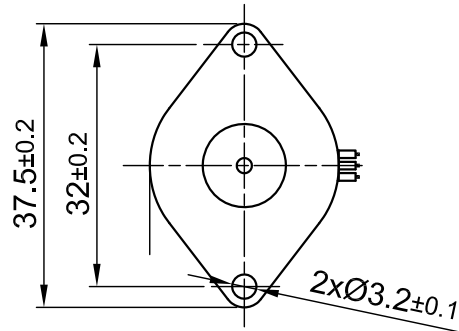
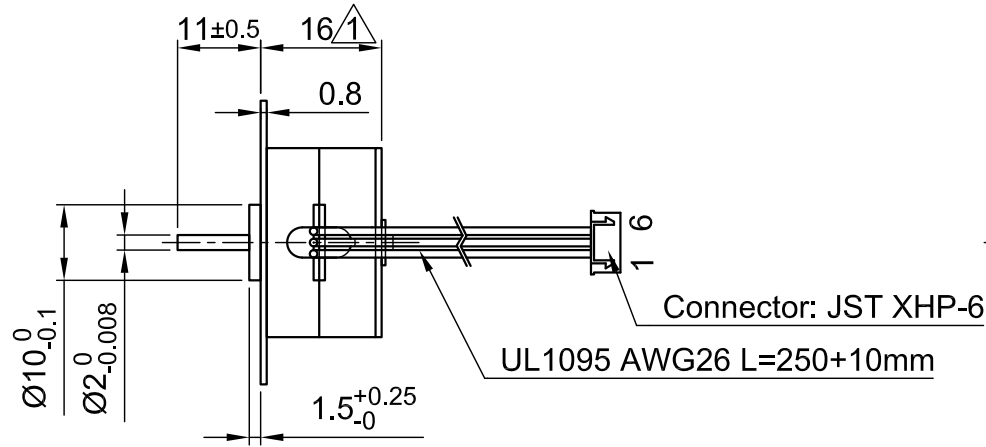


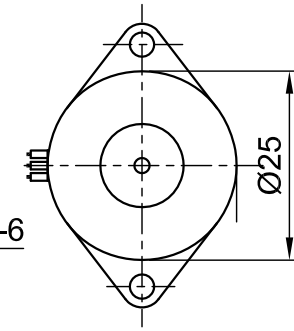
Front view and mounting



Side view

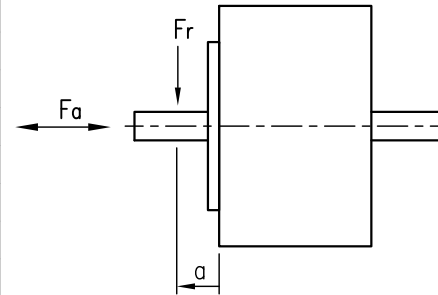


Rear view



SPECIFICATION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	5.0	6.9
AMPS/PHASE	0.43	0.30
RESISTANCE/PHASE (Ohms)@25°C	11.5±10%	23±10%
INDUCTANCE/PHASE (mH) @1KHz	2.3±20%	9.2±20%
HOLDING TORQUE (Nm) [lb-in]	0.01 [0.089]	0.014 [0.125]
DETENT TORQUE (Nm) [lb-in]	7.5x10 <sup>-3</sup> [0.066]	
STEP ANGLE (°)	15	
STEP ACCURACY (NON-ACCUM)	±8%	
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]	1.0x10 <sup>-7</sup> [3.416x10 <sup>-4</sup> ]	
WEIGHT (Kg) [lb]	0.036 [0.0794]	

PERMISSIBLE RADIAL+AXIAL FORCE



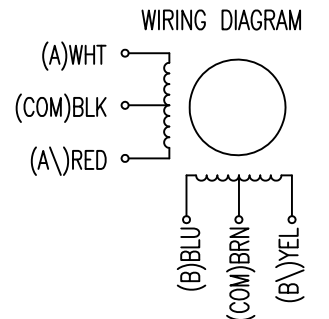
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)	AXIAL-FORCE Fa (N)	Fa=1.5
AMBIENT TEMPERATURE -20~ 50°C [-4°F ~ 122°F]	DISTANCE a (mm)	1/2 SCHAFTLENGTH
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE Fr (N)	Fr=3.0
INSULATION CLASS B 130° [266°F]		AXIAL RADIAL
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY (mm)	0.08 0.06
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD MAX: (N)	4.5 4.5

TYPE OF CONNECTION (EXTERN)	MOTOR		
	UNIPOLAR	BIPOLAR 1WINDING SERIAL	CONNECTOR PIN NO. LEADS WINDING
A ---	A ---	A ---	1 WHT A
COM ---	COM ---	COM ---	5 BLK COM
A\ ---	A\ ---	A\ ---	3 RED A\
B ---	B ---	B ---	2 BLU B
COM ---	COM ---	COM ---	6 BRN COM
B\ ---	B\ ---	B\ ---	4 YEL B\

for >speed ←  
for <speed ←

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

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



REV	DESCRIPTION	DATE	APVD
1	VALUE OF INDUCTANCE+LENGTH	24.04.09	J.W.



SP2515M0406-A

SCALE FREE	APVD	S.Ha.	12.03.07
X ±0.5	CHKD		
1PL ±0.2	DRN	J.W.	31.10.06
2PL ±0.1	SIGNATURE	DATE	
ANGLE ±30'			

STEPPING MOTOR

DWG.NO

SP2515M0406-A