

Low-profile Master Slide Potentiometer (N Fader)

RS□□N Series

The low-profile design with excellent operability contributes to greater degree of freedom in unit design.

- Rotary Potentiometers
- Slide Potentiometers**
- Trimmer Potentiometers
- Multi Control Devices
- Position Sensors



Features

- Excellent operational feel by less lever wobble.
- Allows the maximum attenuation of 110dB.(The local resistance value is 10K min.)

Applications

- Fader control of mixers
- Light console faders

General-use

Mixer

Typical Specifications

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

Recommended Products List

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

Note

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

For product specifications, see P.139
 For details of lever types, see P.139
 For other detailed specifications, see P.156

Product Specifications

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

Low-profile Master Slide Potentiometers (N fader) Specifications

Type	Travel (mm)	Model	Dust cover	Terminal
Single-unit	60	RS60N11	Available	For printed wiring For lead wiring
	100	RSA0N11		
Dual-unit	60	RS60N12		
	100	RSA0N12		

Lever types

Unit : mm

Configuration code	1	4	9-T (T-Bar)
Dimensions			

Electrical Characteristics

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

Note

Additional product specifications not included in the above list are also available. Contact us for details.

Rotary Potentiometers

Slide Potentiometers

Trimmer Potentiometers

Multi Control Devices

Position Sensors

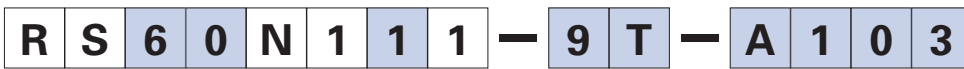
General-use

Mixer

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

60	60mm
A0	100mm

Number of resistor elements

Single	1
Dual	2

Type of operation unit

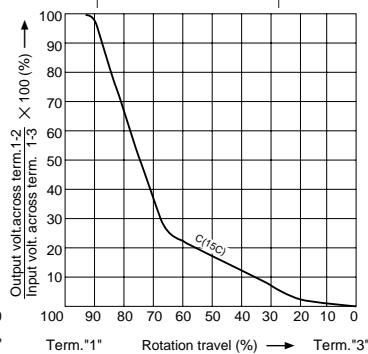
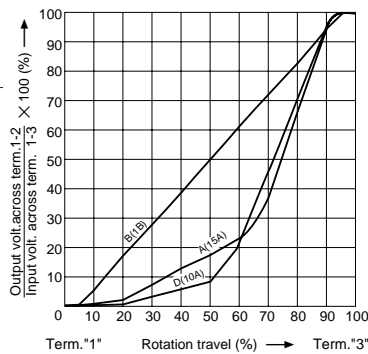
See page P139.

1 : 01、4 : 04、9-T : 9T
(T-Bar)

For "9-T", omit "-" (hyphen) when making the entry.

Resistance taper

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



Total resistance

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

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Dimensions

Unit : mm

No.	Style	PC board mounting hole dimensions
1		
2		
3		
4		

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

Mechanical Characteristics

Operating temperature range	-10 °C to +60°C		
Solder heat resistance	Manual soldering	350°C or less and within 3 seconds	
	Dip soldering	260°C or less and within 5 seconds RSA0K1□W, RSA0K1□V : not available	
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 0.2N 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	$2\left(\frac{2 \times L}{25}\right)$		
Lever deviation	0.5mm max. (One side)		
Solderability	230±5°C、3±0.5s		

Electrical Characteristics

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

Durability

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 16h
Long-term heat resistance	+70°C for 240h
Moisture resistance	+40°C、90 to 95%RH for 96h

Notes

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