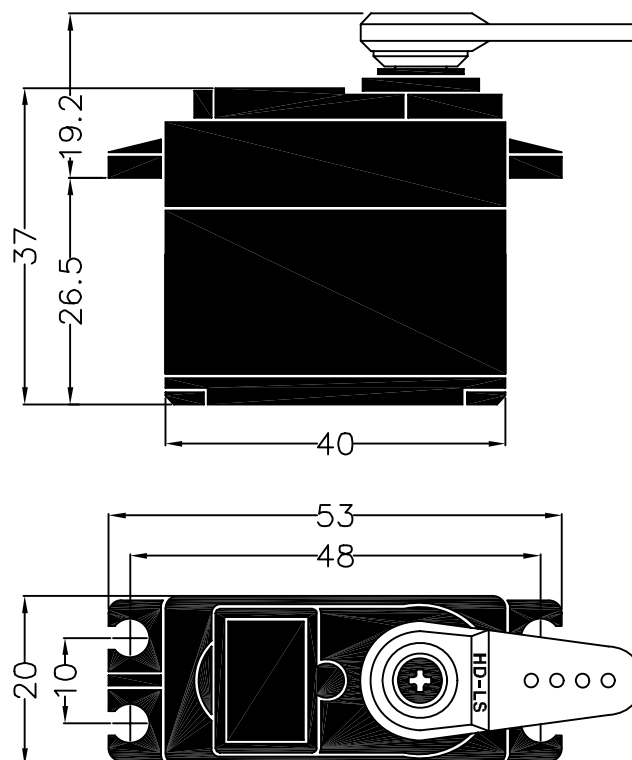


GENERAL SPECIFICATION OF HS-7985MG CORELESS DIGITAL SERVO

1. TECHNICAL VALUE

CONTROL SYSTEM	: ± PULSE WIDTH CONTROL 1500µsec 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	: 1µsec	1µsec
OPERATING TRAVEL	: 40° / ONE SIDE PULSE TRAVELING 400µsec	
DIRECTION	: CLOCK WISE/PULSE TRAVELING 1500 TO 1900µsec	
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