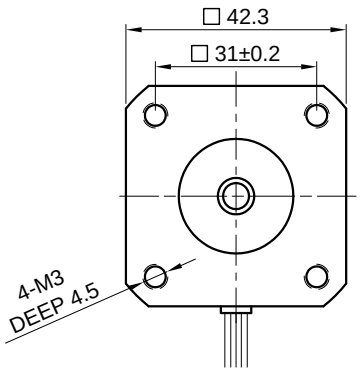
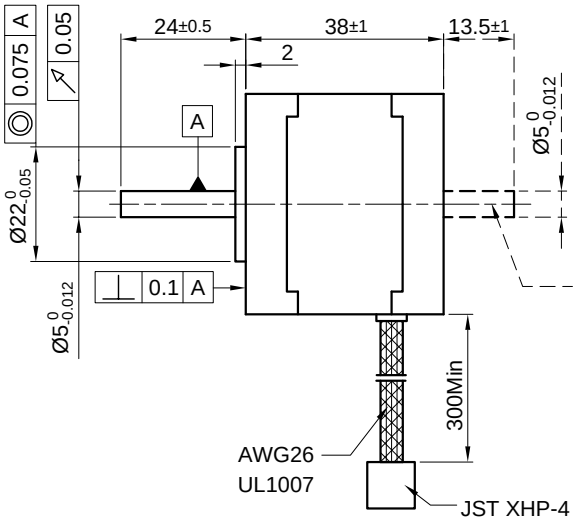
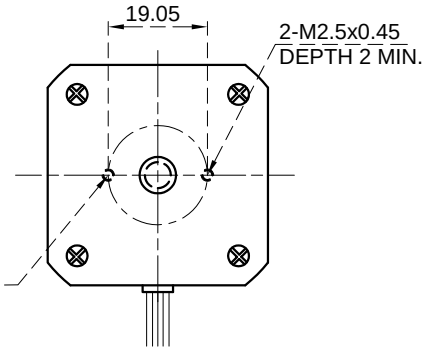
Front view and mounting



Side view



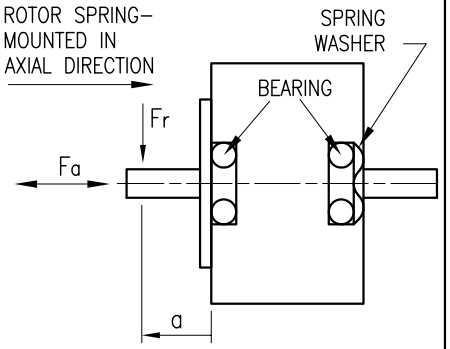
Rear view



SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	1.7
AMPS/PHASE	1.4
RESISTANCE/PHASE (Ohms)@25°C	1.2±15%
INDUCTANCE/PHASE (mH) @1KHz	1.7±20%
HOLDING TORQUE (Nm) [lb-in]	0.24 [2.124]
DETENT TORQUE (Nm) [lb-in]	$9.8x10^{-3}$ [$8.673x10^{-2}$]
STEP ANGLE (°)	1.8
STEP ACCURACY (NON-ACCUM)	±5%
ROTOR INERTIA (Kg-m^2) [lb-in^2]	$5.7x10^{-6}$ [$1.95X10^{-2}$]
WEIGHT (Kg) [lb]	0.24 [0.529]

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)	Fa=7			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20

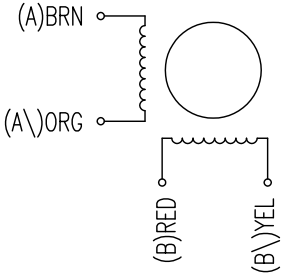
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

TYPE OF CONNECTION (EXTERN)		MOTOR	
PIN NO	BIPOLAR	LEADS	WINDING
1	A —	BRN	A
2	A\ —	ORG	A\
3	B —	RED	B
4	B\ —	YEL	B\

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD

NANOTEC:

ST4118M1404

SCALE FREE		APVD	S.Ha.	26.02.07
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	30.11.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST4118M1404