

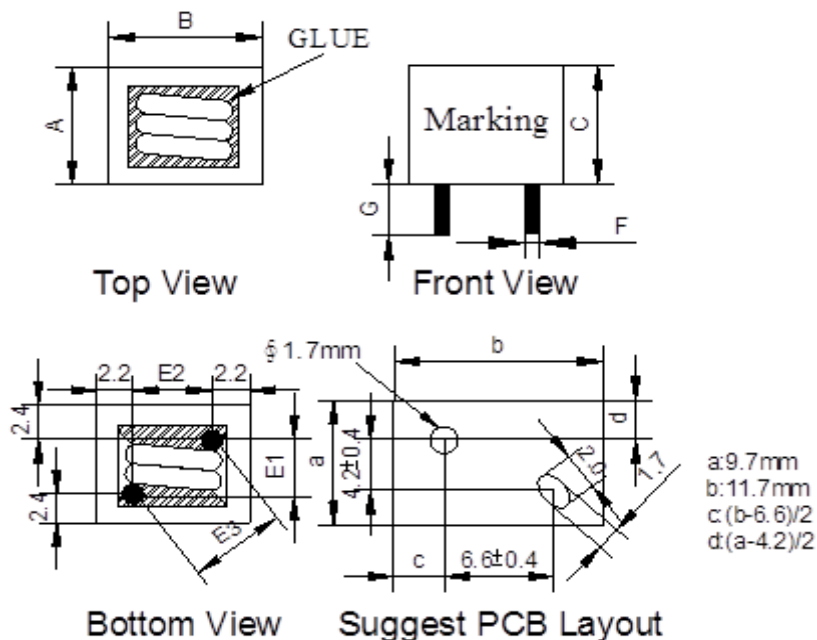


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor, 0.30uH, 50.0A, 0.65mΩ DCR	PAGE NO	1 of 4
PART NO	LR1109-R30LHF	DATE	2013.11.22

1.CONFIGURATIONS & DIMENSIONS:



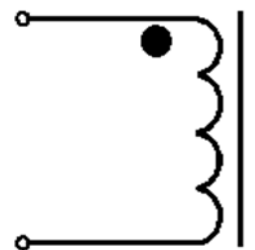
A	9.70	(Max.)	mm
B	11.70	(Max.)	mm
C	8.50	(Max.)	mm
E1	4.20	± 0.40	mm
E2	6.60	± 0.40	mm
E3	7.80	± 0.40	mm
F	Ø1.4	± 0.10	mm
G	3.30	± 0.40	mm
H			mm
I			mm

MARKING: ITG
R30 YY:Year, WW:Week.
YY WW

2.ELECTRICAL CHARACTERISTICS(Ta=25℃):

TEST	CONDITION				
100KHZ/1.0V	L	300.0	nH	±	15%
Ta=20℃	DCR	0.65	mΩ	±	8%
100KHZ/1.0V Isat=50.0A	L@Isat	≅ 95%	L(0A)		(Typ.)
100KHZ/1.0V Irms=48.0A	L@Irms	295.5	nH		(Typ.)
Note	1.Isat: DC current that will caused inductance to drop in 5% from initial value (Typ.) 2.Irms: DC current will caused an approx. temperature of 40℃ rise (Typ.)				

3.SCHEMATIC DIAGRAM



Operating temperature range : -55℃ ~ +130℃

4.TEST INSTRUMENTS

L:WK3260B.

DCR:Gain Kai Ta 502BCOHM.

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

APPROVED BY	CHECKED BY	DRAWN BY
Richard Wen	Royi Luo	Anthony Yan



SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor,0.30uH,50.0A,0.65mΩ DCR	PAGE NO	2 of 4
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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	9.70 (Max.)	11.70 (Max.)	8.50 (Max.)	4.20 ± 0.40	6.60 ± 0.40	7.80 ± 0.40	Ø1.4 ± 0.10	3.30 ± 0.40		
1	9.05	11.07	8.16	4.22	6.58	7.75	1.39	3.38		
2	9.05	11.05	8.20	4.18	6.63	7.78	1.39	3.30		
3	9.08	11.06	8.23	4.25	6.60	7.82	1.38	3.32		
4	9.08	11.07	8.15	4.20	6.62	7.85	1.40	3.35		
5	9.06	11.06	8.20	4.22	6.65	7.80	1.40	3.36		
6	9.08	11.06	8.18	4.23	6.60	7.78	1.39	3.38		
7	9.05	11.08	8.16	4.18	6.55	7.83	1.41	3.28		
8	9.04	11.06	8.15	4.25	6.63	7.85	1.40	3.40		
9	9.07	11.05	8.22	4.26	6.60	7.88	1.39	3.35		
10	9.05	11.03	8.25	4.20	6.62	7.80	1.38	3.26		
AVERAGE	9.0610	11.0590	8.1900	4.2190	6.6080	7.8140	1.3930	3.3380		

REMARK:

APPROVED BY Richard Wen	CHECKED BY Royi Luo	DRAWN BY Anthony Yan
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SPECIFICATION FOR APPROVAL



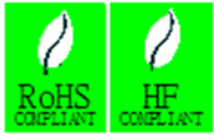
CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor,0.30uH,50.0A,0.65mΩ DCR	PAGE NO	3 of 4
PART NO	LR1109-R30LHF	DATE	2013.11.22

6.TEST DATA FOR ELECTRICAL

TEST ITEM	L nH	DCR mΩ	L@Isat nH	L@Irms nH			
CONDITION	100KHZ/1.0 V	at 25°C	100KHZ/1.0V Isat=50.0A	100KHZ/1.0V Irms=48.0A			
SPEC	300.0 ± 15%	0.65 ± 8%	≅95% L(0A) (Typ.)	295.5 (Typ.)			
1	300.250	0.652	295.446	295.806			
2	298.600	0.648	293.822	294.181			
3	302.300	0.660	297.463	297.826			
4	299.360	0.650	294.570	294.929			
5	298.550	0.640	293.773	294.131			
6	297.260	0.650	292.504	292.861			
7	303.280	0.650	298.428	298.791			
8	305.270	0.640	300.386	300.752			
9	298.360	0.650	293.586	293.944			
10	292.450	0.655	287.771	288.122			
AVERAGE	299.5680	0.6495	294.7749	295.1344			

REMARK:

APPROVED BY Roi Luo	CHECKED BY Roi Luo	DRAWN BY Anthony Yan
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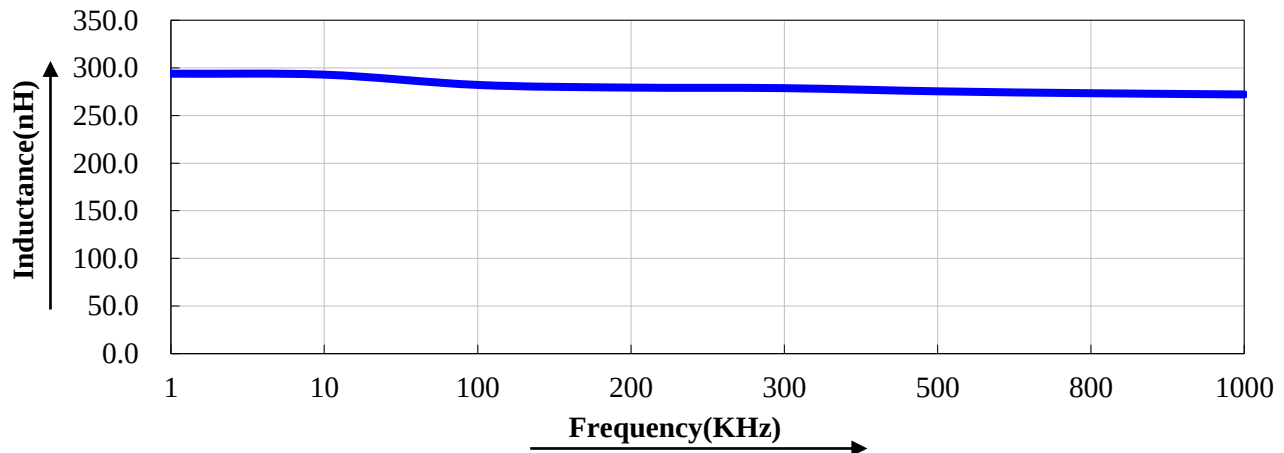
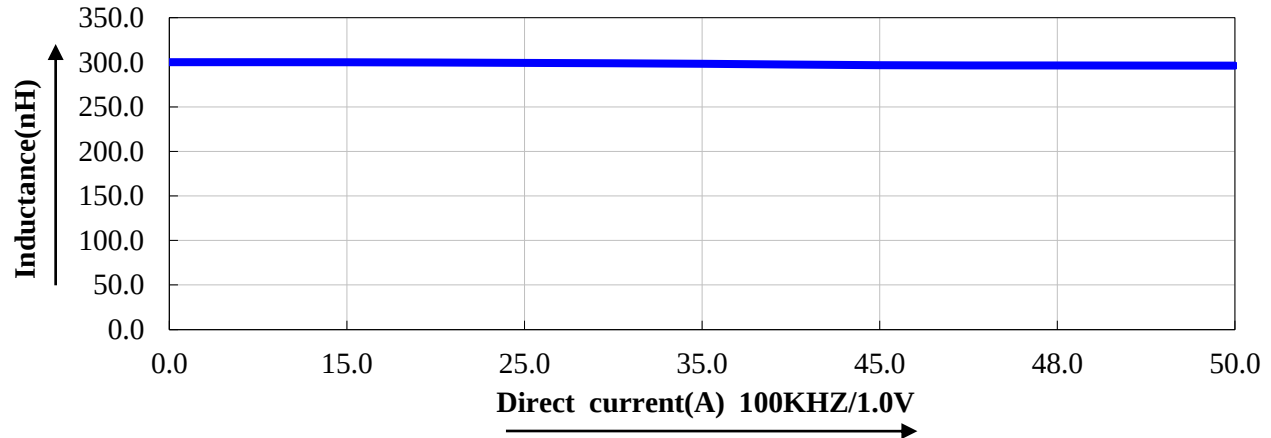


SPECIFICATION FOR APPROVAL



CUSTOMER NAME:	*	REV NO:	1.0
DESCRIPTION:	Inductor,0.30uH,50.0A,0.65mΩ DCR	PAGE NO:	4 of 4
PART NO:	LR1109-R30LHF	DATE:	2013.11.22

7.0 ELECTRICAL CHARACTERISTICS.



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