GENERAL SPECIFICATION OF
HS-646WP ULTRA TORQUE WATER PROOF 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 : 0.20sec/60° AT NO LOAD 0.17sec/60° AT NO LOAD
   STALL TORQUE : 9.6kg.cm (133.32oz.in) 11.6kg.cm (161.09oz.in)
   STANDING TORQUE : -
   IDLE CURRENT : 8mA AT STOPPED
   RUNNING CURRENT : 400mA/NO LOAD RUNNING 600mA/NO LOAD RUNNING
   STALL CURRENT : 2000mA
   DEAD BAND WIDTH : 4usec
   OPERATING TRAVEL : 40±5°/ONE SIDE PULSE TRAVELING 400usec
   DIRECTION : CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
   MOTOR TYPE : 3-POLE FERRITE CORED CARBON BRUSH
   POTentiOMETER TYPE : 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE
   AMPLIFIER TYPE : HT7003 ANALOG AMPLIFIER WITH TRANSISTOR DRIVE
   DIMENSIONS : 41.8x21.0x40.0mm (1.65x0.83x1.57in)
   WEIGHT : 60g (2.12oz)
   BALL BEARING : DUAL/MR106
   GEAR MATERIAL : 3 Metal gears & 1 MP first gear
   HORN GEAR SPLINE : 24 SEGMENTS/∅5.76
   SPLINED HORNS : HEAVY DUTY/HD-IS,HD-O,HD-LS,HD-IL,HD-LL
   CONNECTOR WIRE LENGTH : 300mm (11.81in)
   CONNECTOR WIRE STRAND COUNTER : 60EA
   CONNECTOR WIRE GAUGE : 22AWG
   Duration of the test in water : 30min

2. FEATURES
   IP67 WATER PROOF
   DURABLE METAL GEARS WITH BALL BEARING
   ULTRA TORQUE
   HEAVY DUTY SPLINED HORNS

3. APPLICATIONS
   60 HELICOPTERS
   GAS & ELECTRIC CARS
   BOATS

HITEC RCD KOREA INC.