

- 110mm, 1.8Degree Enhanced Hybrid Stepper Motor



Technical drawing of the 1000 Series Single-Port RJ45 Module, showing front and top views with dimensions and tolerances.

**Front View Dimensions:**

- Overall Length:  $Length$
- Top Surface Flatness:  $0.07 A$
- Left Edge Surface Texture:  $0.03$  (Symbol:  $\sqrt{\text{A}}$ )
- Left Edge Hole Diameter:  $\varnothing 19.05_{-0.013}^{+0.013}$
- Left Edge Hole Position:  $4.75_{-0.05}^{+0.05}$
- Port Opening Diameter:  $34.93$
- Port Opening Position:  $1.52$
- Port Opening to Bottom Edge Distance:  $55.63 \pm 0.8$
- Bottom Edge Distance:  $12.5$
- Bottom Edge Connector:  $AWG\#22 \text{ UL1007}$   
 $L=600mm$

**Top View Dimensions:**

- Overall Width:  $\square 110MAX$
- Port Opening Diameter:  $88.92 \pm 0.2$
- Port Opening Position:  $\varnothing 55.52 \pm 0.05$
- Right Edge Surface Texture:  $0.10 A$  (Symbol:  $\sqrt{\text{A}}$ )
- Right Edge Hole Diameter:  $16.33_{-0.40}^{+0.40}$
- Right Edge Hole Position:  $4-\varnothing 8.5 \pm 0.2$  THRU

| Part No.   | Connection | Phase Current | Phase Resistance | Phase Inductance | Holding Torque | Detent Torque | No.of Wires | Rotor Inertia         | Length | Weight |
|------------|------------|---------------|------------------|------------------|----------------|---------------|-------------|-----------------------|--------|--------|
|            |            | (A)           | (OHMS)           | (mH)             | (Nm)           | (Nm)          |             | (Kg.cm <sup>2</sup> ) | (mm)   | (Kg)   |
| MP110YG100 | Parallel   | 10.7          | 0.16             | 2.8              | 11.68          | 0.3           | 8           | 5.5                   | 99     | 4.96   |
|            | Series     | 5.3           | 0.63             | 11.1             | 11.68          | 0.3           | 8           | 5.5                   | 99     | 4.96   |
|            | Unipolar   | 7.5           | 0.31             | 2.8              | 8.26           | 0.3           | 8           | 5.5                   | 99     | 4.96   |
| MP110YG200 | Parallel   | 15.8          | 0.1              | 2.1              | 22.09          | 0.59          | 8           | 10.9                  | 150    | 8.34   |
|            | Series     | 7.9           | 0.41             | 8.4              | 22.09          | 0.59          | 8           | 10.9                  | 150    | 8.34   |
|            | Unipolar   | 11.2          | 0.21             | 2.1              | 15.63          | 0.59          | 8           | 10.9                  | 150    | 8.34   |
| MP110YG300 | Parallel   | 15.4          | 0.14             | 3.2              | 30.81          | 0.75          | 8           | 16.2                  | 201    | 11.64  |
|            | Series     | 7.7           | 0.55             | 13               | 30.81          | 0.75          | 8           | 16.2                  | 201    | 11.64  |
|            | Unipolar   | 10.9          | 0.28             | 3.2              | 21.81          | 0.75          | 8           | 16.2                  | 201    | 11.64  |