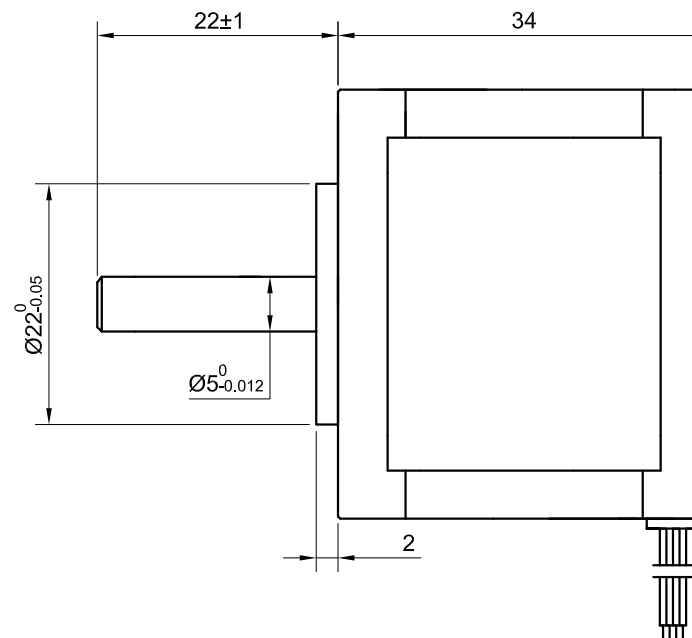
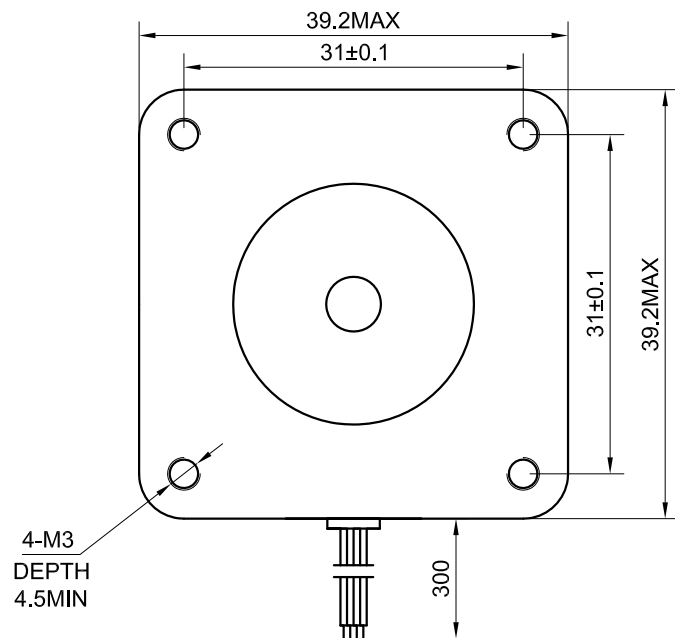


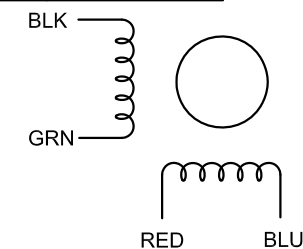


| SPECIFICATION                                                                     | CONNECTION | BIPOLAR    |
|-----------------------------------------------------------------------------------|------------|------------|
| VOTAGE(VOC)                                                                       |            | 4.55       |
| AMPS/PHASE                                                                        |            | 0.65       |
| RESISTANCE/PHASE(Ohms)@25°C                                                       |            | 7.00±10%   |
| INDUCTANCE/PHASE(mH)@1KHz                                                         |            | 9.30±20%   |
| HOLDING TORQUE(Nm)[lb-in]                                                         |            | 0.18[1.59] |
| STEP ANGLE(°)                                                                     |            | 1.80       |
| STEP ACCURACY(NON-ACCUM)                                                          |            | ±5.00%     |
| ROTOR INERTIA(g-cm²)                                                              |            | 20.00      |
| WEIGHT(Kg)[lb]                                                                    |            | 0.18[0.40] |
| TEMPERATURE RISE:MAX.80°C (MOTOR STANDSTILL;FOR 2PHASE ENERGIZED )                |            |            |
| AMBIENT TEMPERATURE -10°C~50°C[14°F~122°F]                                        |            |            |
| INSULATION RESISTANCE 100 Mohm (UNDER NORMAL TEMPERATURE AND HUMIDITY )           |            |            |
| INSULATION CLASS B 130°C[266°F]                                                   |            |            |
| DIELECTRIC STRENGTH 500VAC FOR 1MIN.(BETWEEN THE MOTOR COILS AND THE MOTOR CASE ) |            |            |
| AMBIENT HUMIDITY MAX.85%(NO CONDENSATION)                                         |            |            |

| TYPE OF CONNECTION<br>(EXTERN) |         | MOTOR |         |
|--------------------------------|---------|-------|---------|
| PIN NO                         | BIPOLAR | LEADS | WINDING |
| 1                              | A —     | BLK   |         |
| 2                              | A\ —    | GRN   |         |
| 3                              | B —     | RED   |         |
| 4                              | B\ —    | BLU   |         |

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

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



|       |           |      |  |
|-------|-----------|------|--|
|       | APVD      |      |  |
|       | CHKD      |      |  |
| 1.5:1 | DRN       |      |  |
| SCALE | SIGNATURE | DATE |  |

STEPPER MOTOR

16HS13-0654S