

# RK39A

## 39mm Size LED Illuminated Ring Type

This LED illuminated ring potentiometer is best suited for knob design of various set devices



### Typical Specifications

Items	Specifications
Contact resistance	±20%
Maximum operating voltage	50V AC, 30V DC
Total rotational angle	180° ±5°, 220° ±5°, 270° ±5° (Customizable up to 290°)
Operating life	30,000 cycles
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.
						Japan	Export		
5kΩ	B	17	220° ±5°	40 ±16	Red	250	500	<b>RK39A1A00007</b>	2
			180° ±5°	50 ±20				<b>RK39A1A00027</b>	1
		6	270° ±5°					<b>RK39A1A00028</b>	2

### Notes

- Other varieties are also available. Please inquire.
- We can also provide LED colors other than the above mentioned. Please contact us if required.

### Packing Specifications

Tray

Number of packages (pcs.)		Export package measurements (mm)
1 case / Japan	1 case / export packing	
250	500	540×360×380

### Dimensions

Unit:mm







No.	Style	PC board mounting hole dimensions (Viewed from mounting side)
1		<b>RK39A1A00027</b> 
2		<b>RK39A1A00007</b> <b>RK39A1A00028</b> 

Refer to P.383 for soldering conditions.

Rotary Potentiometers  
 Slide Potentiometers  
 Metal Shaft  
 Insulated Shaft  
 Knob Operating  
 Through Shaft Type  
 Ring Type

# Ring Type Potentiometers

## List of Varieties

Type		39mm size	45mm size	
Series		<b>RK39A</b>	<b>RK45B</b>	<b>RK45C</b>
		Single-unit	Single-unit	Single-unit
Photo				
Features		LED illuminate		
Dimensions (mm)	W	39	45	
	D	39.5	45.5	
	H	8.5	9.5	
Operating temperature range		-40°C to +85°C		
Operating life		30,000 cycles		
Automotive use		●	●	●
Life cycle				
Electrical performance	Total resistance (k Ω)	5		
	Resistance taper	B		
	Rated power	0.05W		
	Insulation resistance	10MΩ min. 50V DC		
	Voltage proof	50V AC for 1minute		
Mechanical performance	Detent torque	40±16mN·m 50±20mN·m	55±20mN·m 40±16mN·m	40±16mN·m
	Number of positions	6, 17	8, 17	17
	Stopper strength	1N·m		
	Push-pull strength	100N (Push), 50N (Pull)		
	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		
Terminal type		Insertion		
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### Note

● Indicates applicability to all products in the series.

■ Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from mounting side)
1	<b>RK45B1A00001 (With LED)</b> 		
2	<b>RK45B1A00002 (With LED)</b> 		
3	<b>RK45C (With chip LED)</b> 		

Rotary Potentiometers  
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Ring Type Potentiometers / Soldering Conditions

■ Reference for Manual Soldering

Series	Tip temperature	Soldering time	No. of solders
<b>RK39A, RK45B, RK45C</b>	350°C max.	3s max.	1 time

■ Reference for Dip Soldering

Series	Preheating		Dip soldering		No. of solders
	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	
<b>RK39A, RK45B, RK45C</b>	100°C max.	2min. max.	260°C max.	5s max.	2 time max.