

# SMD Power Coil

## SPRH Series

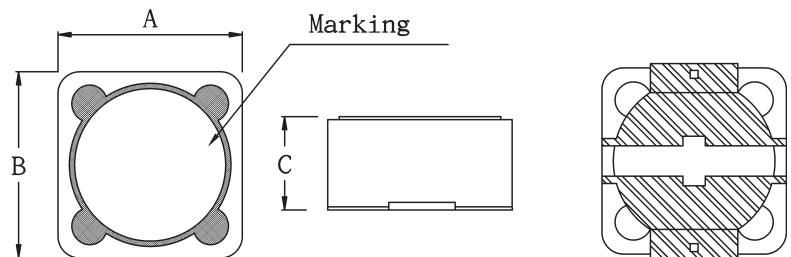


### FEATURES

- ◆ SPRH series is superior to be high saturation for surface mounting
- ◆ Magnetic shielding
- ◆ Very small footprint
- ◆ Flat-top for pick and place
- ◆ Increased size selection guide
- ◆ Low resistance to keep power loss minimum
- ◆ Operating temperature range -40°C +85°C

### APPLICATIONS

- ◆ Ideal for palm-top and laptop
- ◆ LCD television set
- ◆ Excellent for power line DC to DC converters application used in hard disk, notebook computer

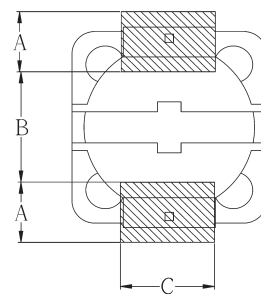


### DIMENSIONS (mm)

No.	Part No.	Size (mm)		
		A	B	C
1	SPRH 0703	7.3 ± 0.2	7.3 ± 0.2	3.2 ± 0.2
2	SPRH 0704	7.3 ± 0.2	7.3 ± 0.2	4.5 Max.
3	SPRH 1205	12.0 ± 0.3	12.0 ± 0.3	6.0 Max.
4	SPRH 1207	12.0 ± 0.3	12.0 ± 0.3	8.0 Max.
3	SPRH 1209	12.0 ± 0.3	12.0 ± 0.3	10.0 Max.

### RECOMMENDED PATTERN

Type	A	B	C
SPRH 0703	1.5	4.8	2.2
SPRH 0704	1.6	4.8	2.2
SPRH 1205	2.8	7.0	5.4
SPRH 1207	2.9	7.0	5.4
SPRH 1209	2.9	7.0	5.4



### PACKAGE

Type	SPRH 0703	SPRH 0704	SPRH 1205	SPRH 1207	SPRH 1209
Q'TY/Reel	1,000	1,000	400/500	400/500	400/500

info@schmid-m.com

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## SPRH Series



Part Code	L (μH)	SPRH 0703		SPRH 0704		SPRH 1205		SPRH 1207		SPRH 1209	
		RDC (Ω)	IDC (A)	RDC (Ω)	IDC (A)	RDC (Ω)	IDC (A)	RDC (Ω)	IDC (A)	RDC (Ω)	IDC (A)
1R0	1.0							0.006	14.00	0.030	20.00
1R3	1.3					0.012	8.00				
2R1	2.1					0.014	7.00				
2R4	2.4							0.010	10.30		
3R1	3.1					0.017	6.00				
3R5	3.5							0.012	9.30		
4R4	4.4					0.020	5.00				
4R6	4.6							0.014	9.10		
5R8	5.8					0.021	4.40	0.016	8.60		
7R4	7.4							0.018	7.40		
7R5	7.5					0.024	4.20				
100	10	0.072	1.68	0.049	1.84	0.025	4.00	0.019	6.70		
120	12	0.098	1.52	0.058	1.71	0.027	3.50	0.021	6.45		
150	15	0.130	1.33	0.081	1.47	0.030	3.30	0.026	5.65	0.022	6.00
180	18	0.140	1.20	0.091	1.31	0.034	3.00	0.028	5.10		
220	22	0.190	1.07	0.110	1.23	0.036	2.80	0.036	4.70		
270	27	0.210	0.96	0.150	1.12	0.051	2.30	0.041	4.20		
330	33	0.240	0.91	0.170	0.96	0.057	2.10	0.053	3.90		
390	39	0.320	0.77	0.230	0.91	0.068	2.00	0.060	3.50		
470	47	0.360	0.76	0.260	0.88	0.075	1.80	0.078	3.25	0.061	4.20
560	56	0.470	0.68	0.350	0.75	0.110	1.70	0.090	2.90		
680	68	0.520	0.61	0.380	0.69	0.120	1.50	0.120	2.60	0.885	3.00
820	82	0.690	0.57	0.430	0.61	0.140	1.40	0.119	2.40		
101	100	0.790	0.50	0.610	0.60	0.160	1.30	0.151	2.10		
121	120	0.890	0.49	0.660	0.52	0.170	1.10	0.169	1.90		
151	150	1.270	0.43	0.880	0.46	0.230	1.00	0.227	1.80	0.190	2.20
181	180	1.450	0.39	0.980	0.42	0.290	0.90	0.299	1.55	0.209	2.00
221	220	1.650	0.35	1.170	0.36	0.400	0.80	0.338	1.45	0.290	1.60
271	270	2.310	0.32	1.640	0.34	0.460	0.75	0.419	1.30		
331	330	2.620	0.28	1.860	0.32	0.510	0.68	0.471	1.20	0.386	1.300
391	390	2.940	0.26	2.850	0.29	0.690	0.65	0.572	1.10		
471	470	4.180	0.24	3.010	0.26	0.770	0.58	0.741	1.00		
561	560	4.670	0.22	3.620	0.23	0.860	0.54	0.852	0.95		
681	680	5.730	0.19	4.630	0.22	1.200	0.48	1.130	0.85		
821	820	6.540	0.18	5.200	0.20	1.340	0.43	1.240	0.75		
102M	1000	9.440	0.16	6.000	0.18	1.530	0.40	1.500	0.70		

DCR & IDC listed are all Max. Value.

Tolerance : M ± 20%, N ± 25% , M tolerance is standard.

Inductance drop 25% no more than initial value at rate current, temperature rises  $\Delta t < 40^{\circ}\text{C}$

**\*\*Other Spec. is available to be case by case. Welcome to contact our sales.\*\***

info@schmid-m.com