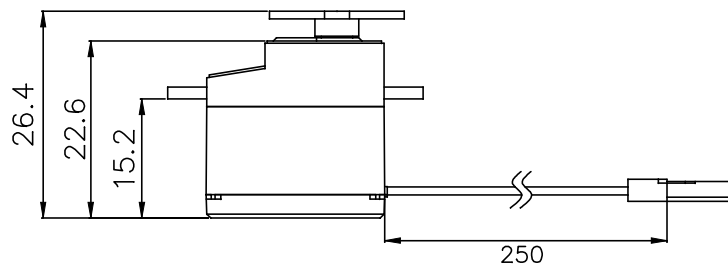
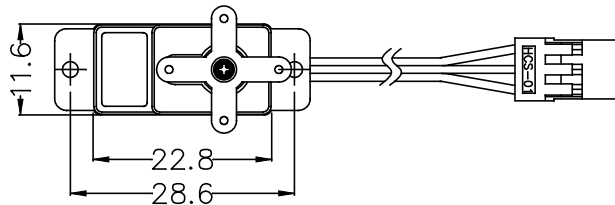


GENERAL SPECIFICATION OF HS-53 FEATHER SERVO

1. TECHNICAL VALUE

CONTROL SYSTEM	:+PULSE WIDTH CONTROL 1500usec NEUTRAL/20ms Refresh Cycle	
OPERATING VOLTAGE RANGE	:4.8V ~ 6V	
OPERATING TEMPERATURE RANGE	:-20° C TO +60° C(-4° F TO +140° F)	
TEST VOLTAGE	:AT 4.8V	:AT 6.0V
OPERATING SPEED	:0.14sec/60° AT NO LOAD	:0.11sec/60° AT NO LOAD
STALL TORQUE	:1.5kg.cm(20.94oz.in)	:1.9kg.cm(26.53oz.in)
STANDING TORQUE	:1.0kg.cm(13.96oz.in)/5° HOLDOUT	:1.2kg.cm(13.96oz.in)/5° HOLDOUT
IDLE CURRENT	:8mA AT STOPPED	:8mA AT STOPPED
RUNNING CURRENT	:150mA/60° AT NO LOAD	:200mA/60° AT NO LOAD
STALL CURRENT	:500mA	:600mA
DEAD BAND WIDTH	:5usec	:5usec
OPERATING TRAVEL	:60° /ONE SIDE PULSE TRAVELING 600usec	
DIRECTION	:CLOCK WISE/PULSE TRAVELING 1500 TO 2100usec	
ROTATIONAL LIFE	:15,000cycle MIN/0.4kg.cm LOADED	
GEAR STRENGTH	:2.0kg.cm(27.77oz.in) MIN	
MOTOR TYPE	:CORELESS METAL BRUSH	
POTENTIOMETER TYPE	:3 SLIDER/DIRECT DRIVE	
AMPLIFIER TYPE	:ANALOG SMT(KC2462)	
DIMENSIONS	:22.8x11.6x22.6mm(0.89x0.45x0.89in)	
WEIGHT	:8g(0.28oz)	
GEAR MATERIAL	:POM NORMAL RESIN(White)	
CASE MATERIAL	:POM RESIN	
HORN GEAR SPLINE	:15 SEGMENTS/∅4	
SPLINED HORNS	:FEATHER/FS-X,FS-IS,FS-IL	
CONNECTOR WIRE LENGTH	:250mm(9.84in)	
CONNECTOR WIRE STRAND COUNTER	:20 EA	
CONNECTOR WIRE GAUGE	:28AWG	



2. FEATURES

HIGH IMPACT GEARS

3. APPLICATIONS

FAST PARK FLYING MODELS. ELECTRIC MICRO PLANE, MAV