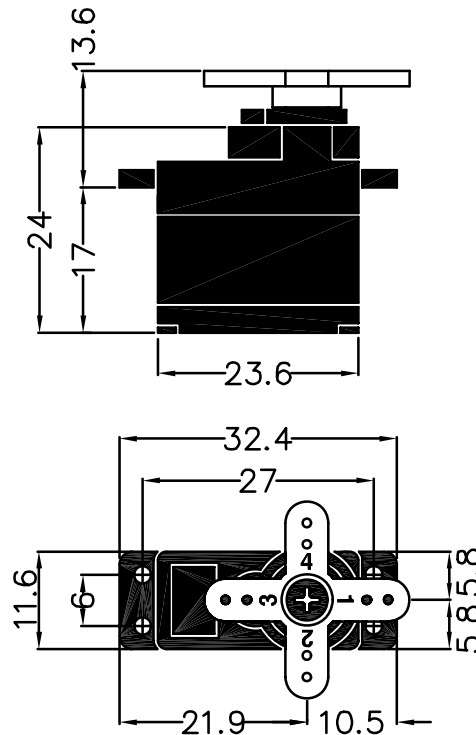


# GENERAL SPECIFICATION OF HS-5065MG HIGH TORQUE DIGITAL FEATHER SERVO

## 1. TECHNICAL VALUE

|                               |   |
|-------------------------------|---|
| CONTROL SYSTEM                | : +PULSE WIDTH CONTROL 1500usec NEUTRAL       |
| OPERATING VOLTAGE RANGE       | : 4.8V TO 6.0V                                |
| OPERATING TEMPERATURE RANGE   | : -20°C TO +60°C(-4°F TO +140°F)              |
| TEST VOLTAGE                  | : AT 4.8V                                     |
| OPERATING SPEED               | : 0.14sec/60° AT NO LOAD                      |
| STALL TORQUE                  | : 1.8kg.cm(24.99oz.in)                        |
| IDLE CURRENT                  | : 3mA AT STOPPED                              |
| RUNNING CURRENT               | : 180mA/60° AT NO LOAD                        |
| STALL CURRENT                 | : 960mA                                       |
| DEAD BAND WIDTH               | : 2usec                                       |
| OPERATING TRAVEL              | : 40°/ONE SIDE PULSE TRAVELING 400usec        |
| DIRECTION                     | : CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec |
| MOTOR TYPE                    | : CORED METAL BRUSH/Nd MAGNET                 |
| POTENTIOMETER TYPE            | : 2 SLIDER/DIRECT DRIVE                       |
| DIMENSIONS                    | : 23.6x11.6x24mm(0.92x0.45x0.94in)            |
| WEIGHT                        | : 11.9g(0.42oz)                               |
| BALL BEARING                  | : SINGLE/MR85                                 |
| GEAR MATERIAL                 | : 1 RESIN & 4 METAL GEARS                     |
| HORN GEAR SPLINE              | : 25 SEGMENTS/∅5                              |
| SPLINED HORNS                 | : MICRO23: M23-I, M23-X                       |
| CONNECTOR WIRE LENGTH         | : 160mm(6.29in)                               |
| CONNECTOR WIRE STRAND COUNTER | : 20 EA                                       |
| CONNECTOR WIRE GAUGE          | : 28AWG                                       |

|                        |
|------------------------|
| REFERENCE USE ONLY     |
| AT 6.0V                |
| 0.11sec/60° AT NO LOAD |
| 2.2kg.cm(30.55oz.in)   |
| 3mA AT STOPPED         |
| 220mA/60° AT NO LOAD   |
| 1200mA                 |
| 2usec                  |



## 2. FEATURES

- 4 METAL GEARS WITH 1 BALL BEARING
- HIGH EFFICIENCY Nd MAGNET MOTOR

## 3. APPLICATIONS

- FAST PARK FLYING MODELS. ELECTRIC MICRO PLANE, MAV
- 1/18 SCALE CARS