended Products List

Number of resistor elements	Travel (mm)	Lever type	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Terminal style	Minimum packing unit (pcs.)	Products No.	Drawing No.
Single-unit	60	9-T (T-Bar)	8.2	10	15A	For PC board	100	RS60N111900H	1
	100							RSA0N111900Q	2
Dual-unit	60							RS60N1219A04	3
	100							RSA0N1219A03	4

Note

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

Refer to P.140 for product specifications.
 Refer to P.140 for details of lever types.
 Refer to P.154 for other detailed specifications.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
1	<p>t=1.2</p>	
2	<p>t=1.2</p>	
3	<p>t=1.2</p>	
4	<p>t=1.2</p>	

Product Varieties

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

Total Resistance Variety

Total resistance (kΩ)	10	50	100	250
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Resistance taper

Resistance taper	15A	1B	10A
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Lever Types

Unit:mm

Configuration code	1	4	9-T (T-Bar)
Dimensions	<p>t=1.2</p>	<p>t=1.2</p>	<p>t=1.2</p>

Terminal layout/Circuit diagram (Viewed from the mounting side)

Single-unit	Dual-unit

Corresponding specification

Dust cover	Available
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Notes

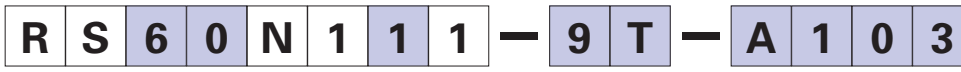
1. marked are specifications recommended by ALPS.
2. Products other than those listed in the above list are also available. Please contact us for details.

Refer to P.141 for resistance taper.

Orders Other Than Recommended Products

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

Sample Part Number



Travel

60	60mm
A0	100mm

Number of resistor elements

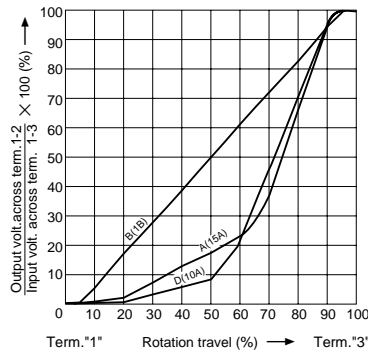
Single-unit	1
Dual-unit	2

Type of operation unit

Code	Configuration code
01	1
04	4
9T	9-T (T-Bar)

Resistance taper

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



Total resistance

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

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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

Mechanical Performance

Operating temperature range	-10 °C to +60°C		
Operating 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 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. RS□□N1□M (Lead type) , 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
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

Sliding life	Standard : 100,000cycles C P : 300,000cycles	30,000cycles
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Environmental Test

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

Notes

- "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.

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