SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

FEATURES

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- With magnetic shield against radiation.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Super low resistance with high current rating and high energy storage.
- Suitable for surface mount equipment.

特 征

- 磁性树脂涂敷结构极大地降低噪音；
- 磁屏蔽结构，防止高频辐射干扰；
- 直接在磁芯上金属化电极，抗跌落冲击强，经久耐用；
- 超低的直流电阻及高额定电流和高能量储存；
- 适合表面贴装。

APPLICATIONS

- Power supply choke for small electrical equip-ments such as LED Light, VTR,LCD display, Note book, communication equipment , OA equipments , Mother board , display card ,sound card; Power supply or MP3, MP4 , MP5,PDA ,IPAD,IPHONE, DC-DC converter DC –AC inverters etc.

用 途

- LED 照明、录像机、液晶显示器、笔记本电脑、通讯设备、电脑主机板、声卡、显卡、办公自动化设备的电源扼流；MP3、MP4、MP5,PDA、IPAD、IPHONE,直流-直流整流器，直流-交流换流器等的电源供应器。

ORDERING CODE

SCB 252010 - 100 M T

- Packing style(T:taping; B: bulk)
- Tol.(K:±10%;M:±20%;N:±30%)
- Inductance value(uH)
- Specification
- Type

SHAPE

外形尺寸 EXTERNAL DIMENSIONS（长 L×宽 W×高 H）(mm)

TYPE	DIMENSIONS	TYPE	DIMENSIONS
252010	2.5*2.0*1.0	4026	4.0*4.0*2.6
252012	2.5*2.0*1.2	4030	4.0*4.0*3.0
3010	3.0*3.0*1.0	5012	5.0*5.0*1.2
3012	3.0*3.0*1.2	5020	5.0*5.0*2.0
3015	3.0*3.0*1.5	5040	5.0*5.0*4.0
4010	4.0*4.0*1.0	6020	6.0*6.0*2.0
4012	4.0*4.0*1.2	6028	6.0*6.0*2.8
4018	4.0*4.0*1.8	6045	6.0*6.0*4.5
4020	4.0*4.0*2.0	8040	8.0*8.0*4.0

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

DIMENSIONS AND LAND PATTERNS(mm)

FIG1

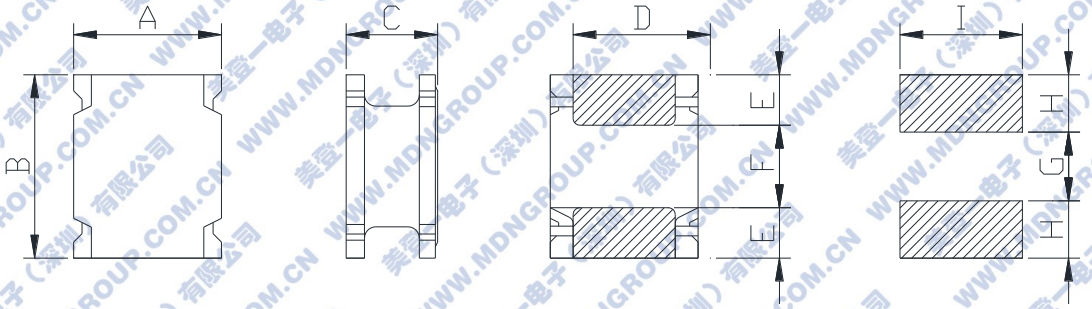
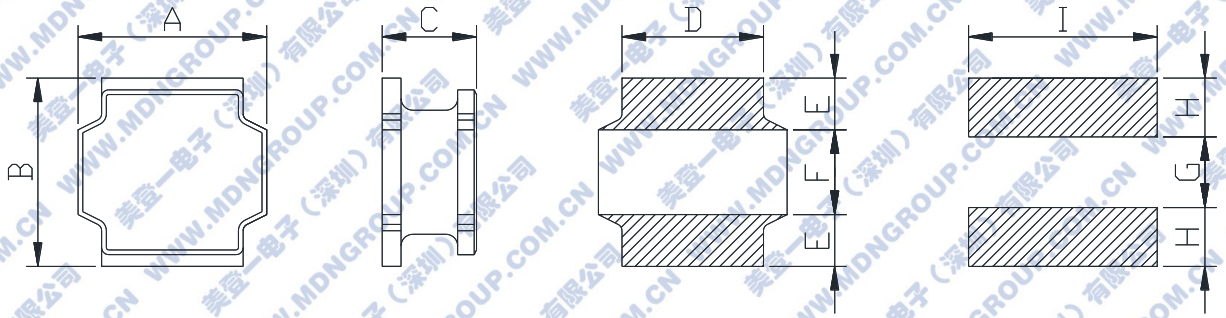


FIG2



TYPE	FIG	A (±0.3)	B (±0.3)	C (Max)	D (Ref)	E (Ref)	F (Ref)	G (Ref)	H (Ref)	I (Ref)
SCB252010-	1	2.5	2.0	1.0	1.5	0.80	0.80	0.80	0.85	2.0
SCB252012-	1	2.5	2.0	1.2	1.5	0.80	0.80	0.80	0.85	2.0
SCB3010	2	3.0	3.0	1.0	2.5	0.75	1.5	1.5	0.8	2.7
SCB3012-	2	3.0	3.0	1.2	2.5	0.75	1.5	1.5	0.8	2.7
SCB3015-	2	3.0	3.0	1.5	2.5	0.75	1.5	1.5	0.8	2.7
SCB4012-	2	4.0	4.0	1.2	3.3	0.95	2.1	1.9	1.1	3.7
SCB4018-	2	4.0	4.0	1.8	3.3	0.95	2.1	1.9	1.1	3.7
SCB4020-	2	4.0	4.0	2.0	3.3	0.95	2.1	1.9	1.1	3.7
SCB4026-	2	4.0	4.0	2.6	3.3	0.95	2.1	1.9	1.1	3.7
SCB4030	2	4.0	4.0	3.0	3.3	0.95	2.1	1.9	1.1	3.7
SCB5012-	2	5.0	5.0	1.2	4.0	1.25	2.5	2.3	1.4	4.2
SCB5020-	2	5.0	5.0	2.0	4.0	1.25	2.5	2.3	1.4	4.2
SCB5040	2	5.0	5.0	4.0	4.0	1.25	2.5	2.3	1.4	4.2
SCB6020-	2	6.0	6.0	2.0	4.9	1.55	2.9	2.8	1.7	5.7
SCB6028-	2	6.0	6.0	2.8	4.9	1.55	2.9	2.8	1.7	5.7
SCB6045-	2	6.0	6.0	4.5	4.9	1.55	2.9	2.8	1.7	5.7
SCB8040-	2	8.0	8.0	4.4	6.3	2.2	4.0	3.8	2.2	7.5

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB252010-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
R47N	0.47	±30%	0.047	100	3.35	2.56
R56N	0.56	±30%	0.060	100	3.20	2.18
R68N	0.68	±30%	0.062	100	2.75	2.05
1R0N	1.00	±30%	0.090	100	2.20	1.80
1R5N	1.50	±30%	0.150	100	2.10	1.42
2R2N	2.20	±30%	0.175	100	1.60	1.30
3R3M	3.30	±20%	0.275	100	1.30	0.98
4R7M	4.70	±20%	0.470	100	1.15	0.76
5R6M	5.60	±20%	0.650	100	0.95	0.80
6R8M	6.80	±20%	0.750	100	0.92	0.64
100M	10.00	±20%	0.910	100	0.78	0.55

SCB252012-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
R47N	0.47	±30%	0.047	100	4.27	2.34
R68N	0.68	±30%	0.057	100	3.68	2.13
1R0N	1.00	±30%	0.069	100	2.90	2.10
1R5N	1.50	±30%	0.115	100	2.51	1.53
2R2N	2.20	±30%	0.166	100	2.07	1.25
3R3M	3.30	±20%	0.203	100	1.80	1.13
4R7M	4.70	±20%	0.290	100	1.45	0.92
5R6M	5.60	±20%	0.414	100	1.25	0.80
6R8M	6.80	±20%	0.447	100	1.09	0.75
100M	10.00	±20%	0.531	100	0.88	0.68
120M	12.00	±20%	0.827	100	0.82	0.56
150M	15.00	±20%	1.224	100	0.77	0.46
220M	22.00	±20%	1.520	100	0.59	0.41

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB3012-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.04	100	1.88	2.20
2R2N	2.2	±30%	0.075	100	1.20	1.55
3R3N	3.3	±30%	0.100	100	1.10	1.35
4R7N	4.7	±30%	0.120	100	0.90	1.24
100M	10	±20%	0.265	100	0.60	0.83
150M	15	±20%	0.360	100	0.45	0.70
220M	22	±20%	0.645	100	0.42	0.55
330M	33	±20%	0.875	100	0.36	0.45
470M	47	±20%	1.450	100	0.28	0.35
680M	68	±20%	1.670	100	0.25	0.33
101M	100	±20%	2.860	100	0.20	0.25

SCB3015-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.03	100	2.32	2.35
2R2N	2.2	±30%	0.06	100	1.60	1.60
3R3N	3.3	±30%	0.08	100	1.32	1.36
4R7N	4.7	±30%	0.125	100	1.10	1.05
100M	10	±20%	0.250	100	0.72	0.75
150M	15	±20%	0.350	100	0.66	0.65
220M	22	±20%	0.460	100	0.52	0.57
330M	33	±20%	0.820	100	0.44	0.43
470M	47	±20%	1.250	100	0.35	0.35
560M	56	±20%	1.280	100	0.33	0.34
680M	68	±20%	2.700	100	0.28	0.30

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB4012-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.050	100	2.61	1.65
2R2N	2.2	±30%	0.080	100	1.76	1.32
3R3N	3.3	±30%	0.110	100	1.72	1.12
4R7N	4.7	±30%	0.125	100	1.15	1.05
6R8N	6.8	±30%	0.198	100	0.85	0.84
100M	10	±20%	0.265	100	0.80	0.77
150M	15	±20%	0.340	100	0.56	0.64
220M	22	±20%	0.587	100	0.46	0.49
330M	33	±20%	0.810	100	0.42	0.42
470M	47	±20%	1.100	100	0.35	0.37
680M	68	±20%	1.950	100	0.38	0.27
101M	100	±20%	2.210	100	0.25	0.25

SCB4018-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.025	100	4.80	2.00
2R2N	2.2	±30%	0.045	100	2.70	1.65
3R3N	3.3	±30%	0.070	100	2.45	1.23
4R7N	4.7	±30%	0.090	100	1.70	1.20
100M	10	±20%	0.180	100	1.30	0.84
150M	15	±20%	0.250	100	0.94	0.65
220M	22	±20%	0.360	100	0.80	0.59
330M	33	±20%	0.530	100	0.56	0.49
470M	47	±20%	0.650	100	0.52	0.42
680M	68	±20%	1.000	100	0.47	0.32
101M	100	±20%	1.750	100	0.40	0.25
151M	150	±20%	2.500	100	0.31	0.22
221M	220	±20%	4.000	100	0.27	0.17

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB4020-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.029	100	4.78	2.15
2R2N	2.2	±30%	0.040	100	3.40	1.85
3R3N	3.3	±30%	0.070	100	3.20	1.40
4R7N	4.7	±30%	0.075	100	2.35	1.34
6R8N	6.8	±30%	0.125	100	2.20	1.04
100M	10	±20%	0.165	100	1.60	0.90
150M	15	±20%	0.230	100	1.35	0.77
220M	22	±20%	0.350	100	1.05	0.62
330M	33	±20%	0.550	100	0.85	0.49
470M	47	±20%	0.710	100	0.74	0.44
680M	68	±20%	1.060	100	0.61	0.36
820M	82	±20%	1.170	100	0.50	0.34
101M	100	±20%	1.550	100	0.48	0.31

SCB4026-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R2N	1.2	±30%	0.030	100	3.10	2.30
2R2N	2.2	±30%	0.040	100	2.10	2.00
3R3N	3.3	±30%	0.050	100	1.80	1.70
4R7N	4.7	±30%	0.055	100	1.45	1.60
6R8N	6.8	±30%	0.065	100	1.30	1.50
100M	10	±20%	0.085	100	1.00	1.30
150M	15	±20%	0.110	100	0.90	1.10
220M	22	±20%	0.165	100	0.60	0.90
330M	33	±20%	0.270	100	0.55	0.70
470M	47	±20%	0.300	100	0.40	0.65

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB5012-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.057	100	4.40	2.00
1R5N	1.5	±30%	0.072	100	3.70	1.90
2R2N	2.2	±30%	0.090	100	3.10	1.70
3R3N	3.3	±30%	0.126	100	2.40	1.40
4R7N	4.7	±30%	0.164	100	2.20	1.30
6R8N	6.8	±30%	0.245	100	1.70	1.00
100M	10	±20%	0.344	100	1.40	0.85
150M	15	±20%	0.436	100	1.20	0.80

SCB5020-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.020	100	4.10	3.80
1R5N	1.5	±30%	0.026	100	4.10	3.20
2R2N	2.2	±30%	0.032	100	3.20	2.90
3R3N	3.3	±30%	0.043	100	2.55	2.50
4R7N	4.7	±30%	0.057	100	2.45	2.20
6R8N	6.8	±30%	0.083	100	2.05	1.80
8R2N	8.2	±30%	0.100	100	1.85	1.65
100M	10	±20%	0.110	100	1.70	1.55
150M	15	±20%	0.165	100	1.35	1.25
220M	22	±20%	0.226	100	1.15	1.10
330M	33	±20%	0.390	100	0.92	0.90
470M	47	±20%	0.523	100	0.77	0.77
680M	68	±20%	0.740	100	0.65	0.64
101M	100	±20%	1.100	100	0.53	0.52

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB6020-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	2.2	±30%	0.020	100	4.15	3.50
2R2N	2.2	±30%	0.035	100	3.75	2.75
3R3N	3.3	±30%	0.035	100	3.15	2.60
4R7N	4.7	±30%	0.058	100	3.00	2.00
6R8N	6.8	±30%	0.079	100	2.20	1.80
8R2N	8.2	±30%	0.105	100	2.10	1.40
100M	10	±20%	0.115	100	1.75	1.40
150M	15	±20%	0.120	100	1.20	1.20
220M	22	±20%	0.210	100	1.05	1.00
330M	33	±20%	0.300	100	0.95	0.84

SCB6028-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
1R0N	1.0	±30%	0.010	100	5.75	5.20
2R2N	2.2	±30%	0.020	100	5.10	3.75
3R3N	3.3	±30%	0.025	100	4.15	3.48
4R7N	4.7	±30%	0.030	100	4.15	3.48
6R8N	6.8	±30%	0.047	100	2.60	2.40
100M	10	±20%	0.072	100	2.04	1.95
150M	15	±20%	0.125	100	1.75	1.45
220M	22	±20%	0.140	100	1.45	1.40
330M	33	±20%	0.185	100	1.35	1.22
470M	47	±20%	0.315	100	1.15	1.05
680M	68	±20%	0.360	100	0.80	0.86
820M	82	±30%	0.500	100	0.80	0.70
101M	100	±20%	0.520	100	0.65	0.65

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.

SMD INDUCTORS FOR POWER CIRCUITS 贴片功率电感 SCB 系列

SCB6045-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
2R2N	2.2	±30%	0.015	100	6.40	5.10
3R3N	3.3	±30%	0.020	100	5.20	4.60
4R7N	4.7	±30%	0.025	100	4.40	4.10
100M	10	±20%	0.048	100	3.20	3.00
150M	15	±20%	0.068	100	2.50	2.30
220M	22	±20%	0.090	100	2.10	2.00
330M	33	±20%	0.135	100	1.60	1.50
470M	47	±20%	0.200	100	1.40	1.40
680M	68	±20%	0.290	100	1.10	1.00
101M	100	±20%	0.430	100	0.90	0.80
151M	150	±20%	0.580	100	0.80	0.70
221M	220	±20%	0.840	100	0.70	0.60
331M	330	±20%	1.280	100	0.55	0.55

SCB8040-SERIES

P/N	L(uH) Inductance	Inductance Tolerance	DCR(Ω) DC Resistance	Test Freq.	Isat(A) Inductance decrease current	Idc(A) Temperature rise current
			±30%	KHz	Typ.	Typ.
2R2N	2.2	±30%	0.012	100	6.70	6.20
3R3N	3.3	±30%	0.017	100	5.20	5.20
4R7N	4.7	±30%	0.019	100	4.40	4.50
100M	10	±20%	0.030	100	3.20	3.50
150M	15	±20%	0.048	100	2.60	2.90
220M	22	±20%	0.070	100	2.20	2.50
330M	33	±20%	0.100	100	1.80	2.10
470M	47	±20%	0.135	100	1.50	1.70
680M	68	±20%	0.200	100	1.20	1.40
101M	100	±20%	0.290	100	1.00	1.20
221M	220	±20%	0.600	100	0.85	0.80
331M	330	±20%	0.889	100	0.68	0.64

Remark ： Inductance decrease current: Value of inductance decrease within 30%.
Temperature rise current: A rise in temperature of core surface is within 40℃.