GENERAL SPECIFICATION OF
D945TW MULTIPURPOSE DIGITAL SERVO

1. TECHNICAL VALUE

CONTROL SYSTEM  : PULSE WIDTH CONTROL 1500usec NEUTRAL
OPERATING VOLTAGE RANGE  : 6.0V 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  : 0.16sec/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  : - - -
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  : 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE
AMPLIFIER TYPE  : ATMEGA48 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE
DIMENSIONS  : 40x20x38mm(1.57x0.79x1.50in)
WEIGHT  : 68.0g(2.40oz)
BALL BEARING  : DUAL/MR106
GEAR MATERIAL  : 1 METAL-PLASTIC & 3 TITANIUM ALLOY
HORN GEAR SPLINE  : 25 SEGMENTS/#6.0
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
ULTRA HARDNESS GEAR SHAFT WITH 3 AXIAL METAL BUSHING
WATER & DUST RESISTANT
HEAT SINK FOR MOTOR

3. APPLICATIONS

LARGE AIR PLANE MODELS

HITEC RCD KOREA INC.