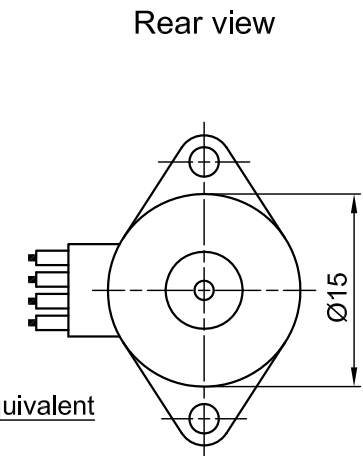
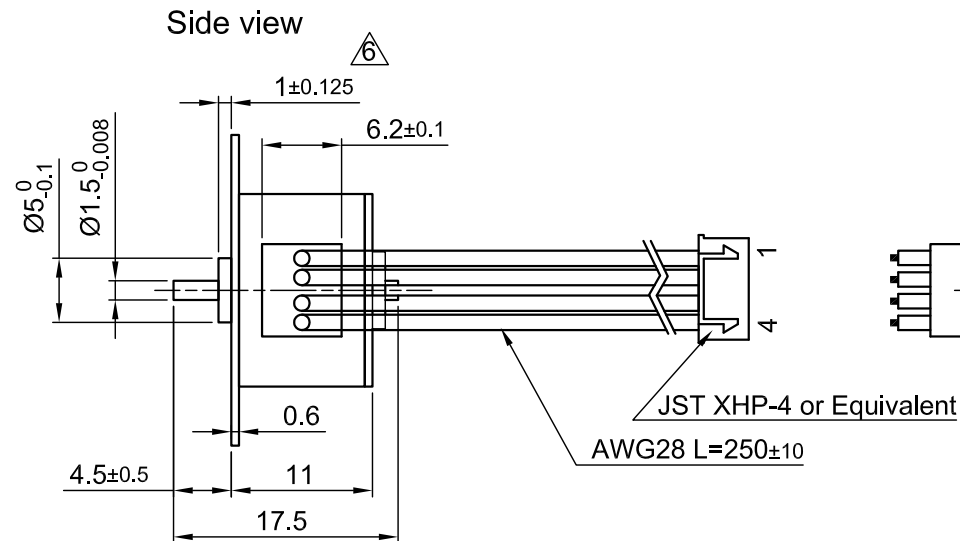
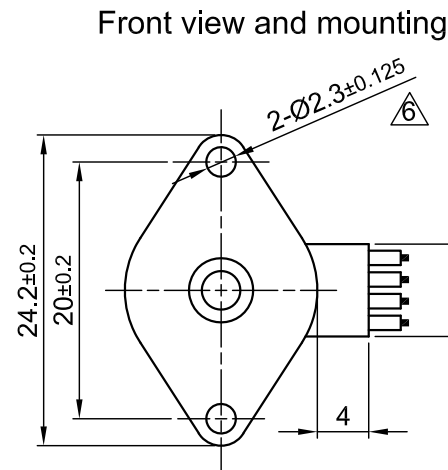


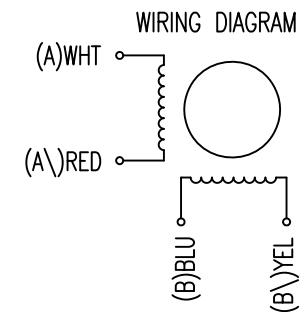


SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		12.4
AMPS/PHASE		0.065
RESISTANCE/PHASE (Ohms)@25°C		190±7%
INDUCTANCE/PHASE (mH) @1KHz		50±20%
HOLDING TORQUE (Nm) [lb-in]		2.0x10 ⁻³ [1.77x10 ⁻²]
DETENT TORQUE (Nm) [lb-in]		1.0x10 ⁻³ [8.85x10 ⁻³]
STEP ANGLE (°)		18
STEP ACCURACY (NON-ACCUM)		±8%
ROTOR INERTIA (Kg-m ²) [lb-in ²]		1.0x10 ⁻⁷ [3.416x10 ⁻⁴]
WEIGHT (Kg) [lb]		0.012 [0.026]
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		
AMBIENT TEMPERATURE -10°~ 40°C [14°F ~ 104°F]		
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		
INSULATION CLASS E 120° [248°F]		
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		

TYPE OF CONNECTION (EXTERN)	MOTOR		
BIPOLAR	CONNECTOR PIN NO.	LEADS	WINDING
A —	1	WHT	A
A\ —	2	RED	A\
B —	3	BLU	B
B\ —	4	YEL	B\

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

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



6 (4x)	NEW VALUE OF HOLDING/DETENT TOR./ NEW TOL.	06.12.12	A.S.
5	NEW VALUE OF INDUCTANCE	12.06.12	J.W.
7	REMOVE LOAD SPEC.	28.02.14	J.D.
REV	DESCRIPTION	DATE	APVD



SP1518M0104-A

SCALE FREE	APVD	S.Ha.	12.03.07
X ±0.5	CHKD		
1PL ±0.2	DRN	J.W.	23.10.06
2PL ±0.1	SIGNATURE		
ANGLE ±30'	DATE		

STEPPING MOTOR

DWG.NO

SP1518M0104-A