


# ADS-640LMG / Low Profile 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	7.4kg/cm , 112 oz/in	9.0kg/cm , 134 oz/in
Standing Torque	7.8kg/cm , 117 oz/in	9.8kg/cm , 139 oz/in
Speed	0.16 sec / 60° at no load	0.14 sec / 60° at no load
Idle Current	2mA at stopped	2mA at stopped
Running Current	320mA at no load	355mA at no load
Stall Current	1120mA	1300mA
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	High Response Coreless Motor	
Potentiometer Type	4 Slider/indirect drive	
Amplifier Type	DigitalControl & Double 2A Transistors	
Dimensions	42 x 20.0 x 22 mm / 1.65 x 0.78 x 0.87 inch	
Weight:	34g / 1.19oz 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	<#10701> ADS-640LMG(Metal Gears)	
Servo Case Set	<#10704> ADS-640LMG(Outside case)	
Servo Accessories	<#10705> ADS-640LMG(Accessories - Horn & screws & rubber )	

