

Insulated Shaft Potentiometer 9mm Size Insulated Shaft Long-life Type

RK09Y11L Series



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



Typical Specifications

Items	Specifications
Total resistance tolerance	± 30%
Maximum operating voltage	50V AC, 5V DC
Total rotational angle	300 ± 5 °
Rotational torque	5mN·m max.
Operating life	1,000,000cycles
Operating temperature range	- 10 to + 70

Rotary Potentiometers
Slide Potentiometers

Metal Shaft
Insulated Shaft
Knob Operating

Product Line






Number of resistor elements	Shaft type	Length of the shaft (mm)	Total resistance (k)	Resistance taper	Minimum order unit (pcs.)	Products No.
Single-unit	Flat	12	10	1B	3,500	RK09Y11L0001

Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from mounting side)

List of Varieties

Items	Type		9mm Size Insulated Shaft Snap-in	11mm Size Insulated Shaft Snap-in	12mm Size 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 performance	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		100M min. 250V DC		100M min. 500V DC	100M 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	
Page		368		374	378	381	385	

Insulated Shaft Potentiometers Cautions386, 387

Rotary Potentiometers

Slide Potentiometers

Metal Shaft

Insulated Shaft

Knob Operating