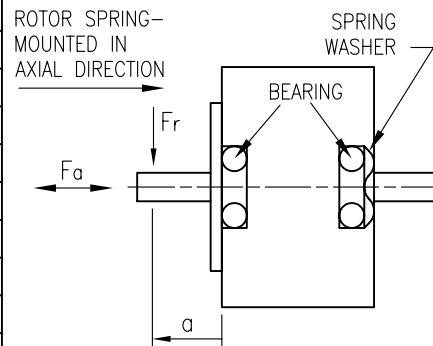


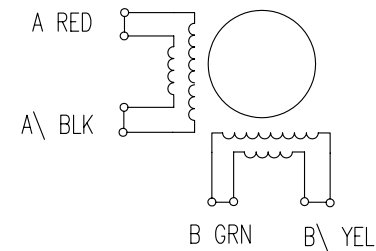
SPECIFICATION	CONNECTION	BIPOLAR PARALLEL
VOLTAGE (VDC)		2.18
AMPS/PHASE		9.5
RESISTANCE/PHASE (Ohms)@25°C		0.23±15%
INDUCTANCE/PHASE (mH) @1KHz		2.6±20%
HOLDING TORQUE (Nm) [lb-in]		5.94 [52.57]
DETENT TORQUE (Nm) [lb-in]		0.11 [0.9735]
STEP ANGLE (°) ± ACCURACY		1.8 ± 5% (NON-ACCUM)
BACK-EMF (V) (300 U/min.)		20.57
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		1.97x10 <sup>-4</sup> [0.672] $\Delta$
WEIGHT (Kg) [lb]		3.45 [7.61] $\Delta$
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		
AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F]		
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		
INSULATION CLASS B 130° [266°F]		
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		

### PERMISSIBLE RADIAL+AXIAL FORCE



	AXIAL-FORCE Fa (N)			
	5	10	15	20
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	535	355	256	200
		AXIAL	RADIAL	
SHAFT PLAY (mm)	0.075	0.025		
AT LOAD MAX: (N)	10	5.0		

### WIRING DIAGRAM



FULL STEP 2 PHASE-Ex.,  
WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\	CCW	CW
1	+	+	-	-	↓	↑
2	-	+	+	-	↓	↑
3	-	-	+	+	↓	↑
4	+	-	-	+	↓	↑

### MOTOR D-SUB-15

Pin	Assignment
1	A
2	A
3	A\
4	A\
5	B
6	B
7	B\
8	B\
9	NC
10	NC
11	BRAKE
12	BRAKE/GND
13	NC
14	NC
15	NC
HOUSING	GND/SHIELDING

REV	DESCRIPTION	DATE	APVD	NANOTEC:	SCALE FREE	APVD	CHKD	DRN	SIGNATURE	DATE	DWG.NO
1	WEIGHT+ROTOR INERTIA	04.06.07	J.W.	AD8918M9504-B	X ±0.5					18.04.07	
					1PL ±0.2						
					2PL ±0.1						
					ANGLE ±30'						

### STEPPING MOTOR

AD8918M9504-B