GENERAL SPECIFICATION OF D946TW MULTI PURPOSE DIGITAL SERVO

1. TECHNICAL VALUE

CONTROL SYSTEM: +PULSE WIDTH CONTROL 1500usec NEUTRAL
OPERATING VOLTAGE RANGE: 3.5V TO 8.4V
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:
- 0.16sec/60°
- 0.12sec
- 0.10sec

STALL TORQUE:
- 14.0kg.cm (194.42oz.in)
- 18.0kg.cm (250.00oz.in)
- 23.0kg.cm (319.40oz.in)

STANDING TORQUE:
- 30mA
- 30mA
- 30mA

IDLE CURRENT:
- 30mA
- 30mA
- 30mA

RUNNING CURRENT:
- 390mA
- 470mA
- 470mA

STALL CURRENT:
- 3,700mA
- 4,800mA
- 6,200mA

DEAD BAND WIDTH:
- 1usec
- 1usec
- 1usec

OPERATING TRAVEL:
- 40±5°/ONE SIDE PULSE TRAVELING 400usec

DIRECTION:
- CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec

MOTOR TYPE:
- CORELESS METAL BRUSH

POTentiOMETER TYPE:
- 1M CYCLE LONG LIFE/INDIRECT DRIVE

AMPLIFIER TYPE:
- DIGITAL PROGRAMMABLE AMPLIFIER WITH MOSFET DRIVE

CASE TYPE:
- FULL METAL CASE

DIMENSIONS:
- 40x20x38mm (1.57x0.79x1.50in)

WEIGHT:
- 80g (2.82oz)

BALL BEARING:
- DUAL/MR106

GEAR MATERIAL:
- 1 METAL – PLASTIC & 3 TITANIUM ALLOY

HORN GEAR SPLINE:
- 25 SEGMENTS/Φ6.0

SPLINED HORN:
- HEAVY DUTY/HD-IS, HD-O, HD-LS, HD-IL, HD-LL

CONNECTOR WIRE LENGTH:
- 300mm (11.81in)

CONNECTOR WIRE STRAND COUNTER:
- 80EA

CONNECTOR WIRE GAUGE:
- 20AWG

2. FEATURES

PROGRAMMABLE DIGITAL AMPLIFIER WITH MOSFET DRIVE
DURABLE TITANIUM ALLOY METAL GEARS WITH DUAL BALL BEARING
WATER & DUST RESISTANT
FULL METAL CASE

3. APPLICATIONS

HITEC RCD KOREA INC.