



閉磁式功率電感

Type:

RH124BA/RH125BA/RH127BA/RH129BA Series

Inductance Range: 1.2μH ~ 1000μH

SMT Shielded Power Inductors

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RH124BA	Inductance Range	3.9μH ~ 330μH
RH125BA	Inductance Range	1.3μH ~ 1000μH
RH127BA	Inductance Range	1.2μH ~ 1000μH
RH129BA	Inductance Range	1.5μH ~ 1000μH

Feature

- ◆ Magnetically shielded construction (閉磁路構造設計)
- ◆ Compact and thin (輕便薄小)
- ◆ Large Current and Low DCR (大電流低直流阻抗)

Applications

- ◆ DC-DC converter of portable equipment. (攜帶機器之直流轉換器)
- ◆ Camcorder, LCD television set, Digital camera, P.D.A., Notebook. (攝影機、液晶電視、數位相機、P.D.A.、筆記型電腦)

Figure



Ordering

Product Identification of Part Number

Type: Ex. RH124BA-3R9N

* See Product Part of Number

Tolerance: K ±10%; L ±15%; M ±20%; N ±30%

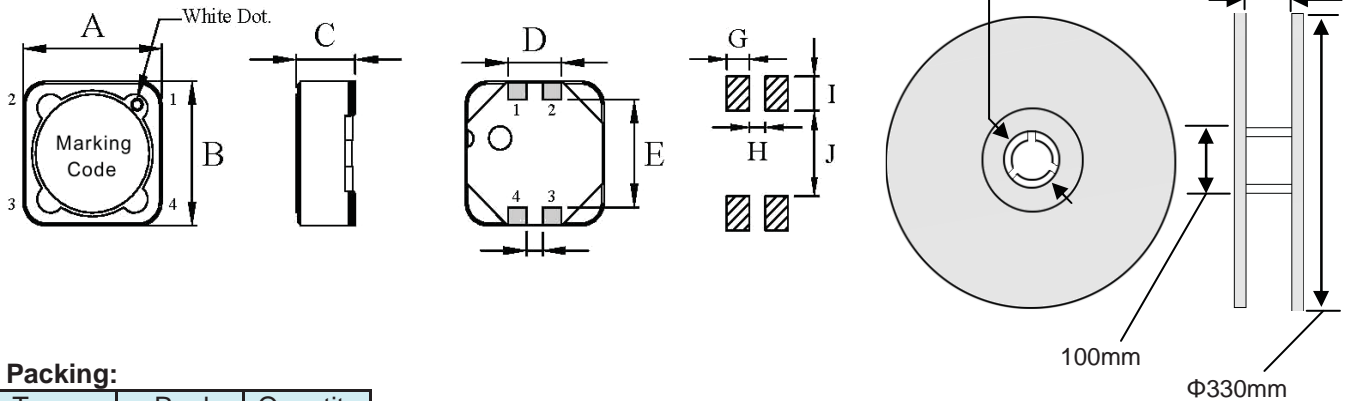
Configurations & Dimension

Unit:mm

TYPE	A (max)	B (max)	C (max)	D (max)	E	F	G	H	I	J
RH124BA	12.2	12.2	4.7	5.0±0.2	7.6±0.2	1.6±0.2	2.0	1.4	2.9	7.2
RH125BA	12.2	12.2	6.2	5.0±0.2	7.6±0.2	1.6±0.2	2.0	1.4	2.9	7.2
RH127BA	12.2	12.2	8.0	5.0±0.2	7.6±0.2	1.6±0.2	2.0	1.4	2.9	7.2
RH129BA	12.2	12.2	10.0	5.0±0.2	7.6±0.2	1.6±0.2	2.0	1.4	2.9	7.2

*Design as Customers Requested Specifications (可依特殊需求設計生產)

Reel Type Dimension



Packing:

Type	Reel	Quantity
RH124BA	Φ330mm	500 pcs
RH125BA	Φ330mm	500 pcs
RH127BA	Φ330mm	500 pcs
RH129BA	Φ330mm	500 pcs



*美隆公司產品規格及其特性參數的改變或更新恕不另行通知。

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□ Electrical Characteristics for RH124BA Series

產品規格型號 Ordering Part Number	電感值(L) Inductance (μH)	測試頻率 Test Freq. (KHz)	直流阻抗 DCR (Ω) (max)	定格電流 IDC (A) (max)	字碼 Marking Code
RH124BA-3R9N	3.9	100	0.015	6.50	3R9
RH124BA-4R7N	4.7	100	0.018	5.70	4R7
RH124BA-6R8N	6.8	100	0.023	4.90	6R8
RH124BA-8R2N	8.2	100	0.026	4.60	8R2
RH124BA-100M	10.0	100	0.028	4.50	100
RH124BA-120M	12.0	100	0.038	4.00	120
RH124BA-150M	15.0	100	0.050	3.20	150
RH124BA-180M	18.0	100	0.057	3.10	180
RH124BA-220M	22.0	100	0.066	2.90	220
RH124BA-270M	27.0	100	0.080	2.80	270
RH124BA-330M	33.0	100	0.097	2.70	330
RH124BA-390M	39.0	100	0.132	2.10	390
RH124BA-470M	47.0	100	0.160	1.90	470
RH124BA-560M	56.0	100	0.190	1.80	560
RH124BA-680M	68.0	100	0.220	1.50	680
RH124BA-820M	82.0	100	0.260	1.30	820
RH124BA-101M	100.0	100	0.308	1.20	101
RH124BA-121M	120.0	100	0.380	1.10	121
RH124BA-151M	150.0	100	0.530	0.95	151
RH124BA-181M	180.0	100	0.620	0.85	181
RH124BA-221M	220.0	100	0.700	0.80	221
RH124BA-271M	270.0	100	0.870	0.60	271
RH124BA-331M	330.0	100	0.990	0.50	331

※ Test Frequency: 100KHz / 0.1V

※ Operating Temperature: -40°C ~ +85°C

※ Inductance drop = 25% typ at IDC



□ Electrical Characteristics for RH125B Series

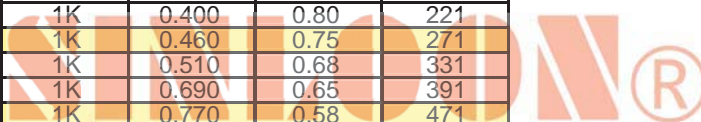
產品規格型號 Ordering Part Number	電感值(L) Inductance (μH)	測試頻率 Test Freq. (Hz)	直流阻抗 DCR (Ω) (max)	定格電流 IDC (A) (max)	字碼 Marking Code
RH125BA-1R3N	1.3	7.96M	0.012	8.00	1R3
RH125BA-2R1N	2.1	7.96M	0.014	7.00	2R1
RH125BA-3R1N	3.1	7.96M	0.017	6.00	3R1
RH125BA-4R4N	4.4	7.96M	0.020	5.00	4R4
RH125BA-5R8N	5.8	7.96M	0.021	4.40	5R8
RH125BA-7R5N	7.5	7.96M	0.024	4.20	7R5
RH125BA-100M	10.0	1K	0.025	4.00	100
RH125BA-120M	12.0	1K	0.027	3.50	120
RH125BA-150M	15.0	1K	0.030	3.30	150
RH125BA-180M	18.0	1K	0.034	3.00	180
RH125BA-220M	22.0	1K	0.036	2.80	220
RH125BA-270M	27.0	1K	0.051	2.30	270
RH125BA-330M	33.0	1K	0.057	2.10	330
RH125BA-390M	39.0	1K	0.068	2.00	390
RH125BA-470M	47.0	1K	0.075	1.80	470
RH125BA-560M	56.0	1K	0.110	1.70	560
RH125BA-680M	68.0	1K	0.120	1.50	680
RH125BA-820M	82.0	1K	0.140	1.40	820
RH125BA-101M	100.0	1K	0.160	1.30	101
RH125BA-121M	120.0	1K	0.170	1.10	121
RH125BA-151M	150.0	1K	0.230	1.00	151
RH125BA-181M	180.0	1K	0.290	0.90	181
RH125BA-221M	220.0	1K	0.400	0.80	221
RH125BA-271M	270.0	1K	0.460	0.75	271
RH125BA-331M	330.0	1K	0.510	0.68	331
RH125BA-391M	390.0	1K	0.690	0.65	391
RH125BA-471M	470.0	1K	0.770	0.58	471
RH125BA-561M	560.0	1K	0.860	0.54	561
RH125BA-681M	680.0	1K	1.200	0.48	681
RH125BA-821M	820.0	1K	1.340	0.43	821
RH125BA-102M	1000.0	1K	1.530	4.00	102

※ Test Frequency: 1KHz / 0.25V

※ Operating Temperature: -40°C ~ +85°C

※ Inductance drop : 10% typ at IDC

※ Design as Customers Requested Specifications (可依特殊需求設計生產)



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□ Electrical Characteristics for RH127BA Series

產品規格型號 Ordering Part Number	電感值(L) Inductance (μH)	測試頻率 Test Freq. (KHz)	直流阻抗 DCR (Ω) (max)	定格電流 IDC (A) (max)	字碼 Marking Code
RH127BA-1R2N	1.2	100	0.0070	9.80	1R2
RH127BA-2R4N	2.1	100	0.0115	8.00	2R1
RH127BA-3R5N	3.5	100	0.0135	7.50	3R5
RH127BA-4R7N	4.7	100	0.0158	6.80	4R7
RH127BA-6R1N	6.1	100	0.0176	6.60	6R1
RH127BA-7R6N	7.6	100	0.0200	5.90	7R6
RH127BA-100M	10.0	1K	0.0216	5.40	100
RH127BA-120M	12.0	1K	0.0243	4.90	120
RH127BA-150M	15.0	1K	0.0270	4.50	150
RH127BA-180M	18.0	1K	0.0392	3.90	180
RH127BA-220M	22.0	1K	0.0432	3.60	220
RH127BA-270M	27.0	1K	0.0459	3.40	270
RH127BA-330M	33.0	1K	0.0648	3.00	330
RH127BA-390M	39.0	1K	0.0729	2.75	390
RH127BA-470M	47.0	1K	0.1000	2.50	470
RH127BA-560M	56.0	1K	0.1100	2.35	560
RH127BA-680M	68.0	1K	0.1400	2.10	680
RH127BA-820M	82.0	1K	0.1600	1.95	820
RH127BA-101M	100.0	1K	0.2200	1.70	101
RH127BA-121M	120.0	1K	0.2500	1.60	121
RH127BA-151M	150.0	1K	0.2800	1.42	151
RH127BA-181M	180.0	1K	0.3500	1.30	181
RH127BA-221M	220.0	1K	0.3900	1.16	221
RH127BA-271M	270.0	1K	0.5600	1.06	271
RH127BA-331M	330.0	1K	0.6400	0.95	331
RH127BA-391M	390.0	1K	0.7000	0.88	391
RH127BA-471M	470.0	1K	0.9800	0.79	471
RH127BA-561M	560.0	1K	10.7000	0.73	561
RH127BA-681M	680.0	1K	1.1600	0.67	681
RH127BA-821M	820.0	1K	1.6400	0.60	821
RH127BA-102M	1000.0	1K	1.8200	0.55	102



- ※ 1R2~7R2 Test Frequency: 100KHz / 0.1V ; 100~102 Test Frequency: 1KHz / 0.25V
- ※ Operating Temperature: -40°C ~ +85°C
- ※ Inductance drop = 10% typ at IDC
- ※ Design as Customers Requested Specifications (可依特殊需求設計生產)

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□ Electrical Characteristics for RH129BA Series

產品規格型號 Ordering Part Number	電感值(L) Inductance (μH)	測試頻率 Test Freq. (Hz)	直流阻抗 DCR (Ω) (max)	定格電流 Isat (A) (max)	溫昇電流 I _{RMS} (A) (max)	字碼 Marking Code
RH129BA-1R5N	1.5	100K	0.0047	16.00	14.00	1R5
RH129BA-2R4N	2.4	100K	0.0057	15.00	12.00	2R4
RH129BA-3R3N	3.3	100K	0.0086	14.00	11.00	3R3
RH129BA-5R0N	5.0	100K	0.0105	11.00	10.00	5R0
RH129BA-6R8N	6.8	100K	0.0132	10.00	9.00	6R8
RH129BA-8R2N	8.2	100K	0.0153	8.20	8.20	8R2
RH129BA-100M	10.0	1K	0.0180	7.50	7.50	100
RH129BA-120M	12.0	1K	0.0197	7.00	7.00	120
RH129BA-150M	15.0	1K	0.0242	6.00	6.00	150
RH129BA-180M	18.0	1K	0.0311	5.50	5.50	180
RH129BA-220M	22.0	1K	0.0390	5.00	5.00	220
RH129BA-270M	27.0	1K	0.0450	4.50	4.50	270
RH129BA-330M	33.0	1K	0.0500	4.00	4.00	330
RH129BA-390M	39.0	1K	0.0592	3.80	3.80	390
RH129BA-470M	47.0	1K	0.0689	3.50	3.50	470
RH129BA-560M	56.0	1K	0.0790	3.20	3.20	560
RH129BA-680M	68.0	1K	0.0878	3.00	3.00	680
RH129BA-820M	82.0	1K	0.1100	2.60	2.60	820
RH129BA-101M	100.0	1K	0.1400	2.20	2.20	101
RH129BA-121M	120.0	1K	0.1600	2.00	2.00	121
RH129BA-151M	150.0	1K	0.2000	1.80	1.80	151
RH129BA-181M	180.0	1K	0.2700	1.60	1.60	181
RH129BA-221M	220.0	1K	0.3000	1.50	1.50	221
RH129BA-271M	270.0	1K	0.4000	1.30	1.30	271
RH129BA-331M	330.0	1K	0.4500	1.20	1.20	331
RH129BA-391M	390.0	1K	0.5500	1.10	1.10	391
RH129BA-471M	470.0	1K	0.6000	1.00	1.00	471
RH129BA-561M	560.0	1K	0.7000	0.90	0.90	561
RH129BA-681M	680.0	1K	0.8400	0.82	0.82	681
RH129BA-821M	820.0	1K	1.0600	0.80	0.80	821
RH129BA-102M	1000.0	1K	1.2700	0.76	0.76	102



- ※ 1R5~8R2 Test Frequency: 100KHz / 0.1V; 100~102 Test Frequency: 1KHz / 0.25V
- ※ Operating Temperature: -40°C ~ +85°C
- ※ Inductance drop : 10% typ at Isat.
- ※ ΔT = 40°C rise I_{RMS}
- ※ Design as Customers Requested Specifications (可依特殊需求設計生產)

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