

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

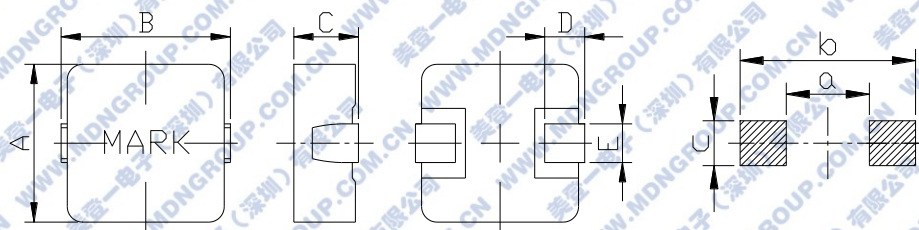
FEATURES

- Magnetically shielded and molded type inductor, possible to decrease noise.
- Alloy powder core.
- Very high DC saturation current.
- Low core loss and very low DC resistance.
- Molded construction to be excellent identically performance and machnical strength.
- Suitable for surface mount equipment.

APPLICATIONS

- Suitable as circuit for digital amp, Motherboard for panel computer and notebook computer DC/DC converter, etc.

SHAPES AND DIMENSIONS (mm)



特 征

- 磁屏蔽一体成型电感，可有效防止噪音；
- 合金粉材质
- 超高饱和电流；
- 低损耗及超低直流电阻。
- 一体成型结构具优秀一致性和机械强度。
- 适合表面贴装。

用 途

- 适用于数字功放电路，平板电脑及笔记本电脑主板及显卡 DC/DC 转换器等。

TYPE	A	B	C(Max)	D	E	a(Ref.)	b(Ref.)	C(Ref.)
HPB0410/12/20A-	4.4±0.4	4.2±0.4	1.0/1.2/2.0	0.8±0.3	2.0±0.3	2.2	5.2	2.5
HPB0515/18/30A-	5.4±0.5	5.2±0.5	1.5/1.8/3.0	1.2±0.3	2.2±0.3	2.2	6.0	2.5
HPB0610/12A-	6.1±0.5	6.1±0.5	1.0/1.2	1.8±0.3	4.0±0.3	2.8	7.5	4.5
HPB0615/18/24A-	7.0±0.5	6.6±0.5	1.5/1.8/2.4	1.6±0.3	3.0±0.3	3.7	8.4	3.5
HPB0630A-	7.0±0.5	6.6±0.5	3.0	1.6±0.3	3.0±0.3	3.7	8.4	3.5
HPB0640A-	7.0±0.5	6.6±0.5	4.0	1.6±0.3	3.0±0.3	3.7	8.4	3.5
HPB0650A-	7.0±0.5	6.6±0.5	5.0	1.6±0.3	3.0±0.3	3.7	8.4	3.5
HPB0840A-	8.8±0.5	8.2±0.5	4.0	1.4±0.3	5.0±0.3	4	9.5	5.5
HPB1030A-	11±0.8	10±0.5	3.0	2.0±0.5	3.0±0.5	5.4	13.6	4.1
HPB1040A-	11±0.8	10±0.5	4.0	2.0±0.5	3.0±0.5	5.4	13.6	4.1
HPB1050A-	11±0.8	10±0.5	5.0	2.0±0.5	3.0±0.5	5.4	13.6	4.1
HPB1240A-	13.5±0.8	12.6±0.5	4.0	2.2±0.5	3.8/5.0±0.5	8.0	14.5	5.5
HPB1250A-	13.5±0.8	12.6±0.5	5.0	2.2±0.5	3.8/5.0±0.5	8.0	14.5	5.5
HPB1260A-	13.5±0.8	12.6±0.5	6.0	2.2±0.5	5.0±0.5	8.0	14.5	5.5
HPB1265A-	13.5±0.8	12.6±0.5	6.5	2.2±0.5	5.0±0.5	8.0	14.5	5.5
HPB1770A-	17.5±1.0	17.0±0.8	7.0	2.5±0.5	12.0±0.5	11.2	18.2	12.8
HPB2213A-	23.0±1.0	22.0±0.8	13.0	5.0±0.5	19.0±0.5	12.5	24	19.6

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB0410A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
2R2M	2.2	100	4.3	3.4
4R7M	4.7	160	2.5	2.6
6R8M	6.8	255	2.2	2.0
100M	10	336	1.8	1.5

HPB0412A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
R22M	0.22	11	11	7
R33M	0.33	19	8.4	6.5
R47M	0.47	21	6.8	6
R68M	0.68	36	6	4.7
1R0M	1.0	47	5.5	4.5
1R5M	1.5	75	4	3.25
2R2M	2.2	83.5	3	2.75
4R7M	4.7	195	2.2	1.8

HPB0420A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
R10M	0.1	4	22	13
R22M	0.22	6.6	12.5	9.5
R33M	0.33	11	12	10
R47M	0.47	14	9.5	7.5
R68M	0.68	18	8	7
1R0M	1.0	27	7	6
1R2M	1.2	27	6.5	6
1R5M	1.5	46	5.5	5
2R2M	2.2	58	5	4.5
3R3M	3.3	87	3.5	3.3
4R7M	4.7	105	3	2.8
6R8M	6.8	175	2.5	2.4
100M	10	282	2	1.6

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HPB-A 系列

HPB0515A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R47M	0.47	13	13	9.5
R68M	0.68	15.5	11.2	9
1R0M	1.0	23	9.5	6.5
3R3M	3.3	72	4.5	3.3
4R7M	4.7	106	4.2	3

HPB0518A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R47M	0.47	9	15.5	10.5
R68M	0.68	13.8	11.2	8.9
1R0M	1.0	17	9.0	8.0
2R2M	2.2	35	6.5	5.0
3R3M	3.3	58	5	4.5
4R7M	4.7	85	4.0	3.5
6R8M	6.8	120	3.4	2.8
100M	10	155	3	2.5

HPB0530A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R10M	0.1	3.0	30	25
R22M	0.2	3.9	20	14
R33M	0.33	5.5	18	14
R47M	0.47	8.5	15	11
R68M	0.68	12	11.5	9.0
1R0M	1.0	14	10	8.5
1R2M	1.2	16	9.5	8.5
2R2M	2.2	29	7.0	7.0
3R3M	3.3	38	6.0	5.5
4R7M	4.7	60	4.6	4.5
6R8M	6.8	90	3.6	3.5
100M	10	125	3.5	3.2

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HPB-A 系列

HPB0610A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
4R7M	4.7	172	2.8	2.2
6R8M	6.8	197	2.5	2.0
100M	10	310	2.1	1.6

HPB0615A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
R47M	0.47	8.5	16	10
R56M	0.56	11	14	9
R68M	0.68	12	12	8.5
R82M	0.82	17	10	8
1R0M	1.0	21	9	6
2R2M	2.2	54	7	3.8
3R3M	3.3	63	5.5	3.5
4R7M	4.7	85	5	3.2
6R8M	6.8	135	4	2.5
100M	10	175	3	2

HPB0618A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
R10M	0.1	2.3	38	25
R22M	0.22	3.5	24	22
R47M	0.47	8.4	18	11.5
R68M	0.68	12	16.5	9.5
1R0M	1.0	16	12	8.5
1R5M	1.5	26	9.2	8
2R2M	2.2	35	8	7
3R3M	3.3	50	6	4.5
4R7M	4.7	62	5	4
6R8M	6.8	110	4.5	3
100M	10	155	4	2.3
220M	22	350	2.3	1.8

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HPB-A 系列

HPB0624A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R22M	0.22	3	34	21
R33M	0.33	4.1	24.5	18
R47M	0.47	5.1	22	15
R68M	0.68	7	16	12
1R0M	1.0	13.5	15	9
2R2M	2.2	28	10	7
3R3M	3.3	39	8	5.5
4R7M	4.7	50	6.5	5
6R8M	6.8	70	6	4
100M	10	101	4	3.1
150M	15	160	3.3	2.5
220M	22	230	2.5	2

HPB0630A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R10M	0.1	0.99	60	40
R22M	0.22	3	34	24
R33M	0.33	3.5	25	21
R47M	0.47	4.1	20	18
R68M	0.68	5.3	17	16
R82M	0.82	6.0	16	14
1R0M	1.0	7.4	15	12
1R5M	1.5	12.1	14	12
2R2M	2.2	15	12	9.5
2R7M	2.7	20	10	8.8
3R3M	3.3	22	9.5	8.5
4R7M	4.7	33	9	6
6R8M	6.8	48	6	5
8R2M	8.2	60	5.5	5
100M	10	68	5.5	4.5
150M	15	113	4.0	3
220M	22	170	3	2.5
330M	33	270	2.5	2
470M	47	385	2	1.5

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB0640A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R68M	0.68	4.8	19	17
1R0M	1.0	6.6	16	13.5
1R5M	1.5	10	12.5	12.4
2R2M	2.2	14	11	10
3R3M	3.3	20	9.5	8.5
4R7M	4.7	30	9	6.5
6R8M	6.8	45	6.5	5.5
8R2M	8.2	55	6	5.2
100M	10	65	6	4.8
150M	15	95	4.5	3.7
220M	22	125	4	3.3
330M	33	240	3	2.2
470M	47	320	2.5	1.8

HPB0650A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R47M	0.47	3.9	21	20
R68M	0.68	4.5	18	16.5
1R0M	1.0	6.6	16	12
1R5M	1.5	10	13	9.5
2R2M	2.2	12.5	11	9
3R3M	3.3	22	10	8.5
4R7M	4.7	29	8	6
6R8M	6.8	41	6.3	5.8
8R2M	8.2	48	5.5	5.5
100M	10	60	5.3	4.5
150M	15	90	4	3.1
220M	22	140	3.5	2.6
330M	33	190	3	2.3
470M	47	230	2.6	2

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB0840A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Max	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Max
R22M	0.22	1.8	60	36
R33M	0.33	2.4	45	30
R47M	0.47	2.8	42	28
R56M	0.56	3.2	26	24
R68M	0.68	3.8	24	23
R82M	0.82	4.4	21	21
1R0M	1.0	4.62	19	19
1R5M	1.5	7.6	17	17
1R8M	1.8	11	15	15
2R2M	2.2	11.4	14	14
3R3M	3.3	15	12.5	12
4R7M	4.7	26.5	11.5	9.5
5R6M	5.6	30	11	9
6R8M	6.8	36.8	9	8
8R2M	8.2	46	8.7	7
100M	10.0	59	8	6.5
150M	15.0	71	5.5	5.4
220M	22.0	113	5	4.8
330M	33.0	156	3.5	3.5
470M	47.0	225	3.1	2.9

HPB1030A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R22M	0.22	1.2	50	33
R33M	0.33	1.6	32	23
R36M	0.36	1.6	28	23
R47M	0.47	2.5	26	22
1R0M	1.0	6	21	15
2R2M	2.2	9	14	11
3R3M	3.3	16	12	9
4R7M	4.7	24	10	7
8R2M	8.2	45	7	5
330M	33	160	4	2.6

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB1040A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R15M	0.15	0.65	75	45
R22M	0.22	1	60	35
R47M	0.47	1.7	40	30
R68M	0.68	2.4	30	23
R80M	0.8	2.7	29	23
1R0M	1.0	3.3	28	19
2R2M	2.2	7	16.5	12
3R3M	3.3	11.8	16	11
4R7M	4.7	20	13	9
6R8M	6.8	25	12	8.5
8R2M	8.2	27	9	8
100M	10	30	8.5	7.8
150M	15	45	7	6.5
220M	22	66	5.5	5
330M	33	92	4.8	4.4
470M	47	145	3.5	3.3
680M	68	195	3	2.5
820M	82	285	2.8	2.3
101M	100	340	2.3	2

HPB1050A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
R22M	0.22	0.8	65	37
1R0M	1.0	3	30	23
2R2M	2.2	6	19	15
3R3M	3.3	10	16	13
4R7M	4.7	14	15	11
6R8M	6.8	18.5	14	9
100M	10	28	10	8
150M	15	42	7.5	6.5
220M	22	50	6	5.5
330M	33	86	5.2	4.8
470M	47	127	4.5	3.7
101M	100	290	2.8	2.1

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB1240A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
R22M	0.22	0.9	50.0	42.0
R47M	0.47	2.0	48.0	33.0
R68M	0.68	3.5	47.0	28.0
R82M	0.82	4.5	40.0	28.0
1R0M	1.0	7.5	35.0	24.0
1R5M	1.5	9.5	30.5	20.0
2R2M	2.2	11.5	26.0	18.0
3R3M	3.3	13.0	21.0	15.0
4R7M	4.7	14.5	18.0	13.0
6R8M	6.8	20.0	14.0	9.0
100M	10.0	25.0	10.0	8.0
150M	15.0	39.0	7.5	6.5
220M	22.0	51.0	6.0	4.5

HPB1250A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
R22M	0.22	0.7	75	50
R36M	0.36	0.85	50	42
R50M	0.50	1.15	48	38
R68M	0.68	1.55	46	33
R82M	0.82	1.67	39	30
1R0M	1.0	2.2	35	26
1R5M	1.5	3.2	33	23
2R2M	2.2	5.0	24	15
3R3M	3.3	7	22	14
4R7M	4.7	9	20	13
6R8M	6.8	18	16	12
8R2M	8.2	20	13	9.5
100M	10	22	12	9
150M	15	30	10	8
220M	22	58	6.5	4.5
330M	33	84	6.0	3.5
470M	47	130	5.0	3.0
680M	68	145	4.5	2.8

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB1260A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
4R7M	4.7	9	24	15
5R6M	5.6	11	22.5	13
6R8M	6.8	13.5	19	12
8R2M	8.2	16	13.5	11
100M	10	20.7	12.5	10
120M	12	23	10	9
150M	15	29	9	8.5
180M	18	35	8	7.5
220M	22	39.5	7.5	7
270M	27	56	6.5	6
330M	33	75	6	5.5
470M	47	90	5.5	5
680M	68	140	4.5	4
101M	100	200	3.5	3
121M	120	235	3.2	2
151M	150	350	2.7	1.5

HPB1265A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^\circ C$ Typ
4R7M	4.7	8.5	24	16
5R6M	5.6	10.5	22.5	14
6R8M	6.8	12	19	13
8R2M	8.2	14	16	12
100M	10	16.5	15	11
150M	15	26	11	9.5
220M	22	36	9	8
330M	33	65	8	6.5
470M	47	70	6.8	5.5
680M	68	120	5.2	4.8
820M	82	135	4.5	4
101M	100	170	4	3.5

SMD MOLDING POWER INDUCTORS 一体成型贴片功率电感

HPB-A 系列

HPB1270A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
1R5M	1.5	2.1	40	33
2R2M	2.2	2.5	34	29
3R3M	3.3	3.95	30	24
4R7M	4.7	4.75	24	21
6R8M	6.8	7.5	22	17
8R2M	8.2	8.7	20	13
100M	10	9.9	19	12
150M	15	17	14.5	11
220M	22	23	11.5	8.5
330M	33	37	10	8
470M	47	47	7.5	6
680M	68	85	6.5	5.2
101M	100	130	5	3.7

HPB2313A-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(mΩ) DC Resistance Max	Isat(A) Inductance decrease current @ $\Delta L \leq 30\%L(0A)$ Typ	Idc(A) Temperature rise current @ $\Delta T \leq 40^{\circ}C$ Typ
1R0M	1.0	0.95	60	70
1R5M	1.5	1.15	52	62
2R2M	2.2	1.25	48	58
3R3M	3.3	1.75	41	49
4R7M	4.7	2.2	38	47
6R8M	6.8	3.1	36	40
100M	10	4.15	28	33
150M	15	6.12	23	26
220M	22	11.0	15	22
330M	33	15.4	12	19
470M	47	20.8	12	17
680M	68	29.5	12	14
820M	82	34.2	9	12
101M	100	40	9	11