

Slide Potentiometer Illuminated Type (Single-unit Type)

RS602 Series



Ideal for audio equipment, available in three LED colors - red, orange and green.



Features

- Available with tap.
- Also available in snap type.
- Available in red, orange and green LED colors.

Applications

- For in-car heater control
- For various control in audio equipment

Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	200V AC, 10V DC
Operating force	0.3 to 2.5N
Operating life	5,000cycles
Operating temperature range	−25℃ to +70℃

Recommended Products List

Number of resistor elements	Travel (mm)	Length of lever (mm)	LED color	Total resistance (kΩ)	Resistance taper	Center detent	Mounting plate	Minimum packing unit (pcs.)	Products No.
Single-unit	60	15	Green	10	1B	Without	Without	100	RS602111LA02
						With			RS602113LA05

Note

Dust covers are also available. Please contact us for details.

Dimensions

Unit:mm

Style	PC board mounting hole dimensions

Refer to **P.126** for product varieties.
The length of the operating part (L₁) can be customized. Refer to **P.126** for details.
Refer to **P.129** for product specifications.

Product Varieties

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

Total Resistance Variety

Total resistance (kΩ)	10	20	50	100	200
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Resistance Taper

Resistance taper	1B	4B
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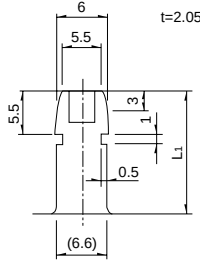
Note

DC (10VDC) is also available. (Tapped types are not available)

LED Color

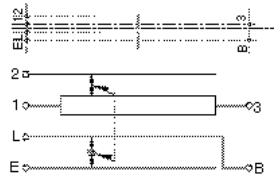
LED color	Red	Orange	Green
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Lever Types

Dimensions		
Length L ₁	10	15

Unit:mm

Terminal layout/Circuit diagram


L:Lug terminal B (+), E (-) Terminal side:LED circuit

Corresponding Specifications

Resistance taper	1B, 4B
Tap	Available (Only the center-positioned)

Notes

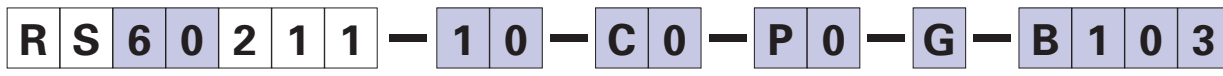
- 1. marked are specifications recommended by ALPS.
- 2. Products other than those listed in the above list are also available. Please contact us for details.

Refer to P.127 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 (mm)

60

Length of operation unit

Code	Length (mm)
10	10
15	15

Detent

Code	Detent
C0	Without
C1	Center

See page P.128

Mounting plate

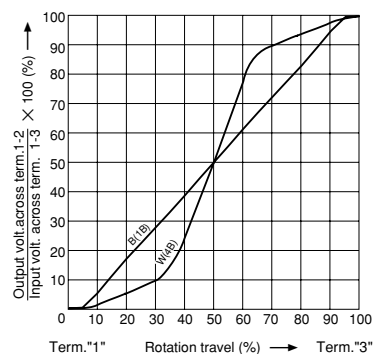
Code	Mounting plate
P0	Without
P1	With

LED color

Code	Color
R	Red
O	Orange
G	Green

Resistance taper

Code	Resistance taper
B	1B
W	4B



Total resistance

Code	Total resistance (k Ω)	Code	Total resistance (k Ω)
103	10	104	100
203	20	204	200
503	50		

Note

marked are specifications recommended by ALPS.

Products Specifications

Type	Compact reflow type	Long-life, Compact type	Illuminated type Single-unit type
Model	RS06U	RD7097	RS60211

Rotary
PotentiometersSlide
PotentiometersMulti Control
Devices

Sensors

General-use

Mixer

Mechanical Performance

Operating temperature range		-10°C to +70°C		-25°C to +70°C
Operating force		0.34N±0.15N	0.5N max	0.3 to 2.5N
Stopper strength		15N	10N	50N
Lever push-pull strength		10N		
Lever wobble (mm) ※Both sides		———	1.4 max.	3 max.
Detent slip-out force		Without		Operating force+(0.2 to 2N)
Lever deviation (mm) ※One sides		———	0.3 max.	0.5 max.
Solder heat resistance	Manual soldering	350°C max. 3s max.		
	Dip soldering	———	260°C max. 5s max.	
	Reflow soldering	250°C, 3s max.	———	

Electrical Performance

Total resistance (kΩ)	30	10, 20, 50, 100, 200
Total resistance tolerance	±30%	±20%
Resistance taper	Linear (B)	1B, 4B

Endurance

Sliding life	10,000cycles	2,000,000cycles	5,000cycles
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Environmental Test

Cold	-30±2°C for 240h	-30±2°C for 96h	
Dry heat	70±2°C for 240h	80±2°C for 96h	70±2°C for 96h
Damp heat	40±2°C, 90 to 95 % RH for 240h	60±2°C, 90 to 95 % RH for 96h	40±2°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. Products other than those listed in the above list are also available. Please contact us for details.
3. The resistance taper specification in () are individually defined.

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