



PD010010

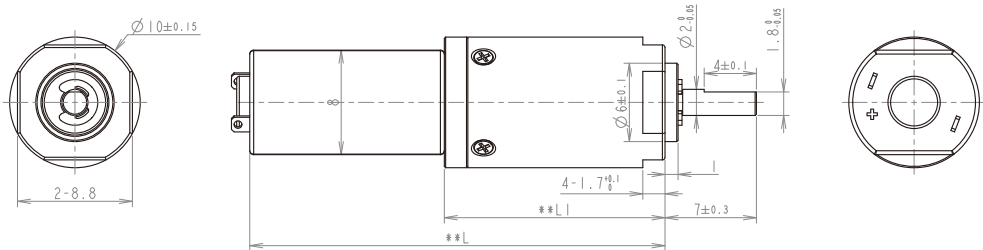
Gearbox Specifications

Outer diameter	10mm	Bearing	Porous bearing	Rolling bearing
Material	Plastic	Axial endplay	≤0.3mm	≤0.2mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤1N	≤7N
Gear backlash	≤3°	Operating temperature range	-20 ~ +85°C	

Gearbox Stages

	1	2	3	4
Reduction ratio	3/5	13/19/28	46/69/102/151	168/249/368/546/809
Max rated torque of gearbox (gf.cm)	500	500	500	500
Instant torque of gearbox (gf.cm)	1000	1000	1000	1000
Gearbox efficiency (%)	85	73	65	58
Gearbox length L1 (mm)	9.7	12.8	15.9	19

Technical Drawing



Motor Specifications

Motor type (optional)	Brushed DC motor, Coreless motor, Stepper motor	Input speed	≤30000rpm
Voltage (optional)	3-12V	Current	100mA max

Model	Rated Speed	Max Speed	Max Rated Torque	Max Instant Torque	Reduction Ratio	Gearbox Length	Overall Length
	rpm	rpm	gf.cm	gf.cm		mm	mm
PD010010-3	3917	7500	500	1000	3	9.7	24.7
PD010010-5	2645	5000	500	1000	5		
PD010010-13	1085	2308	500	1000	13	12.8	27.8
PD010010-19	742	1579	500	1000	19		
PD010010-28	504	1071	500	1000	28		
PD010010-46	307	652	500	1000	46	15.9	30.9
PD010010-69	204	435	500	1000	69		
PD010010-102	138	294	500	1000	102		
PD010010-151	93	199	500	1000	151		
PD010010-168	84	179	500	1000	168	19	34
PD010010-249	57	120	500	1000	249		
PD010010-368	38	82	500	1000	368		
PD010010-546	26	55	500	1000	546		
PD010010-809	17	37	500	1000	809		

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