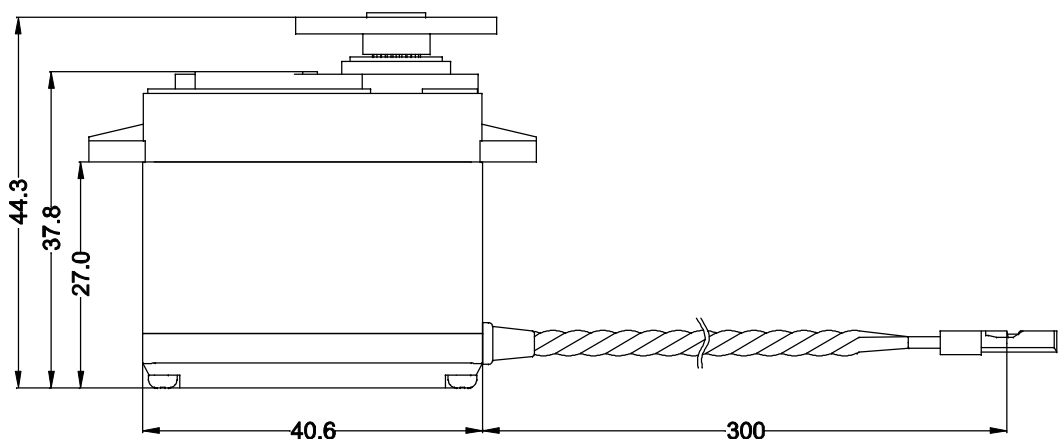
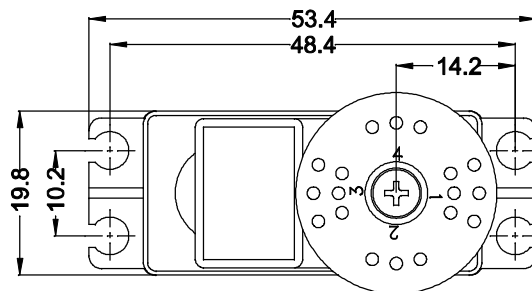


# GENERAL SPECIFICATION OF HS-5685MH DIGITAL SUPER TORQUE SERVO

## 1. TECHNICAL VALUES

CONTROL SYSTEM	:+PULSE WIDTH CONTROL 1500usec NEUTRAL, 900~2100us/20ms FRAME	
OPERATING VOLTAGE RANGE	:6.0V TO 7.4V	
OPERATING TEMPERATURE RANGE	:-20 TO +60°C(-4°F TO +140°F)	
TEST VOLTAGE	: AT 6.0V	: AT 7.4V
OPERATING SPEED	: 0.2sec/60° AT NO LOAD	: 0.17sec/60° AT NO LOAD
STALL TORQUE	: 11.3kg.cm(156.92oz.in)	: 12.90kg.cm(179.14oz.in)
STANDING TORQUE	: -	: -
IDLE CURRENT	: 6mA	: 7mA
RUNNING CURRENT	: 280mA	: 350mA
STALL CURRENT	: 2100mA	: 2600mA
DEAD BAND WIDTH	: 4usec	
OPERATING ANGLE	: 40°/ONE SIDE PULSE TRAVELING 400usec	
DIRECTION	: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec	
MOTOR TYPE	: 3-POLE MOTOR	
POTENTIOMETER TYPE	: 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE	
AMPLIFIER TYPE	: ATMEGA8 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE	
DIMENSIONS	: 40.6x19.8x37.8mm(1.59x0.77x1.48in)	
WEIGHT	: 57g(2.01oz)	
BALL BEARING	: DUAL/MR106	
GEAR MATERIAL	: 3 Metal gears & 1 MP first gear	
HORN GEAR SPLINE	: 24 SEGMENTS/ø5.76	
SPLINED HORNS	: HEAVY DUTY/HD-IS, HD-O, HD-LS, HD-IL, HD-LL	
CONNECTOR WIRE LENGTH	: 300mm(11.81in)	
CONNECTOR WIRE STRAND COUNTER	: 0.08X60EA	
CONNECTOR WIRE GAUGE	: 22AWG	



## 2. FEATURES

DIGITAL & MOS FET AMP  
PROGRAMABLE  
GOLD PLATED CONTACTOR  
NARROW DEAD BAND WIDTH AND HIGH STANDING TORQUE  
SIX ADJUSTABLE SPLINED HORN

## 3. APPLICATIONS

30 SIZE HELICOPTERS  
GAS & ELECTRIC CARS  
BOATS