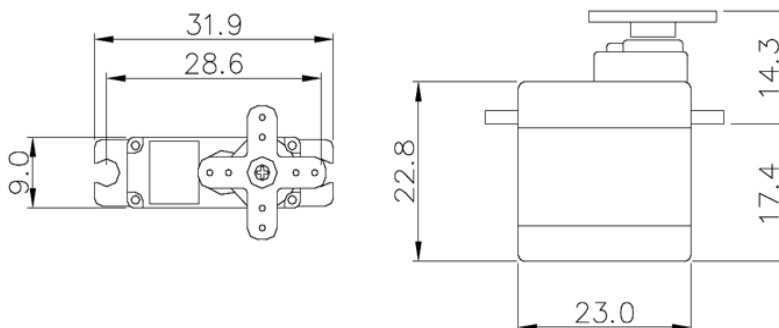


HYPERION ATLAS PROGRAMMABLE DIGITAL SERVOS - DS09 MICRO SERIES

Hyperion Part Number >>>	HP-DS09SCD	HP-DS09AMD	HP-DS09GMD
Weight	7.45g*	8.4g*	
Speed sec/60 deg 4.8V/5.5V	0.15/0.13	0.18/0.15	0.06/0.05
Dynamic torque Kg/cm 4.8V/5.5V	1.6/2.0	2.0/2.4	0.8/1.0
Holding torque Kg/cm 4.8V/5.5V	3.2/4.0	4.0/4.8	1.6/2.0
Dimensions mm	23.0 x 9.0 x 22.80		
Gear Train Primary Material	CarbonPoly	Metal	
Bearing	top and bottom ball bearings		
Required Pulse	2.5 ~ 5.0 Volt Peak to Peak Square Wave		
Operating Temp	-20 to +60 Degree C		
Current Drain (4.8V)	6.0mA/idle, 130mA noload		6.0mA/idle, 190mA noload
Current Drain (5.5V)	6.0mA/idle, 135mA noload		6.0mA/idle, 220mA noload
Stall Current (4.8V)	400mA		700mA
Stall Current (5.5V)	430mA		780mA
Minimum Input Voltage	3.5V under load		
Maximum Input Voltage	5.5V Unloaded Voltage Max		
Drive	Direct DIGITAL		
Connector Wire Gauge	27AWG		
Connector Wire Strand Count	20EA		
PROGRAMMABLE PARAMETERS via PC with HP-AT-PRGUSB 3pin Adapter (\$17.95)			
Rotation in Degrees	Adjustable 30 to 140 degrees total min/max (i.e. 15 to 70 degrees each way), 90 degree default (45 each way)		
Reverse	Clockwise/CounterClockwise, Clockwise default		
Speed	1% to 100% of Rated Speed (100% default)		
Servo Center	+/- 127uS (0 default, center at 1500uS)		
DeadBand Width	0 uS to 16 uS (2 uS default)		
Compatibility	Programmer allows selection of common Transmitter brands, to insure compatibility and default centering		

ATLAS SERVO PART NUMBER CODES

Normal Torque and Speed	A
HighTorque/Speed Blend, Mod Current	F
High Torque/Less Speed	T
UltraHigh Torque/Low Speed	U
Very High Speed/Low Current	H
High Speed/Med Torque/Low Current	S
UltraHigh Speed for Heli Gyro	G
Carbon (or Carbon/Metal) Gears	C
Metal Gear	M
Plain Bearings	P
Top Ball Bearing	B
Twin Ball Bearing	D



Rights Reserved, Hyperion HK Ltd, Nov 25 * Note: As is common in the industry for this class of servo and for purposes of comparison, DS09 servo weights are given with 2cm wire lead from servo and without Rx connector. Remaining lead and connector weight 0.75g additional.

NOTE: DS09 are optimized for max power on standard BEC ESC systems. Voltage input only 4-cell NiMH Rx pack or BEC with 4.8V~5.5V output.