

**SINLOON®**

閉磁式功率電感

Type: RH124A/RH125A/RH127A/RH129A Series

Inductance Range: 1.2μH ~ 1000μH

SMT Shielded Power Inductors

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RH124A	Inductance Range	3.9μH ~ 330μH
RH125A	Inductance Range	1.3μH ~ 1000μH
RH127A	Inductance Range	1.2μH ~ 1000μH
RH129A	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. RH124A-3R9N

\* See Product Part of Number

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

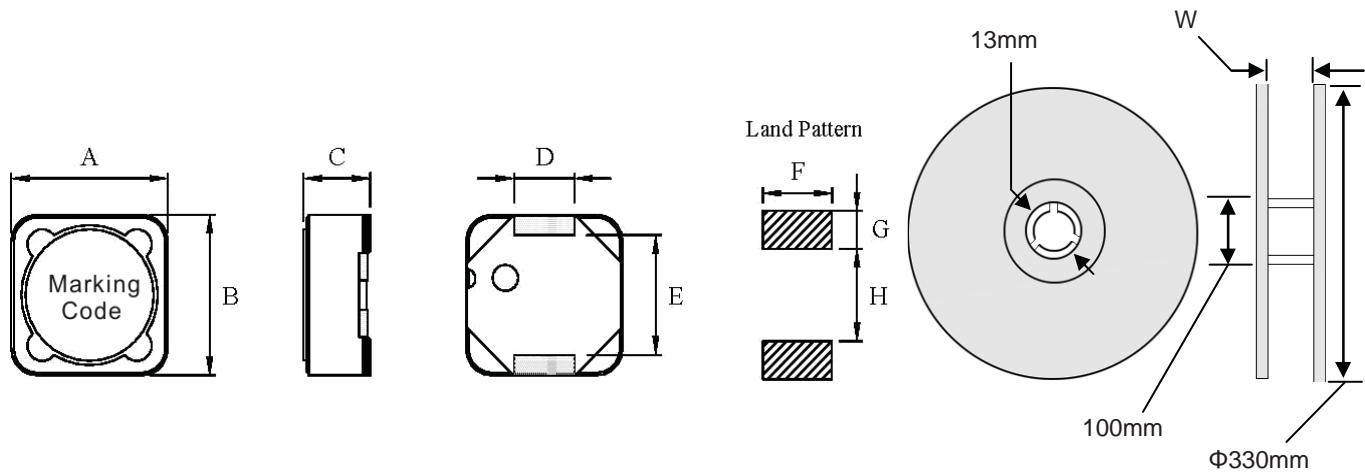
□ Configurations & Dimension

Unit:mm

TYPE	A (max)	B (max)	C (max)	D (max)	E	F	G	H	W	Reel Tape Φ330mm
RH124A	12.3	12.3	4.5	5.0±0.2	7.6±0.2	5.4	2.8	7.0	24.5	500pcs
RH125A	12.3	12.3	6.0	5.0±0.2	7.6±0.2	5.4	2.8	7.0	24.5	500pcs
RH127A	12.3	12.3	8.0	5.0±0.2	7.6±0.2	5.4	2.9	7.0	24.5	500pcs
RH129A	12.3	12.3	10.0	5.0±0.2	7.6±0.2	5.4	2.9	7.0	24.5	300pcs

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

□ Reel Type Dimension



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□ Electrical Characteristics for RH124A 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
RH124A-3R9N	3.9	100	0.015	6.50	3R9
RH124A-4R7N	4.7	100	0.018	5.70	4R7
RH124-6R8N	6.8	100	0.023	4.90	6R8
RH124A-8R2N	8.2	100	0.026	4.60	8R2
RH124A-100M	10.0	100	0.028	4.50	100
RH124A-120M	12.0	100	0.038	4.00	120
RH124A-150M	15.0	100	0.050	3.20	150
RH124A-180M	18.0	100	0.057	3.10	180
RH124A-220M	22.0	100	0.066	2.90	220
RH124A-270M	27.0	100	0.080	2.80	270
RH124A-330M	33.0	100	0.097	2.70	330
RH124A-390M	39.0	100	0.132	2.10	390
RH124A-470M	47.0	100	0.160	1.90	470
RH124A-560M	56.0	100	0.190	1.80	560
RH124A-680M	68.0	100	0.220	1.50	680
RH124A-820M	82.0	100	0.260	1.30	820
RH124A-101M	100.0	100	0.308	1.20	101
RH124A-121M	120.0	100	0.380	1.10	121
RH124A-151M	150.0	100	0.530	0.95	151
RH124A-181M	180.0	100	0.620	0.85	181
RH124A-221M	220.0	100	0.700	0.80	221
RH124A-271M	270.0	100	0.870	0.60	271
RH124A-331M	330.0	100	0.990	0.50	331

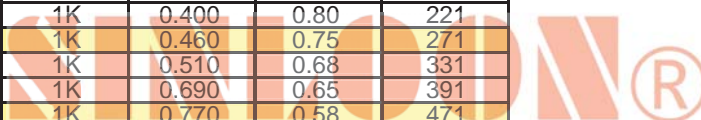
- ※ Test Frequency: 100KHz / 0.1V
- ※ Operating Temperature: -40°C ~ +85°C
- ※ Inductance drop = 25% typ at IDC



□ Electrical Characteristics for RH125A 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
RH125A-1R3N	1.3	7.96M	0.012	8.00	1R3
RH125A-2R1N	2.1	7.96M	0.014	7.00	2R1
RH125A-3R1N	3.1	7.96M	0.017	6.00	3R1
RH125A-4R4N	4.4	7.96M	0.020	5.00	4R4
RH125A-5R8N	5.8	7.96M	0.021	4.40	5R8
RH125A-7R5N	7.5	7.96M	0.024	4.20	7R5
RH125A-100M	10.0	1K	0.025	4.00	100
RH125A-120M	12.0	1K	0.027	3.50	120
RH125A-150M	15.0	1K	0.030	3.30	150
RH125A-180M	18.0	1K	0.034	3.00	180
RH125A-220M	22.0	1K	0.036	2.80	220
RH125A-270M	27.0	1K	0.051	2.30	270
RH125A-330M	33.0	1K	0.057	2.10	330
RH125A-390M	39.0	1K	0.068	2.00	390
RH125A-470M	47.0	1K	0.075	1.80	470
RH125A-560M	56.0	1K	0.110	1.70	560
RH125A-680M	68.0	1K	0.120	1.50	680
RH125A-820M	82.0	1K	0.140	1.40	820
RH125A-101M	100.0	1K	0.160	1.30	101
RH125A-121M	120.0	1K	0.170	1.10	121
RH125A-151M	150.0	1K	0.230	1.00	151
RH125A-181M	180.0	1K	0.290	0.90	181
RH125A-221M	220.0	1K	0.400	0.80	221
RH125A-271M	270.0	1K	0.460	0.75	271
RH125A-331M	330.0	1K	0.510	0.68	331
RH125A-391M	390.0	1K	0.690	0.65	391
RH125A-471M	470.0	1K	0.770	0.58	471
RH125A-561M	560.0	1K	0.860	0.54	561
RH125A-681M	680.0	1K	1.200	0.48	681
RH125A-821M	820.0	1K	1.340	0.43	821
RH125A-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 RH127A 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
RH127A-1R2N	1.2	100	0.0070	9.80	1R2
RH127A-2R4N	2.1	100	0.0115	8.00	2R1
RH127A-3R5N	3.5	100	0.0135	7.50	3R5
RH127A-4R7N	4.7	100	0.0158	6.80	4R7
RH127A-6R1N	6.1	100	0.0176	6.60	6R1
RH127A-7R6N	7.6	100	0.0200	5.90	7R6
RH127A-100M	10.0	1K	0.0216	5.40	100
RH127A-120M	12.0	1K	0.0243	4.90	120
RH127A-150M	15.0	1K	0.0270	4.50	150
RH127A-180M	18.0	1K	0.0392	3.90	180
RH127A-220M	22.0	1K	0.0432	3.60	220
RH127A-270M	27.0	1K	0.0459	3.40	270
RH127A-330M	33.0	1K	0.0648	3.00	330
RH127A-390M	39.0	1K	0.0729	2.75	390
RH127A-470M	47.0	1K	0.1000	2.50	470
RH127A-560M	56.0	1K	0.1100	2.35	560
RH127A-680M	68.0	1K	0.1400	2.10	680
RH127A-820M	82.0	1K	0.1600	1.95	820
RH127A-101M	100.0	1K	0.2200	1.70	101
RH127A-121M	120.0	1K	0.2500	1.60	121
RH127A-151M	150.0	1K	0.2800	1.42	151
RH127A-181M	180.0	1K	0.3500	1.30	181
RH127A-221M	220.0	1K	0.3900	1.16	221
RH127A-271M	270.0	1K	0.5600	1.06	271
RH127A-331M	330.0	1K	0.6400	0.95	331
RH127A-391M	390.0	1K	0.7000	0.88	391
RH127A-471M	470.0	1K	0.9800	0.79	471
RH127A-561M	560.0	1K	10.7000	0.73	561
RH127A-681M	680.0	1K	1.1600	0.67	681
RH127A-821M	820.0	1K	1.6400	0.60	821
RH127A-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 RH129A 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 <sub>RMS</sub> (A) (max)	字碼 Marking Code
RH129A-1R5N	1.5	100K	0.0047	16.00	14.00	1R5
RH129A-2R4N	2.4	100K	0.0057	15.00	12.00	2R4
RH129A-3R3N	3.3	100K	0.0086	14.00	11.00	3R3
RH129A-5R0N	5.0	100K	0.0105	11.00	10.00	5R0
RH129A-6R8N	6.8	100K	0.0132	10.00	9.00	6R8
RH129A-8R2N	8.2	100K	0.0153	8.20	8.20	8R2
RH129A-100M	10.0	1K	0.0180	7.50	7.50	100
RH129A-120M	12.0	1K	0.0197	7.00	7.00	120
RH129A-150M	15.0	1K	0.0242	6.00	6.00	150
RH129A-180M	18.0	1K	0.0311	5.50	5.50	180
RH129A-220M	22.0	1K	0.0390	5.00	5.00	220
RH129A-270M	27.0	1K	0.0450	4.50	4.50	270
RH129A-330M	33.0	1K	0.0500	4.00	4.00	330
RH129A-390M	39.0	1K	0.0592	3.80	3.80	390
RH129A-470M	47.0	1K	0.0689	3.50	3.50	470
RH129A-560M	56.0	1K	0.0790	3.20	3.20	560
RH129A-680M	68.0	1K	0.0878	3.00	3.00	680
RH129A-820M	82.0	1K	0.1100	2.60	2.60	820
RH129A-101M	100.0	1K	0.1400	2.20	2.20	101
RH129A-121M	120.0	1K	0.1600	2.00	2.00	121
RH129A-151M	150.0	1K	0.2000	1.80	1.80	151
RH129A-181M	180.0	1K	0.2700	1.60	1.60	181
RH129A-221M	220.0	1K	0.3000	1.50	1.50	221
RH129A-271M	270.0	1K	0.4000	1.30	1.30	271
RH129A-331M	330.0	1K	0.4500	1.20	1.20	331
RH129A-391M	390.0	1K	0.5500	1.10	1.10	391
RH129A-471M	470.0	1K	0.6000	1.00	1.00	471
RH129A-561M	560.0	1K	0.7000	0.90	0.90	561
RH129A-681M	680.0	1K	0.8400	0.82	0.82	681
RH129A-821M	820.0	1K	1.0600	0.80	0.80	821
RH129A-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<sub>RMS</sub>

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

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