

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



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 to + 60 |

General-use

Mixer

Product Line

| 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 products are also available. Please contact us for details.

Refer to P.430 for details of lever types.
Refer to P.430 for other detailed specifications.

Dimensions

Unit:mm

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

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Product Varieties

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

Total Resistance Variety

| | | | | |
|-----------------------|----|----|-----|-----|
| Total resistance(k) | 10 | 50 | 100 | 250 |
|-----------------------|----|----|-----|-----|

Resistance Taper

| | | | |
|------------------|-----|----|-----|
| Resistance taper | 15A | 1B | 10A |
|------------------|-----|----|-----|

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 Mounting Side)

| Single-unit | Dual-unit |
|-------------|-----------|
| | |

Corresponding Specification

| | |
|------------|-----------|
| Dust cover | Available |
|------------|-----------|

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.431, 502 for resistance taper.

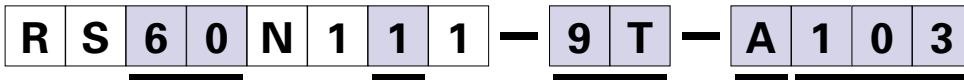
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Orders Other Than Recommended Products

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

Sample Part Number



Travel

| | |
|----|-------|
| 60 | 60mm |
| A0 | 100mm |

Number of resistor elements

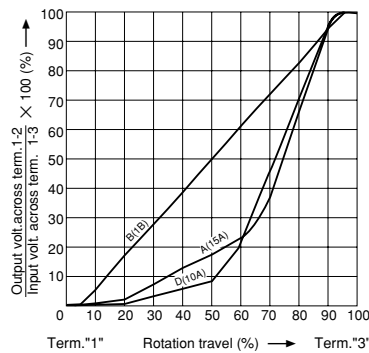
| | |
|-------------|---|
| Single-unit | 1 |
| Dual-unit | 2 |

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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List of Varieties

| Item | Master type | | Low-profile master type | | | | Motor-driven master type | | | | |
|---------------------------|---|-----|---|-----------|---|-----------|---|----------|---|-----------------------|--|
| | RS | K | RS | N1 | RS | N11S | RS6011 Y | RSA0K1 V | RS | N1 M | |
| Photo |  | |  | |  | |  | |  | | |
| Outlined specifications | Travel (mm) | | 60 (RS60N11) 100 (RSA0N11) 100 (RSA0N12) | | 60 (RS60N11S) 100 (RSA0N11S) | | 60 (RS6011SY) 60 (RS6011DY) | | 100 (RSA0K11V) 60 (RS60N11M) 100 (RSA0N11M) | | |
| | Number of resistor elements | | Single-unit | Dual-unit | Single-unit | Dual-unit | Single-unit | | Dual-unit | Single-unit (CP type) | |
| Electrical Performance | Total resistance (k) | | 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 | | |
| | Resistance taper | | 15A, 1B | | | | 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 | | |
| Mechanical Performance | 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 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 | | |
| | Stopper strength | | 100N | | | | | | | | |
| | Lever push-pull strength | | 100N | | | | 50N | | | | |
| | Lever deviation (mm) Both Side | | $\frac{2(2 \times L)}{25}$ | | | | | | | | |
| | Lever deviation | | 0.5mm max. (One side) | | | | | | | | |
| Soldering | Manual soldering | | 350 max. 3s max. | | | | | | | | |
| | Dip soldering | | _____ | | | | 260 max. 5s max. RS N1 M (Lead type), RSA0K1 V : not available | | | | |
| Environmental Performance | Cold | | - 30 ± 2 for 96h | | | | | | | | |
| | Dry heat | | 70 ± 2 for 240h | | | | | | | | |
| | Damp heat | | 40 ± 2 , 90 to 95%RH for 96h | | | | | | | | |
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Notes

1. Attenuation is specified for residual resistance.
2. "L" in the "Lever Wobble" column of the above table indicates the length of lever.
3. Products other than those listed in the above list are also available. Please contact us for details.

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