GENERAL SPECIFICATION OF
D89MW 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: 5.3kg.cm (73.6oz.in) 6.4kg.cm (88.88z.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° / 360° ONE SIDE PULSE TRAVELING 400us
DIRECTION: CLOCK WISE/PULSE TRAVELING 1500 TO 1900us
MOTOR TYPE: CORELESS METAL BRUSH
POTENTIOMETER TYPE: 1M CYCLE LONG LIFE/INDIRECT DRIVE
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/Ø6.00
SPLINED HORNS: M-O25
CONNECTOR WIRE LENGTH: 200mm (7.87in)
CONNECTOR WIRE STRAND COUNTER: 60EA
CONNECTOR WIRE GAUGE: 22AWG

2. FEATURES

PROGRAMMABLE HIGH RESPONSE DIGITAL AMPLIFIER WITH MOSFET DRIVE
DURABLE METAL GEARS WITH DUAL BALL BEARING

3. APPLICATIONS

1500mm Wing Span Air Plane

HITEC RCD KOREA INC.