RK09Y11L 9mm Size Insulated Shaft Long-life Type

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







Typical openitories				
Items	Specifications			
Total resistance tolerance	±30%			
Maximum operating voltage	50V AC, 5V DC			
Total rotational angle	300° ±5° (Effective electrical rotational angle : 60° ±5°)			
Rotational torque	5mN·m max.			
Operating life	1,000,000 cycles			
Operating temperature range	−10°C to +70°C			

■ Product Line

Number of	Shaft type	Length of the shaft	Total resistance	Resistance	Minimum order unit (pcs.)		Products No.	
resistor elements	Shart type ((mm) (k Ω)	taper	Japan	Export	Floudets No.		
Single-unit	Flat	12	10	В	3,500	7,000	RK09Y11L0001	

Packing Specifications

Bulk

Number of pa	Export package		
1 case / Japan	1 case / export packing	measurements (mm)	
3,500	3,500 7,000		

Dimensions PC board mounting hole dimensions (Viewed from mounting side) Style Mounting surface 3.5 Mounting surface Shaft shown in center position

Insulated Shaft Potentiometers

List of Varieties

Туре		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	Vertical / Horizontal			
	Bushing	Without		With	Without	With	
Operating	g temperature range		-10°C to +70°C				
C	Operating life	5,000 cycles	1,000,000 cycles	15,000 cycles			
Availal	ble for automotive use	_	_	_	-	-	
	Life cycle	* 2	* 2	* 2	* 2	* 2	
	Total resistance (k Ω)	5, 10, 20, 50, 100, 200	10	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			
Floatrical	Maximum operating voltage	50V AC 20V DC	50V AC 5V DC	50V AC 50V AC 20V DC for AC only			
Electrical performance	Gang error	-	_	For volume control —40dB to 0dB 3dB max. For tone control within 2dB max. at center			
	Insulation resistance	100MΩ mir	n. 250V DC	100MΩ min. 500V DC 100MΩ min. 250V DC			
	Voltage proof	250V AC for 1minute		500V AC for 1minute	300V AC for 1minute		
	Center-taps	Without		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		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				
Sha	Shaft configuration Flat type, Knob type, Screwdriver type Flat type						
Т	erminal style			Insertion			
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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

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

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