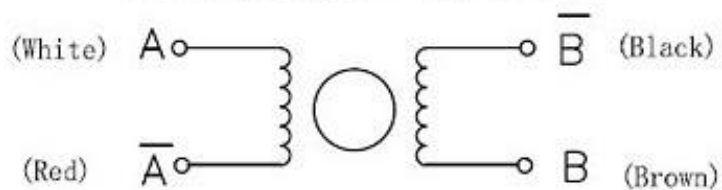


## 10BY stepper motor specification

### CONNECTION DIAGRAM



### SEQUENCE OF EXCITATION

PIN NO	COLOR	CONNECTOR PIN LOCATION				PHASE
		CCW (SEEN FROM FLANGE SIDE)			CW	
1	Brown		ON	ON		B
2	Black	ON			ON	B
3	White	ON	ON			
4	Red			ON	ON	

2-2相/mutually

Voltage	5V DC
Coil resistance	39 Ω ± 7%
Number Of Phases	2
Step Angle	18° / Step
Max. Starting Frequency	900 PPS Min.
Max. Slewing Frequency	1200 PPS Min.
Pull-IN Torque	6 gf.cm Min.
Lead Out torque	10 gf.cm Min.

## 12SG-10BY stepper geared motor specification

Voltage	5V DC, driver IC : L6219								
Phase	2 phases, 4 wires								
Gear ratio	10	20	30	50	100	150	210	298	380
Geared Step angle	1.86°	0.93°	0.61°	0.35°	0.18°	0.12°	0.086°	0.06°	0.047°
Phase current	128 mA / Phase								
Phase resistance	39 ± 7% ohm / phase								
Phase inductance	14.3 mH / phase								
Holding torque ( Kgf.cm )	0.12	0.24	0.36	0.6	1.2	1.8	2.5	3	3
Pull-out torque ( Kgf.cm )	0.03	0.06	0.09	0.15	0.3	0.45	0.63	0.9	1.1
Max. Starting Frequency	> 1200 PPS								
Max. Slewing Frequency	> 900 PPS								



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