

Master Type Slide Potentiometer (K Fader)

RS□□K Series

This series achieves a good operational feel with minimum lever wobble and high precision characteristics.

Rotary Potentiometers
Slide Potentiometers
 Trimmer Potentiometers
 Multi Control Devices
 Position Sensors



General-use
Mixer

Features

- A small lever wobble provides an excellent operational feel and high precision characteristics.(gang, error, taper, etc.)
- Blind structure using a crank lever.
- Available with a micro switch.
- CP(inconductive plastic) type provides the sliding life of 300,000 cycles.

Applications

- Master volume control in high-grade audio equipment, fader for studio mixer, etc.

Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	350V AC, 20V DC
Operating force	0.1 to 0.6 N
Operating life	100,000 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	Minimum packing unit (pcs)	Drawing No.
Single-unit	60	RS60K11A9000	9-T (T-Bar)	8.2	10	15A	100	1
	100	RSA0K11A900L						2
Dual-unit			RSA0K12A1003	1	12			3

Notes

1. Additional product specifications in response to those not included in the above recommended products are also available.
2. For products ready for use with RoHS, contact our sales division.

For product specifications, see P.135
 For details of lever types, see P.135
 For other detailed specifications, see P.156

Product Specifications

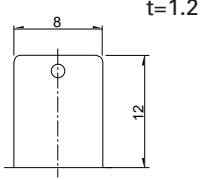
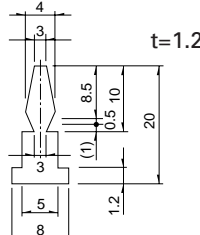
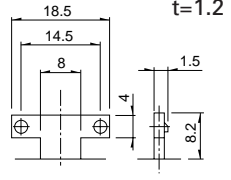
In addition to the recommended products, the following specifications can also be accommodated.

Master Type Slide Potentiometers Specifications

Type		Travel	Model	Terminal style		Sliding life	Micro switch
Standard type	Single-unit	60,100mm	RS60K11	Lead type		100,000 cycles	Available
	Dual-unit		RSA0K11				
			RS60K12				
CP type	Single-unit		RSA0K12	Connector type	JST S4B-EH	300,000 cycles	
			RS60K11		JST S9B-EH		
	Dual-unit		RSA0K11				
		RSA0K12					

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Lever Types

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

General-use
Mixer

Mechanical Characteristics

Operating force	CP Single-unit : 0.05 to 0.35N CP Dual-unit : 0.1 to 0.5N
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Electrical Characteristics

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

※CP type : Only 10 kΩ

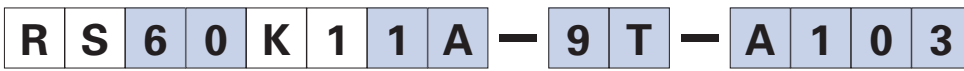
Note

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

60	60mm
A0	100mm

Number of resistor elements

Single	1
Dual	2

Resistor element type, and presence of micro switch.

Code	Resistor elements Standard type	Code	Resistor elements CP type
A	Without micro switch	K	Without micro switch
B	With micro switch	L	With micro switch

Type of operation unit

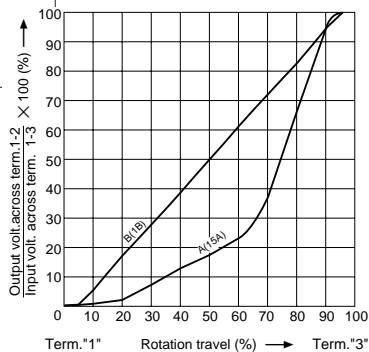
See page P135.

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



Total resistance

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

※CP type : Supports 10 kΩ only.

Note

Shows the specification recommended by us.

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Dimensions

Unit : mm

No.	Style	
1		
2		
3		

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.