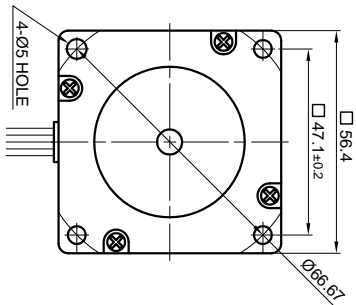
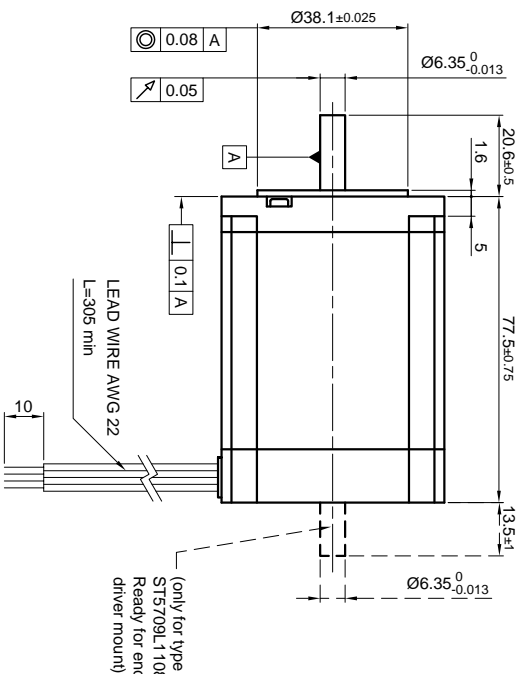


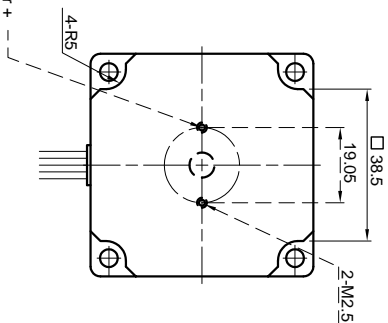
Front view and mounting



Side view

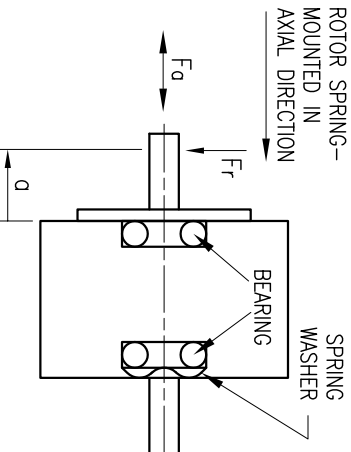


Rear view



SPECIFICATION	CONNECTION	
	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL PARALLEL
VOLTAGE (VDC)	7.9	
AMPS/PHASE	1.1	0.78
RESISTANCE/PHASE (Ohms)@25°C	7.2±15%	14.4±15%
INDUCTANCE/PHASE (mH) @1KHz	16±20%	64±20%
HOLDING TORQUE (Nm) [lb-in]	1.35 [11.95]	1.91 [16.9]
DETTENT TORQUE (Nm) [lb-in]	0.0405 [0.359]	
STEP ANGLE (°)	0.9	
STEP ACCURACY (NON-ACCUM)	±5%	
ROTOR INERTIA (Kg-m ²) [lb-in ²]	4.8×10 ⁻⁵ [0.164]	
WEIGHT (kg) [lb]	1.0 [2.205]	
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



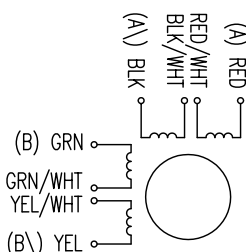
AXIAL-FORCE Fa (N)	F _a =10			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	130	90	70	52
AXIAL	0.075			
RADIAL		0.025		
SHAFT PLAY (mm)				0.025
AT LOAD MAX: (N)	10			5.0

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

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

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

WIRING DIAGRAM



NANOTEC:

ST5709L1108

REV	DESCRIPTION	DATE	APVD

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

STEPPING MOTOR

DWG.NO

DATE	SIGNATURE
05.07.06	

ST5709L1108