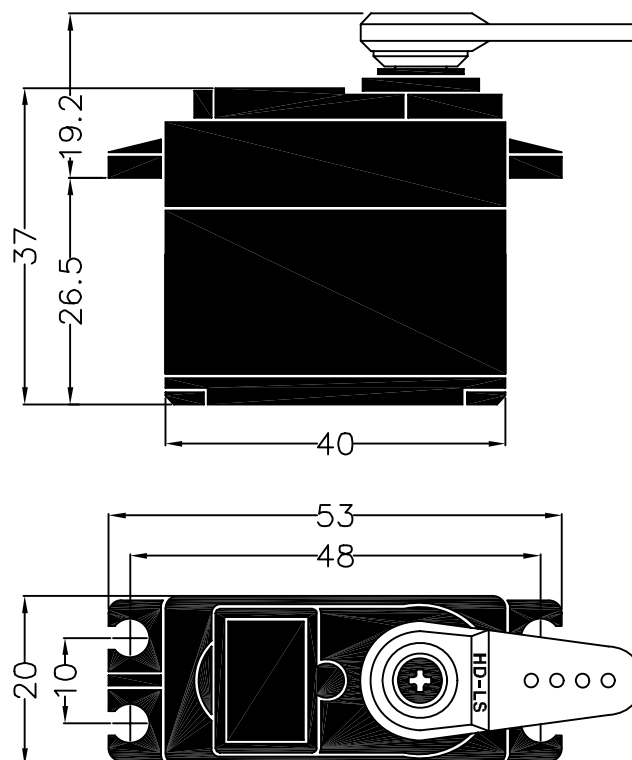


# GENERAL SPECIFICATION OF HS-7985MG CORELESS DIGITAL SERVO

## 1. TECHNICAL VALUE

CONTROL SYSTEM	:±PULSE WIDTH CONTROL 1500usec NEUTRAL	
OPERATING VOLTAGE RANGE	:4.8V TO 6.0V	
OPERATING TEMPERATURE RANGE	:−20° C TO +60° C(−68° F TO +140° F)	
TEST VOLTAGE	:AT 4.8V	AT 6.0V
OPERATING SPEED	:0.16sec/60° AT NO LOAD	0.13sec/60° AT NO LOAD
STALL TORQUE	:10.4kg.cm(144.42oz.in)	12.4kg.cm(172.20oz.in)
STANDING TORQUE	:13.5kg.cm(187.47oz.in)/5° HOLDOUT	16.1kg.cm(223.86oz.in)/5° HOLDOUT
IDLE CURRENT	:9mA AT STOPPED	9mA AT STOPPED
RUNNING CURRENT	:200mA/60° AT NO LOAD RUNNING	240mA/60° AT NO LOAD RUNNING
STALL CURRENT	:2400mA	3000mA
DEAD BAND WIDTH	:1usec	1usec
OPERATING TRAVEL	:40° /ONE SIDE PULSE TRAVELING 400usec	
DIRECTION	:CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec	
MOTOR TYPE	:CORELESS METAL BRUSH	
POTENTIOMETER TYPE	:6 SLIDER/INDIRECT DRIVE	
AMPLIFIER TYPE	:DIGITAL CONTROLLER & MOSFET DRIVER	
DIMENSIONS	:40x20x37mm(1.57x0.78x1.45in)	
WEIGHT	:62g(2.18oz)WITHOUT SPLINED HORN	
BALL BEARING	:DUAL/MR106	
GEAR MATERIAL	:1 METAL-KARBONITE, 3 METAL GEARS	
HORN GEAR SPLINE	:24 SEGMENTS/∅5.76	
SPLINED HORNS	:HEAVY DUTY/HD-IL,HD-IS,HD-O,HD-LL,HD-LS	
CONNECTOR WIRE LENGTH	:300mm(11.81in)	
CONNECTOR WIRE STRAND COUNTER	:60EA	
CONNECTOR WIRE GAUGE	:22AWG	



## 2. FEATURES

- PROGRAMMABLE DIGITAL AMPLIFIER WITH CORELESS MOTOR
- DURABLE HEAVY DUTY METAL GEARS WITH BALL BEARING
- WATER & DUST TIGHT

## 3. APPLICATIONS

AIRCRAFT 20-60 SIZE, 60 SIZE HELICOPTERS, STEERING AND THROTTLE SERVO, TRUCK AND BOATS