GENERAL SPECIFICATION OF
MD89MW MICRO SIZE CORELESS MOTOR TORQUE SERVO

1. TECHNICAL VALUE
   CONTROL SYSTEM: PULSE WIDTH CONTROL 900~2100us, 1500us 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: 0.17sec/60° AT NO LOAD 0.13sec/60° AT NO LOAD 0.11sec/60° AT NO LOAD
   STALL TORQUE: ±4.8kg.cm (67.02oz.in) ±6.0g.cm (83.78oz.in) ±7.4kg.cm (103.33oz.in)
   STANDING TORQUE:
   IDLE CURRENT: 30mA AT STOPPED 30mA AT STOPPED 30mA AT STOPPED
   RUNNING CURRENT: 200mA 250mA 300mA
   STALL CURRENT: 1,800mA 2,340mA 2,900mA
   DEAD BAND WIDTH: 1us 1us 1us
   OPERATING TRAVEL: 40°~5° /ONE SIDE PULSE TRAVELING 400us
   DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 1900us
   DIRECTION:
   MOTOR TYPE: CORELESS METAL BRUSH
   POTENTIOMETER TYPE: MAGNETIC ENCODER
   AMPLIFIER TYPE: DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DIMENSIONS: 29x13x30mm (1.14x0.51x1.18in)
   WEIGHT: 25.0g (0.88oz)
   BALL BEARING: DUAL BEARING
   GEAR MATERIAL: 5 METAL GEARS
   HORN GEAR SPLINE: 25 SEGMENTS / Ø 6.00
   SPLINED HORNS:
   CONNECTOR WIRE LENGTH:
   CONNECTOR WIRE STRAND COUNTER:
   CONNECTOR WIRE GAUGE: 22AWG

2. FEATURES
   PROGRAMMABLE HIGH RESPONSENCE DIGITAL AMPLIFIER WITH MOSFET DRIVE
   DURABLE METAL GEARS WITH DUAL BALL BEARING
   MAGNETIC ENCODER

3. APPLICATIONS
   1500mm Wing Span Air Plane

HITEC RCD KOREA INC.