

**Characteristics:**

Compact DC Motor, High Power Density, High Efficiency

**Specifications:**

|                                  |                    |
|----------------------------------|--------------------|
| Dimensions (in)                  | : Ø 1.19 X 1.83 in |
| Shaft Diameter (in)              | : Ø 0.091 in       |
| Input Voltage (V)                | : 12.0 V DC        |
| No Load Speed (rpm)              | : 5000 rpm         |
| No Load Current (A)              | : 0.15 A           |
| Nominal Speed (rpm)              | : 3850 rpm         |
| Nominal Torque (lb.in)           | : 0.03 lb.in       |
| Nominal Current (A)              | : 0.70 A           |
| Stall Torque (lb.in)             | : 0.46 lb.in       |
| Stall Current (A)                | : 2.76 A           |
| Maximum Output Power (hp)        | : 0.009 hp         |
| Maximum Efficiency (%)           | : 53.80%           |
| Torque at Max Efficiency (lb.in) | : 0.09 lb.in       |
| Speed at Max Efficiency (rpm)    | : 4060 rpm         |
| Life (Typical)                   | : 1000 hr          |
| Weight (oz)                      | : 4.02 oz          |
| Operating Temperature Range (°F) | : 14 to 131 °F     |
| Storage Temperature Range (°F)   | : -4 to 176 °F     |
| Electrical Connection            | : Terminals        |

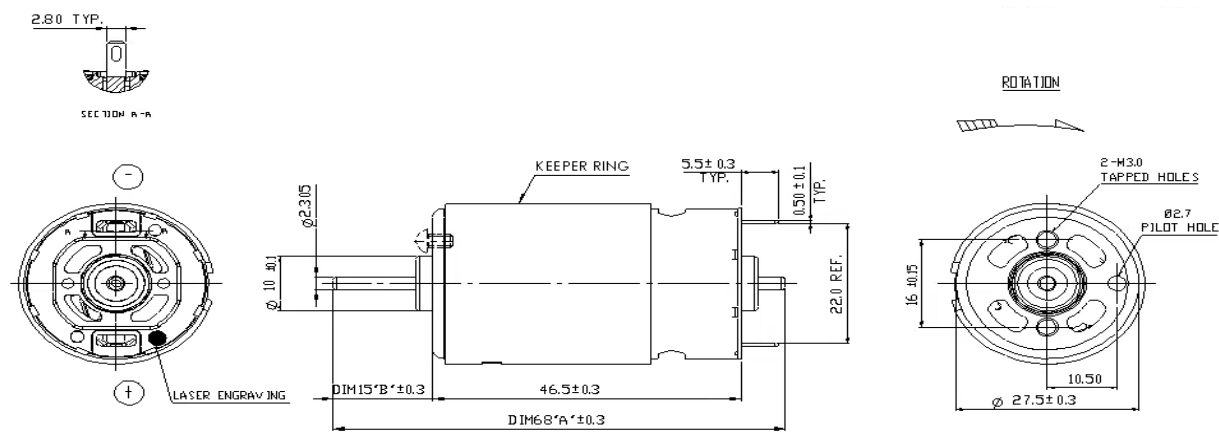
**Performance Data:**

|                   | No Load | Stall | Max Efficiency | Max Power |
|-------------------|---------|-------|----------------|-----------|
| Current (A)       | 0.15    | 2.76  | 0.64           | 1.45      |
| Efficiency (%)    | -       | -     | 53.80          | 38.00     |
| Output Power (hp) | -       | -     | 0.01           | 0.01      |
| Speed (rpm)       | 5000.00 | -     | 4060.00        | 2509.00   |
| Torque (lb.in)    | -       | 0.46  | 0.09           | 0.23      |

**Application Examples:**

Robotic Vacuum Cleaners

Drawing:



Performance Curves:

