

Index for Function


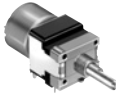


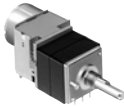
Type	9mm size metal shaft snap-in		9mm size metal shaft multi-ganged		11mm size metal shaft low-profile	16mm size metal shaft	20mm size metal shaft (For electric ovens)	27mm size metal shaft
Number of drive shafts	Single-shaft		Single-shaft	Dual-shaft	Single-shaft			
Model	RK09L1		RK0971 RK0981 RK0972		RK117111	RK1631□1 RK1631□A	RK20B11	RK2711
Appearance								
Bushing-mounting direction	The bushing can be fastened by use of screws		The bushing can be fastened by use of screws		Bushing guide type	The bushing can be fastened by use of screws		
Terminal mounting direction	Horizontal type	Vertical type	Horizontal type		Vertical type	Horizontal type	Vertical type	Horizontal type
Attached switch	Without		—	Inner shaft only	Push-on	Without	Equipped with printed pattern switch	Without
			Rotary					
			Push-push					
			Push-on					
Illumination	Without							
Gang error applicable to 2-unit parts for audio volume control purposes	-40dB to 0dB 3dB max.		-40dB to 0dB 3dB max.		—	-40dB to 0dB 3dB max.	—	-60dB to 0dB 3dB max.
Soldering	Manual soldering	●	●	●	●	●	●	●
	Flow soldering	●	●	●	●	—	●	—
Minimum packing unit (pcs.) ※1, ※2	100							
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Notes

1. ※1. Place your purchase order in N minimum package units (N: integer).
2. ※2. Ask us for the export packaging unit.

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Type	50mm size metal shaft high-quality-audio	Rotary motor-driven			
Number of drive shafts	Single-shaft				
Model	RK5011□A	RK1681□MG0	RK1681□MGL	RK25T	RK2711□MC0
Appearance					
Bushing-mounting direction	The bushing can be fastened by use of screws				
Terminal mounting direction	Horizontal type			Vertical type	Horizontal type
Attached switch	Without				
Illumination	Without		With (Through shaft type)	Without	
Gang error applicable to 2 unit parts for audio volume control purposes	-100dB to 0dB 2dB max.	-40dB to 0dB 3dB max.		※3	-60dB to 0dB 3dB max.
Soldering	Manual Soldering	●	●	●	●
	Flow Soldering	—	—	—	—
Minimum packing unit (pcs.) ※1, ※2	1	200		210	150
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Notes

1. ※1. Place your purchase order in N minimum package units (N: integer).
2. ※2. Ask us for the export packaging unit.
3. ※3. For audio equipment and devices, servo systems, touch sensors or track combinations.

Rotary Potentiometers

Slide Potentiometers

Trimmer Potentiometers

Multi Control Devices

Position Sensors

Metal Shaft

Insulated Shaft

Knob Operating

Products Specifications

Items		Model	RK09L	RK097 RK098	RK117	RK16
Operating temperature range		-10°C to +70°C				
Electrical performance	Total resistancetolerance	±20%				
	Rated power	0.05W				
	Maximum operating voltage	50V AC			150V AC	
	Residual resistance	$R \leq 10k\Omega$ 20Ω max. $10k\Omega < R \leq 50k\Omega$ 30Ω max. $50k\Omega < R$ Nominal total resistance of 0.1% or less				
	Maximum attenuation (Volume control)	$5k\Omega \leq R < 10k\Omega$ 70dB min. $10k\Omega \leq R < 50k\Omega$ 80dB min. $50k\Omega \leq R < 100k\Omega$ 90dB min. $100k\Omega \leq R$ 100dB min.				
	Insulation resistance	100MΩ min. 250V DC			100MΩ min. 500 V DC	
	Voltage proof	1 minute 300V AC			1 minute 500V AC	
Mechanical performance	Total rotational angle	RK09L $300 \pm 5^\circ$ RK097 $300 \pm 5^\circ$ RK098 $300 \pm 5^\circ$			(For shaft movable type, $300 \pm 5^\circ$) $300 \pm 5^\circ$	
	Rotational torque	2 to 25mN·m				
	Stopper strength	0.5N·m (For shaft movable type, 0.4N·m)			0.9N·m (For dual-shaft type, 0.6N·m)	
	Push-pull strength	80N max.		100N max.		
	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 and for 2 hours respectively				
	Solderability	230±5°C, 3±0.5s				
	Solder heat resistance	Manual soldering	350°C or less and within 3 seconds			
Flow soldering (Flow available products)		260±5°C 4±1s				
Endurance	Operating life	15,000 cycles				
Environmental test	Cold	-10°C for 96h				
	Long-term heat resistance	+70°C for 96h				
	Moisture resistance	+40±2°C, 90 to 95%RH for 96h				

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Products Specifications

Items		Model	RK20B	RK25T	RK271	RK501
Operating temperature range			-10°C to +105°C	-10°C to +60°C	-10°C to +70°C	
Electrical performance	Total resistance tolerance		±20%			
	Rated power		0.06W	0.05W		0.1W
	Maximum operating voltage		20V DC	5V DC	30V AC	150V AC
	Residual resistance		————	————	R ≤ 10kΩ 20Ω max. 10kΩ < R ≤ 50kΩ 30Ω max. 50kΩ < R 0.1% or less of nominal total resistance	————
	Maximum attenuation (Volume control)		————	————	5kΩ ≤ R < 10kΩ 70dB min. 10kΩ ≤ R < 50kΩ 80dB min. 50kΩ ≤ R < 100kΩ 90dB min. 100kΩ ≤ R 100dB min.	120dB min.
	Insulation resistance		100MΩ min. 250V DC		100MΩ min. 500V DC	
	Voltage proof		1 minute 300V AC		1 minute 500V AC	
Mechanical performance	Total rotational angle		360°	300±5°	300±3°	
	Rotational torque (mN · m)		20 to 80	0.5 to 7.5	5 to 35	13 to 43
	Stopper strength (N · m)		—	0.5	0.9	1.5
	Push-pull strength		100N max.			150N max.
	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 and for 2 hours respectively			
	Solderability		230±5°C, 3±0.5s			
	Solder heat resistance	Manual soldering		350°C or less and within 3 seconds		
Flow soldering (Flow available products)			260±5°C 4±1s			
Endurance	Operating life		15,000 cycles	100,000 cycles	15,000 cycles	
Environmental test	Cold		-10°C for 96h			
	Long-term heat resistance		+105°C for 96h	+70°C for 96h		
	Moisture resistance		+40±2°C, 90 to 95%RH for 96h			

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