

RK45B/RK45C Series



This LED illuminated potentiometer is most suitable for knob design of various set devices.

Hollow Shaft Type Devices



Typical Specifications

Items	Specifications
Contact resistance	$\pm 20\%$
Total Rotational angle	RK45B : $180 \pm 5^\circ$ (270 deg. max.) RK45C : $220 \pm 5^\circ$ (290 deg. max.)
Detent torque	RK45B : 55 ± 20 mN·m、 40 ± 16 mN·m RK45C : 40 ± 16 mN·m
Operating life	30,000cycles
Operating temperature range	-40°C to +85°C

Product Line

Total resistance	Resistance taper	Number of positions	Rotational angle	Detent torque (mN•m)	LED	Minimum order unit (pcs.)	Product No.	Drawing No.
5kΩ	B	8	180°	55±20	RED	200	RK45B1A00001	1
		17		40±16			RK45B1A00002	
						220°		400

Notes

1. Products other than those listed in the above chart are also available. Please contact us for details.
2. We can also provide LED colors other than the above mentioned. Contact us if you have such requirements.

Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (View from mounting face)
1			
2			

List of Varieties

Hollow Shaft
Type DevicesEncoder
Type
Potentiometer
Type

Type		Potentiometer			
		39mm size	45mm size		
Series		RK39A	RK45A	RK45B	RK45C
Photo					
Output		Potentiometer			
Outline specifications	Shaft types	Hollow shaft			
	Operating direction	Vertical			
	Number of pulse/ Number of detent	_____			
	Push switch (Travel mm)	Without			
	Optional functions	LED illuminate	_____	LED illuminate	
	Changeover angle	_____			
Dimensions (mm)	W	39	44.5	45	39
	D	40	45	45.5	40
	H	8.5	9	9.5	8.5
Soldering	Manual soldering	350°C max. 3s max.			
	Dip soldering	260±5°C, 5s max.	260°C max. 5s max.		260±5°C, 5s max.
	Reflow soldering	_____			
Operating temperature range		-40°C to +85°C			
Electrical performance	Output wave	_____			
	Insulation resistance	10MΩ min. 50V DC			
	Voltage proof	50V AC for 1minute			
Mechanical performance	Detent torque	40±16mN·m	Shall be in accordance with individual specifications.		40±16mN·m
	Terminal strength	3N for 10s.			
	Actuator strength	Pushing direction	100N		
		Pulling direction	50N		
	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 for 2 hours respectively			
Environmental performance	Cold	-40±3°C for 240h			
	Dry heat	85±3°C for 240h			
	Damp heat	40±2°C, 90 to 95%RH for 240h			
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Note

※ The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.