

CHASERVO[®] CHAMPIONSHIP PERFORMANCE

LV – Series

DS – Series

HV – Series

SV – Series



LV - SERIES **5**

LV06 | LV06H | LV06N 05

DS - SERIES **6**

DS06 (incl. adapter) 06
DS09 (incl. adapter) 07
DS115 08
DS165 09
DS20 10

HV - SERIES **11**

HV06 | HV06H | HV06N 11
HV85 | HV85H 12
HV95 | HV95H 13
HV3512 | HV3512H 14
HV5013 15
HV7010 16

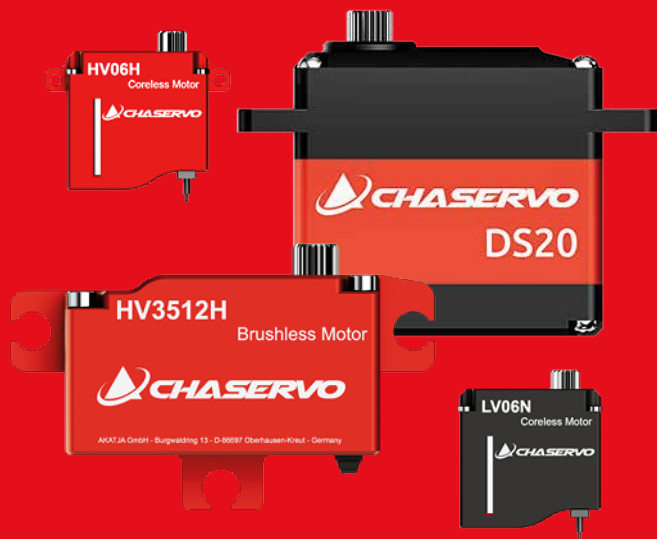
SV - SERIES **18**

SV7511 18
SV8510 19

AKATJA GmbH
- Chaservo

Burgwaldring 13
D-86697 Oberhausen-Kreut
sales@chaservo.de
+49 (0) 8431-432 80 50

www.chaservo.de



Powerful

Chaservos have incredible performance values for their compact design. For many applications, a more compact and lighter servo can be selected and the overall weight of a model aircraft can be significantly reduced.

Compact

Compact and very thin designs of our wing servos allow new technologies of thin wing profiles to be taken to a whole new level.

Precise

Chaservos can also prove to be extremely precise in terms of running dynamics and positioning accuracy.



LV06

6 mm 1.9 kg LV Servo



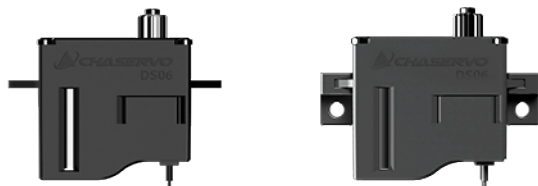
SERVO DATA

⚙️ 25T, 4mm

Dimensions	19 mm x 6 mm x 18.5 mm 0.75 in x 0.24 in x 0.73 in	
Weight	6.1 g	0.21 oz
Rated Voltage	DC 4.2V	
Voltage Range	DC 3.3 – 5.0V	
Holding Torque	1.00 kg-cm @ 3.3V 1.45 kg-cm @ 4.2V 1.90 kg-cm @ 5.0V	13.89 oz-in @ 3.3V 20.14 oz-in @ 4.2V 26.39 oz-in @ 5.0V
Stalling Torque	1.0 kg-cm @ 3.3V 1.3 kg-cm @ 4.2V 1.7 kg-cm @ 5.0V	13.88 oz-in @ 3.3V 18.05 oz-in @ 4.2V 23.61 oz-in @ 5.0V
No-load Speed	0.077sec/60° @ 3.3V 0.066sec/60° @ 4.2V 0.055sec/60° @ 5.0V	
Max. Current @ Holding torque	0.39A @ 3.3V 0.64A @ 4.2V 0.79A @ 5.0V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 20KHz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

DS06

7.4 mm 2 kg DS Servo



DS09

9 mm 9 kg DS Servo



SERVO DATA

⚙️ 25T, 4mm

Dimensions	20 mm x 7.4 mm x 18.7 mm 0.78 in x 0.29 in x 0.74 in	
Weight	6.1 g	0.21 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	0.90 kg-cm @ 3.5V 1.65 kg-cm @ 6.0V 2.00 kg-cm @ 8.4V	12.49 oz-in @ 3.5V 22.91 oz-in @ 6.0V 27.77 oz-in @ 8.4V
Stalling Torque	0.8 kg-cm @ 3.5V 1.5 kg-cm @ 6.0V 1.8 kg-cm @ 8.4V	11.11 oz-in @ 3.5V 20.83 oz-in @ 6.0V 24.99 oz-in @ 8.4V
No-load Speed	0.12sec/60° @ 3.8V 0.08sec/60° @ 6.0V 0.07sec/60° @ 8.4V	
Max. Current @ Holding torque	0.30A @ 3.5V 0.58A @ 6.0V 0.67A @ 8.4V	
Case Material	High Quality Technopolymer	
Gear Set Material	Hardened Steel + Plastic	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Hollow Cup DC Motor	
Working Frequency	1520 μs / 20KHz	
Pulse Range	900 μs – 2100 μs	
Programmable	Yes	

SERVO DATA

⚙️ 25T, 5mm

Dimensions	23.5 mm x 9 mm x 27.5 mm 0.93 in x 0.35 in x 1.08 in	
Weight	12 g	0.42 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	7.0 kg-cm @ 6.0V 8.0 kg-cm @ 7.4V 9.0 kg-cm @ 8.4V	97.21 oz-in @ 6.0V 111.09 oz-in @ 7.4V 124.98 oz-in @ 8.4V
Stalling Torque	5.0 kg-cm @ 6.0V 6.0 kg-cm @ 7.4V 6.5 kg-cm @ 8.4V	69.43 oz-in @ 6.0V 83.32 oz-in @ 7.4V 90.27 oz-in @ 8.4V
No-load Speed	0.13sec/60° @ 6.0V 0.11sec/60° @ 7.4V 0.10sec/60° @ 8.4V	
Max. Current @ Holding torque	0.90A @ 6.0V 1.15A @ 7.4V 1.25A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Hardened Steel + Brass	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Hollow Cup DC Motor	
Working Frequency	1520 μs / 20KHz	
Pulse Range	900 μs – 2100 μs	
Programmable	Yes	

DS115

11.5 mm 6 kg DS Servo



SERVO DATA

⚙️ 25T, 5mm

Dimensions	23 mm x 11.5 mm x 24.5 mm 0.90 in x 0.45 in x 0.96 in	
Weight	15 g	0.52 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.5 – 9.0V	
Holding Torque	3.6 kg-cm @ 4.8V 5.5 kg-cm @ 7.4V 6.0 kg-cm @ 8.4V	49.99 oz-in @ 4.8V 76.38 oz-in @ 7.4V 83.32 oz-in @ 8.4V
Stalling Torque	3.24 kg-cm @ 4.8V 4.95 kg-cm @ 7.4V 5.40 kg-cm @ 8.4V	44.99 oz-in @ 4.8V 68.74 oz-in @ 7.4V 74.99 oz-in @ 8.4V
No-load Speed	0.13sec/60° @ 4.8V 0.09sec/60° @ 7.4V 0.08sec/60° @ 8.4V	
Max. Current @ Holding torque	0.95A @ 4.8V 1.35A @ 7.4V 1.60A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Metal Gear	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900µs – 2100µs	
Programmable	Yes	

DS165

16.5 mm 9 kg DS Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	32 mm x 16.5 mm x 26.5 mm 1.25 in x 0.64 in x 1.04 in	
Weight	36 g	1.26 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.5 – 9.0V	
Holding Torque	5.4 kg-cm @ 4.8V 7.8 kg-cm @ 7.4V 9.0 kg-cm @ 8.4V	74.99 oz-in @ 4.8V 108.32 oz-in @ 7.4V 124.98 oz-in @ 8.4V
Stalling Torque	4.86 kg-cm @ 4.8V 7.02 kg-cm @ 7.4V 8.10 kg-cm @ 8.4V	67.49 oz-in @ 4.8V 97.48 oz-in @ 7.4V 112.48 oz-in @ 8.4V
No-load Speed	0.088sec/60° @ 4.8V 0.059sec/60° @ 7.4V 0.055sec/60° @ 8.4V	
Max. Current @ Holding torque	2.20A @ 6.0V 3.25A @ 7.4V 3.65A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Contactless / Hall sensor	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	500µs – 2500µs	
Programmable	Yes	

DS20

20 mm 26 kg DS Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	40 mm x 20 mm x 38 mm 1.57 in x 0.78 in x 1.49 in	
Weight	64 g	2.25 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.0 – 9.0V	
Holding Torque	20.0 kg-cm @ 6.0V 24.0 kg-cm @ 7.4V 26.0 kg-cm @ 8.4V	227.75 oz-in @ 6.0V 333.29 oz-in @ 7.4V 361.07 oz-in @ 8.4V
Stalling Torque	17.0 kg-cm @ 6.0V 20.4 kg-cm @ 7.4V 22.1 kg-cm @ 8.4V	236.08 oz-in @ 6.0V 283.30 oz-in @ 7.4V 306.91 oz-in @ 8.4V
No-load Speed	0.11sec/60° @ 6.0V 0.09sec/60° @ 7.4V 0.08sec/60° @ 8.4V	
Max. Current @ Holding torque	5.82A @ 6.0V 6.25A @ 7.4V 6.45A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 μs / 333 Hz	
Pulse Range	900 μs – 2100 μs	
Programmable	Yes	

HV06

6 mm 2.65 kg HV Servo



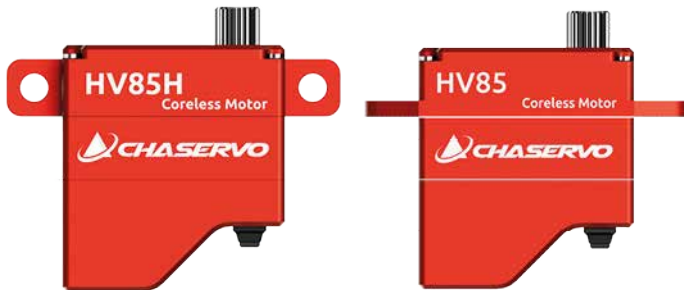
SERVO DATA

⚙️ 25T, 4mm

Dimensions	19 mm x 6 mm x 18.5 mm 0.75 in x 0.24 in x 0.73 in	
Weight	6.1 g	0.21 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	1.65 kg-cm @ 6.0V 2.20 kg-cm @ 7.4V 2.65 kg-cm @ 8.4V	22.91 oz-in @ 6.0V 30.55 oz-in @ 7.4V 36.80 oz-in @ 8.4V
Stalling Torque	1.5 kg-cm @ 6.0V 2.0 kg-cm @ 7.4V 2.2 kg-cm @ 8.4V	20.83 oz-in @ 6.0V 27.77 oz-in @ 7.4V 30.55 oz-in @ 8.4V
No-load Speed	0.07sec/60° @ 6.0V 0.06sec/60° @ 7.4V 0.05sec/60° @ 8.4V	
Max. Current @ Holding torque	0.61A @ 6.0V 0.63A @ 7.4V 0.67A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 μs / 20 KHz	
Pulse Range	900 μs – 2100 μs	
Programmable	Yes	

HV85

8.5 mm 9.8 kg HV Servo



SERVO DATA

⚙️ 25T, 5mm

Dimensions	24 mm x 8.5 mm x 26.5 mm 0.95 in x 0.33 in x 1.04 in	
Weight	14 g	0.49 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	7.2 kg-cm @ 6.0V 9.0 kg-cm @ 7.4V 9.8 kg-cm @ 8.4V	99.99 oz-in @ 6.0V 124.99 oz-in @ 7.4V 136.10 oz-in @ 8.4V
Stalling Torque	6.5 kg-cm @ 6.0V 8.2 kg-cm @ 7.4V 8.9 kg-cm @ 8.4V	90.27 oz-in @ 6.0V 113.88 oz-in @ 7.4V 123.59 oz-in @ 8.4V
No-load Speed	0.16sec/60° @ 6.0V 0.12sec/60° @ 7.4V 0.11sec/60° @ 8.4V	
Max. Current @ Holding torque	0.86A @ 6.0V 1.08A @ 7.4V 1.35A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV95

9.5 mm 11.5 kg HV Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	30 mm x 9.5 mm x 33.5 mm 1.18 in x 0.37 in x 1.31 in	
Weight	21.7 g	0.76 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.8 – 8.4V	
Holding Torque	8.5 kg-cm @ 6.0V 10.5 kg-cm @ 7.4V 11.5 kg-cm @ 8.4V	118.0 oz-in @ 6.0V 145.8 oz-in @ 7.4V 159.7 oz-in @ 8.4V
Stalling Torque	7.5 kg-cm @ 6.0V 9.3 kg-cm @ 7.4V 10.2 kg-cm @ 8.4V	104.1 oz-in @ 6.0V 129.1 oz-in @ 7.4V 141.6 oz-in @ 8.4V
No-load Speed	0.17sec/60° @ 6.0V 0.15sec/60° @ 7.4V 0.12sec/60° @ 8.4V	
Max. Current @ Holding torque	1.16A @ 6.0V 1.32A @ 7.4V 1.58A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV3512

20 mm 40 kg HV Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	40.5 mm x 20 mm x 23.1 mm 1.59 in x 0.79 in x 0.91 in	
Weight	56 g	1.98 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.0V – 9.0V	
Holding Torque	30 kg-cm @ 6.0V 35 kg-cm @ 7.4V 40 kg-cm @ 8.4V	416.62 oz-in @ 6.0V 486.06 oz-in @ 7.4V 555.49 oz-in @ 8.4V
Stalling Torque	26.7 kg-cm @ 6.0V 30.2 kg-cm @ 7.4V 35.0 kg-cm @ 8.4V	370.79 oz-in @ 6.0V 419.39 oz-in @ 7.4V 486.05 oz-in @ 8.4V
No-load Speed	0.14sec/60° @ 6.0V 0.12sec/60° @ 7.4V 0.11sec/60° @ 8.4V	
Max. Current @ Holding torque	4.0A @ 6.0V 4.8A @ 7.4V 5.8A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	500 µs – 2500 µs	
Programmable	Yes	

HV5013

17 mm 60 kg HV Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	40.5 mm x 17 mm x 40 mm 1.59 x 0.67 x 1.57 in	
Weight	74 g	2.61 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 6.0 – 8.4V	
Holding Torque	40 kg-cm @ 6.0V 50 kg-cm @ 7.4V 60 kg-cm @ 8.4V	555.49 oz-in @ 6.0V 694.36 oz-in @ 7.4V 833.24 oz-in @ 8.4V
Stalling Torque	34.0 kg-cm @ 6.0V 42.5 kg-cm @ 7.4V 51.0 kg-cm @ 8.4V	472.17 oz-in @ 6.0V 590.21 oz-in @ 7.4V 708.26 oz-in @ 8.4V
No-load Speed	0.16sec/60° @ 6.0V 0.13sec/60° @ 7.4V 0.11sec/60° @ 8.4V	
Max. Current @ Holding torque	8.5A @ 6.0V 10.3A @ 7.4V 11.8A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV7010

20 mm 70 kg HV Servo



SERVO DATA

⚙️ 25T, 8mm

Dimensions	40 mm x 20 mm x 40 mm 1.57 x 0.78 x 1.57 in	
Weight	87 g	3.06 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 6.0 – 8.4V	
Holding Torque	50 kg-cm @ 6.0V 60 kg-cm @ 7.4V 70 kg-cm @ 8.4V	694.36 oz-in @ 6.0V 833.24 oz-in @ 7.4V 972.11 oz-in @ 8.4V
Stalling Torque	45 kg-cm @ 6.0V 54 kg-cm @ 7.4V 63 kg-cm @ 8.4V	624.93 oz-in @ 6.0V 749.91 oz-in @ 7.4V 874.90 oz-in @ 8.4V
No-load Speed	0.15sec/60° @ 6.0V 0.12sec/60° @ 7.4V 0.10sec/60° @ 8.4V	
Max. Current @ Holding torque	6.25A @ 6.0V 7.52A @ 7.4V 8.38A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	6 x Ball Bearing	
Position Sensor	Contactless / Hall sensor	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	500 µs – 2500 µs	
Programmable	Yes	

COMPETITION SHV

PowerBox / Chaservo

SHV DATA



Dimensions	118x71x19mm 4.64x2.79x0.74 in
Weight	137 g / 4,83 oz
Voltage Range	DC 10.0 – 35V
Power supply	3-8s LiPo / Lilon
Channels	26
Servo outputs, programmable	22

In cooperation with PowerBox Systems, we have developed a 24V (6S-LiPo) dual power supply. Perfectly matched to the use of our SV servos in model aircraft.

- SHV technology up to 35V input voltage
- 40A max. current load for all SHV servo outputs
- Regulated 8.4V/10A for receiver, peripherals and 4 servos
- Consistent dual design of the power electronics
- 22 channels
- Optional UAV version
- Powerful battery backer with high continuous load capacity
- sunlight-readable 2.4" TFT display
- bilingual menu navigation
- Servo matching for all 22 outputs
- Latest iGyro technology integrated, with the iGyroSAT as a gyro sensor
- Extremely simple programming thanks to graphic display of the menus
- optionally with GPS III for speed-dependent gyro compensation
- Telemetry data for PowerBox P²BUS, Futaba S.BUS2, Jeti Ex-BUS, Spektrum SRXL2, Multiplex M-Link, JR X-BUS and Graupner HoTT
- Transmission of battery, receiver and GPS* data
- Almost complete operability from the transmitter for PowerBox and Jeti
- Adjustable servo frame rate: 10ms, 12ms, 14ms, 16ms, 18ms
- Suppression of servo return currents
- state-of-the-art 32-bit microprocessor for fast and precise signal processing

SV7511

17 mm 24V 80 kg SV Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	40.5 mm x 17 mm x 40 mm 1.59 x 0.67 x 1.57in	
Weight	74 g	2.61 oz
Rated Voltage	DC 24V	
Voltage Range	DC 22 – 28V	
Holding Torque	65 kg-cm @ 22V 75 kg-cm @ 24V 80 kg-cm @ 28V	902.68 oz-in @ 22V 1041.55 oz-in @ 24V 1110.99 oz-in @ 28V
Stalling Torque	58.5 kg-cm @ 22V 67.5 kg-cm @ 24V 72.0 kg-cm @ 28V	812.41 oz-in @ 22V 937.39 oz-in @ 24V 999.89 oz-in @ 28V
No-load Speed	0.12sec/60° @ 22V 0.11sec/60° @ 24V 0.10sec/60° @ 28V	
Max. Current @ Holding torque	4.95A @ 22V 5.25A @ 24V 5.85A @ 28V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

SV8510

20 mm 24V 90 kg SV Servo



SERVO DATA

⚙️ 25T, 6mm

Dimensions	40 mm x 20 mm x 40 mm 1.57 x 0.78 x 1.57in	
Weight	87 g	3.06 oz
Rated Voltage	DC 24V	
Voltage Range	DC 22 – 28V	
Holding Torque	80 kg-cm @ 22V 85 kg-cm @ 24V 90 kg-cm @ 28V	1110.99 oz-in @ 22V 1180.42 oz-in @ 24V 1249.86 oz-in @ 28V
Stalling Torque	72.0 kg-cm @ 22V 76.5 kg-cm @ 24V 81.0 kg-cm @ 28V	999.89 oz-in @ 22V 1062.38 oz-in @ 24V 1124.87 oz-in @ 28V
No-load Speed	0.11sec/60° @ 22V 0.10sec/60° @ 24V 0.09sec/60° @ 28V	
Max. Current @ Holding torque	4.95A @ 22V 5.25A @ 24V 5.85A @ 28V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel / HLS	
Ball Bearing	6 x Ball Bearing	
Position Sensor	Contactless / Hall sensor	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	



CHASERVO®

CHAMPIONSHIP PERFORMANCE

AKATJA GmbH

Burgwaldring 13

D-86697 Oberhausen-Kreut

sales@chaservo.de

+49 (0) 8431-432 80 50

Find us online, search for:

Chaservo



www.chaservo.de