### ■ Typical Specifications

Items	Specifications		
Total resistance tolerance	±20%		
Maximum operating voltage	50V AC, 20V DC		
Total rotational angle	300°±5°		
Rotational torque	3 to 20mN·m		
Operating life	15,000 cycles		
Operating temperature range	-10℃ to +70℃		

### Product Line

	Number of	Control part	Shaft	Length of the shaft LM <sub>1</sub> (mm)	Center detent	Total resistance (k Ω)	Resistance	Minimum order unit (pcs.)		Products No.	Drawing		
	resistor elements	orientation	type				taper	Japan	Export	1 Toddots No.	No.		
		Vertical	Vertical			Without		15A			RK11K1140AHZ	1	
	Single-unit			Flat 22.5 With Without With	With	10	1B	- 1,000	1,000 2,000	RK11K1140097	'		
(20V DC)	Llovinoutol	Horizontal	riat		Without		15A			RK11K1120A13	2		
			Horizontal		With	1	1B			RK11K112000P			

- 1. Other varieties are also available. Refer to "Other Specifications" (P.320).
- 2. Nut and washer are not attached. Please specify if required.

### Packing Specifications

Tray

Number of pa	Export package		
1 case / Japan	1 case / export packing	measurements (mm)	
1,000	2,000	543×377×250	

#### Dimensions

PC board mounting hole dimensions (Viewed from mounting side) No. Photo Style Vertical RK11K114 Shaft shown in full CCW position Horizontal Shaft shown in full CCW position RK11K112

> Refer to P.320 for other specifications. Refer to P.321 for ordering products not listed. Refer to P.331 for soldering conditions.

# 11mm Size Insulated Shaft Snap-in Type / Other Specifications

In addition to the Product Line, we accommodate the following specifications. Combinations not included in the Product Line are treated as semi-standard products.

### ■ Total Resistance Variety

Total resistance (k Ω) 5 10 20 50 100 200	Total resistance (k Ω)	5	10	l 20		100	200
---	------------------------	---	----	------	--	-----	-----

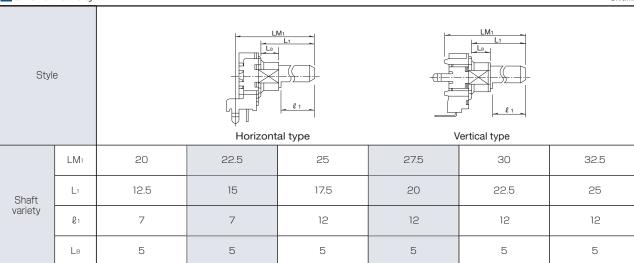
# Resistance Taper

Resistance taper	15A	1B	3B	15C

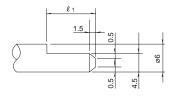
### ■ Tapped Types are Also Available

RK11K (single-unit) is also available with tap.

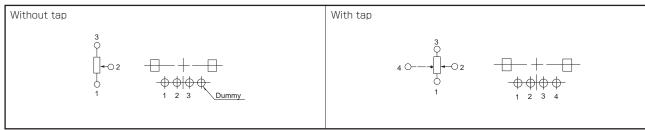
Shaft Variety



Detail dimensions



### Terminal Layout / Circuit Diagram



Note

Marked are specifications recommended by Alps Alpine.

In addition to the Product Line, we accommodate the following specifications. Combinations not included in the Product Line are treated as semi-standard products. Please refer to the notation example below.

### Sample Part Number



### Model type -

Code	Model type
2	Horizontal
4	Vertical

#### Shaft type

	-3
Code	Shaft type
F	Flat

<sup>\*</sup>Only available in flat format.

## Length of the shaft LM<sub>1</sub> (mm)

Code	Code Length of the shaft		Length of the shaft
20	20	25	25
22	22.5		30
27	27.5	32	32.5

#### Detent -

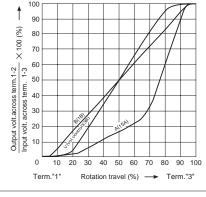
Code	Center detent
CO	Without
C1	With

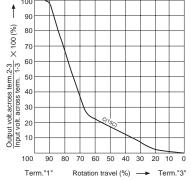
### Resistance taper -

	Code	Code Resistance taper		Resistance taper
	А	15A	С	15C
ĺ	В	B 1B		3B

B: For tone & general

V: For vol.





### Total resistance

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

#### Note

Marked are specifications recommended by Alps Alpine.

Slide

Metal Shaft

Insulated Shaft

Knob

Through Shaft Type

DIII B I YPE

# **Insulated Shaft Potentiometers**

# List of Varieties

Type		9mm	size	11mm size	12mm size 14mm size		
	Series	RK09K11 RK09D11	RK09Y11L	RK11K	RK12L12	RK14K	
		Single-unit	Single-unit	Single-unit	Dual-unit	Dual-unit	
Photo				S			
Control part orientation		Vertical / Horizontal	Horizontal				
	Bushing	With	nout	With Without With			
Operating temperature range			−10°C to +70°C				
С	perating life	5,000 cycles	1,000,000 cycles		15,000 cycles		
Availat	ole for automotive use	_	_	_	-	_	
	Life cycle	<b>★</b> 2	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2	
	Total resistance (k Ω)	5, 10, 20, 50, 100, 200	10	Ę	5, 10, 20, 50, 100, 200	)	
	Resistance taper	15A, 1B, 3B, 15C	В		15A, 1B, 3B, 15C		
	Total resistance tolerance	±20%	±30%	±20%			
	Rated power	0.05W	0.01W	0.05W			
Electrical	Maximum operating voltage	50V AC 20V DC	50V AC 5V DC	50V AC 20V DC	50V AC for AC only		
performance	Gang error	-	-	_	For volume control —40dB to 0dB 3dB For tone control within 2dB max. at ce		
	Insulation resistance	100MΩ mir	n. 250V DC	100MΩ min. 500V DC	100MΩ min. 250V DC		
	Voltage proof	250V AC f	or Iminute	500V AC for 1minute	300V AC for 1minute		
	Center-taps	With	nout	Without / With	Without	Without / With (Volume control)	
	Detent	Without, Center	Without	Without, Center	Without	Without, Center	
Mechanical	Stopper strength	0.3N·m	_	Without bushing 0.5N·m With bushing 0.6N·m	0.5N·m	0.6N·m	
performance	Push-pull strength	50N max.	30N max.	80N max.			
	Vibration			n., the amplitude is 1.5mm for all the frequencies, n of X, Y and Z and for 2 hours respectively			
Sha	ft configuration	Flat type, Knob type, Screwdriver type		Flat t	type		
Т	erminal style			Insertion			
	Page	313 329 (for Mixers)	318	319 329 (for Mixers)	322 329 (for Mixers)	325 329 (for Mixers)	

Note

Indicates applicability to all products in the series.



# Insulated Shaft Potentiometers / Soldering Conditions

## ■ Reference for Manual Soldering

Series	Tip temperature	Soldering time	No. of solders
RK09D, RK09K, RK09Y11L, RK11K, RK12L, RK14K	350℃ max.	3s max.	1 time

## ■ Reference for Dip Soldering

Series	Preheating		Dip soldering		No of colders
	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	No. of solders
RK12L	100℃	1 min. max.	260°C max.	5s max.	2 time max.

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