

Low-profile Master Slide Potentiometer (Super Y Fader)

RS6011□Y Series

Compactness and good operational feel, suitable for mixer faders.

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



Features

- Auto-dipping can be performed.
- Maximum attenuation can be 100 dB or more (Total resistance of 10 kΩ or more).

Applications

- Low-end mixer faders

General-use

Mixer

Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	10V DC
Operating force	0.1 to 2.0 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	Minimum packing unit (pcs.)
Single-unit	60	RS6011SY6002	6	15	10	10A	100
		RS6011SY6008			20	15A	
Dual-unit		RS6011DY6002			10	10A	
		RS6011DY6009			20	15A	

Note

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

For product specifications, see **P.147**
 For details of lever types, see **P.147**
 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 Potentiometer (Super Y Fader) Specifications

Type	Travel (mm)	Model	Dust cover	Mounting plate
Single-unit	60	RS6011SY	Available	Available
Dual-unit		RS6011DY		

Rotary Potentiometers

Slide Potentiometers

Trimmer Potentiometers

Multi Control Devices

Position Sensors

General-use

Mixer

Lever types Unit : mm

Configuration code	6 (Metal lever)
Dimensions	
L_1 Length	15

Electrical Characteristics

Total resistance ($k\Omega$)	10	20	50
Total resistance tolerance	$\pm 20\%$		
Resistance taper	15A	1B	10A

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

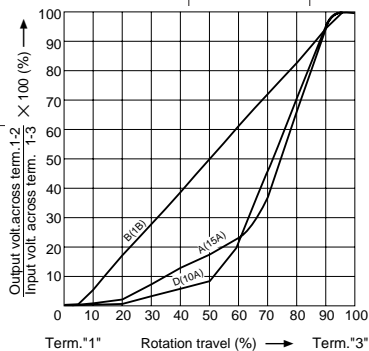


Number of resistor elements

Single	S
Dual	D

Resistance taper

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



Total resistance

Code	Total resistance (kΩ)
103	10
203	20
503	50

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

General-use

Mixer

Dimensions

Unit : mm

Style	PC board mounting hole dimensions
<p style="text-align: right;">t=1.2</p>	<p>The RS6011SY uses lug terminals for terminals 1' 2' 3'.</p>

Rotary Potentiometers

Slide Potentiometers

Trimmer Potentiometers

Multi Control Devices

Position Sensors

General-use

Mixer

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
---------------------	---------------------------------------------------	-------------------------------------------------------------------------

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.

Resistance Taper

[Resistance Taper]

With the shaft (lever) placed in the specified position, resistance taper shall be determined by measuring the voltage between the specified terminals (between terminals 1 and 2 or between terminals 2 and 3) and calculating the percentage in reference to the voltage between terminals 1 and 3.

Reference: Standard resistance tapers in reference to rotational angles (travels) are as shown below.

