### GENERAL SPECIFICATION OF HSB-9475SH HIGH VOLTAGE BLDC SERVO

1. **TECHNICAL VALUE**
   - **CONTROL SYSTEM**: +PULSE WIDTH CONTROL 1500us/Sec NEUTRAL
   - **OPERATING VOLTAGE RANGE**: 6.0V TO 7.4V
   - **OPERATING TEMPERATURE RANGE**: -20°C TO +60°C (-68°F TO +140°F)
   - **TEST VOLTAGE**: AT 6.0V
   - **OPERATING SPEED**: 0.13sec/60° AT NO LOAD 0.1sec/60° AT NO LOAD
   - **STALL TORQUE**: 19.4kg.cm (269.4oz.in)
   - **STANDING TORQUE**: 19.4kg.cm (269.4oz.in)
   - **IDLE CURRENT**: 30mA AT STOPPED 30mA AT STOPPED
   - **RUNNING CURRENT**: 250mA/60° AT NO LOAD RUNNING 200mA/60° AT NO LOAD RUNNING
   - **STALL CURRENT**: 1100mA
   - **DEAD BAND WIDTH**: 1μsec
   - **OPERATING TRAVEL**: ONE SIDE PULSE TRAVELING 400μsec
   - **DIRECTION**: CLOCKWISE/PULSE TRAVELING 1500μsec TO 1900μsec
   - **MOTOR TYPE**: BLDC MOTOR
   - **POTENTIOMETER TYPE**: 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE
   - **AMPLIFIER TYPE**: DSPIC33 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE
   - **DIMENSIONS**: 40x20x37mm (1.57x0.78x1.46in)
   - **WEIGHT**: 62g (2.18oz) WITHOUT SPLINED HORN
   - **BALL BEARING**: DUAL/MR106
   - **GEAR MATERIAL**: 1 METAL—KARBONITE, 3 METAL GEARS
   - **HORN GEAR SPUR**: 25 SEGMENTS /#6.0
   - **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

![BLDC Motor Diagram](image)

2. **FEATURES**
   - PROGRAMMABLE DIGITAL AMPLIFIER WITH BLDC MOTOR
   - DURABLE HEAVY DUTY METAL GEARS WITH BALL BEARING
   - WATER & DUST TIGHT

3. **APPLICATIONS**
   - AIRCRAFT 20–60 SIZE, 60 SIZE HELICOPTERS, STEERING AND THROTTLE SERVO, TRUCK AND BOATS

**HITEC RCD KOREA INC.**