



| Item             | Specification      | Item                | Specification   |
|------------------|--------------------|---------------------|-----------------|
| Phase Number     | 2                  | Step Angle          | 1.8° ± 5%       |
| Rated Voltage    | DC 3.0V / Phase    | Rated Current       | DC 2.5A / Phase |
| Phase Resistance | 1.2x(1±20%) Ω      | Phase Inductance    | 1.5x(1±20%) mH  |
| Holding Torque   | 5.5Kgf-cm (55N-cm) | Detent Torque       | 20 mN-m REF.    |
| Rotate Direction | A-AB-B CW          | Insulate Resistance | 100Mohm(DC500V) |
| HI-POT           | AC600V/1mA/1S      | Insulation Class    | Class H 180°C   |
| Rotor Inertia    | 84.5 g-cm² REF     | Weight              | 0.35 Kg REF     |
|                  |                    |                     |                 |

|                   |                    |                  |   |              |                  |
|-------------------|--------------------|------------------|---|--------------|------------------|
|                   |                    |                  |   |              |                  |
| A                 | ---                | NEW RELEASE      | Xu SD   | J.B.         | 10/18/21         |
| REV.              | ECN NO.            | DESCRIPTION      | MADE BY   | APPR. BY     | DATE             |
|                   |                    | VIEW<br>         | <b>LDO Motors Co., Ltd.</b><br>Part NO.<br><b>1.8° NEMA17 Stepper Motor HT</b><br><b>LDO-42STH48-2504AH</b> |              |                  |
|                   |                    | SCALE<br>NA      |   |              |                  |
| DRAWN BY<br>Xu SD | CHECKED BY<br>J.B. | APPR. BY<br>J.B. | DATE<br>10/18/21  | FACTORY CODE | SHEET NO.<br>1/1 |