

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	RK39A1A00007	2
			180°±5°	50±20				RK39A1A00027	1
		6	270°±5°					RK39A1A00028	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		RK39A1A00027
2		RK39A1A00007 RK39A1A00028

Refer to P.383 for soldering conditions.

Ring Type Potentiometers

List of Varieties

Type		39mm size	45mm size	
Series		RK39A	RK45B	RK45C
		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℃ to +85℃		
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		
Page		381	382	

Ring Type Potentiometers Soldering Conditions	383
Potentiometers Cautions	418
Potentiometers Measurement and Test Methods	420
Potentiometers Resistance Taper	422

Note

● Indicates applicability to all products in the series.

Unit:mm

Potentiometers	Slice Potentiometers	Metal Shaft	Insulated Shaft	Knob Operating	Through Shaft Type	Ring Type
Potary Potentiometers						

Ring Type Potentiometers / Soldering Conditions

■ Reference for Manual Soldering

Series	Tip temperature	Soldering time	No. of solders
RK39A, RK45B, RK45C	350℃ 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	
RK39A, RK45B, RK45C	100°C max.	2min. max.	260°C max.	5s max.	2 time max.