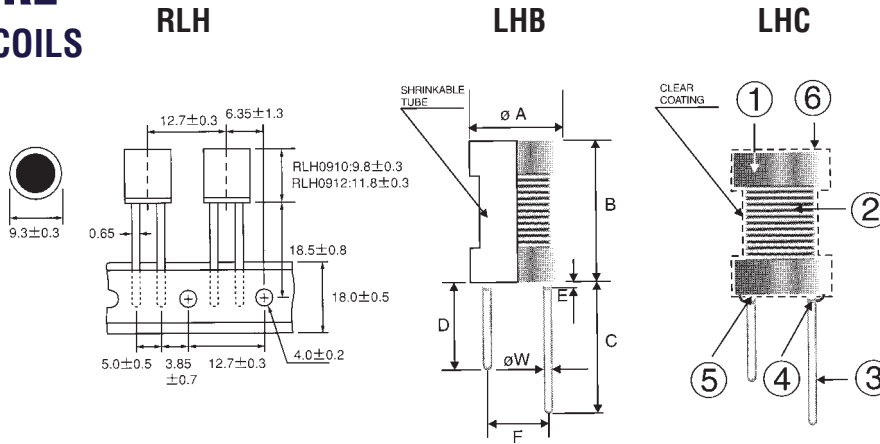
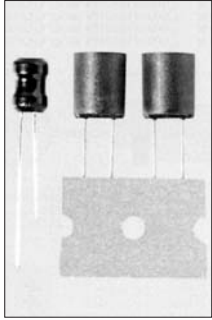


**FERRITE CORE  
RADIAL CHOKE COILS  
LH • RLH**



**STRUCTURE**

- 1 Ferrite bobbin core
- 2 Winding wire
- 3 Lead wire
- 4 Adhesive
- 5 Solder joint
- 6 Coating

Products with Pb-free terminations meet RoHS requirements

**TYPE DESIGNATION (HOW TO ORDER)**

Old Part No.	<b>LHB</b>	<b>0608</b>		<b>M</b>	<b>BA</b> *	<b>1R0</b>	
New Part No. (Pb-free)	<b>LHB</b>	<b>0608</b>	<b>T</b>			<b>1R0</b>	<b>M</b>
	PRODUCT CODE LHB, RLH	STYLE mm (diameter/height)	TERMINATION SURFACE MATERIAL T: Sn L: Sn/Pb	INDUCTANCE TOLERANCE M(±20%) K(±10%)	PACKAGING Blank: Bulk  *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits Unit: µH	INDUCTANCE TOLERANCE M(±20%) K(±10%)

**FEATURES**

- The below mentioned characteristic values are representative examples and can be changed in accordance with the customers requirements
- Choke coils for general power supplies
- Clear (LHC) or shrinkable tube (LHB) coating is available
- The RLH-type is the automatic insertion inductor
- Covers a wide range of allowable DC current (up to 5.4 A)
- Measuring frequency: 1 kHz
- Operating temperature range: -25°C ... +80°C

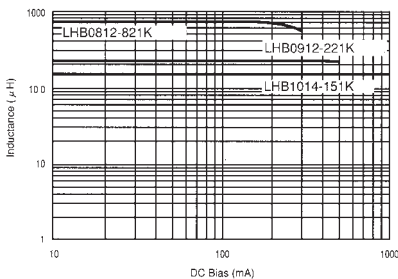
**DIMENSIONS (mm)**

TYPE	ø A Max.	B Max.	C Min.	D Min.	E Max.	F(±1)	ø W (nominal)
LHB 0608	6.0	8.5				2.0	0.50
LHB 0712	7.5					3.0	
LHB 0812	8.0	12.0	15	10	3.0	5.0	0.65
LHB 0912	9.5					7.0	0.80
LHB 0914	10.0	14.0				10.0: L ≤ 47µH	0.6: 33µH ≤ L ≤ 47µH 0.7: 6.8µH ≤ L ≤ 22µH 0.8: L ≤ 4.7µH, L ≥ 68µH
LHB 1014	12.0	16.0					
LHB 1216	12.0	16.0	15 ± 5	-	-		
LHB 1314	13.0	14.0					

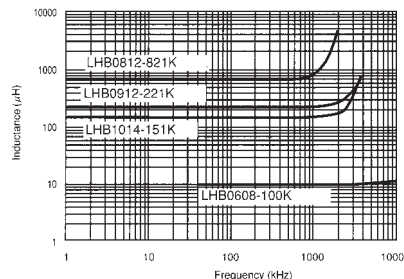
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**CHARACTERISTICS**

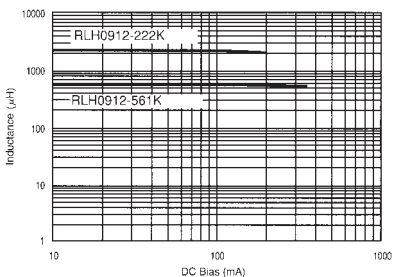
**LHB • DC BIAS**



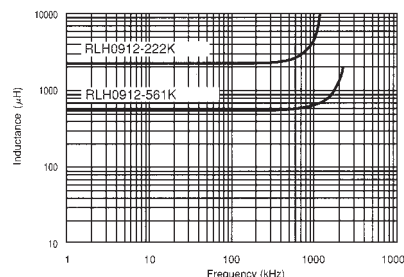
**LHB • L vs. FREQUENCY**



**RLH • DC BIAS**



**RLH • L vs. FREQUENCY**



## FERRITE CORE, RADIAL CHOKE COILS, LHB • RLH

### RATING

LHB 0608			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
1R0	1 µH	0.1 Ω	1.03 A
1R2	1.2 µH	0.15 Ω	0.98 A
1R5	1.5 µH	0.2 Ω	0.92 A
1R8	1.8 µH	0.22 Ω	0.88 A
2R2	2.2 µH	0.24 Ω	0.83 A
2R7	2.7 µH	0.27 Ω	0.79 A
3R3	3.3 µH	0.3 Ω	0.75 A
3R9	3.9 µH	0.35 Ω	0.72 A
4R7	4.7 µH	0.4 Ω	0.67 A
5R6	5.6 µH	0.45 Ω	0.64 A
6R8	6.8 µH	0.5 Ω	0.6 A
8R2	8.2 µH	0.55 Ω	0.57 A
100	10 µH	0.6 Ω	0.54 A
120	12 µH	0.65 Ω	0.52 A
150	15 µH	0.7 Ω	0.5 A
180	18 µH	0.75 Ω	0.48 A
220	22 µH	0.8 Ω	0.46 A
270	27 µH	0.85 Ω	0.44 A
330	33 µH	0.9 Ω	0.42 A
390	39 µH	1.0 Ω	0.4 A
470	47 µH	1.1 Ω	0.38 A
560	56 µH	1.2 Ω	0.36 A
680	68 µH	1.3 Ω	0.34 A
820	82 µH	1.4 Ω	0.32 A
101	100 µH	1.5 Ω	0.3 A
121	120 µH	1.6 Ω	0.29 A
151	150 µH	1.7 Ω	0.27 A
181	180 µH	1.8 Ω	0.26 A
221	220 µH	1.9 Ω	0.25 A
271	270 µH	2.0 Ω	0.24 A
331	330 µH	2.1 Ω	0.23 A
391	390 µH	2.2 Ω	0.22 A
471	470 µH	2.3 Ω	0.21 A
561	560 µH	2.4 Ω	0.2 A
681	680 µH	2.5 Ω	0.19 A
821	820 µH	2.6 Ω	0.18 A
102	1000 µH	2.7 Ω	0.17 A

LHB 0812			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
470	47 µH	0.4 Ω	0.45 A
560	56 µH	0.45 Ω	0.4 A
680	68 µH	0.5 Ω	0.36 A
820	82 µH	0.55 Ω	0.34 A
101	100 µH	0.6 Ω	0.32 A
121	120 µH	0.7 Ω	0.3 A
151	150 µH	0.75 Ω	0.28 A
181	180 µH	0.8 Ω	0.26 A
221	220 µH	0.85 Ω	0.24 A
271	270 µH	0.9 Ω	0.22 A
331	330 µH	0.95 Ω	0.2 A
391	390 µH	1.0 Ω	0.18 A
471	470 µH	1.1 Ω	0.16 A
561	560 µH	1.2 Ω	0.15 A
681	680 µH	1.3 Ω	0.14 A
821	820 µH	1.4 Ω	0.13 A
102	1000 µH	1.5 Ω	0.12 A
122	1200 µH	1.6 Ω	0.11 A
152	1500 µH	1.7 Ω	0.1 A
182	1800 µH	1.8 Ω	0.09 A
222	2200 µH	1.9 Ω	0.08 A
272	2700 µH	2.0 Ω	0.07 A
332	3300 µH	2.1 Ω	0.06 A
392	3900 µH	2.2 Ω	0.055 A
472	4700 µH	2.3 Ω	0.05 A
562	5600 µH	2.4 Ω	0.045 A
682	6800 µH	2.5 Ω	0.04 A
822	8200 µH	2.6 Ω	0.036 A
103	10000 µH	2.7 Ω	0.034 A
123	12000 µH	2.8 Ω	0.032 A
153	15000 µH	2.9 Ω	0.03 A
183	18000 µH	3.0 Ω	0.027 A
223	22000 µH	3.1 Ω	0.025 A
273	27000 µH	3.2 Ω	0.022 A
333	33000 µH	3.3 Ω	0.02 A
393	39000 µH	3.4 Ω	0.018 A
473	47000 µH	3.5 Ω	0.016 A

LHB 0914			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
3R3	3.3 µH	0.027 Ω	3.6 A
4R7	4.7 µH	0.033 Ω	3.2 A
6R8	6.8 µH	0.039 Ω	3 A
100	10 µH	0.048 Ω	2.7 A
120	12 µH	0.055 Ω	2.5 A
150	15 µH	0.06 Ω	2.4 A
180	18 µH	0.065 Ω	2.3 A
220	22 µH	0.07 Ω	2.1 A
270	27 µH	0.075 Ω	1.9 A
330	33 µH	0.08 Ω	1.8 A
390	39 µH	0.085 Ω	1.7 A
470	47 µH	0.09 Ω	1.6 A
560	56 µH	0.095 Ω	1.5 A
680	68 µH	0.1 Ω	1.4 A
820	82 µH	0.105 Ω	1.3 A
101	100 µH	0.11 Ω	1.2 A
121	120 µH	0.115 Ω	1.1 A
151	150 µH	0.12 Ω	1 A
181	180 µH	0.125 Ω	0.9 A
221	220 µH	0.13 Ω	0.8 A
271	270 µH	0.135 Ω	0.75 A
331	330 µH	0.14 Ω	0.7 A
391	390 µH	0.145 Ω	0.65 A
471	470 µH	0.15 Ω	0.6 A
561	560 µH	0.155 Ω	0.55 A
681	680 µH	0.16 Ω	0.5 A
821	820 µH	0.165 Ω	0.45 A
102	1000 µH	0.17 Ω	0.4 A

LHB 1014			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
101	100 µH	0.85 Ω	0.35 A
121	120 µH	0.95 Ω	0.33 A
151	150 µH	1.05 Ω	0.31 A
181	180 µH	1.15 Ω	0.3 A
221	220 µH	1.3 Ω	0.28 A
271	270 µH	1.5 Ω	0.26 A
331	330 µH	1.7 Ω	0.24 A
391	390 µH	1.85 Ω	0.23 A
471	470 µH	2.3 Ω	0.21 A
561	560 µH	2.55 Ω	0.2 A
681	680 µH	2.85 Ω	0.19 A
821	820 µH	3.1 Ω	0.18 A
102	1000 µH	4.1 Ω	0.16 A
122	1200 µH	4.7 Ω	0.15 A
152	1500 µH	5.8 Ω	0.13 A
182	1800 µH	7.4 Ω	0.115 A
222	2200 µH	8.4 Ω	0.11 A
272	2700 µH	9.6 Ω	0.095 A
332	3300 µH	10.5 Ω	0.08 A
392	3900 µH	12 Ω	0.07 A
472	4700 µH	14 Ω	0.065 A
562	5600 µH	16 Ω	0.06 A
682	6800 µH	18 Ω	0.055 A
822	8200 µH	24.5 Ω	0.05 A
103	10000 µH	32 Ω	0.045 A
123	12000 µH	36 Ω	0.04 A
153	15000 µH	48 Ω	0.035 A
183	18000 µH	52 Ω	0.03 A
223	22000 µH	58 Ω	0.028 A
273	27000 µH	62 Ω	0.026 A
333	33000 µH	90 Ω	0.024 A
393	39000 µH	100 Ω	0.022 A
473	47000 µH	150 Ω	0.02 A
563	56000 µH	200 Ω	0.018 A
683	68000 µH	220 Ω	0.016 A
823	82000 µH	240 Ω	0.014 A
104	100000 µH	300 Ω	0.012 A

LHB 1216			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
103	10000 µH	23 Ω	0.1 A
123	12000 µH	24 Ω	0.095 A
153	15000 µH	28 Ω	0.09 A
183	18000 µH	34 Ω	0.085 A
223	22000 µH	39 Ω	0.08 A
273	27000 µH	48 Ω	0.07 A
333	33000 µH	56 Ω	0.065 A
393	39000 µH	62 Ω	0.06 A
473	47000 µH	73 Ω	0.055 A
563	56000 µH	115 Ω	0.05 A
683	68000 µH	120 Ω	0.045 A
823	82000 µH	150 Ω	0.042 A
104	100000 µH	155 Ω	0.04 A
124	120000 µH	180 Ω	0.038 A
154	150000 µH	205 Ω	0.035 A

LHB 0712			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
100	10 µH	0.07 Ω	1.1 A
120	12 µH	0.08 Ω	1 A
150	15 µH	0.09 Ω	0.9 A
180	18 µH	0.1 Ω	0.85 A
220	22 µH	0.12 Ω	0.7 A
270	27 µH	0.13 Ω	0.65 A
330	33 µH	0.15 Ω	0.6 A
390	39 µH	0.16 Ω	0.55 A
470	47 µH	0.18 Ω	0.45 A
560	56 µH	0.21 Ω	0.4 A
680	68 µH	0.24 Ω	0.36 A
820	82 µH	0.35 Ω	0.34 A
101	100 µH	0.4 Ω	0.32 A
121	120 µH	0.45 Ω	0.3 A
151	150 µH	0.5 Ω	0.28 A
181	180 µH	0.75 Ω	0.26 A
221	220 µH	0.9 Ω	0.24 A
271	270 µH	1 Ω	0.22 A
331	330 µH	1.1 Ω	0.2 A
391	390 µH	1.2 Ω	0.18 A
471	470 µH	1.5 Ω	0.16 A
561	560 µH	1.8 Ω	0.15 A

LHB 0912			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
1R5	1.5 µH	0.008 Ω	5.4 A
2R2	2.2 µH	0.01 Ω	4.5 A
3R3	3.3 µH	0.018 Ω	3.6 A
4R7	4.7 µH	0.022 Ω	3.1 A
6R8	6.8 µH	0.028 Ω	2.5 A
100	10 µH	0.043 Ω	2.1 A
150	15 µH	0.056 Ω	1.7 A
220	22 µH	0.086 Ω	1.4 A
330	33 µH	0.14 Ω	1.1 A
470	47 µH	0.17 Ω	0.96 A
680	68 µH	0.28 Ω	0.79 A
101	100 µH	0.33 Ω	0.66 A
151	150 µH	0.56 Ω	0.53 A
221	220 µH	0.72 Ω	0.44 A
331	330 µH	1.1 Ω	0.36 A
471	470 µH	1.7 Ω	0.3 A
681	680 µH	2.3 Ω	0.25 A
102	1000 µH	4.3 Ω	0.2 A

LHB 1314			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
3R3	3.3 µH	0.008 Ω	5.6 A
4R7	4.7 µH	0.009 Ω	4.7 A
6R8	6.8 µH	0.012 Ω	3.9 A
100	10 µH	0.015 Ω	3.2 A
150	15 µH	0.019 Ω	2.6 A
220	22 µH	0.026 Ω	2.2 A
330	33 µH	0.045 Ω	1.8 A
470	47 µH	0.056 Ω	1.5 A
680	68 µH	0.092 Ω	1.2 A
101	100 µH	0.12 Ω	1 A
151	150 µH	0.2 Ω	0.82 A
221	220 µH	0.25 Ω	0.68 A
331	330 µH	0.42 Ω	0.55 A
471	470 µH	0.51 Ω	0.46 A
681	680 µH	0.79 Ω	0.38 A
102	1000 µH	1.3 Ω	0.31 A
152	1500 µH	1.7 Ω	0.25 A
222	2200 µH	2.9 Ω	0.21 A
332	3300 µH	3.7 Ω	0.17 A
472	4700 µH	5.6 Ω	0.14 A
682	6800 µH	9.4 Ω	0.12 A
103	10000 µH	12 Ω	0.1 A
153	15000 µH	15 Ω	0.082 A

RLH 0910			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
4R7	4.7 µH	0.031 Ω	2.6 A
6R8	6.8 µH	0.038 Ω	2.3 A
100	10 µH	0.05 Ω	1.9 A
150	15 µH	0.096 Ω	1.6 A
220	22 µH	0.12 Ω	1.3 A
330	33 µH	0.195 Ω	1 A
470	47 µH	0.25 Ω	0.94 A
680	68 µH	0.31 Ω	0.73 A
101	100 µH	0.53 Ω	0.67 A
151	150 µH	0.7 Ω	0.52 A
221	220 µH	0.89 Ω	0.46 A
331	330 µH	1.6 Ω	0.37 A
471	470 µH	2 Ω	0.3 A
681	680 µH	3 Ω	0.26 A
102	1000 µH	4 Ω	0.19 A

RLH 0912			
NOMINAL INDUCTANCE AND CODE	IND. TOLERANCE	DCR (MAX.)	IDC (MAX.)
1R5	1.5 µH	0.008 Ω	5.4 A
2R2	2.2 µH	0.01 Ω	4.5 A
3R3	3.3 µH	0.018 Ω	3.6 A
4R7	4.7 µH	0.022 Ω	3.1 A
6R8	6.8 µH	0.028 Ω	2.5 A
100	10 µH	0.043 Ω	2.1 A
150	15 µH	0.056 Ω	1.7 A
220	22 µH	0.086 Ω	1.4 A
330	33 µH	0.14 Ω	1.1 A
470	47 µH	0.17 Ω	0.96 A
680	68 µH	0.28 Ω	0.79 A
101	100 µH	0.33 Ω	0.66 A
151	150 µH	0.56 Ω	0.53 A
221	220 µH	0.72 Ω	0.44 A
331	330 µH	1.1 Ω	0.36 A
471	470 µH	1.7 Ω	0.3 A
681	680 µH	2.3 Ω	0.25 A
102	1000 µH	4.3 Ω	0.2 A

Measuring Frequency = 1kHz  
 IND. TOL. = Inductance Tolerance  
 DCR (Max) = DC Resistance (Max.)  
 IDC (Max) = Allowable DC Current (Max.)

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

INDUCTORS