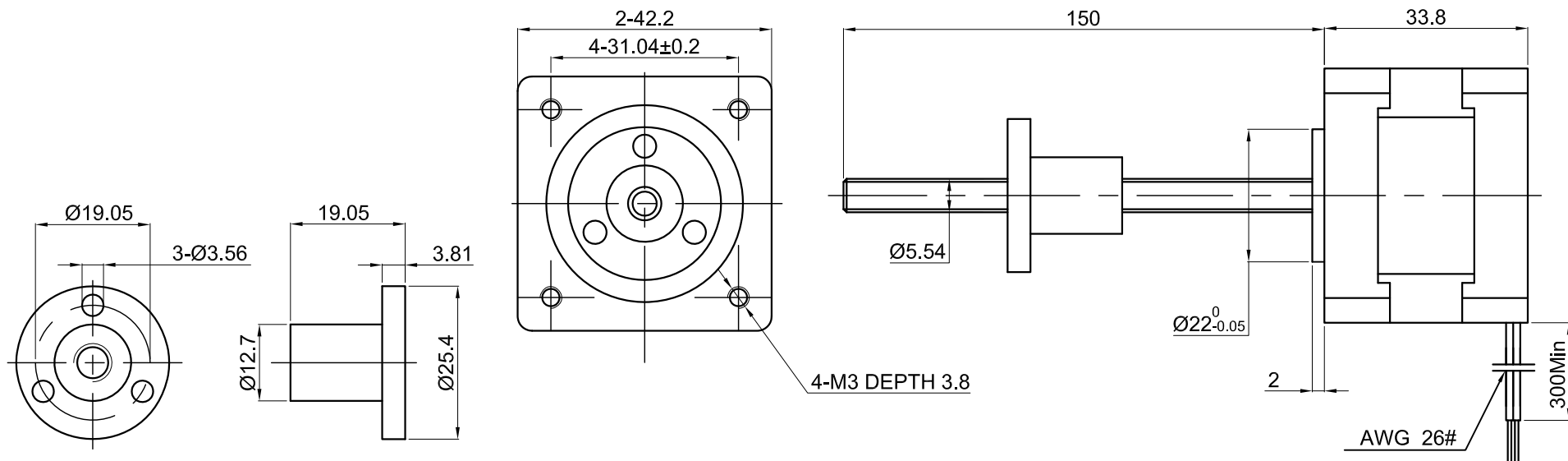




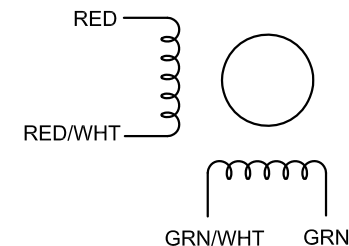
| SPECIFICATION               | CONNECTION | BIPOLAR  |
|-----------------------------|------------|----------|
| VOTAGE(VOC)                 |            | 2.33     |
| AMPS/PHASE                  |            | 1.50     |
| RESISTANCE/PHASE(Ohms)@25°C |            | 1.56±10% |
| INDUCTANCE/PHASE(mH)@1KHz   |            | 1.90±20% |
| MINIMAL THRUST(N)@300 PPS   |            | 196.00   |
| LEAD(mm)                    |            | 2.4384   |
| LINEAR TRAVEL/STEP(mm)      |            | 0.012192 |
| STEP ANGLE(°)               |            | 1.80     |
| STEP ACCURACY(NON-ACCUM)    |            | ±5.00%   |
| LEAD TYPE                   |            | AWG 26   |

|                                                                                   |
|-----------------------------------------------------------------------------------|
| 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 (EXTERN) |         | MOTOR   |         |
|-----------------------------|---------|---------|---------|
| PIN NO                      | BIPOLAR | LEADS   | WINDING |
| 1                           | A —     | RED     | A       |
| 2                           | A\ —    | RED/WHT | A\      |
| 3                           | B —     | GRN/WHT | B       |
| 4                           | B\ —    | GRN     | B\      |

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

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



|       |           |      |
|-------|-----------|------|
| APVD  |           |      |
| CHKD  |           |      |
| DRN   |           |      |
| SCALE | SIGNATURE | DATE |

STEPPER MOTOR

17LS13-1504J-150E