

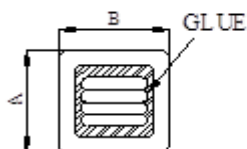


SPECIFICATION FOR APPROVAL

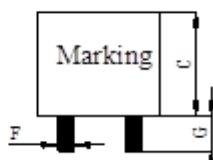


CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor, 300.0nH, 45.0A, 1.05mΩ DCR	PAGE NO	1 of 5
PART NO	LR3124H-R30LHF	DATE	2013.11.22

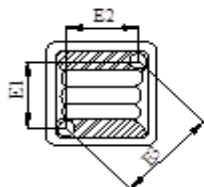
1.CONFIGURATIONS & DIMENSIONS:



Top View



Front View



Bottom View Suggest PCB Layout

A	8.0	±	0.3	mm
B	8.0	±	0.3	mm
C	6.0	±	0.5	mm
E1	4.4	±	0.5	mm
E2	4.4	±	0.5	mm
E3	6.2	±	0.5	mm
F	Φ1.1	±	0.1	mm
G	3.5	±	0.5	mm

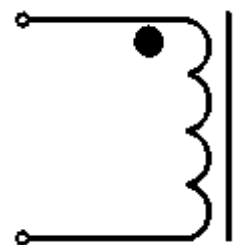
Note: Marking R30 YY WW YY:Year;WW:Week.

2.ELECTRICAL CHARACTERISTICS:

TEST	CONDITION				
100KHZ/1.0V	L	300.00	nH	±	15%
Ta=25°C	DCR	1.05	mΩ	±	7%
100KHZ/1.0V Isat=45.0A	L@Isat	264.40	nH		(Typ.)
100KHZ/1.0V Irms=25.0A	L@Irms	286.00	nH		(Typ.)

Notes:	1>. Isat: DC current that will caused inductance to drop in 20% from its initial value (Typ.) 2>. Irms: This DC current indicates that the temperature of coil is increased 40°C Max. (Typ.)
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3.SCHEMATIC DIAGRAM



Note: 1>. Wire Φ1.10mm (155°C)
2>. 3.5TS (Ref) C.CW

Operating temperature: -55°C ~ +130°C

4.TEST INSTRUMENTS

L : WK3260B

DCR:TH2512B

L@Isat and L@Irms :WK3260B and WK3265B.

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5.TEST DATA FOR MECHANICAL

TEST ITEM	A mm	B mm	C mm	E1 mm	E2 mm	E3 mm	F mm	G mm	H mm	I mm
SPEC	8.0 ± 0.3	8.0 ± 0.3	6.0 ± 0.5	4.4 ± 0.5	4.4 ± 0.5	6.2 ± 0.5	Φ1.1 ± 0.1	3.5 ± 0.5		
1	8.09	8.07	6.17	4.45	4.46	6.27	1.06	3.51		
2	8.10	8.12	6.22	4.46	4.40	6.19	1.08	3.58		
3	8.09	8.06	6.20	4.52	4.53	6.23	1.08	3.42		
4	8.09	8.07	6.18	4.38	4.34	6.29	1.05	3.55		
5	8.05	8.06	6.20	4.59	4.51	6.17	1.07	3.53		
6	8.06	8.08	6.22	4.48	4.45	6.25	1.07	3.52		
7	8.03	8.02	6.20	4.42	4.39	6.18	1.06	3.48		
8	8.05	8.08	6.23	4.40	4.45	6.25	1.08	3.56		
9	8.04	8.06	6.25	4.39	4.48	6.22	1.07	3.53		
10	8.04	8.07	6.20	4.46	4.42	6.23	1.06	3.50		
AVERAGE	8.064	8.069	6.207	4.455	4.443	6.228	1.068	3.518		

REMARK:

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6.TEST DATA FOR ELECTRICAL

TEST ITEM	L nH	DCR mΩ	L@Isat nH	L@Irms nH		
CONDITION	100KHZ/1.0V	at 25℃	100KHZ/1.0V Isat=45.0A	100KHZ/1.0V Irms=25.0A		
SPEC	300.00 ± 15%	1.05 ± 7%	264.40 (Typ.)	286.00 (Typ.)		
1	283.92	1.06	252.06	268.84		
2	288.35	1.08	254.07	273.04		
3	292.58	1.04	256.20	277.04		
4	286.35	1.05	253.66	271.14		
5	287.40	1.05	255.25	272.14		
6	292.50	1.08	256.00	276.97		
7	289.30	1.06	254.60	273.94		
8	292.30	1.03	256.00	276.78		
9	286.50	1.02	253.50	271.29		
10	285.70	1.05	252.00	270.53		
AVERAGE	288.490	1.052	254.248	272.442		

REMARK:

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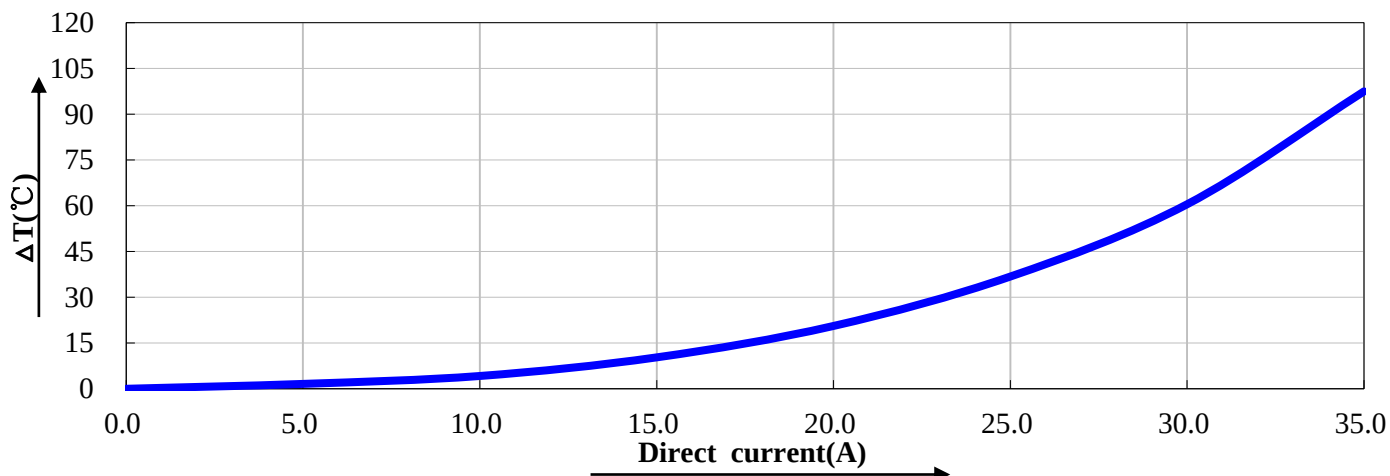
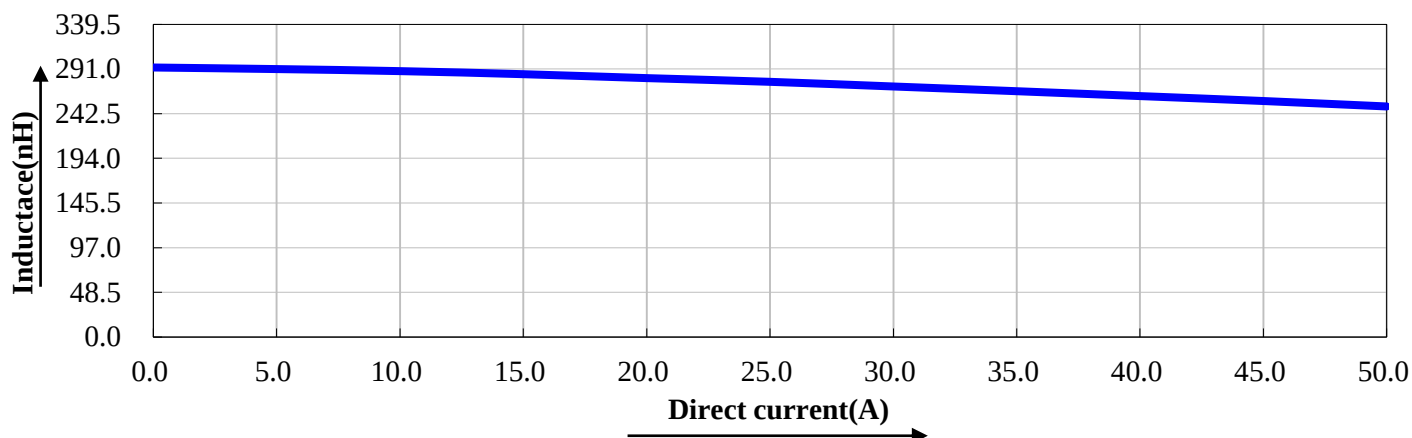


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7.1. ELECTRICAL CHARACTERISTICS.



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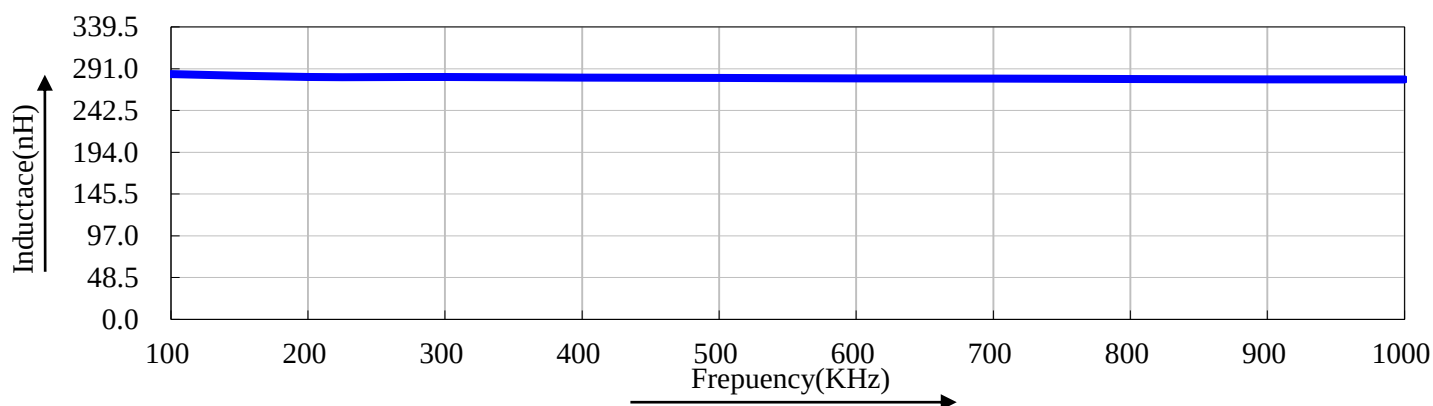


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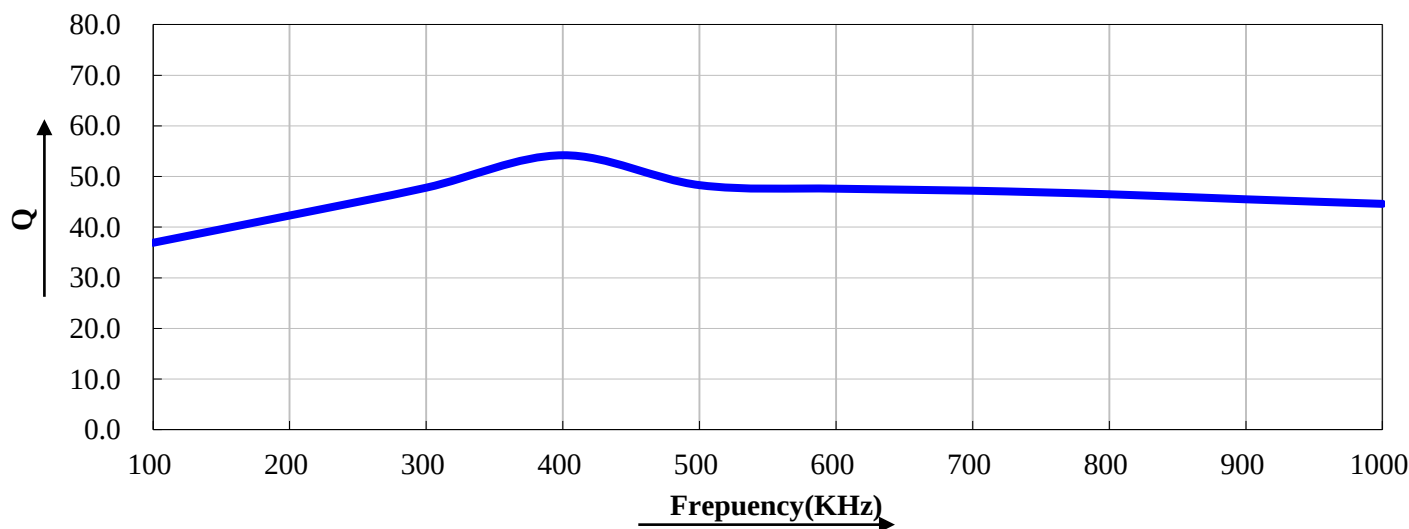


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7.2. ELECTRICAL CHARACTERISTICS.



Frequency (KHz)	100	200	300	400	500	600	700	800	900	1000
Inductance (nH)	284.9	281.5	281.5	280.7	280.4	279.9	279.6	279.1	278.7	278.6



Frequency (KHz)	100	200	300	400	500	600	700	800	900	1000
Q	36.92	42.3	47.8	54.2	48.3	47.6	47.2	46.5	45.5	44.6

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