

Multi Control Devices

Stick Controller

RKJXK/RKJXP/RKJXV Series



Space-saving type is available with or without lever return mechanism.

Rotary
Potentiometers

Slide
Potentiometers

Multi Control
Devices

Rotary Sensors
Linear Sensors



Features

- Superior operational feel without operational irregularity due to direction. Ideal for fingertip operation.
- Constructed integral with a tact switch, improving the operability of sets.

Applications

- Controller for remote control of audio equipment, TV, etc.
- Game controllers, electronic toy controllers

Variable Resistor
Type

Switch
Type

Typical Specifications (Potentiometer Part)

Items	RKJXK	RKJXP	RKJXV
Rated power	0.0125W		
Maximum operating voltage	50V AC/5V DC		
Operating force	8mN·m max. (Not lever reset) 6±4mN·m (Lever reset type)	17±10mN·m	
Operating life	100,000 cycles min.	2,000,000 cycles min.	

Typical Specifications (Center Push Part)

Characteristics	RKJXK	RKJXP	RKJXV
Ratings (max.)	50mA 12V DC		
Operating force	5.2±2.6N	6.4 ^{+3.4} _{-2.6} N	
Travel	0.5 ^{+0.5} _{-0.4} mm		
Operating life	1,000,000 min.		

Recommended Products List

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Lever return mechanism	Center push	Total resistance (kΩ)	Resistance taper	Products No.	Minimum packing unit (pcs.)	Drawing No.
Without	Without	10	B (0B)	RKJXK1210002	500	1
With				RKJXK122000D		
	RKJXK122400Y			700	2	
	RKJXP1224002				3	
	RKJXV1224002			800	4	

For products specifications, see P.152

Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from mounting side)
1		<p>All directions Return position</p>	
2		<p>All directions Return position</p>	<p>Mounting hole detail viewed from mounting side</p>
3		<p>All directions Return position</p>	
4		<p>All direction Return position</p>	

Products Specifications

Items			RKJXK	RKJXP	RKJXV	RKJXF
Operating temperature range			−10℃ to +60℃		−10℃ to +70℃	−10℃ to +60℃
Electrical performance	Rated power		0.0125W			0.05W
	Directional resolution		Contiguity			
	Insulation resistance		100MΩ min. 250V DC			
	Voltage proof		250V AC for 1 min.			
Mechanical Performance	Direction application force		8mN・m max. Without lever return type 6±4mN・m Lever reset type	17±10mN・m		5±4.5mN・m
	Push application force		5.2±2.6N	6.4 ^{+3.4} _{−2.6} N		——
	Solder heat resistance	Manual soldering	300℃ max. 3s max.			——
		Dip soldering	260±5℃, 5±1s			——
Slider noise			300mV max. by JIS method			100mV max. by JIS method
Lever stopper strength			0.3N・m	——		0.3N・m
Lever play			5° max.			——
Lever strength			50N min. (Push/Pull)		98N min. (Push) 50N min. (Pull)	30N min. (Push/Pull)
Endurance	Operating life	Directions	100,000 cycles	2,000,000 cycles		50,000 cycles
		Center detent	1,000,000 cycles			——
Environmental test	Cold		−30±2℃ for 96h			−10±2℃ for 96h
	Long-term heat resistance		80±2℃ for 96h			70±2℃ for 96h
	Moisture resistance		60±2℃, 90 to 95%RH for 96h			40±2℃, 90 to 95% RH for 96h