











# Slide Potentiometers

## List of Varieties

Type		Standard Type			Master Type	
Series		Super Slide™	Slim Slide™ (Slim4)		Compact Reflow Type	K Fader
		RS □□ 1	RS □□ H		RS08U	RS □□ K
		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	Vertical
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	$\frac{2(2 \times L)}{20}$	1.6 max.		—	$\frac{2(2 \times L)}{25}$
	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

- "L" in the "Lever Wobble" column of the above table indicates the length of lever.
- RS □□  indicates travel.
- Indicates applicability to some products in the series.

# Slide Potentiometers

## List of Varieties

Type		Low-profile master type			Motor-driven master type			
Series		N Fader	Slim Type	Super P Fader	Motor N Fader	Motor K Fader	Motor V Fader	
		RS □□ N	RS □□ N1S	RS6011 □ P	RS □□ N1 □ M	RSA0K1 □ V	RSA0V11M	
Photo								
Travel (mm)		60, 100		60	60, 100	100		
Direction of lever		Vertical						
Lever material		Metal					Resin	
Operating temperature range		-10°C to +60°C						
Operating life		30,000 cycles				300,000 cycles	100,000 cycles	
Available for automotive use		—	—	—	—	—	—	
Life cycle								
Electrical performance	Total resistance (k Ω)	10, 50, 100, 250		10, 20, 50	10, 50, 100, 250	10		
	Resistance taper	15A, 1B, 10A			Single-unit: 1B Dual-unit: Servo 1B Audio 15A, 1B, 10A		1B	
	Rated Power	0.1W (RS60N) 0.25W (RSA0N)	0.2W (RS60N1S) 0.5W (RSA0N1S)	0.2W (Single-unit) 0.1W (Dual-unit)	0.2W (RS60N1□M) 0.5W (RSA0N1□M)	0.5W		
	Insulation resistance	100MΩ min. 250V DC						
	Voltage proof	250V AC for 1 minute						
	Center-taps	Without						
Mechanical performance	Operating force	Single-unit: 0.3 <sup>+0.5</sup> <sub>-0.25</sub> N Dual-unit: 0.4 <sup>+0.5</sup> <sub>-0.35</sub> N	0.3 <sup>+0.5</sup> <sub>-0.25</sub> N	0.5 <sup>+1.0</sup> <sub>-0.4</sub> N	0.8±0.5N	Single-unit: 0.4±0.25N Dual-unit: 0.25 to 0.9N	—	
	Center detent	Without						
	Stopper strength	100N					10N	
	Lever push-pull strength	50N					5N	
	Lever wobble (mm) * Both sides	$\frac{2(2 \times L)}{25}$						
	Lever deviation (mm)	0.5 max. (One side)						
Terminal style		Insertion			Lead, Insertion	Connector(Fader) Lead (Motor)	Connector	
Page		422	426	429	432			

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

### Notes

- Attenuation is specified for residual resistance.
- "L" in the "Lever Wobble" column of the above table indicates the length of lever.