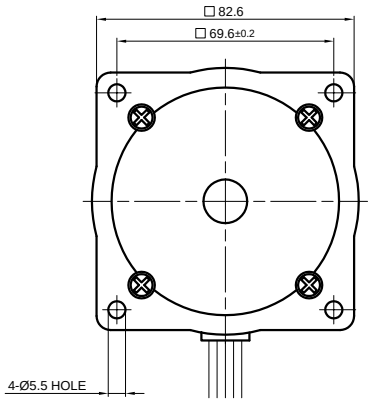
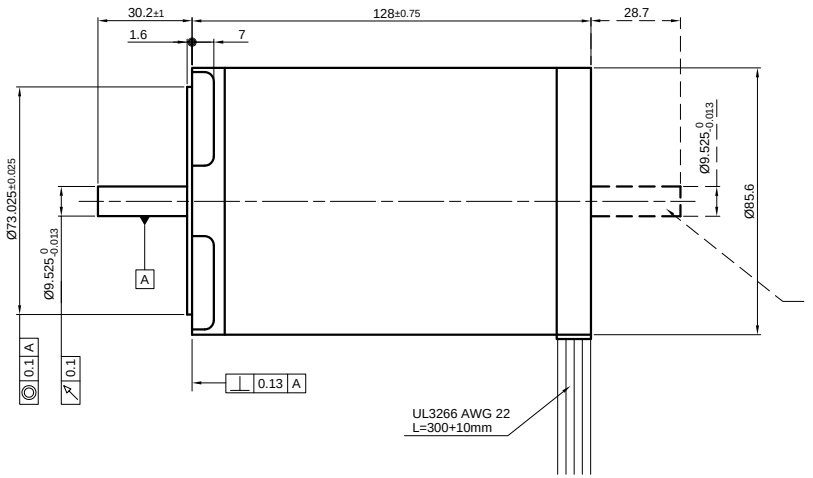
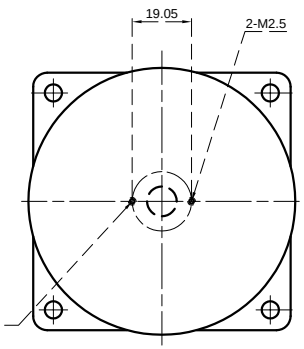
Front view and mounting



Side view

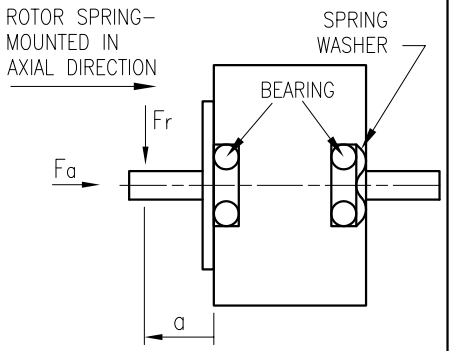


Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	5.0	7.07	3.53
AMPS/PHASE	4.0	2.83	5.66
RESISTANCE/PHASE (Ohms)@25°C	1.25±15%	2.50±15%	0.63±15%
INDUCTANCE/PHASE (mH) @1KHz	6.8±20%	27.2±20%	6.8±20%
HOLDING TORQUE (Nm) [lb-in]	4.0 [35.4]	5.66 [50.1]	5.66 [50.1]
DETENT TORQUE (Nm) [lb-in]	0.12 [1.062]		
STEP ANGLE (°)	1.8		
STEP ACCURACY (NON-ACCUM)	±5%		
ROTOR INERTIA (Kg-m^2) [lb-in^2]	1.8×10^{-4} [0.615]		
WEIGHT (Kg) [lb]	3.7 [8.159]		
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° [260°F]			
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASING)			
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)			

PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=25			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	228	169	139	100

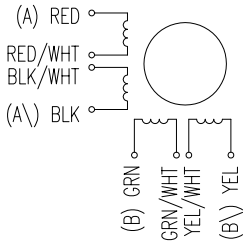
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

TYPE OF CONNECTION (EXTERN)				MOTOR	
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	LEADS	WINDING
A	A	A	A	RED	A
COM				RED/WHT	
				BLK/WHT	
A\		A\	A\	BLK	A\
B	B	B	B	GRN	B
COM				GRN/WHT	
				YEL/WHT	
B\		B\	B\	YEL	B\

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD

NANOTEC:

SH8618L4008

SCALE FREE		APVD	S.K.	20.07.06
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	20.07.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

SH8618L4008