GENERAL SPECIFICATION OF
HSB-9370TH MULTIPURPOSE 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 : 0.12sec/60° AT NO LOAD 0.10sec/60° AT NO LOAD
STALL TORQUE : 25.0kg.cm(347.17oz.in) 25.0kg.cm(347.17oz.in)
STANDING TORQUE : --
IDLE CURRENT : 27mA/NO LOAD RUNNING 27mA AT STOPPED
RUNNING CURRENT : 250mA/NO LOAD RUNNING 250mA/NO LOAD RUNNING
STALL CURRENT : 2700mA 2100mA
DEAD BAND WIDTH : 1usec 1usec
OPERATING TRAVEL : 40±5°/ONE SIDE PULSE TRAVELING 400usec
DIRECTION : CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
MOTOR TYPE : BLDC
POTentiOMETER TYPE : 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE
AMPLIFIER TYPE : DSPIC33 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE
DIMENSIONS : 40x20x38mm(1.57x0.79x1.50in)
WEIGHT : 68.0g(2.40oz)
BALL BEARING : DUAL/MR106
GEAR MATERIAL : 1 METAL-POLYMER & 3 TITANIUM ALLOY
HORN GEAR SPLINE : 25 SEGMENTS/Φ6.0
SPLINED HORNS : HEAVY DUTY/ LS25, IM25, X25, OS25, IL25, LL25
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 AIRPLANE MODELS

HITEC RCD KOREA INC.