



**PART NUMBER**

SCD	1	105	2	-	101	3	M	4
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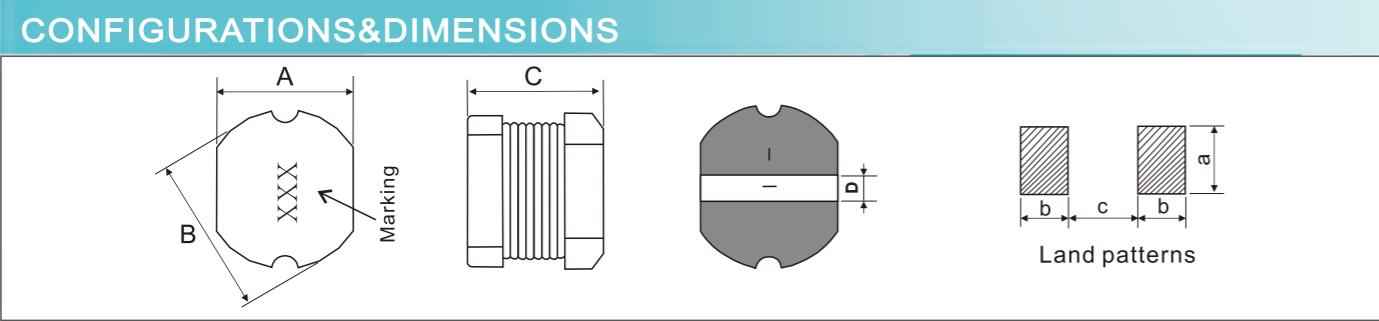
1, Series name  
2, Dimension:  
105: L×W×H: 10×9×5mm  
3, Inductance: 101:100μH  
4, Inductance Tolerance:  
M±20%, N±30%

**FEATURES**

- Excellent solderability and high heat resistance.
- Excellent terminal strength construction.
- Metalized drum core design for the utilization of board space.

**APPLICATIONS**

- DC/DC converters
- Switching supplies
- LCD TVs, laptops
- RFI/EMC filtering
- Computers
- Test equipment



**Unit:mm**

SERIES	A	B	C	D	a	b	c
SCD32	3.0±0.30	3.50±0.30	2.4max	1.0Typ	3.4 Typ	1.6Typ	0.9Typ
SCD43	4.0±0.30	4.50±0.30	3.5max	1.0Typ	4.0Typ	2.1Typ	1.0Typ
SCD52	5.2±0.30	5.80±0.30	3.0max	1.0Typ	5.8Typ	2.5Typ	1.1Typ
SCD54	5.2±0.30	5.80±0.30	4.8max	1.0Typ	5.8Typ	2.5Typ	1.1Typ
SCD73	7.0±0.30	7.80±0.30	4.0max	2.1Typ	8.0Typ	3.3Typ	1.4Typ
SCD75	7.0±0.30	7.80±0.30	5.3max	2.1Typ	8.0Typ	3.3Typ	1.4Typ
SCD104	9.0±0.30	10.0±0.30	4.3max	3.0Typ	10.0Typ	4.4Typ	1.8Typ
SCD105	9.0±0.30	10.0±0.30	6.0max	2.9Typ	10.0Typ	4.4Typ	1.8Typ
SCD108	9.0±0.30	10.0±0.30	8.5max	3.1Typ	10.0Typ	4.4Typ	1.8Typ
SCD137	13.0±0.50	13.0±0.50	7.3max	5.0Typ	14.0 Typ	5.2Typ	4.5Typ



**SMD POWER INDUCTORS**  
**SCD SERIES**  
IATF16949 ISO9001  
ISO14001 ISO45001 GJB9001C  
Product Survey 2020

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**创一科技**  
CYGE TECHNOLOGY

## SMD POWER INDUCTORS

## SCD SERIES



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### SCD SELECTION GUIDE

		SCD32			SCD43			SCD52			SCD54			SCD73			SCD75			SCD104			SCD105			SCD108			SCD137			
Stamp	L uH	DCR Ω	Isat A	Irms Max																												
1R0	1.0	0.040	3.40	2.40	0.03	3.80	2.7	0.02	2.20	2.00	0.012	5.9	5.5	0.0084	2.2	2.0	0.007	8.0	7.5	0.007	8.2	7.8										
1R5	1.5	0.056	2.80	2.00	0.04	3.20	2.6																0.018	7.68	6.40							
1R8	1.8	0.070	2.60	1.80	0.063	2.90	2.0																									
2R2	2.2	0.075	2.35	1.70	0.071	2.60	1.9	0.04	1.90	1.70	0.025	4.2	3.8	0.017	1.9	1.7	0.013	6.0	5.6	0.010	7.0	6.4	0.021	6.48	5.40	0.009	11.8	9.80	0.007	19.8	11.0	
2R7	2.7	0.095	2.15	1.50	0.078	2.30	1.8																						0.008	17.6	10.4	
3R3	3.3	0.110	1.95	1.40	0.086	2.04	1.7	0.06	1.80	1.60	0.031	3.8	3.3	0.025	1.8	1.6	0.022	5.2	4.8	0.015	6.2	5.6	0.024	6.00	5.00				0.009	16.0	9.80	
3R9	3.9	0.125	1.80	1.30	0.093	1.92	1.6																0.027	5.52	4.60							
4R7	4.7	0.135	1.60	1.20	0.108	1.80	1.5	0.08	1.70	1.50				0.031	1.7	1.5	0.028	4.6	4.2	0.019	5.4	4.8	0.036	4.80	4.00	0.013	9.48	7.90	0.012	13.5	8.50	
5R6	5.6	0.165	1.50	1.10	0.125	1.68	1.4															0.040	4.56	3.80				0.014	12.4	7.90		
6R8	6.8	0.190	1.35	1.00	0.131	1.56	1.3	0.10	1.50	1.30	0.063	2.6	2.1	0.047	1.5	1.3	0.035	4.0	3.6	0.026	4.6	3.9	0.044	4.08	3.40	0.022	7.44	6.20	0.016	11.0	7.40	
8R2	8.2	0.24	1.20	0.90	0.146	1.44	1.2															0.048	3.60	3.00				0.019	10.0	6.80		
100	10	0.29	1.10	0.84	0.182	1.32	1.1	0.13	1.56	1.30	0.10	1.80	1.50	0.080	1.73	1.44	0.07	2.76	2.30	0.053	2.88	2.40	0.060	3.12	2.60	0.033	6.12	5.10	0.021	9.30	6.40	
120	12	0.35	1.00	0.72	0.21	1.16	0.97	0.16	1.44	1.20	0.12	1.68	1.40	0.090	1.67	1.39	0.08	2.40	2.00	0.061	2.64	2.20	0.070	2.94	2.45				0.028	8.50	5.60	
150	15	0.46	0.90	0.62	0.235	1.02	0.85	0.18	1.26	1.05	0.14	1.56	1.30	0.104	1.49	1.24	0.09	2.16	1.80	0.070	2.28	1.90	0.080	2.70	2.25	0.045	5.16	4.30	0.034	7.50	5.10	
180	18	0.52	0.80	0.58	0.338	0.89	0.74	0.21	1.14	0.95	0.15	1.44	1.20	0.111	1.37	1.14	0.1	1.92	1.60	0.080	2.16	1.80	0.090	2.58	2.15				0.04	6.80	4.70	
220	22	0.65	0.75	0.51	0.378	0.82	0.68	0.28	1.08	0.90	0.18	1.32	1.10	0.129	1.28	1.07	0.11	1.80	1.50	0.088	1.92	1.60	0.10	2.34	1.95	0.053	4.20	3.50	0.052	6.20	4.10	
270	27	0.75	0.68	0.48	0.522	0.74	0.62	0.32	0.960	0.80	0.20	1.16	0.97	0.153	1.13	0.94	0.12	1.68	1.40	0.100	1.80	1.50	0.11	2.10	1.75				0.06	5.60	3.80	
330	33	0.82	0.60	0.46	0.54	0.67	0.56	0.38	0.840	0.70	0.23	1.06	0.88	0.170	1.02	0.85	0.13	1.56	1.30	0.120	1.56	1.30	0.12	1.44	1.50	0.081	3.36	2.80	0.07	5.10	3.50	
390	39	1.12	0.55	0.39	0.587	0.62	0.52	0.42	0.780	0.65	0.32	0.96	0.80	0.217	0.89	0.74	0.16	1.44	1.20	0.151	1.44	1.20	0.14	1.62	1.35				0.075	4.60	3.30	
470	47	1.27	0.50	0.37	0.844	0.53	0.44	0.60	0.720	0.60	0.37	0.86	0.72	0.252	0.82	0.68	0.18	1.32	1.10	0.170	1.32	1.10	0.17	1.50	1.25	0.094	2.76	2.30	0.082	4.20	3.10	
560	56	1.50	0.46	0.34	0.937	0.50	0.42	0.71	0.600	0.50	0.42	0.82	0.68	0.282	0.77	0.64	0.24	1.13	0.94	0.199	1.20	1.00	0.19	1.38	1.15				0.112	3.90	2.60	
680	68	1.80	0.40	0.31	1.17	0.44	0.37	0.76	0.540	0.45	0.46	0.73	0.61	0.332	0.71	0.59	0.28	1.02	0.85	0.223	1.09	0.91	0.22	1.32	1.10				0.13	3.50	2.40	
820	82	2.15	0.36	0.28					0.88	0.504	0.42	0.60	0.70	0.58	0.406	0.65	0.54	0.37	0.90	0.75	0.252	1.02	0.85	0.25	1.20	1.00	0.16	2.16	1.80	0.15	3.20	2.20
101	100	2.80	0.34	0.24	1.24	0.37	0.35	1.60	0.480	0.40	0.70	0.62	0.52	0.481	0.61	0.51	0.43	0.86	0.72	0.344	0.89											