GENERAL SPECIFICATION OF
MDR845WP DIGITAL MEGA SCALE MONSTER TORQUE SERVO

1. TECHNICAL VALUE
   CONTROL SYSTEM: Pulse Width Control 1500usec Neutral
   OPERATING VOLTAGE RANGE: 4.8V TO 7.4V
   OPERATING TEMPERATURE RANGE: -20°C TO +60°C (-4°F TO +140°F)
   TEST VOLTAGE: AT 4.8V AT 6.0V AT 7.4V
   OPERATING SPEED: 0.26sec/60° 0.21sec/60° 0.17sec/60°
   STALL TORQUE: 32.5kg.cm (453.82oz.in) 40.5kg.cm (565.53oz.in) 50.0kg.cm (698.19oz.in)
   STANDING TORQUE: = =
   IDLE CURRENT: 30mA AT STOPPED 30mA AT STOPPED 30mA AT STOPPED
   RUNNING CURRENT: 1.100mA 1.250mA 1.600mA
   STALL CURRENT: 6.000mA 7.000mA 10.000mA
   DEAD BAND WIDTH: 2usec 2usec 2usec
   INPUT SIGNAL: ±5.0V 1500usec ±400usec ±600usec WITH TRIM
   OPERATING TRAVEL: ±1850° ONE SIDE PULSE TRAVELING 600usec
   DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 2100usec
   MOTOR TYPE: SCREWED CARBON BRUSHES, 5 POLES
   POTENTIOMETER TYPE: MAGNETIC ROTARY ENCODER
   AMPLIFIER TYPE: DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DIMENSIONS: 66.0x32.0x62.0mm (2.59x1.22x2.44in)
   WEIGHT: 227g (8.00oz)
   BALL BEARING: TWO MR148
   GEAR MATERIAL: ONE METAL—KARBONITE, 4 STEEL
   HORN GEAR SPLINE: 13 SEGMENT / ø6.77
   SPLINED HORNS: 1 Metal & 2 Resins (Q—MIA, Q—XA & QIA)
   CONNECTOR WIRE LENGTH: 300mm (11.81in)
   Duration of the test in water: 1MIN / 30min (IP67)
   Rotation angle: TOTAL 3600°

2. FEATURES
   - PROGRAMMABLE HIGH RESPONSE DIGITAL AMPLIFIER WITH MOSFET DRIVE
   - DURABLE STEEL GEARS WITH DUAL BALL BEARING
   - WATER & DUST RESISTANCE (IP67)
   - HEAT SINK FOR MOTOR

3. APPLICATIONS
   - AIRPLANE, GASOLIN CAR, INDUSTRY, UAV, ROBOTICS & SPECIAL EFFECTS

HITEC RCD KOREA INC.