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
STANDING TORQUE: 11.6kg.cm (161.09oz.in)
OPERATING SPEED: 0.20sec/60° AT NO LOAD 0.17sec/60° AT NO LOAD
STALL TORQUE: 9.6kg.cm (133.32oz.in)
STALL CURRENT: 11.6kg.cm (161.09oz.in)
STAND CURRENT: 2200mA
DEAD BAND WIDTH: 4usec
OPERATING TRAVEL: 40±5°/ONE SIDE PULSE TRAVELING 400usec
DIRECTION: CLOCKWISE/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/Ø5.76
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.