

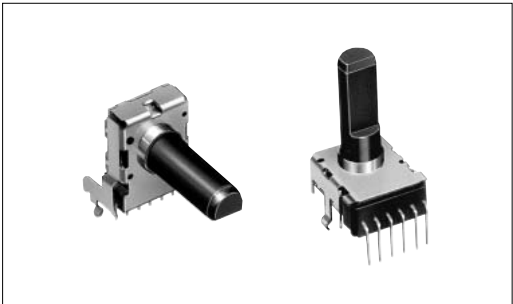
Insulated Shaft Potentiometer
12mm Size Insulated Shaft Snap-in Type
RK12L Series

RoHS
compliant

High performance 12mm width type.

Rotary Potentiometers

Slide Potentiometers



Typical Specifications

Items	Specifications
Total resistance tolerance	± 20%
Maximum operating voltage	50V AC for AC only
Total rotational angle	300 ± 5 °
Rotational torque	2 to 15mN・m
Operating life	15,000cycles
Operating temperature range	- 10 to + 70

Metal Shaft

Insulated Shaft

Knob Operating


Product Line

Number of resistor elements	Mounting direction	Shaft type	Length of the shaft LM.(mm)	Center detent	Total resistance (kΩ)	Resistance taper	Application	Minimum order unit (pcs.)	Products No.	Drawing No.		
Dual-unit	Vertical type	Flat	20	Without	50	1B	For tone	1,000	RK12L1230C0K	2		
			30		10	15A		800	RK12L1230C0T			
			25	With	20	1B			RK12L1230C1M			
			30		50				RK12L123000E			
	Horizontal type		30	Without	10	15A		1,200	RK12L1210C0R	1		
	Vertical type		15		50	15C	For vol.		800	RK12L12C0C0V	2	
			25		10	15A				RK12L12C0A0E		
			30		20					RK12L12C0A0G		
					10					RK12L12C0A0A		
	Horizontal type		30		10			RK12L12A0C0R	1			

Note

Products other than those listed in above products are also available. Please contact us for details.

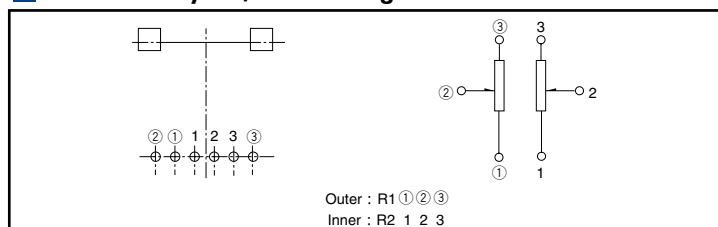
■ Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from mounting side)
1	Horizontal type without bushing RK12L121(For tone control) RK12L12A(For vol. control) 		

Rotary
PotentiometersSlide
PotentiometersMetal
ShaftInsulated
ShaftKnob
Operating

■ Terminal Layout/Circuit Diagram



■ Product Varieties

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

■ Total Resistance Variety

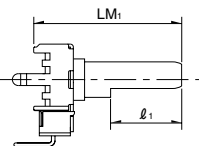
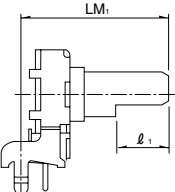
Total resistance(k Ω)	5	10	20	50	100	200
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■ Resistance Taper

Resistance taper	15A	1B	3B	15C
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■ Shaft Variety

Unit:mm

Style		Vertical type		Horizontal type	
					
Shaft variety	LM ₁	15	20	25	30
	ℓ ₁	4.5	7	12	12

■ Note

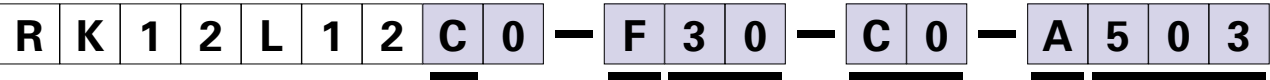
marked are specifications recommended by ALPS.

Refer to P.380, 502 for resistance taper.

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



Model type

Code	Model type
1	Horizontal type for tone
3	Vertical type for tone
A	Horizontal type for vol.
C	Vertical type for vol.

Shaft type

Code	Shaft type
F	Flat

* Only available in flat format.

Length of the shaft (LM, X mm)

Code	Length of the shaft	Code	Length of the shaft
15	15	25	25
20	20	30	30

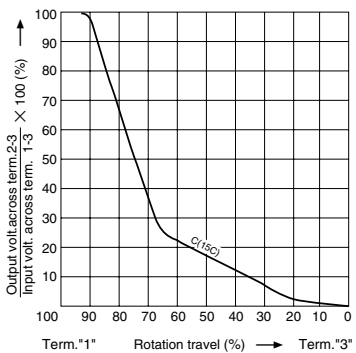
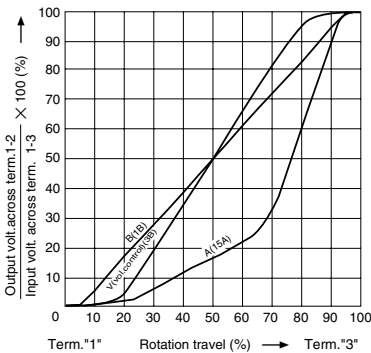
Detent

Code	Center detent
C0	Without
C1	With

Resistance taper

Code	Resistance taper	Code	Resistance taper
A	15A	C	15C
B	1B	V	3B

B: For tone & general (Model type : 1,3)
V: For vol. (Model type : A,C)



Total resistance

Code	Total resistance (kΩ)	Code	Total resistance (kΩ)
502	5	503	50
103	10	104	100
203	20	204	200

Note

marked are specifications recommended by ALPS.

List of Varieties

Items			Type	9mm Size Insulated Shaft Snap-in		11mm Size Insulated Shaft Snap-in	12mmSize Insulated Shaft Snap-in	14mm Size Insulated Shaft Snap-in	9mm Size Insulated shaft Long-life
			Model	RK09K11 □ RK09D11 □	RK09K12 □	RK11K11 □	RK12L12 □	RK14K12 □	RK09Y11L
			Single-unit	Dual-unit	Single-unit	Dual-unit		Single-unit	
Photo									
Bushing			Without		With/Without	Without	With/Without	Without	
Electrical performanceElectrical	Total resistance tolerance		± 20%	± 30%	± 20%			± 30%	
	Maximum operating voltage		50V AC 20V DC	50V AC For AC only	50V AC 20V DC	50V AC For AC only		50V AC 5V DC	
	Insulation resistance		100MΩ min. 250V DC		100MΩ min. 500V DC	100MΩ min. 250V DC			
	Voltage proof		250V AC for 1minute		500V AC for 1minute	300V AC for 1minute		250V AC for 1minute	
	Gang error		—	- 40dB to 0dB 3dB max.	—	Volume control -40dB to 0dB 3dB max. For tone control within 2dB at center		—	
Mechanical performance	Strength of the actuator	Stopper strength	0.3N・m		Without bushing 0.5N・m With bushing 0.6N・m	0.5N・m	0.6N・m	—	
		Push-pull strength	50N max.		80N max.			30N max.	
	Vibration		10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z and for 2 hours respectively						
	Resistance to soldering heat	Manual soldering	350 max. 3s max.						
		Dip Soldering	—			260 max. 5s max.	—		
Environmental performance	Cold		- 30 ± 2 for 96h					- 30 ± 2 for 240h	
	Dry heat		70 ± 2 for 96h			70 ± 2 for 240h	70 ± 2 for 96h	70 ± 2 for 240h	
	Damp heat		40 ± 2 , 90 to 95% RH for 96h					40 , 90 to 95% RH for 240h	
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Rotary Potentiometers

Slide Potentiometers

Metal Shaft

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Knob Operating

- Insulated Shaft Potentiometers Cautions386, 387



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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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