

# SMD Shielded Power Inductors - SCDS Series

Stamp	Inductance (mH)	D.C.R (mΩ) Max.													
		SCDS 2D09	SCDS 2D11	SCDS 2D14	SCDS 2D18LD	SCDS 2D18HP	SCDS 3D12	SCDS 3D16	SCDS 4D18C	SCDS 4D18	SCDS 4D28	SCDS 5D18	SCDS 5D28	SCDS 6D28	SCDS 6D38
1R0	1.0						40.1 ±30%			45					
1R1	1.1								29						
1R2	1.2	97.5									23.6				
1R5	1.5	110	68	63			63.5 ±30%	52							
1R7	1.7					44									
1R8	1.8	131.3		75							27.5				
2R2	2.2	143.8	98	94	41	60	83.5 ±30%	72	39	75	31.3				
2R5	2.5												18		
2R7	2.7	150		106						105	43.3				
3R0	3.0								61				24	24	
3R3	3.3	193.8	123	125	54	86	122 ±30%	85		110	49.2				20
3R9	3.9	225		138						155	64.8			27	
4R1	4.1											57			
4R2	4.2												31		
4R7	4.7	287.5	170	169	78	140	172 ±30%	105	110	162	72.0				
5R0	5.0													31	24
5R3	5.3														
5R4	5.4														
5R6	5.6	325		188			191 ±30%			170	100.9				
6R0	6.0													35	
6R2	6.2											96	45		27
6R3	6.3					160									
6R8	6.8	425	260	213	106		218 ±30%	170	125	200	108.9				
7R3	7.3													54	
7R4	7.4														31
8R2	8.2	475		281			255 ±30%			245	117.5			53	
8R6	8.6													58	
8R7	8.7														34
8R9	8.9											116			
100	10	537.5	400	294	180	245	408 ±30%	210	156	280	128.3	124	65	65	38
120	12			394			462 ±30%			320	131.6	153	76	70	53
150	15				220	345	502 ±30%	295	194	360	149.0	196	103	84	57
180	18						573 ±30%			400	166.0	210	110	95	92
220	22				320		801 ±30%	430	323	480	235.0	290	122	128	96
270	27						1207 ±30%			570	261.0	330	175	142	109
330	33				460		1358 ±30%	675	550	694	331.3	386	189	165	124
390	39						1911 ±30%			800	383.7	520	212	210	138
470	47				660				783	950	587.0	595	250	238	150
560	56									1080	624.5	665	305	277	202
680	68								1160	1300	699.0	840	355	304	234
820	82										914.8	978	463	390	324
101	100								1510		1020	1200	520	535	358
121	120										1270				
151	150										1350				
181	180										1540				

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		SCDS 2D09	SCDS 2D11	SCDS 2D14	SCDS 2D18LD	SCDS 2D18HP	SCDS 3D12	SCDS 3D16	SCDS 4D18C	SCDS 4D18	SCDS 4D28	SCDS 5D18	SCDS 5D28	SCDS 6D28	SCDS 6D38
1R0	1.0						1.54			1.72					
1R1	1.1							2.4							
1R2	1.2	0.8								2.56					
1R5	1.5	0.73	0.90	1.80			1.32	1.55							
1R7	1.7					1.85									
1R8	1.8	0.65		1.65							2.20				
2R2	2.2	0.60	0.78	1.50	0.85	1.60	1.12	1.20	1.7	1.32	2.04				
2R5	2.5												2.60		
2R7	2.7	0.53		1.35						1.28	1.60				
3R0	3.0								1.5				2.40	3.00	
3R3	3.3	0.47	0.60	1.20	0.75	1.45	0.90	1.10		1.04	1.57				3.50
3R9	3.9	0.45		1.10						0.88	1.44			2.60	
4R1	4.1											1.95			
4R2	4.2												2.20		
4R7	4.7	0.41	0.50	1.00	0.63	1.20	0.72	0.90	1.15	0.84	1.32				
5R0	5.0													2.40	2.90
5R3	5.3												1.90		
5R4	5.4											1.60			
5R6	5.6	0.37		0.95			0.66			0.80	1.17				
6R0	6.0													2.25	
6R2	6.2											1.40	1.80		2.50
6R3	6.3					1.05									
6R8	6.8	0.33	0.44	0.85	0.52		0.60	0.73	1.05	0.76	1.12				
7R3	7.3													2.10	
7R4	7.4														2.30
8R2	8.2	0.30		0.80			0.57			0.68	1.04		1.60		
8R6	8.6													1.85	
8R7	8.7														2.20
8R9	8.9											1.25			
100	10	0.28	0.35	0.70	0.43	0.85	0.49	0.55	0.83	0.61	1.00	1.20	1.30	1.70	2.00
120	12			0.62		0.70	0.47			0.56	0.84	1.10	1.20	1.55	1.70
150	15				0.35		0.41	0.45	0.7	0.50	0.76	0.97	1.10	1.40	1.60
180	18						0.37			0.48	0.72	0.85	1.00	1.32	1.50
220	22				0.30		0.34	0.40	0.6	0.41	0.70	0.80	0.90	1.20	1.30
270	27						0.30			0.35	0.58	0.75	0.85	1.05	1.20
330	33				0.24		0.28	0.32	0.46	0.32	0.56	0.65	0.75	0.97	1.10
390	39						0.23			0.30	0.50	0.57	0.70	0.86	1.00
470	47				0.20				0.41	0.28	0.48	0.54	0.62	0.80	0.95
560	56									0.26	0.41	0.50	0.58	0.73	0.85
680	68								0.305	0.24	0.35	0.43	0.52	0.65	0.75
820	82										0.32	0.41	0.46	0.60	0.70
101	100								0.25		0.29	0.36	0.42	0.54	0.65
121	120										0.27				
151	150										0.24				
181	180										0.22				

# SMD Shielded Power Inductors - SCDS Series

## Standard Specifications

Stamp	Inductance (mH)	D.C.R (m $\Omega$ ) Max.									
		SCDS 62T	SCDS 64T	SCDS 73	SCDS 74	SCDS 104R	SCDS 1014R	SCDS 105R	SCDS 124	SCDS 125	SCDS 127
R80	0.8							4.3			
1R2	1.2										7.0
1R5	1.5					8.1		5.8			
2R2	2.2							7.2			
2R4	2.4										11.5
2R5	2.5					10					
3R3	3.3	68						10.4			
3R5	3.5										13.5
3R8	3.8					13					
3R9	3.9								15		
4R7	4.7	80						12.3	18		15.8
5R2	5.2					22					
5R5	5.5	96									
6R1	6.1										17.6
6R8	6.8	100						18	23		
7R0	7.0					27					
7R6	7.6										20.0
8R2	8.2	100						20			
100	10	150	120	72	49	35	0.17	26	28	25	21.6
120	12	200	130	98	58			33	38	27	24.3
150	15	230	180	130	81	50	0.24	41	50	30	27.0
180	18	270	240	140	91			46	57	34	39.2
220	22	340	270	190	110	73	0.33	61	66	36	43.2
270	27	380	300	210	150			69	80	51	45.9
330	33	450	330	240	170	93	0.5	84	97	57	64.8
390	39	490	370	320	230			106	132	68	72.9
470	47	690	520	360	260	128		130	150	75	100
560	56	780	560	470	350			149	190	110	110
680	68	1070	630	520	380	213		201	220	120	140
820	82	1210	710	690	430			227	260	140	160
101	100	1390	1030	790	610	304		253	308	160	220
121	120	1900	1150	890	660			303	380	170	250
151	150	2180	1680	1270	880	506		370	530	230	280
181	180	2770	1870	1450	980			419	620	290	350
221	220	3120	2080	1650	1170	756		500	700	400	390
271	270	4380	2370	2310	1640			672	876	460	560
331	330	4940	2670	2620	1860	1.09		812	990	510	640
391	390		2940	2940	2850			953		690	700
471	470		3930	4180	3010			1289		770	980
561	560		5430	4670	3620			1430		860	1070
681	680		7320	5730	4630			1599		1200	1460
821	820		8240	6540	5200			1768		1340	1640
102	1000		9260	9440	6000			1989		1530	1820

# SMD Shielded Power Inductors - SCDS Series

## Standard Specifications

Stamp	Inductance (mH)	Rated Current (A) Max.									
		SCDS 62	SCDS 64	SCDS 73	SCDS 74	SCDS 104R	SCDS 1014R	SCDS 105R	SCDS 124	SCDS 125	SCDS 127
R80	0.8							9.50			
1R2	1.2										9.80
1R5	1.5					10.0		8.30			
2R2	2.2							7.50			
2R4	2.4										8.00
2R5	2.5					7.5					
3R3	3.3	1.94						6.50			
3R5	3.5										7.50
3R8	3.8					6.0					
3R9	3.9								6.50		
4R7	4.7	1.63						6.10	5.70		6.80
5R2	5.2						5.5				
5R5	5.5	1.40									
6R1	6.1										6.60
6R8	6.8	1.33						5.40	4.90		
7R0	7.0					4.8					
7R6	7.6										5.90
8R2	8.2	1.14						5.00			
100	10	1.10	1.35	1.68	1.84	4.4	1.8	4.50	4.50	4.00	5.40
120	12	1.00	1.22	1.52	1.71			3.80	4.00	3.50	4.90
150	15	0.90	1.11	1.33	1.47	3.6	1.4	3.40	3.20	3.30	4.50
180	18	0.80	1.02	1.20	1.31			3.10	3.10	3.00	3.90
220	22	0.74	0.91	1.07	1.23	2.9	1.2	2.90	2.90	2.80	3.60
270	27	0.66	0.82	0.96	1.12			2.60	2.80	2.30	3.40
330	33	0.59	0.74	0.91	0.96	2.3	0.9	2.50	2.70	2.10	3.00
390	39	0.54	0.69	0.77	0.91			2.25	2.10	2.00	2.75
470	47	0.50	0.62	0.76	0.88	2.1		2.00	1.90	1.80	2.50
560	56	0.46	0.58	0.68	0.75			1.90	1.80	1.70	2.35
680	68	0.42	0.51	0.61	0.69	1.5		1.60	1.50	1.50	2.10
820	82	0.38	0.46	0.57	0.61			1.45	1.30	1.40	1.95
101	100	0.34	0.42	0.50	0.60	1.35		1.35	1.20	1.30	1.70
121	120	0.31	0.38	0.49	0.52			1.18	1.10	1.10	1.60
151	150	0.28	0.35	0.43	0.46	1.15		1.10	0.95	1.00	1.42
181	180	0.26	0.32	0.39	0.42			1.00	0.85	0.90	1.30
221	220	0.23	0.29	0.35	0.36	0.92		0.94	0.80	0.80	1.16
271	270	0.22	0.26	0.32	0.34			0.80	0.60	0.75	1.06
331	330	0.19	0.23	0.28	0.32	0.70		0.73	0.50	0.68	0.95
391	390		0.22	0.26	0.29			0.70		0.65	0.88
471	470		0.20	0.24	0.26			0.54		0.58	0.79
561	560		0.18	0.22	0.23			0.52		0.54	0.73
681	680		0.17	0.19	0.22			0.51		0.48	0.67
821	820		0.15	0.18	0.20			0.48		0.43	0.60
102	1000		0.14	0.16	0.18			0.42		0.40	0.55

## SMD Shielded Power Inductors - SCDS Series

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Test Freq. (L):	SCDS 2D09/ 4D18/ 1014R/ 105R (100KHz/ 1V) SCDS 127: 1.2~7.6μH (100K/1V) 10~1000μH (1KHz/1V) SCDS 4D18: 1.0~8.2μH (7.96MHz/1V), 10~39μH (100KHz/1V) SCDS 2D11/ 2D14/ 2D18LP/2D18HP/ 4D28/ 104R/ 124: (100KHz/1V) SCDS 5D18/ 5D28/ 6D28: (10KHz/1V) SCDS 3D12/ 6D38: (10KHz/1V) SCDS 62T: 3.3~8.2μH (7.96MHz/1V), 10~82μH (2.52MHz/1V), 100~330μH(1KHz/1V) SCDS 64T/ 73/ 74/ 125: (1KHz/1V)
SCDS 3D12	Rated Current: It makes rated current either when the value with 30% declining inductance or the generation of heat become 30% near value by the rising one above another of the direct current.
Other type:	Rated current: The rated current indicates the current when the inductance decrease to 65%. Over of it's nominal value or D.C. current when the temperature rising $t=40^{\circ}\text{C}$ lower, whichever is lower.
Test Instrument:	L: HP4192A LF Impedance analyzer RDC: CHEN HWA 502BC Rated Current: HP4284+42841A or CH1061 + CH301A

### Tolerance Of Inductors

● SCDS 2D09	1.2~10 uH ± 30% (T)	● SCDS 6D28	1.0 ~ 68μH ± 30% (T)
● SCDS 2D11	1.5 ~ 10uH ± 30% (T)	● SCDS 6D38	3.3 ~ 100uH ± 30% (T)
● SCDS 2D14	1.5 ~ 12μH ± 30% (T)	● SCDS 62T	3.3 ~ 330uH ± 30% (T)
● SCDS 2D18LD	2.2~47μH ± 30% (T)	● SCDS 64T	10~1000uH ± 30% (T)
● SCDS 2D18HP	1.7~15μH ± 30% (T)	● SCDS 73	10~ 1000uH ± 30% (T)
● SCDS 3D12	1.0 ~ 39μH ± 30% (T)	● SCDS 74	10~ 1000uH ± 30% (T)
● SCDS 3D16	1.5 ~ 33μH ± 30% (T)	● SCDS 104R	1.5~ 330uH ± 30% (T)
● SCDS 4D18	1.0 ~ 68μH ± 30% (T)	● SCDS 1014R	10~33uH ±20% (M)
● SCDS 4D18C	1.1~100uH ± 30% (T)	● SCDS 105R	0.8~1000uH ± 30% (T)
● SCDS 4D28	1.02~ 180μH ± 30% (T)	● SCDS 124	3.9~ 330uH ± 30% (T)
● SCDS 5D18	4.1 ~ 100μH ± 30% (T)	● SCDS 125	10~ 1000uH ± 30% (T)
● SCDS 5D28	2.5 ~ 100μH ± 30% (T)	● SCDS 127	1.2~ 7.6uH ± 30% (T)