

Spektrum Servos

MODEL	DESCRIPTION	GEAR TYPE	MOTOR TYPE	BEARING	SPLINE	TORQUE/FORCE	SPEED	DIMENSIONS (L x W x H)	WEIGHT	DISCONTINUED	AIRCRAFT								SURFACE								
																											
AIRPLANE																											
SPMSA4040	A4040 HV Mid Torque High Speed Digital Micro MG Servo	Metal	Coreless Brushed	Single BB	23T	96 oz-in (7 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.1 x .54 x 1.23 in (28 x 13.7 x 31.2mm)	0.9 oz (26 g)		✓		✓						✓								
SPMSA5080	A5080 Mid Torque/Speed Mini Digital HV MG Servo	Metal	Coreless Brushed	Single BB	23T	130 oz-in (9.4 kg-cm) @ 8.4V	0.094 sec/60° @ 8.4V	1.4 x .59 x 1.18 in (35.6 x 15 x 30mm)	1.2 oz (34 g)		✓		✓						✓								
SPMSA6190	A6190 Standard Metal Gear HV Digital Servo	Metal	Brushed	Dual BB	23T	115 oz-in (8.3 kg-cm) @ 8.4V	0.13 sec/60° @ 8.4V	1.58 x 0.78 x 1.47 in (40.1 x 19.8 x 37.3mm)	1.9 oz (54 g)		✓																
SPMSA6350	A6350 Ultra Torque High Speed Brushless HV Servo	Metal	Brushless	Dual BB	23T	852 oz-in (61.4 kg-cm) @ 8.4V	0.095 sec/60° @ 8.4V	1.58 x 0.79 x 1.58 in (41 x 21 x 41mm)	2.7 oz (76.5 g)		✓	✓	✓														
SPMSA7090	A7090 Brushless Low Profile MG HV Servo	Metal	Brushless	Dual BB	23T	250 oz-in (18 kg-cm) @ 8.4V	0.068 sec/60° @ 8.4V	1.6 x 0.81 x 0.99 in (40.6 x 20.6 x 25.2mm)	1.8 oz (50 g)		✓	✓	✓					✓					✓				
SPMSA7100	A7100 Mid Torque Mid Speed HV MG Thin Wing Servo	Metal	Coreless Brushed	Single BB	25T*	115 oz-in (8.3 kg-cm) @ 8.4V	0.078 sec/60° @ 8.4V	1.18 x 0.39 x 1.38 in (30 x 10 x 35.1mm)	1.0 oz (28 g)				✓				✓										
SPMSA6390	A6390 Standard Analog	Nylon	Coreless Brushed	Single BB	23T	66.7 oz-in (4.8 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.52 x 0.74 x 1.36 in (38.6 x 18.8 x 34.6mm)	1.3 oz (37 g)		✓																
SPMSA6180	A6180 Digital Standard Servo	Metal	Coreless Brushed	Dual BB	23T	94 oz-in (6.8 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.53 x 0.74 x 1.37 in (38.8 x 18.8 x 34.9mm)	1.48 oz (42.0 g)	✓	✓																
SPMSA6380	A6380 HV Digital High Torque High Speed Standard Servo	Metal	Coreless Brushed	Dual BB	23T	160 oz-in (11.5 kg-cm) @ 8.4V	0.13 sec/60° @ 8.4V	1.52 x 0.74 x 1.47 in (39 x 18.8 x 37mm)	1.5 oz (42.5 g)		✓																
SPMSA6300	A6300 Ultra Torque High Speed Metal BL HV Servo	Metal	Brushless	Dual BB	23T	530.22 oz-in (38.20 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.57 x 0.79 x 1.49 in (40 x 20 x 37.8mm)	2.81 oz (79.80 g)		✓	✓															
SPMSA6310	A6310 High Torque High Speed Metal BL HV Servo	Metal	Brushless	Dual BB	23T	350.00 oz-in (25.2 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.49 x 0.79 x 1.57 in (437.8 x 20 x 40mm)	2.5 oz (71.0 g)		✓	✓															
SPMSA6320	A6320 High Torque High Speed Metal BL HV Servo	Metal	Brushless	Dual BB	23T	270.1 oz-in (19.5 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.49 x 0.79 x 1.57 in (437.8 x 20 x 40mm)	2.2 oz (62.0 g)		✓	✓															
SPMSA6330	A6330 Digital HV High Torque High Speed BL MG Servo	Metal	Brushless	Dual BB	23T	248 oz-in (17.9 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.49 x 0.79 x 1.57 in (437.8 x 20 x 40mm)	2.25 oz (71 g)		✓	✓					✓	✓	✓	✓							
SPMSA4010	A4010 Micro Digital	Nylon	Coreless Brushed	Single BB	23T	42 oz-in (3.0 kg-cm) @ 6.0V	0.11 sec/60° @ 6.0V	1.10 x 0.50 x 1.07 in (28.0 x 12.7 x 27.4mm)	0.60 oz (17.2 g)	✓				✓						✓							
SPMSA4030	A4030 Micro HV Digital High Torque MG	Metal	Coreless Brushed	Dual BB	23T	83.3 oz-in (6.0 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	1.10 x 0.50 x 1.07 in (28.0 x 12.7 x 27.4mm)	0.71 oz (20.0 g)	✓				✓			✓										
SPMSA5030	A5030 Mini Digital	Nylon	Coreless Brushed	Dual BB	23T	66 oz-in (4.8 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	1.30 x 0.58 x 1.10 in (33.0 x 15.0 x 28.0mm)	0.83 oz (23.6 g)	✓	✓																
SPMSA5040	A5040 Mini Digital MG	Metal	Coreless Brushed	Dual BB	23T	66 oz-in (4.8 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	1.30 x 0.58 x 1.10 in (33.0 x 15.0 x 28.0mm)	0.76 oz (21.6 g)	✓	✓																
SPMSA5060	A5060 Mini HV Digital High Torque MG	Metal	Coreless Brushed	Dual BB	23T	118 oz-in (8.5 kg-cm) @ 6.0V	0.11 sec/60° @ 6.0V	1.30 x 0.58 x 1.08 in (32.8 x 14.7 x 27.4mm)	0.92 oz (26.0 g)	✓	✓																
SPMSA5070	A5070 High Torque High Speed Mini MG HV Servo	Metal	Coreless Brushed	Dual BB	23T	190.58 oz-in (5.4 kg-cm) @ 8.4V	0.078 sec/60° @ 8.4V	1.32 x 0.59 x 1.16 in (33.5 x 14.9 x 29.4mm)	1.4 oz (40 g)				✓	✓	✓		✓	✓									
SPMSA3040	A3040 Sub-Micro Digital High Torque MG	Metal	Coreless Brushed	Single BB	21T	28 oz-in (2 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	0.93 x 0.45 x 1.00 in (23.6 x 11.5 x 25.5mm)	0.44 oz (12.6 g)					✓													
SPMSA7020	A7020 Digital Thin Wing	Metal	Coreless Brushed	Dual BB	23T	50 oz-in (3.6 kg-cm) @ 6.0V	0.09 sec/60° @ 6.0V	1.08 x 0.39 x 1.07 in (27.4 x 10.0 x 27.2mm)	0.50 oz (14.5 g)	✓	✓																
SPMSA7040	A7040 HV Retract	Metal	Coreless Brushed	Dual BB	23T	266 oz-in (19.2 kg-cm) @ 6.0V	1.39 sec/160° @ 6.0V	1.70 x 0.87 x 1.07 in (44.0 x 22.2 x 27.3mm)	1.48 oz (42.0 g)	✓	✓																
SPMSA7050	A7050 HV Thin Wing	Metal	Coreless Brushed	Dual BB	23T	65 oz-in (4.70 kg-cm) @ 6.0V	0.07 sec/60° @ 6.0V	1.08 x 0.40 x 1.06 in (27.4 x 10.2 x 27.0mm)	0.70 oz (20.0 g)	✓	✓																
SPMSA2005	1.8-Gram Linear	Nylon	Brushed	Dual BB	NA	2.8 oz (79.4 g) @ 4.2V	0.14 sec @ 4.2V	0.60 x 0.59 x 0.33 in (16.0 x 15.0 x 8.20mm)	0.06 oz (1.80 g)				✓														
SPMSA2030L	2.3-Gram Performance Linear Long Throw	Nylon	Brushed	Single BB	NA	3.5 oz (100 g) @ 4.2V	0.14 sec @ 4.2V	0.87 x 0.66 x 0.33 in (22.0 x 16.9 x 8.20mm)	0.10 oz (2.30 g)				✓														
SPMSA2030LO	2.3-Gram Linear Long Throw Offset	Nylon	Brushed	Single BB	NA	3.5 oz (100 g) @ 4.2V	0.14 sec @ 4.2V	0.87 x 0.66 x 0.33 in (22.0 x 16.9 x 8.20mm)	0.10 oz (2.30 g)				✓														
HELICOPTER																											
					Center Pulse	Frequency																					
SPMSH6350	H6350 Ultra Torque High Speed Heli Cyclic HV Servo	1520 μs	333hz	Metal	Brushless	Dual BB	23T	416.4 oz-in (30.0 kg-cm) @ 8.4V	.062 sec/60° @8.4V	1.57 x 0.79 x 1.49 in (40.0 x 20.0 x 37.8mm)	2.54 oz (72.0 g)																
SPMSH6360	H6360 Mid Torque Ultra Speed Heli Tail HV Servo	760 μs	560hz	Metal	Brushless	Dual BB	23T	104.9 oz-in (7.59 kg-cm) @ 8.4V	0.04 sec/60° @ 8.4V	1.57 x 0.79 x 1.49 in (40.0 x 20.0 x 37.8mm)	2.6 oz (73.6 g)																
SPMSH6050	H6050 High-Torque Mid-Speed Heli Cyclic Servo	1520 μs	333hz	Metal	Coreless Brushed	Dual BB	23T	160 oz-in (11.5 kg-cm) @ 6.0V	0.103 sec/60° @ 6V	1.57 x 0.79 x 1.51 in (40.0 x 20.0 x 38.3mm)	2.2 oz (62 g)																
SPMSH6060	H6060 Mid-Torque Ultra-Speed Heli Tail Servo	1520 μs	333hz	Metal	Coreless Brushed	Dual BB	23T	86 oz-in (6.2 kg-cm) @ 6.0V	0.056 sec/60° @ 6.0V	1.57 x 0.78 x 1.57 in (39.9 x 19.8 x 39.9mm)	2.2 oz (62 g)																
SPMSH3055	H3055 Sub-Micro Digital Heli Cyclic MG Servo	1520 μs	333hz	Metal	Coreless Brushed	Single BB	24T	29 oz-in (2.1kg-cm) @ 4.8V	0.067 sec/60° @ 4.8V	0.91 x 0.47 x 1.17 in (23.0 x 12.0 x 29.6mm)	0.46 oz (12.9 g)																
SPMSH3065	H3065 Sub-Micro Digital Heli Tail MG Servo	1520 μs	333hz	Metal	Coreless Brushed	Single BB	24T	12 oz-in (0.9kg-cm) @ 4.8V	0.036 sec/60° @ 4.8V	0																	