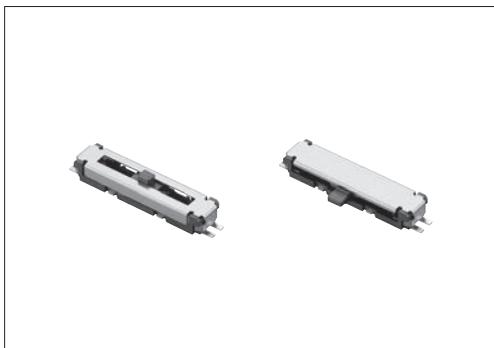




## ■ Product Line



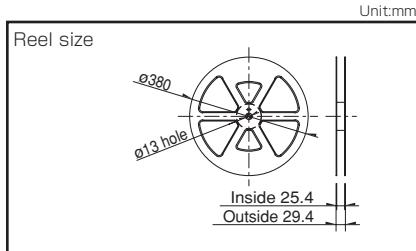
## ■ Typical Specifications

Items	Specifications
Total resistance tolerance	$\pm 30\%$
Maximum operating voltage	5V DC
Operating force	$0.17 \pm 0.15\text{N}$
Operating life	10,000 cycles
Operating temperature range	$-10^\circ\text{C}$ to $+70^\circ\text{C}$

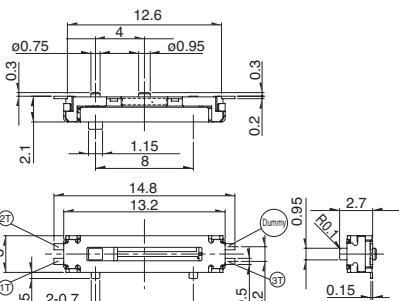
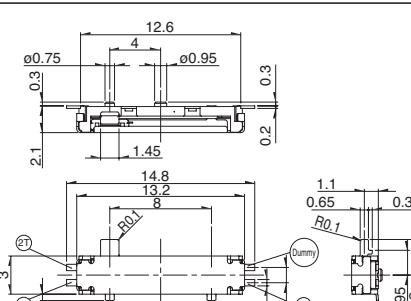
## ■ Packing Specifications

## Taping

Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case /Japan	1 case /export packing		
1,500	9,000	9,000	24	405×405×228



## ■ Dimensions

No.	Photo	Style	PC board mounting hole (Viewed from mounting side)
1	Vertical		
2	Horizontal		

Refer to P.438 for soldering conditions.

# Slide Potentiometers

## List of Varieties

Type	Standard Type				Master Type
Series	Super Slide™	Slim Slide™ (Slim4)		Compact Reflow Type	K Fader
	<b>RS □□ 1</b>	<b>RS □□ H</b>		<b>RS08U</b>	<b>RS □□ K</b>
	Single-unit/Dual-unit	Single-unit/Dual-unit		Single-unit	Single-unit/Dual-unit
Photo					
Travel (mm)	15, 20, 30, 45, 60	15, 20, 30		8	60, 100
Direction of lever	Vertical		Horizontal	Vertical	Horizontal
Lever material	Metal / Resin	Resin			Metal
Operating temperature range	-25°C to +70°C			-10°C to +70°C	-10°C to +60°C
Operating life	15,000 cycles	10,000 cycles			100,000 cycles (Standard) 300,000 cycles (CP)
Available for automotive use		—	—	—	—
Life cycle (availability)					
Electrical performance	Total resistance (k Ω)	10, 20, 50, 100, 200	5, 10, 20, 50, 100, 200, 250		10 10, 50, 100(Standard) 10 (CP)
	Resistance taper	10A, 15A, 1B, 3B, 4B	15A, 1B, 3B		1B 15A, 1B
	Rated Power	Please see P.395	Please see P.402		0.025W 0.25W
	Insulation resistance	100MΩ min. 250V DC	Dual-unit: 100MΩ min. 250V DC		100MΩ min. 100V DC 100MΩ min. 250V DC
	Voltage proof	300V AC for 1 minute	Dual-unit: 300V AC for 1 minute		100V AC for 1 minute 250V AC for 1 minute
	Center-taps	Without / With			Without
Mechanical performance	Operating force	0.3 to 2.5N	0.6 <sup>+0.5</sup> <sub>-0.4</sub> N		0.17±0.15N Please see P.408
	Center detent	Without / With			Without
	Stopper strength	50N	30N		5N 100N
	Lever push-pull strength	50N	30N		5N 100N
	Lever wobble (mm) ※ Both sides	$2(2\times L)$ 20	1.6 max.		— $2(2\times L)$ 25
	Detent slip-out force	Operating force + (0.2 to 2N)	Operating force +0.3 <sup>+0.5</sup> <sub>-0.25</sub> N		— —
	Lever deviation (mm) ※ One side	0.5 max.	—	—	0.5 max.
Terminal style	Insertion			Reflow	Lead (Standard) Connector (CP)
Page	401	410			416 417

Slide Potentiometers Soldering Conditions	438
Potentiometer Cautions	439
Potentiometers Measurement and Test Methods	441
Potentiometers Resistance Taper	443

### Notes

1. "L" in the "Lever Wobble" column of the above table indicates the length of lever.
- 2.
3. Indicates applicability to some products in the series.

# Slide Potentiometers / Soldering Conditions

## ■ Reference for Manual Soldering

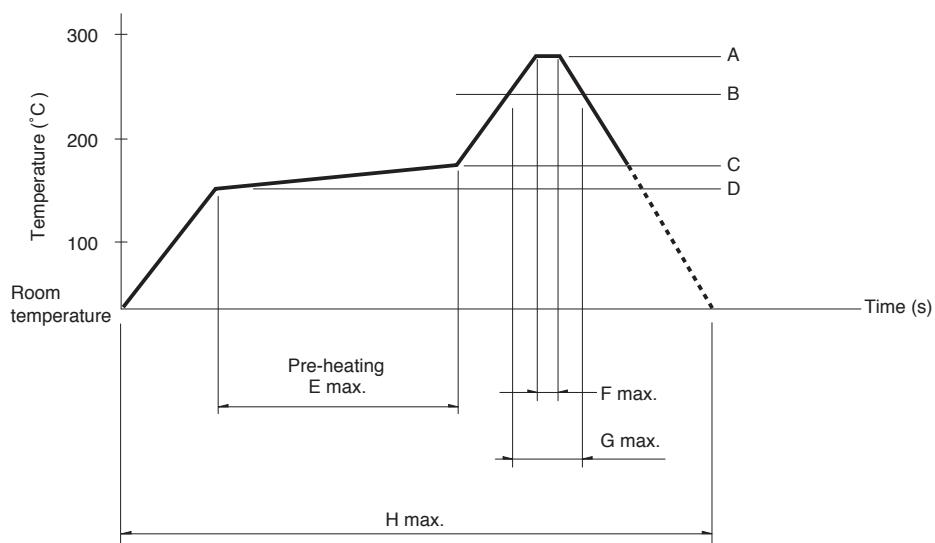
Series	Tip temperature	Duration of Soldering time	No. of solders
<b>RS□□1, RS□□H, RS08U, RS□□K (Standard), RS□□N, RS□□N1S, RS6011□P, RS□□N1□M, RSA0K1□V (Motor terminal)</b>	350°C max.	3s max.	1 time

## ■ Reference for Dip Soldering

Series	Preheating		Dip soldering		Number of soldering
	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	
<b>RS□□1, RS□□H, RS□□N, RS□□N1S, RS6011□P, RS□□N1□M</b>	100°C max.	1 min. max.	260°C	5s max.	1 time

## ■ Example of Reflow Soldering Condition

Temperature profile



Series	A	B	C	D	E	F	G	H	No. of reflows
<b>RS08U</b>	250°C	200°C	150°C	150°C	2 min.	3s	40s	4 min.	1 time

### Notes

1. When using an infrared reflow oven, solder may sometimes not be applied. Be sure to use a hot air reflow oven or a type that uses infrared rays in combination with hot air.
2. The temperatures given above are the maximum temperatures at the terminals of the potentiometer when employing a hot air reflow method. The temperature of the PC board and the surface temperature of the potentiometer may vary greatly depending on the PC board material, its size and thickness. Ensure that the surface temperature of the potentiometer does not rise to 250°C or greater.
3. Conditions vary to some extent depending on the type of reflow bath used. Be sure to give due consideration to this prior to use.

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