

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

HPB-T 系列

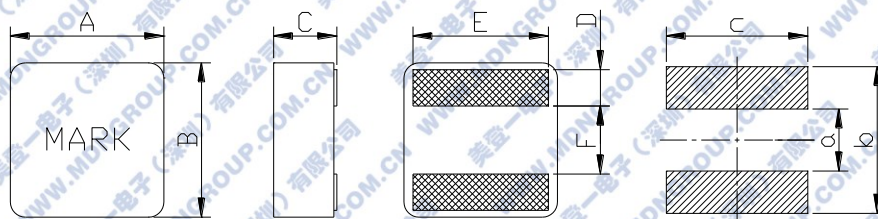
FEATURES

- Magnetically shielded and molded type inductor, possible to decrease noise.
- Alloy powder core, flat wire.
- Higher current than HPB-C/A series.
- 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，扁平线绕制；
- 比 HPB A 和 C 系列的电流更高；
- 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(Ref.)	E(Ref.)	F(Ref.)	a(Ref.)	b(Ref.)	C(Ref.)
HPB0420T-	4.1±0.3	4.1±0.3	2.1	0.88	3.4	1.7	1.4	3.4	3.8
HPB0430T-	4.1±0.3	4.1±0.3	3.0	0.88	3.4	1.7	1.4	3.4	3.8
HPB0520T-	5.5±0.4	5.3±0.4	2.1	1.10	4.3	2.3	2.0	4.5	4.7
HPB0530T-	5.5±0.4	5.3±0.4	3.1	1.10	4.3	2.3	2.0	4.5	4.7
HPB0550T-	5.5±0.4	5.3±0.4	5.0	1.10	4.3	2.3	2.0	4.5	4.7
HPB0630T-	6.6±0.5	6.4±0.5	3.1	1.40	5.0~5.5	2.6	2.5	5.6	5.6
HPB0650T-	6.6±0.5	6.4±0.5	5.0	1.40	5.3	2.6	2.5	5.6	5.6
HPB0660T-	6.6±0.5	6.4±0.5	6.0	1.40	5.3	2.6	2.5	5.6	5.6
HPB0720T-	7.8±0.5	7.6±0.5	2.1	1.75	6.2/ 6.6	3.15	2.8	7.4	7.2
HPB0730T-	7.8±0.5	7.6±0.5	3.1	1.75	6.2/ 6.6	3.15	2.8	7.4	7.2
HPB0770T-	7.8±0.5	7.6±0.5	7.0	1.75	6.5/ 6.7	3.15	2.8	7.4	7.2
HPB0880T-	8.9±0.5	8.5±0.5	8.0	1.80	6.9/7.2	3.50	3.0	8.0	7.8
HPB1030T-	11.9±0.5	11.0±0.5	3.1	2.40	9.0	4.40	3.7	10.5	11.0
HPB1060T-	11.9±0.5	11.0±0.5	6.0	2.40	9.0/9.5	4.40	3.7	10.5	11.0
HPB1010T-	11.9±0.5	11.0±0.5	10.0	2.40	9.0/9.3	4.40	3.7	10.5	11.0
HPB1580T-	16.5±0.5	15.5±0.5	8.0	3.20	13.2	7.00	6.0	15.0	15.0
HPB1510T-	16.5±0.5	15.5±0.5	10.0	3.20	13.2	7.00	6.0	15.0	15.0
HPB1513T-	16.5±0.5	15.5±0.5	13.0	3.20	13.2	7.00	6.0	15.0	15.0

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

HPB-T 系列

HPB0420T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) DC Re- sistance 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	2.42	38	18
R22M	0.22	4.6	19.5	16.8
R36M	0.36	6.3	17	14.5
R40M	0.4	7.73	15.5	14
R47M	0.47	8.58	14.5	12.5
R56M	0.56	9.3	14	12
R60M	0.6	9.52	13.7	11.7
R72M	0.72	11.6	12	10.5
1R0M	1.0	14.6	9.6	9.6
1R2M	1.2	17.9	9	9.0
1R5M	1.5	23.5	8	7.6
1R8M	1.8	28	7.5	7
2R2M	2.2	38.7	6.5	5.6

HPB0430T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) DC Re- sistance 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	7.26	17	14
R90M	0.90	10.1	10.0	11.2
1R0M	1.00	10.1	9.8	11.0
1R2M	1.20	11.5	9.2	9.8
1R5M	1.50	13.2	8.0	9.0
2R2M	2.20	22.6	7.0	7.8
3R3M	3.30	28.6	6.2	6.6
4R7M	4.7	44.1	4.5	5.1
6R8M	6.8	74.1	3.6	3.9

HPB0520T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) DC Re- sistance 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	4.60	30	18.8
R33M	0.33	7.00	26.0	14.4
R47M	0.47	8.05	22.0	14.1

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HPB0520T-SERIES

P/N	L(μ H) Inductance 100KHz/1.0V $\pm 20\%$	DCR($m\Omega$) 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
R56M	0.56	9.54	19.0	13.9
R68M	0.68	10.2	16.0	13.4
R82M	0.82	12.7	15.0	12.0
1R0M	1.0	13.8	14.5	10.5
1R2M	1.2	16.3	14.0	9.40
1R5M	1.5	18.7	13.3	8.80

HPB0530T-SERIES

P/N	L(μ H) Inductance 100KHz/1.0V $\pm 20\%$	DCR($m\Omega$) 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	2.31	36	22.2
R33M	0.33	3.52	28	19.2
R47M	0.47	4.13	26	18.4
R56M	0.56	4.52	22.2	17.7
R60M	0.6	4.52	22	17.7
R82M	0.82	5.78	19.7	12.9
1R0M	1.0	7.6	16.5	12.2
1R2M	1.2	9.7	15	11
1R5M	1.5	11.2	14	10.5
1R8M	1.8	12.7	12.3	10.1
2R2M	2.2	14.5	10	9.7
3R3M	3.3	23.1	9.5	8.1
4R7M	4.7	36.3	8.2	5.9

HPB0550T-SERIES

P/N	L(μ H) Inductance 100KHz/1.0V $\pm 20\%$	DCR($m\Omega$) 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
5R6M	5.6	24.2	8.6	7.2
6R8M	6.8	28.6	7.8	6.4
8R2M	8.2	32.5	7.2	6.1
100M	10	43	6.5	5
150M	15	76.7	3.7	3.9
220M	22	99.65	3.6	3.4

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HPB0630T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ± 20%	DCR(m Ω) 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
R18M	0.18	1.75	40.0	32.0
R33M	0.33	2.50	32.0	25.0
R56M	0.56	3.31	29.0	22.0
R68M	0.68	5.17	25.0	20.0
1R0M	1.0	6.05	23.0	18.0
1R2M	1.2	7.40	22.0	16.0
1R5M	1.5	9.13	20.0	15.0
1R8M	1.8	10.2	18.2	14.0
2R2M	2.2	12.2	15.9	10.0
3R3M	3.3	20.8	12.2	8.00
4R5M	4.5	25.3	10.0	7.00

HPB0650T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ± 20%	DCR(m Ω) 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
R82M	0.82	4.18	24.0	21.0
1R0M	1.0	4.52	23.0	20.0
1R2M	1.2	5.83	22.0	18.0
1R5M	1.5	6.3	19.5	17.0
1R8M	1.8	7.1	18.5	16.0
2R2M	2.2	8.5	16.0	13.0
3R3M	3.3	12.5	12.5	11.0
4R3M	4.3	16.2	11.0	9.0
4R7M	4.7	18.4	10.5	8.5

HPB0660T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ± 20%	DCR(m Ω) 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	4.4	24.0	21.0
1R5M	1.5	6.1	20.0	17.5
2R2M	2.2	8.1	16.5	14.0
3R3M	3.3	12.3	13.0	12.0
4R7M	4.7	14.4	10.5	11.0

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HPB0660T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ± 20%	DCR(m Ω) 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	4.4	24.0	21.0
1R5M	1.5	6.1	20.0	17.5
2R2M	2.2	8.1	16.5	14.0
3R3M	3.3	12.3	13.0	12.0
4R7M	4.7	14.4	10.5	11.0
5R6M	5.6	15.9	9.9	10.0
6R8M	6.8	20.8	9.2	9.0
8R2M	8.2	26.4	8.4	8
100M	10	29.82	7.6	7
150M	15	43.75	5.8	6
220M	22	60.63	5.6	5

HPB0720T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ± 20%	DCR(m Ω) 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
R27M	0.27	3.5	35	21
R33M	0.33	4.8	34	19
R47M	0.47	6.2	28	17
R68M	0.68	9.2	25	13
1R0M	1.00	10.8	23	11

HPB0730T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ± 20%	DCR(m Ω) 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	1.00	5.00	30.0	21.8
1R5M	1.50	8.25	25.0	15.3
2R2M	2.20	13.7	19.0	13.0
2R7M	2.70	15.4	16.0	11.4
3R3M	3.30	18.0	15.0	10.0
4R7M	4.70	26.7	13.5	9.00
5R6M	5.60	33.2	12.5	7.30
6R8M	6.80	42.5	12.0	6.80
8R2M	8.20	48.73	10.2	5.90

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HPB0770T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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	2.81	34.8	25
1R8M	1.8	4.46	25	21
3R3M	3.30	9.42	19.4	15.1
4R7M	4.70	13.5	15.5	13.6
6R8M	6.80	19.60	12.8	9.5

HPB0880T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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
1R8M	1.80	4.0	28.0	24.0
2R2M	2.20	4.3	25.0	21.5
3R3M	3.30	7.3	23.0	18.0
4R7M	4.70	9.8	19.0	14.6
6R8M	6.80	14.3	14.5	11.3
100M	10.0	22.9	11.0	8.7

HPB1030T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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
R28M	0.28	1.60	65.0	35.0
R56M	0.56	2.75	44.0	32.0
R82M	0.82	4.10	38.0	25.0
R90M	0.90	4.20	36.0	24.0
1R0M	1.00	4.95	35.0	23.0
1R5M	1.50	6.60	30.0	18.0

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HPB1060T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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	1.50	55.0	34.0
1R0M	1.00	2.32	48.0	28.5
1R2M	1.20	2.64	45.0	26.5
1R5M	1.50	3.30	40.0	24.5
2R2M	2.20	4.84	35.0	20.0
3R3M	3.30	7.70	28.0	16.8
4R7M	4.70	10.72	25.0	14.0

HPB1010T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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	2.20	2.8	34.0	32.0
3R3M	3.30	4.1	27.4	25.0
4R7M	4.70	5.7	25.4	24.0
5R6M	5.60	7.2	23.6	21.2
6R8M	6.80	8.9	21.8	18.5
8R2M	8.20	12.4	18.3	17.1
100M	10.0	13.75	17.5	15.5
150M	15.0	19.30	15.5	13.8

HPB1580T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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
2R0M	2.00	2.21	57.0	40.0
2R2M	2.20	2.48	55.0	37.0
3R0M	3.00	3.00	46.0	34.5
4R2M	4.20	4.68	38.0	27.0
5R3M	5.30	5.34	35.0	26.0
6R2M	6.20	6.50	34.0	23.0
7R2M	7.20	7.20	32.0	21.0
8R2M	8.20	7.92	28.0	19.0

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HPB1580T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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
100M	10	9.6	24.0	16.0
150M	15	15	21.0	13.0
220M	22	23.2	19.0	12.0

HPB1510T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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	3.8	43	30.0
5R6M	5.6	4.2	38	28.0
6R8M	6.8	4.6	36.0	26.0
8R2M	8.2	7.2	32.0	25.0
100M	10	8.6	29	24
150M	15	11.5	20	18
220M	22	15.8	18	14.2
330M	33	20	16.7	12.3

HPB1513T-SERIES

P/N	L(uH) Inductance 100KHz/1.0V ±20%	DCR(m Ω) 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	3.3	44.0	31.0
5R6M	5.6	3.9	40.0	29.0
6R8M	6.8	4.2	37.0	27.0
8R2M	8.2	5.74	33.0	26.0
100M	10	7.0	30.0	25.0
150M	15	7.5	25.5	22.0
220M	22	13.86	22.0	17.0
330M	33	22.2	19.0	14.0