SPEKTRUM
Innovative Spread Spectrum Technology

SPEKTRUM SERVOS

MODEL	DESCRIPTION	GEAR TYPE	BEARING	TORQUE/FORCE HIGH VOLTAGE 8.4V (2S LI-PO)	SPEED HIGH VOLTAGE 8.4V (2S LI-PO)	DIMENSIONS (L x W x H)	WEIGHT	AIRCRAFT						SURFACE					
								Giant Scale	Fixed Wing (Std/Large)	Specialty	Fixed Wing (Micro)	Heli	Sail Plane	1/10th	1/8th	1/5th	Mini	Marine	1/12
AIRPLANE																			
SPMSA6110	A6110 HV Standard	Nylon	Single BB	76 oz-in (5.5 kg-cm) @ 8.4v	0.14 sec/60° @ 8.4V	1.50 x 0.72 x 1.44 in (38.3 x 18.4 x 36.6mm)	1.28 oz (36.5 g)		√										
SPMSA6150	A6150 HV Hi-Torque MG	Metal	Dual BB	180 oz-in (13.0 kg-cm) @ 8.4v	0.12 sec/60° @ 8.4V	1.57 x 0.79 x 1.51 in (40.0 x 20.0 x 38.3mm)	1.90 oz (53.9 g)		√										
SPMSA6180	A6180 Digital	Metal	Dual BB	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)		√										
SPMSA6220	A6220 HV Low-Profile Hi-Torque MG	Metal	Dual BB	140 oz-in (10.1 kg-cm) @ 8.4v	0.11 sec/60° @ 8.4V	1.58 x 0.79 x 1.02 in (40.3 x 20.0 x 26.0mm)	1.60 oz (46.0 g)		√										
SPMSA6265	A6265 HV Digital Hi-Torque MG Aircraft Servo	Metal	Dual BB	328 oz-in (23.6kg-cm) @ 8.4v	0.15 sec/60° @ 6.0V	1.61 x 0.82 x 1.25 in (40.9 x 20.9 x 31.8mm)	2.20 oz (62.0g)	√	√										
SPMSA6270	A6270 HV Ultra Torque MG	Steel	Dual BB	582 oz-in (41.9 kg-cm) @ 8.4v	0.12 sec/60° @ 8.4V	1.61 x 0.82 x 1.35 in (40.9 x 20.9 x 34.3mm)	2.70 oz (76.5 g)	√	√										
SPMSA6300	A6300 Ultra Torque High Speed Metal BL HV Servo	Metal	Dual BB	530.22 oz-in (38.20 kg-cm) @8.4v	0.10 sec/60 deg @ 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 Ultra Torque High Speed Metal BL HV Servo	Metal	Dual BB	350.00 oz-in (25.2 kg-cm) @ 8.4v	0.10 sec/60 deg @ 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	Dual BB	270.1 oz-in (19.5 kg-cm) @ 8.4v	0.10 sec/60 deg @ 8.4v	1.49 x 0.79 x 1.57 in (437.8 x 20 x 40mm)	2.2 oz (62.0 g)												
SPMSA4010	A4010 Micro Digital	Nylon	Single BB	42 oz-in (3.0kg-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 Hi-Torque MG	Metal	Dual BB	83.3 oz-in (6.0 kg-cm) @ 8.4v	0.10 sec/60° @ 8.4V	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	Dual BB	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	Dual BB	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 Hi-Torque MG	Metal	Dual BB	118 oz-in (8.5 kg-cm) @ 8.4v	0.11 sec/60° @ 8.4V	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	Dual BB	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)		√	√									√
SPMSA2010	A2010 Ultra Micro	Nylon	Single BB	2.5 oz-in (0.18kg-cm) @4.8V	0.06 sec/60° @ 4.8V	0.71 x 0.31 x 0.67 in (18.1 x 8.00 x 16.9mm)	0.09 oz (2.50 g)				√	√	√						
SPMSA2020	A2020 Nanolite	Nylon	Single BB	12 oz-in (0.86 kg-cm) @ 4.8V	0.08 sec @ 4.8V	0.78 x 0.33 x 0.90 in (19.7 x 8.30 x 22.8mm)	0.14 oz (4.10 g)				√								
SPMSA3030	A3030 Sub-Micro Digital Hi-Torque	Nylon	Single BB	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)	0.30 oz (8.60 g)				√								
SPMSA3040	A3040 Sub-Micro Digital Hi-Torque MG	Metal	Single BB	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	Dual BB	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	Dual BB	266 oz-in (19.2 kg-cm) @ 8.4v	1.39 sec/160° @ 8.4V	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	Dual BB	65 oz-in (4.70 kg-cm) @ 8.4v	0.07 sec/60° @ 8.4V	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	2 BBs	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	Single BB	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	Single BB	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	Metal	Dual BB	416.4 oz-in (30.0 kg-cm) @ 8.4V	.062 sec/60 deg @8.4v	1.57 x 0.79 x 1.49 in (40.0 x 20.0 x 37.8mm)	2.54 oz (72.0g)												
SPMSH6360	H6360 Mid Torque Ultra Speed Heli Tail HV Servo	Metal	Dual BB	104.9 oz-in (7.59 kg-cm) @ 8.4v	0.04 sec/60 deg @ 8.4v	1.57 x 0.79 x 1.49 in (40.0 x 20.0 x 37.8mm)	2.6 oz (73.6g)												
SPMSH6050	H6050 High-Torque Mid-Speed Heli Cyclic Servo	Metal	Dual BB	160 oz-in (11.5 kg-cm) @ 6.0V	0.103 sec/60 deg @ 6V	1.57 x 0.79 x 1.51 in (40.0 x 20.0 x 38.3mm)	2.2 oz (62g)												
SPMSH6060	H6060 Mid-Torque Ultra-Speed Heli Tail Servo	Metal	Dual BB	86 oz-in (6.2 kg-cm) @ 6.0V	0.056 sec/60 deg @ 6.0V	1.57 x 0.78 x 1.57 in (39.9 x 19.8 x 39.9mm)	2.2 oz (62g)												
SPMSH6160	H6160 HV High Speed Cyclic MG	Metal	Dual BB	132 oz-in (9.5 kg-cm) @ 8.4v	0.11 sec/60° @ 8.4V	1.57 x 0.79 x 1.51 in (40.0 x 20.0 x 38.3mm)	1.90 oz (53.9 g)					√							
SPMSH6205	H6205 HV Digital High Speed Heli Cyclic MG	Metal	Dual BB	166 oz-in (12.0kg-cm) @ 6.0v	0.07 sec/60° @ 6.0V	1.61 x 0.82 x 1.25 In (40.9 x 20.9 x 31.8mm)	2.20 oz (61.7g)					√							
SPMSH6210	H6210 HV Digital Ultra Speed Tail MG	Steel	Dual BB	107 oz-in (7.7 kg-cm) @ 8.4v	0.03 sec/60° @ 8.4V	1.61 x 0.82 x 1.25 in (40.9 x 20.9 x 31.8mm)	2.20 oz (62.4 g)					√							
SPMSH6280	H6280 HV Ultra Speed Cyclic MG	Steel	Dual BB	280 oz-in (13.5 kg-cm) @ 8.4v	0.06 sec/60° @ 8.4V	1.61 x 0.82 x 1.35 in (40.9 x 20.9 x 34.3mm)	2.70 oz (76.5 g)					√							
SPMSH5020G	H5020G Mini Digital Gyro MG	Metal	Dual BB	39 oz-in (2.8 kg-cm) @ 6.0V	0.05 sec/60° @ 6.0V	1.37 x 0.58 x 1.20 in (34.7 x 14.7 x 30.5mm)	0.86 oz (24.5 g)					√							
SPMSH3020	H3020 Sub-Micro High-Speed MG	Metal	Single BB	22 oz-in (1.6 kg-cm) @ 6.0V	0.08 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)					√							
SPMSH3050	H3050 Sub-Micro Digital Heli Cyclic MG Servo	Metal	Single BB	29 oz-in (2.1kg-cm) @ 4.8V	0.067 sec/60° @ 4.8V	0.91 x 0.47 x 1.17in (23.0 x 12.0 x 29.6mm)	0.46 oz (12.9 g)			√									
SPMSH3060	H3060 Sub-Micro Digital Heli Tail MG Servo	Metal	Single BB	12 oz-in (0.9kg-cm) @ 4.8V	0.036 sec/60° @ 4.8V	0.91 x 0.47 x 1.17in (23.0 x 12.0 x 29.6mm)	0.46 oz (12.9 g)												
SPMSH2025L	2.0-Gram Linear Long-Throw, 15mm Lead	Nylon	Single BB	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)	0.07 oz (2.00 g)			√									
SPMSH2026L	2.1-Gram Linear Long-Throw, 38mm Lead	Nylon	Single BB	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)	0.07 oz (2.10 g)			√									
SPMSH2040L	2.9-Gram Linear Long Throw	Nylo	Single BB	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	Nylon	Single BB	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)			√									
SPMSH2060	H2060 Nanolite High Speed Cyclic	Nylon	Bushing	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)					√							
SPMSH2061	Nanolite High Speed MG Heli Servo	Metal	Bushing	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	NA	Metal/Nylon	Dual BB	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)							√					
SPMSS6040	S6040 Digital—High-Speed	WR	Titanium	Dual BB	167 oz-in (12 kg-cm) @ 6.0V	0.08 sec/60° @ 6.0V	1.57 x 0.79 x 1.46 in (40.0 x 20.0 x 37.0mm)	1.85 oz (52.4 g)							√					√
SPMSS6070	S6070 Digital—Low-Profile	WR	Metal	Dual BB	125 oz-in (9 kg-cm) @ 6.0V	0.09 sec/60° @ 6.0V	1.61 x 0.79 x 1.00 in (40.8 x 20.2 x 25.4mm)	1.57 oz (44.5 g)							√					√
SPMSS6090	S6090 High Voltage—Speed	WR	Steel	Dual BB	292 oz-in (21 kg-cm) @ 8.4v	0.09 sec/60° @ 8.4V	1.57 x 0.79 x 1.24 in (40.0 x 20.0 x 32.0mm)	2.20 oz (62.0 g)							√	√				√
SPMSS6100	S6100 High Voltage—Torque	WR	Steel	Dual BB	361 oz-in (26 kg-cm) @ 8.4v	0.11 sec/60° @ 8.4V	1.57 x 0.79 x 1.24 in (40.0 x 20.0 x 32.0mm)	2.20 oz (62.0 g)							√	√				√
SPMSS6170	S6170 Standard Digital	WP	Nylon	Single BB	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)							√					√
SPMSS6180	S6180 Standard Digital MG	WP	Brass/Metal	Dual BB	100 oz-in (7.2 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.51 x 0.74 x 1.36 in (38.4 x 18.8 x 34.5mm)	1.50 oz (42.0 g)							√					√
SPMSS6230	S6230 Digital Surface Servo	WP	Metal	Dual BB	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 (59.5g)							√					√
SPMSS6240	S6240 High Speed, Dig Servo	WP	Metal	Dual BB	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 (59.5g)							√					√
SPMSS6240RX	S6240RX Hi-Torq Hi-Spd w/ Built-In Receiver	NA	Metal	Dual BB	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)	2.0 oz (56g)												
SPMSS6250	S6250 High Torque, HV Dig Servo	WP	Metal	Dual BB	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 (59.5g)							√					
SPMSS6260	S6260 High Speed, HV Dig Servo	WP	Metal	Dual BB	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)	2.10 oz (59.5g)							√					
SPMSS6270	S6270 HV Low-Profile Race Digital MG	WP	Metal	Dual BB	163 oz-in (12.5 kg-cm) @ 8.4v	0.05 sec/60° @ 8.4V	1.61 x 0.82 x 1.06 in (41.0 x 20.9 x 26.7mm)	1.50 oz (42.0 g)							√					
SPMSS6280	S6280 Ultra Torque, HV Dig Servo	WP	Metal	Dual BB	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 (79.4g)								√				
SPMSS6290	S6290 Ultra Speed, HV Dig Servo	WP	Metal	Dual BB	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 (79.4g)								√				
SPMSS6340BL	S6340BL High Torque Ultra Speed BL	WR	Metal	Dual BB	241.85 oz-in (17.42 kg-cm) @ 8.4V	0.07 sec/60° @ 8.4V	1.63 x 0.82 x 1.17 in (41.4 x 20.8 x 29.7mm)	2.2 oz (62 g)							√	√				
SPMSS6390BL	S6390BL Ultra Torque High Speed BL HV	WR	Metal	Dual BB	312 oz-in (22.5kg-cm) @ 8.4V	0.09 sec/60° @ 8.4V	1.58 x 0.79 x 1.47 in (40.1 x 20.1 x 37.3mm)	2.3 oz (65g)								√				
SPMSS9010	S9010 HV 1/5-Scale Digital—Throttle	WP	Steel	Dual BB	660 oz-in (47.5 kg-cm) @ 8.4v	0.11 sec/60° no load	3.00 x 1.20 x 1.80 in (75.0 x 30.0 x 45.5mm)	5.00 oz (142 g)									√			
SPMSS9020	S9020 HV 1/5-Scale Digital—Steering	WP	Steel	Dual BB	1000 oz-in (72 kg-cm) @ 8.4v	0.16 sec/60° no load	3.00 x 1.20 x 1.80 in (75.0 x 30.0 x 45.5mm)	5.00 oz (142 g)									√			

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