GENERAL SPECIFICATION OF
D941TW ULTRA SPEED 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: 4.8V AT 6.0V AT 7.4V
OPERATING SPEED: 0.11sec/60° 0.08sec/60° 0.07sec/60°
STALL TORQUE: 10.0kg.cm(138.87oz.in) 13.5kg.cm(187.48oz.in) 16.5kg.cm(229.14oz.in)
STANDING TORQUE: -
IDLE CURRENT: 30mA AT STOPPED 30mA AT STOPPED 30mA AT STOPPED
RUNNING CURRENT: 390mA 390mA 500mA
STALL CURRENT: 3,700mA 4,800mA 6,200mA
DEAD BAND WIDTH: 1usec 1usec 1usec
OPERATING TRAVEL: 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: METAL-PLASTIC & 3 TITANIUM ALLOY
HORN GEAR SPLINE: 25 SEGMENTS/6.0
SPLINED HORNS: 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 RESISTANCE
FULL METAL CASE

3. APPLICATIONS

HITEC RCD KOREA INC.