Spektrum Servos

MODEL	DESCRIPTION	Center Pulse	Frequency	GEAR TYPE	MOTOR TYPE	BEARING	SPLINE	TORQUE/FORCE	SPEED	DIMENSIONS (L x W x H)	WEIGHT	DISCONTINUED	AIRCRAFT: Standard	Giant	Specialty	Micro	Heli 500+	Heli Mini	Heli Micro	Sail Plane	SURFACE: 1/12	1/10	1/5	Crawler	Drift	Mini	Marine
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)				√												
SPMSA2030L0	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																											
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	0.91 x 0.47 x 1.17 in (23.0 x 12.0 x 29.6mm)	0.46 oz (12.9 g)							√									
SPMSH2040L	2.9-Gram Linear Long Throw	1520 µs	333hz	Nylon	Brushed	Single BB	NA	11.6 oz (329 g) @ 4.2V	0.13 sec @ 4.2V	0.90 x 0.70 x 0.40 in (24.0 x 19.0 x 9.00mm)	0.10 oz (2.90 g)								√								
SPMSH2040T	2.9-Gram Linear Tail	1520 µs	333hz	Nylon	Brushed	Single BB	NA	9.6 oz (272 g) @ 4.2V	0.065 sec @ 4.2V	0.90 x 0.70 x 0.40 in (24.0 x 19.0 x 9.00mm)	0.10 oz (2.90 g)								√								
SPMSH2065	Nanolite High Speed MG Heli Servo	1520 µs	333hz	Metal	Coreless Brushed	Bushing	21T	11.4 oz (323 g) @ 6.0V	0.07 sec/60° @ 6.0V	0.90 x 0.70 x 0.40 in (19.6 x 8.15 x 25.0mm)	0.14 oz (4.00 g)								√								
CAR / TRUCK / BOAT		WATERPROOF/ RESISTANT																									
SPMSS6020	S6020 Digital—Torque			Metal	Coreless Brushed	Dual BB	23T	146 oz-in (10.5 kg-cm) @ 6.0V	0.19 sec/60° @ 6.0V	1.61 x 0.79 x 1.53 in (41.0 x 20.0 x 39.0mm)	1.73 oz (49.0 g)																
SPMSS6170	S6170 Standard Digital			Nylon	Brushed	Single BB	23T	80 oz-in (5.8 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.51 x 0.73 x 1.36 in (38.4 x 18.5 x 34.5mm)	1.20 oz (32.0 g)																√
SPMSS6230	S6230 Digital Surface Servo			Metal	Coreless Brushed	Dual BB	23T	311 oz-in (22.4kg-cm) @6.0V	0.14 sec/60° @ 6.0V	1.61 x 0.82 x 1.18 in (41.0 x 20.8 x 30.0mm)	2.10 oz (59.5 g)														√		
SPMSS6240	S6240 High Speed, Digital Racing Servo			Metal	Coreless Brushed	Dual BB	23T	208 oz-in (15.0kg-cm) @ 6.0V	0.08 sec/60° @ 6.0V	1.61 x 0.82 x 1.18 in (41.0 x 20.8 x 30.0mm)	2.10 oz (59.5 g)														√		
SPMSS6245	S6245 High Speed, High Torque Servo			Metal	Coreless Brushed	Dual BB	23T	266 oz-in (19.2 kg-cm) @ 7.4V	0.06 sec/60° @ 7.4V	1.61 x 0.82 x 1.18 in (41.0 x 20.8 x 30.0mm)	2.10 oz (59.5 g)														√		
SPMSS6250	S6250 High Torque, HV Dig Servo			Metal	Coreless Brushed	Dual BB	23T	382 oz-in (27.5kg-cm) @ 8.4V	0.09 sec/60° @ 8.4V	1.61 x 0.82 x 1.18 in (41.0 x 20.8 x 30.0mm)	2.10 oz (59.5 g)												√				
SPMSS6260	S6260 High Speed, HV Dig Servo			Metal	Coreless Brushed	Dual BB	23T	241 oz-in (17.4kg-cm) @ 8.4V	0.06 sec/60° @ 8.4V	1.61 x 0.82 x 1.18 in (41.0 x 20.8 x 30.0mm)	2.2 oz (62.37 g)												√				
SPMSS6280	S6280 Ultra Torque, HV Dig Servo			Metal	Coreless Brushed	Dual BB	23T	496 oz-in (35.7kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.61 x 0.82 x 1.38 in (41.0 x 20.9 x 26.7mm)	2.80 oz (79.4 g)	√										√	√				√
SPMSS6285	S6285 Ultra Torque, HV Digital Servo	√		Metal	Coreless Brushed	Dual BB	23T	496 oz-in (35.7kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.61 x 0.82 x 1.38 in (41.0 x 20.9 x 26.7mm)	2.80 oz (79.4 g)											√	√	√	√		√
SPMSS6290	S6290 Ultra Speed, HV Dig Servo			Metal	Coreless Brushed	Dual BB	23T	331 oz-in (23.8kg-cm) @ 8.4V	0.07 sec/60° @ 8.4V	1.61 x 0.82 x 1.38 in (41.0 x 20.9 x 26.7mm)	2.80 oz (79.4 g)											√	√				√
SPMSS6295	S6295 High Torque Ultra Speed Brushless HV Servo	√		Metal	Brushless	Dual BB	23T	416 oz-in (30kg-cm) @ 8.4V	0.062 sec/60° @ 8.4V	1.57 x 0.78 x 1.12 in (40 x 20 x 28mm)	2.3 oz (65g)											√	√				√
SPMSS9110BL	S9110BL HV 1/5-Scale Digital—Speed	√		Metal	Brushless	Dual BB	15T	1224.3 oz-in (88.16 kg-cm) @ 8.4V	0.14 sec/60° @ 8.4V	2.47 x 1.18 x 1.84 in (62.7 x 30.0 x 47.5mm)	6.3 oz (178.6 g)												√	√			
SPMSS9120BL	S9120BL HV 1/5-Scale Digital—Torque	√		Metal	Brushless	Dual BB	15T	1453.5 oz-in (104.66 kg-cm) @ 8.4V	0.21 sec/60° @ 8.4V	2.47 x 1.18 x 1.84 in (62.7 x 30.0 x 47.5mm)	6.3 oz (178.6 g)												√	√			
SPMSS6510	S6510 1/5th Scale High Torque Servo			Metal	Coreless Brushed	Dual BB	15T	820 oz-in at 8.4V	0.15 sec/60 @ 7.4V	2.6 x 1.18 x 2.27 in (66 x 30 x 58mm)	7.2oz (204g)												√				
SPMSS7110	S7110 Servo Winch: 1/10 Crawlers	√		Metal	Brushless	Dual BB	25T	180 oz-in @ 8.4V	155 RPM @ 7.4V	1.59 x .80 x .99 in (40 x 20 x 25mm)	2oz (57g)													√			
SPMSS6510	1/5 Scale High Torque Servo	√		Metal	Coreless Brushed	Dual BB	15T	820oz-in @ 8.4V	0.14 sec/60 @ 8.4V	2.6 x 1.18 x 2.27 in. (66 x 30 x 57.7mm)	7.2 oz (204g)												√				
SPMSSX108	SX108 Micro Metal Gear Servo			Metal	Coreless Brushed	Dual BB	20T	41.8oz-in @ 6V	0.08 sec/60 @6.0V	.89 x .49 x .87in. (23 x 12 x 22mm)	.35oz (10g)																

*Specialty size spline - Servo arms of similar spline tooth count may not fit

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