



High precision space-saving design contributes to reduce size and weight of the set.



Features

 High-precision linearity is attained by high-precision printing technology.

 Light operation force contributes to reduce torque load in motor driven mode. Rotary Potentiometers

Slide Potentiometers

Multi Control Devices

Sensors

Applications

- For detecting feedback from motor drive units in digital camcorders and CD changers, MD changers
- For detecting various types of size in copy machines, multifunctional printers and projectors

Rotary Type

Linear Type

Typical Specifications

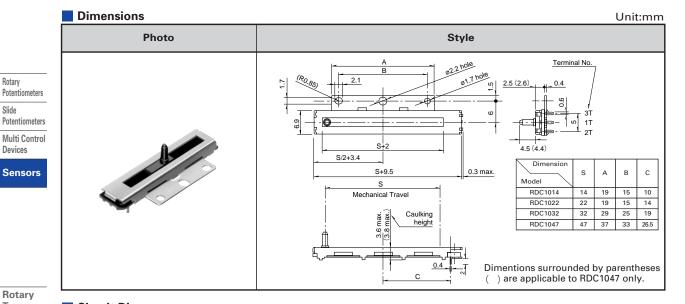
Typical Specifications					
Items	Specifications				
Rating voltage	5V DC				
Operating force	0.25N max.				
Operating life	200,000cycles				
Total resistance	10kΩ				
Total resistance tolerance	±30%				

Recommended Products List

Travel (mm)	Linearity (Independent)	Length of lever (mm)	Length of terminal (mm)	Minimum packing unit (pcs.) ※	Model No.
14	±0.5%	4.5	2	2,400	RDC1014A09
22				2,100	RDC1022A05
32				900	RDC10320RB
47		4.4		1,000	RDC1047A03

Note

* For the switch attached, inner axis of the single-shaft or the dual-shaft type can be chosen. Please place purchase order per minimum packing unit. Please contact us for export packing details.



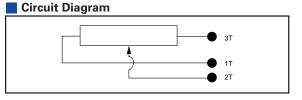
Rotary Type

Rotary

Slide

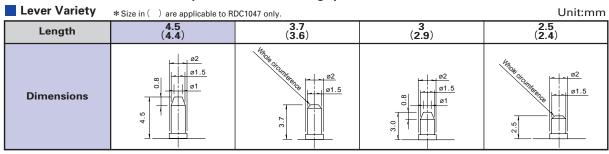
Devices

Linear Type

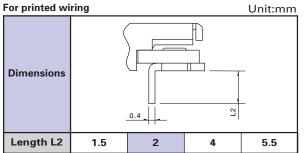


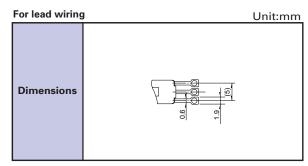
Product Varieties

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



Terminal Variety





Note

marked are specifications recommended by ALPS.

Products Specifications

	Туре	Rotary type					Linear type		
Model		RDC40	RDC501	RDC502	RDC503	RDC506	RDC80		
Items		Multiple turns	Horizontal type	Vertical type	Reflow type	Reflow type (Thin shape)	Reflow type	RDC10	
Operating t	emperature range	-30°C to	−40°C to +120°C				−30°C to +85°C		
	Total resistance tolerance		±30%						
	Resistance taper	Linear							
Electric performance	Rated voltage	5V DC							
	Max. operating voltage	18V DC	16V DC				5V DC		
	Linearity	±1%	±2% ±3%				±0.5%		
Mechanical performance	Effective variable range	13 rotations	320° 33 36			330° (1-phase) 360° (2-phase)	S (Travel) –2mm		
	Rotational angle	_	(Without stopper)				_		
	Rotational torque	2mN⋅m max. 10mN⋅m max.				_			
	Operating force					0.25N max.			
Durability	100,000cycles	•				•	_		
	200,000cycles							•	
	1,000,000cycles	—							

Rotary Potentiometers

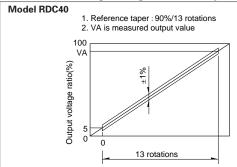
Slide Potentiometers

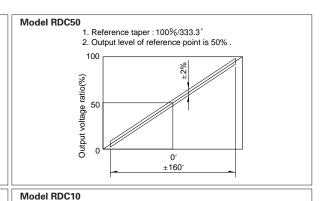
Multi Control Devices

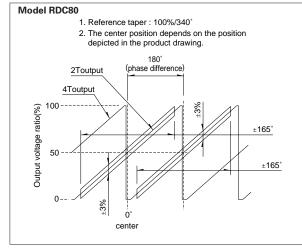
Sensors

Rotary Type Linear Type

Method for Regulating the Linearity







This is the deviation to an ideal line shown below when the voltage applied between terminals 1 and 3 is assumed to be 100%. (Unit:percentage)

With rated voltage applied between terminals 1 and 3, the ideal line is assumed to be the straight line drawn between the measured output values V_{B} and V_{A} at specified reference positions B and A.

