## ANNOUNCED SPECIFICATION OF HS-7950TH ULTRA TORQUE DIGITAL SERVO

## 1.TECHNICAL VALUE

CONTROL SYSTEM

OPERATING VOLTAGE RANGE

OPERATING TEMPERATURE RANGE

TEST VOLTAGE

OPERATING SPEED STALL TORQUE

STANDING TORQUE IDLE CURRENT

RUNNING CURRENT STALL CURRENT

DEAD BAND WIDTH OPERATING TRAVEL

DIRECTION MOTOR TYPE

POTENTIOMETER TYPE

AMPLIFIER TYPE

**DIMENSIONS** WEIGHT

BALL BEARING

GEAR MATERIAL

HORN GEAR SPLINE

SPLINED HORNS

CONNECTOR WIRE LENGTH

CONNECTOR WIRE GAUGE

:+PULSE WIDTH CONTROL 1500usec NEUTRAL

:6.0V TO 7.4V

 $:-20^{\circ}C$  TO  $+60^{\circ}C(-4^{\circ}F$  TO  $+140^{\circ}F)$ 

:AT 6.0V

0.13sec/60° AT NO LOAD :0.15sec/60° AT NO LOAD :29.0kg.cm(402.73oz.in) 35.0kg.cm(486.05oz.in)

AT 7.4V

:10mA/NO LOAD RUNNING 10mA AT STOPPED

:390mA/NO LOAD RUNNING 500mA/NO LOAD RUNNING

:4,800mA 6,200mA :1usec

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

:CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec

:CORELESS METAL BRUSH

:4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE

:ATMEGA48 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE

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

:68q(2.40oz):DUAL/MR106

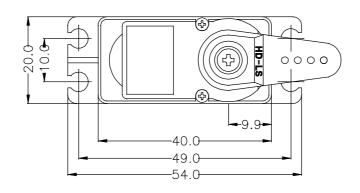
:1 MÉTAL-PLASTIC & 3 TITANIUM ALLOY

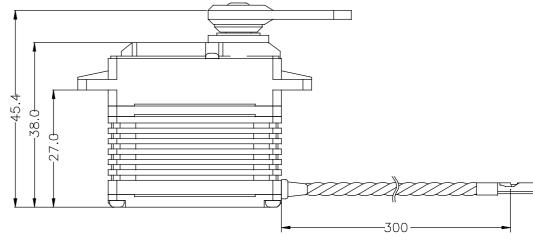
:24 SEGMENTS/Ø5.76

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

:300mm(11.81in)

CONNECTOR WIRE STRAND COUNTER:80EA :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