


## ADS-850MG/ Quarter Scale Large Digital Servo (High Torque)

Control System	Positive PWM control 1500 usec Neutral	
Operation Voltage Range	4.8V ~ 6.0V	
Operation Temperature Range	-20C° ~ +60C° (-4°F ~ 140°F)	
Test Voltage:	<b>At 4.8V (Ni-cd)</b>	<b>At 6.0V (Ni-cd)</b>
Stall Torque	19.8kg-cm , 262 oz-in	24.3kg-cm , 348 oz-in
Standing Torque	20.9kg-cm , 280 oz-in	25.9kg-cm , 362 oz-in
Speed	0.16 sec / 60° at no load	0.13 sec / 60° at no load
Idle Current	2mA at stopped	2mA at stopped
Running Current	910mA at no load	960mA at no load
Stall Current	3200mA	3450mA
Dead band width	2 usec	2 usec
Operation Travel	40°/ one side pulse travel 400 usec	
Direction	Re-clock wise/ Pulse Travel 1500 to 1900 usec	
Motor Type	NdFeB 3 pole motor	
Potentiometer Type	4 Slider/indirect drive	
Amplifier Type	Digital Control & Double 2A Transistors	
Dimensions	59.1 x 26.9 x 58.0 mm / 1.72 x 0.79 x 1.69 in.	
Weight:	102 grams / 3.68 oz. without splined horn	
Ball Bearing	Dual / M10x6	
Gear Material	Metal Gear	
Horn Gear Spline	Metal 25 Tooth (External diameter: 5.9mm)	
Connector Wire Length	200mm (7.65inch)	
Connector Wire Stand Counter	60EA	
Connector Wire Gauge	22AWG	
Wire Info (Black)	- Negative	
Wire Info (Red)	+ Positive	
Wire Info (White)	S Single	

### Spare Parts Items

Servo Gear Set	<#10709> ADS-850HMG(Metal Gears)	
Servo Case Set	<#10710> ADS-850HMG(Outside case)	
Servo Accessories	<#10711> ADS-850HMG(Accessories - Horn & screws & rubber )	

