GENERAL SPECIFICATION OF
HSB-9380TH ULTRA TORQUE BLDC SERVO

1. TECHNICAL VALUE
   CONTROL SYSTEM: PULSE WIDTH CONTROL 1500usec NEUTRAL
   OPERATING VOLTAGE RANGE: 6.0V TO 7.4V
   OPERATING TEMPERATURE RANGE: -20°C TO +60°C (-4°F TO +140°F)
   TEST VOLTAGE: AT 6.0V
   OPERATING SPEED: 0.17sec/60° AT NO LOAD
   STALL TORQUE: 34.0kg.cm (472.16oz.in)
   STANDING TORQUE: 34.0kg.cm (472.16oz.in)
   IDLE CURRENT: 27mA AT STOPPED
   RUNNING CURRENT: 250mA AT NO LOAD RUNNING
   STALL CURRENT: 2700mA
   DEAD BAND WIDTH: 1usec
   OPERATING TRAVEL: ONE SIDE PULSE TRAVELING 400usec
   DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
   MOTOR TYPE: BLDC
   POTENTIOMETER TYPE: 4 SIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE
   AMPLIFIER TYPE: DSPIC33 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DIMENSIONS: 40x20x38mm (1.57x0.79x1.50in)
   WEIGHT: 88g (2.40oz)
   BALL BEARING: DUAL/MAR06
   GEAR MATERIAL: METAL - PLASTIC & 3 TITANIUM ALLOY
   HORN GEAR SPLINE: 25 SEGMENTS/66.0
   SPLINED HORN: HEAVY DUTY/LS25, IM25, OS25, X25, IL25, LL25, IG25, LG25
   CONNECTOR WIRE LENGTH: 300mm (11.81in)
   CONNECTOR WIRE STRAND COUNTER: 80EA
   CONNECTOR WIRE GAUGE: 20AWG

2. FEATURES
   PROGRAMMABLE DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DURABLE TITANIUM ALLOY METAL GEARS WITH DUAL BALL BEARING
   ULTRA HARDNESS GEAR SHAFT WITH 3 AXIAL METAL BUSHING
   WATER & DUST RESISTANT
   HEAT SINK FOR MOTOR

3. APPLICATIONS
   LARGE AIR PLANE MODELS

HITEC RCD KOREA INC.