GENERAL SPECIFICATION OF
HSR-M9382TH 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 AT 7.4V
   OPERATING SPEED: 0.17/sec/60° AT NO LOAD 0.14sec/60° AT NO LOAD
   STALL TORQUE: 34.0kg.cm (472.16oz.in) 34.0kg.cm (472.16oz.in)
   STANDING TORQUE: ~
   IDLE CURRENT: 27mA AT STOPPED 27mA AT STOPPED
   RUNNING CURRENT: 250mA/NO LOAD RUNNING 250mA/NO LOAD RUNNING
   STALL CURRENT: 2700mA
   DEAD BAND WIDTH: 1μsec
   OPERATING TRAVEL: ONE SIDE PULSE TRAVELING 400usec
   DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
   MOTOR TYPE: BLDC
   POTENTIOMETER TYPE: MAGNETIC ENCODER
   AMPLIFIER TYPE: DSPIC33 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DIMENSIONS: 40x20x38mm (1.57x0.79x1.50in)
   WEIGHT: 72g (2.54oz)
   BALL BEARING: DUAL/MR106
   GEAR MATERIAL: 1 MPD & 3 TITANIUM ALLOY
   HORN GEAR SPLINE: 25 SEGMENTS/6.1
   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 2 AXIAL METAL BUSHING
   WATER & DUST RESISTANT
   MIDDLE METAL CASE

3. APPLICATIONS
   LARGE AIR PLANE MODELS

HITEC RCD KOREA INC.