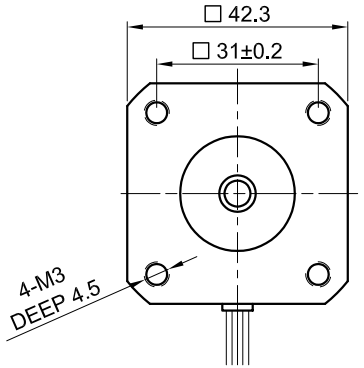
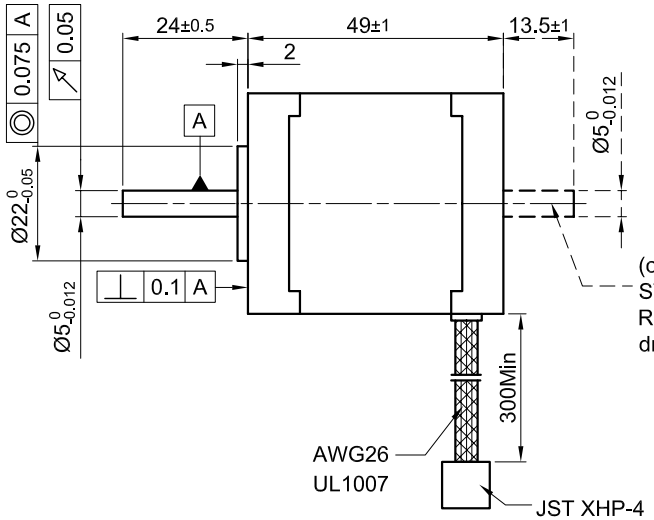
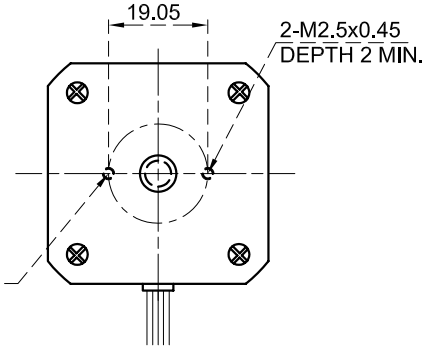
Front view and mounting



Side view

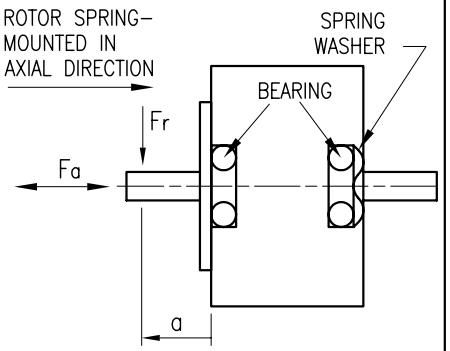


Rear view



SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	7.4
AMPS/PHASE	0.8
RESISTANCE/PHASE (Ohms)@25°C	9.3±15%
INDUCTANCE/PHASE (mH) @1KHz	17±20% ⚠1
HOLDING TORQUE (Nm) [lb-in]	0.5 [4.425]
DETENT TORQUE (Nm) [lb-in]	$1.37x10^{-2}$ [0.1212]
STEP ANGLE (°)	1.8
STEP ACCURACY (NON-ACCUM)	±5%
ROTOR INERTIA ($Kg-m^2$) [$lb-in^2$]	$8.2x10^{-6}$ [$2.8X10^{-2}$]
WEIGHT (Kg) [lb]	0.34 [0.75]
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

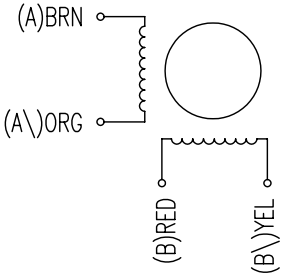
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

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
1	MODIFIED INDUCTANCE	25.04.07	J.W.

NANOTEC:

ST4118L0804

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

ST4118L0804