

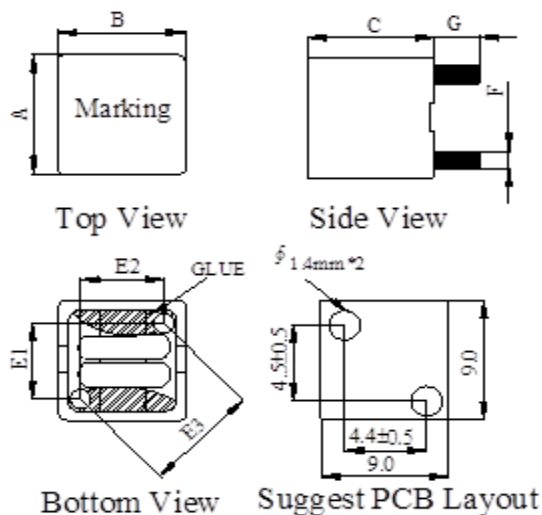


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor, 230.0nH, 50.0A, 0.83mΩ DCR	PAGE NO	1 of 5
PART NO	QS08087-R23LHF	DATE	2013.11.22

1.CONFIGURATIONS & DIMENSIONS:



A	7.7	±	0.3	mm
B	7.7	±	0.3	mm
C	7.0	±	0.5	mm
E1	4.5	±	0.5	mm
E2	4.7	±	0.5	mm
E3	6.5	±	0.5	mm
F	Φ1.1	±	0.1	mm
G	3.5	±	0.5	mm

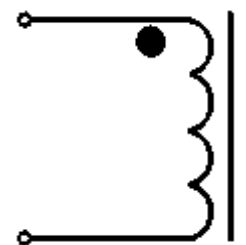
Note: Marking R23 YY WW YY:Year;WW:Week.

2.ELECTRICAL CHARACTERISTICS:

TEST	CONDITION				
100KHZ/1.0V	L	230.00	nH	±	15%
Ta=25°C	DCR	0.83	mΩ	±	7%
100KHZ/1.0V Isat=50.0A	L@Isat	204.80	nH		(Typ.)
100KHZ/1.0V Irms=32.0A	L@Irms	216.50	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>. 2.5TS (Ref) C.CW

Operating temperature: -55°C ~ +130°C

4.TEST INSTRUMENTS

L : WK3260B

DCR:TH2512B

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

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



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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	7.7 ± 0.3	7.7 ± 0.3	7.0 ± 0.5	4.5 ± 0.5	4.7 ± 0.5	6.5 ± 0.5	Φ1.1 ± 0.1	3.5 ± 0.5		
1	7.68	7.69	7.34	4.48	4.74	6.66	1.09	3.61		
2	7.70	7.72	7.33	4.51	4.67	6.60	1.08	3.60		
3	7.70	7.70	7.32	4.57	4.75	6.51	1.08	3.52		
4	7.68	7.70	7.34	4.50	4.78	6.64	1.07	3.51		
5	7.69	7.69	7.36	4.56	4.72	6.53	1.06	3.56		
6										
7										
8										
9										
10										
AVERAGE	7.690	7.700	7.338	4.524	4.732	6.588	1.076	3.560		

REMARK:

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SPECIFICATION FOR APPROVAL



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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=50.0A	100KHZ/1.0V Irms=32.0A		
SPEC	230.00 ± 15%	0.83 ± 7%	204.80 (Typ.)	216.50 (Typ.)		
1	224.3	0.842	201.7	211.2		
2	220.5	0.857	198.8	207.6		
3	241.3	0.853	211.4	227.2		
4	228.7	0.839	203.7	215.3		
5	232.4	0.863	206.2	218.8		
6						
7						
8						
9						
10						
AVERAGE	229.420	0.851	204.344	215.999		

REMARK:

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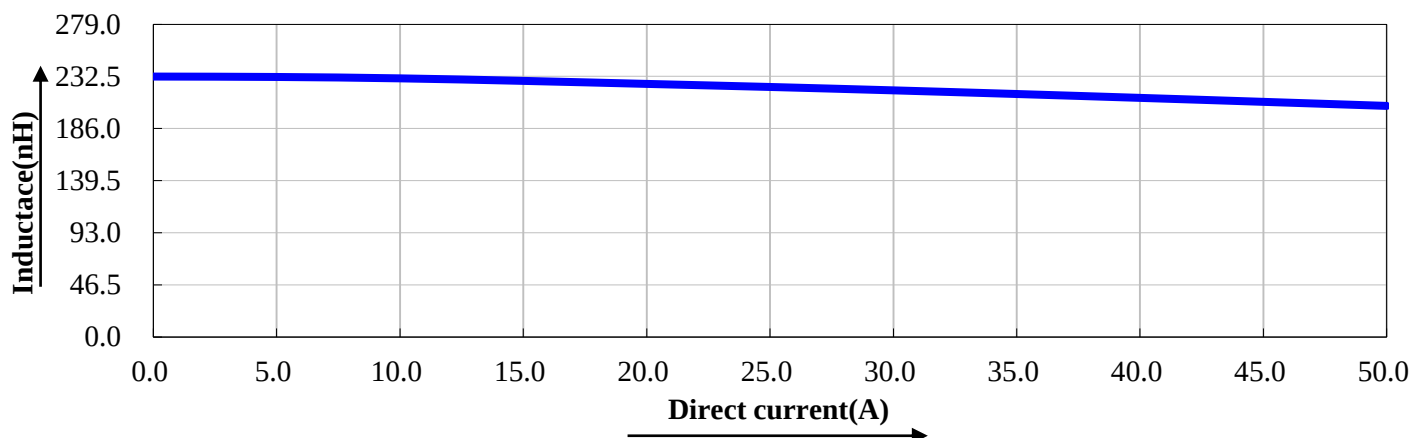


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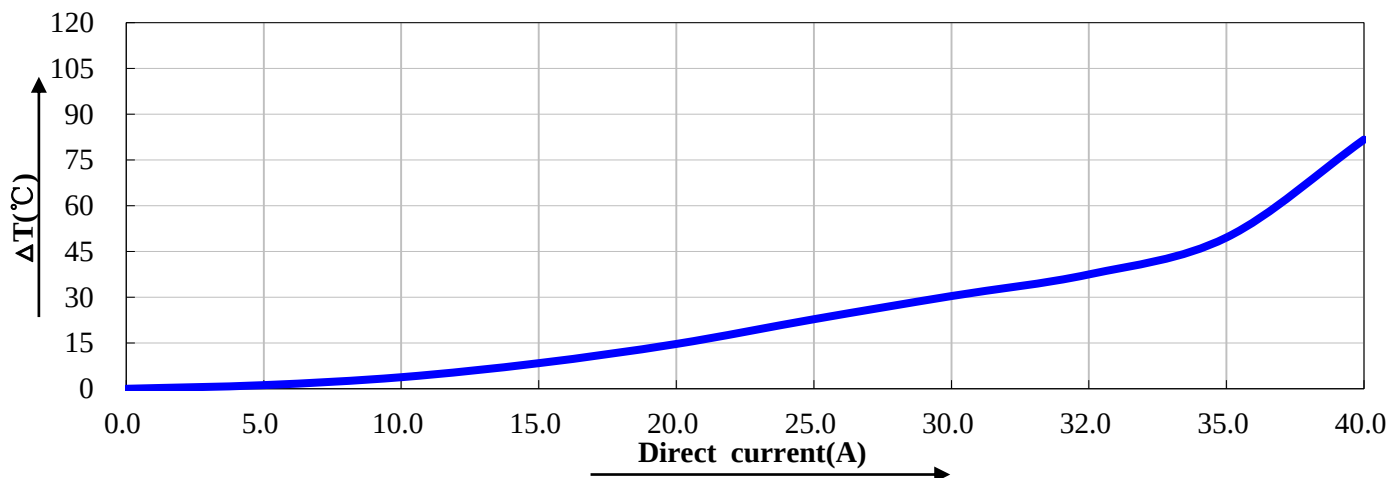


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7.1. ELECTRICAL CHARACTERISTICS.



Direct current (A)	0	5	10	15	20	25	30	35	40	45	50
Inductance (nH) @25°C	232.4	232.0	230.8	228.5	225.8	223.1	220.1	216.8	213.4	209.8	206.2



Direct current(A)	0	5	10	15	20	25	30	32	35	40
ΔT(°C)	0.0	1.2	3.8	8.4	14.7	22.8	30.4	37.5	49.6	81.7

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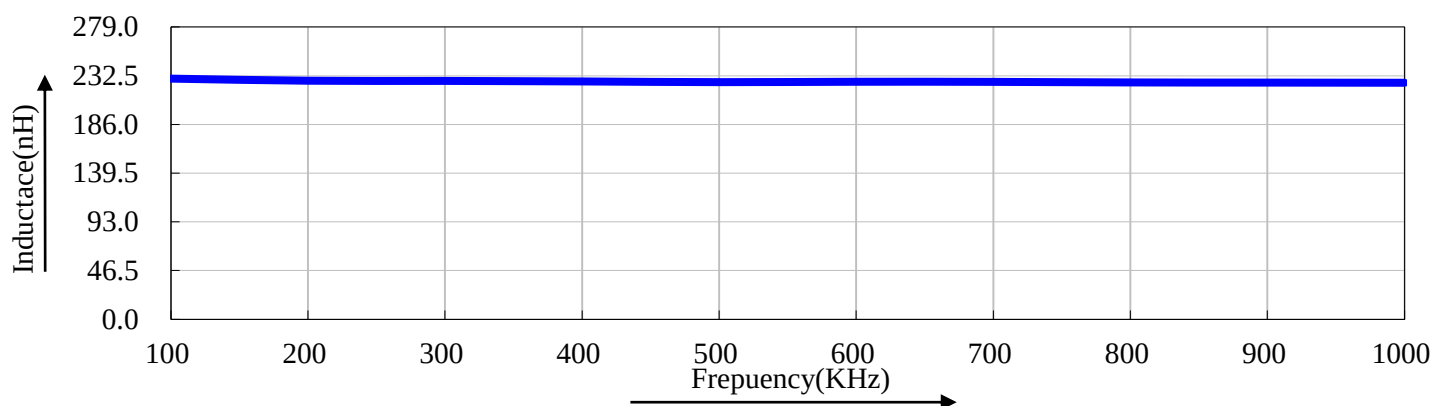


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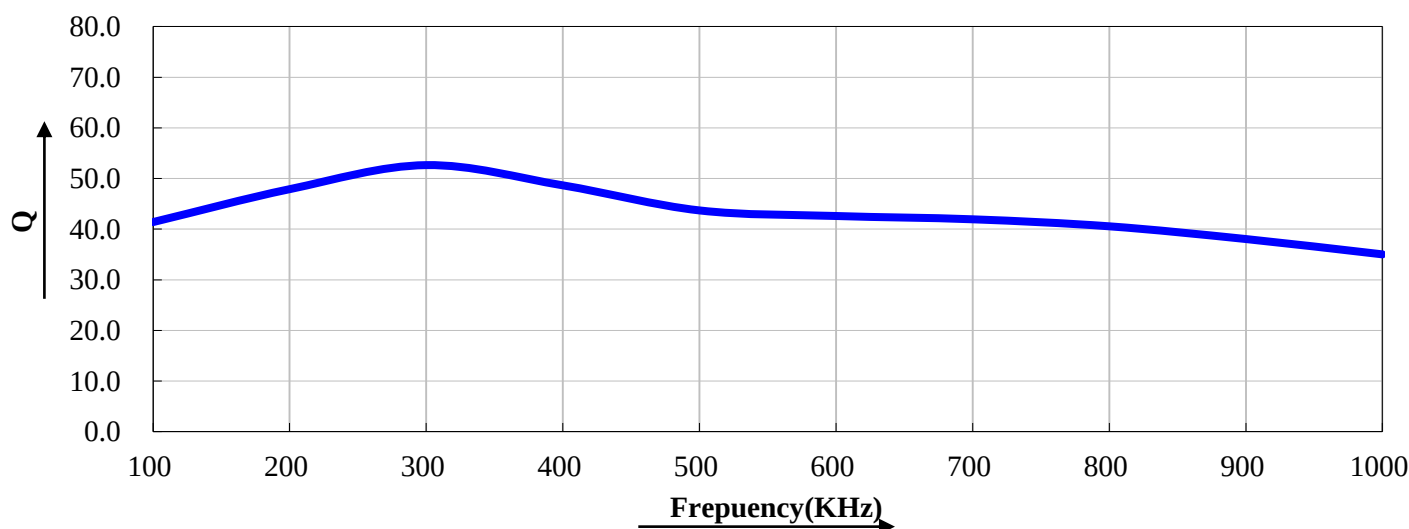


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7.2. ELECTRICAL CHARACTERISTICS.



Frequency (KHz)	100	200	300	400	500	600	700	800	900	1000
Inductance (nH)	229.7	227.8	227.6	227.0	226.4	226.8	226.7	226.1	226.0	225.8



Frequency (KHz)	100	200	300	400	500	600	700	800	900	1000
Q	41.40	47.90	52.65	48.65	43.70	42.60	41.95	####	####	35.02

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