Metal Shaft Potentiometer

50mm Size Metal Shaft High-quality-audio Type

RK50 Series



Better tone, better characteristics and high definition and suitable for high-grade.

Potentiometers

Slide **Potentiometers**

Multi Control

Devices

Rotary Sensors Linear Sensors



Features

- Employment of low-distortion carbon ink provides high fidelity sound reproduction.
- Gold plated multi contact point wire brushes reduce distortion in sound reproduction.
- Employment of low resistance ink provides a gang error of ± 1 dB for the range between -100 and 0 dB.
- Solid brass lathe-carved case improves channel separation performance.
- Employment of mirror surface-treated resistor materials reduces slide
- Designed torque mechanism adds a good operational feel.

Applications

Volume control in quality audio components such as amplifiers

Metal Shaft

Insulated Shaft

Knob Operating

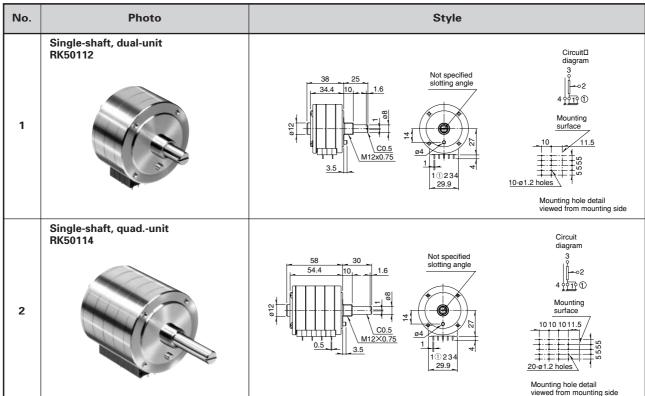
Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	150V AC
Total rotational angle	300±3°
Rotational torque	13 to 43 mN∙m
Operating life	15,000 cycles
Operating temperature range	−10°C to +70°C

Recommended Products List

Number of resistor elements	Mounting direction	Products No.	Shaft type	Length of the shaft (mm)	Center detent	Total resistance (kΩ)	Resistance taper	Minimum packing unit (pcs.)	Drawing No.
Dual-unit	Horizontal type	RK50112A0004	Slotted	25	Without	100	- 15A	1	1
Quad-unit		RK50114A0001	Siotted	30		50			2

Dimensions Unit:mm



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Product Varieties

In addition to the recommended products, the following specifications can also be accommodated.

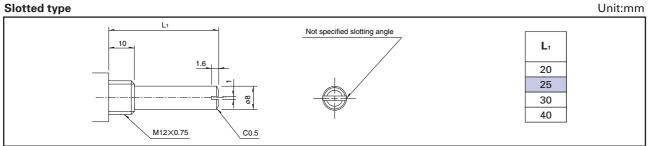
■ Total Resistance Variety

Total resistance (kΩ)	10	20	50	100	250	
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Resistance Taper

Resistance taper 15A 3B

Dimensions of Shaft



Note

Shows the specification recommended by us.

Products Specifications

Model						RK501		
			RK20B	RK25T	RK271			
Operating temperature range			-10°C to +105°C	-10°C to +60°C		to +70℃		
Electrical performance	resista	Total nce tolerance	±20%					
	Rat	ed power	0.06W	0.0	05W	0.1W		
	Maximum operating voltage		20V DC	5V DC	30V AC	150V AC		
		desidual sistance			$\begin{array}{ll} R \leqq 10 k \Omega & 20 \Omega max. \\ 10 k \Omega < R \leqq 50 k \Omega \\ 30 \Omega max. \\ \\ 50 k \Omega < R \\ 0.1\% \ or \ less \ of \\ nominal \ total \ resistance \\ \end{array}$			
	att	aximum enuation me control)			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	120dB min.		
		sulation sistance	100MΩ mi	n. 250V DC	100MΩ min. 500V DC			
	Vol	tage proof	1 minute	300V AC	1 minute 500V AC			
	Total rotational angle		360°	300±5°	300±3° Motor-driven 300±5°	300±3°		
	Rotational torque (mN·m)		20 to 80	0.5 to 7.5	5 to 35 Motor-driven 15 to 45	13 to 43		
	Stopper strength (N·m)		_	0.5	0.9	1.5		
	Push-	pull strength		100N max.		150N max.		
Mechanical performance	V	ibration	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					
	Manual soldering		350°C max. 3s max.					
	Solder heat resistance	Dip soldering (Dip available products)	260±5°0	C, 4±1s	_	260±5℃, 4±1s		
Endurance	Оре	erating life	15,000 cycles	100,000 cycles	15,000 cycles			
	Cold		−10°C for 96h					
Environ- mental test	Long-term heat resistance		+105°C for 96h	+70℃ for 96h				
	Moisture resistance		+40±2℃, 90 to 95%RH for 96h					

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