# 9mm Size Insulated Shaft Long-life Potentiometer

RK09Y11 Series

## A compact, long-life type with a rotational life of 1 million cycles.



## Rotary Potentiometers Slide Potentiometers Trimmer Potentiometers Multi Control Devices

**Position Sensors** 

#### **Features**

- Achieved a rotation life of 1 million cycles with 9.5mm type.
- Provides independent linearity of  $\pm 5\%$ .
- Light rotation torque with a small operational irregularity.

#### Typical Specifications

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	Operating temperature range		−10°C to +70°C		
	Total resistance tolerance		±30%		
Electrical performance	Rated power		0.01W		
	Maximum operating voltage		5V DC		
	Insulation resistance		100MΩ min. 250V DC		
	Voltage proof		1 minute 250V AC		
	Effective variable angle		60°		
	Total rotational angle		300±5°		
	Rotational torque		5mN ∙ m max.		
Mechanical	Strength of the operating section	Stopper strengh	150mN • m		
performance		Push-pull strengh	30N max.		
	Solderability		230±5℃, 3±0.5s		
	Solder heat resistance	Manual soldering	Lower than 350 $^\circ\!C$ for less than 3 seconds		
Endurance	Operating life		1,000,000 cycles		
	Cold		—10°C for 96h		
Environmental test	Long-term heat resistance		+70℃ for 96h		
	Moisture resistance		+40℃±2℃, 90 to 95%RH for 96h		

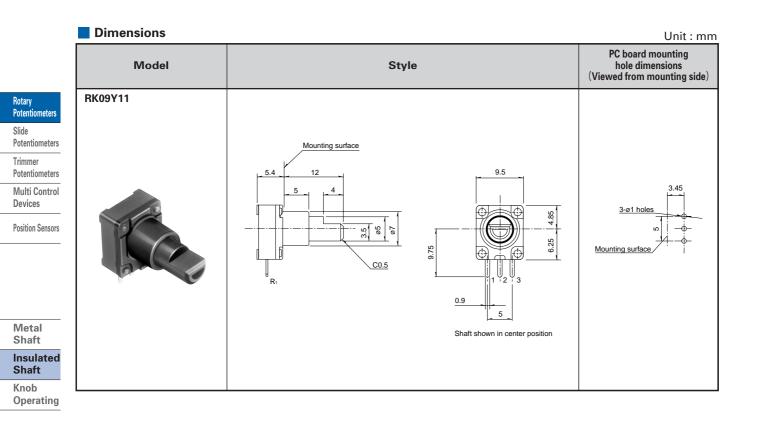
#### Recommended Products List

Number of resistor elements	Products No.	Shaft type	Length of the shaft (mm)	Total resistance (k Ω)	Resistance taper	Minimum packing unit (pcs.)
Single-unit	RK09Y11L0001	Flat	12	10	1B	100

#### Applications

• Game controllers of video game, electronic toy controllers

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## **ALPS**