GENERAL SPECIFICATION OF
HSB-9382THR RUDDER TRAY
ULTRA TORQUE DIGITAL 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: 6.0V AT 7.4V
OPERATING SPEED: 0.18sec/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 2100mA
DEAD BAND WIDTH: 1usec
OPERATING TRAVEL: ONE SIDE PULSE TRAVELING 400usec
DIRECTION: CLOCKWISE/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: 68g (2.40oz)
BALL BEARING: DUAL/MR106
GEAR MATERIAL: STEEL PLASTIC & 3 TITANIUM ALLOY
HORN GEAR SPLINE: 25 SEGMENTS/6.0
SPLINED HORNS: 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

HYBRID MPD 1st GEAR
DIAMOND CUT ALUMINUM HEAT SINK
HIGH VOLTAGE & RESPONSE DIGITAL SERVO
DURABLE TITANIUM ALLOY METAL GEARS WITH DUAL BALL BEARING
ULTRA HARDNESS GEAR SHAFT WITH 3 AXIAL METAL BUSHINGS
ENHANCED WATER & DUST RESISTANT
3mm HORN SCREW (+) & HEX SOCKET SCREW INCLUDE
APPLIED H25T HORN GEAR
12Bit RESOLUTION PROGRAMMABLE DIGITAL AMPLIFIER WITH BLDC MOTOR

3. APPLICATIONS

ALL CLASS OF AIRCRAFT
1/10 ~ 1/4 SCALE CAR STEERING & THROTTLE
NITRO & GASOLINE TRUCK & BOATS

HITEC RCD KOREA INC.