

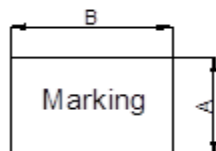


SPECIFICATION FOR APPROVAL

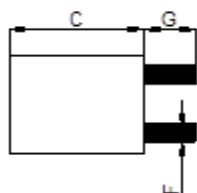


CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor, 0.26uH , 60A , 0.78mΩ DCR	PAGE NO	1 of 5
PART NO	QS110809F-R26LHF	DATE	2013.11.22

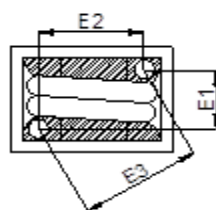
1.CONFIGURATIONS & DIMENSIONS:



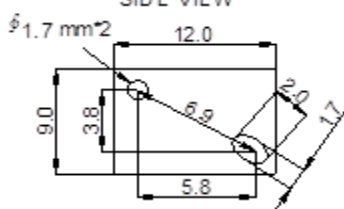
TOP VIEW



SIDE VIEW



BOTTOM VIEW



Suggest PCB Layout

A	8.0	(Max.)	mm
B	11.0	(Max.)	mm
C	9.0	(Max.)	mm
E1	3.8	± 0.5	mm
E2	5.8	± 0.5	mm
E3	6.9	± 0.5	mm
F	§ 1.3	± 0.1	mm
G	3.5	± 0.5	mm

R26

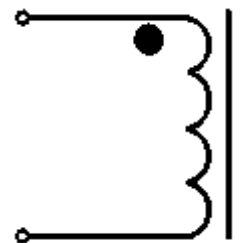
Note: Marking YY WW YY:Year;WW:Week.

2.ELECTRICAL CHARACTERISTICS:

TEST	CONDITION				
100KHZ/1.0V	L	260.0	nH	±	15%
Ta=25°C	DCR	0.78	mΩ	±	8%
100KHZ/1.0V Isat1=60.0A at 25°C	L@Isat1	236.0	nH		(Ref.)
100KHZ/1.0V Isat2=50.0A at 100°C	L@Isat2	227.0	nH		(Ref.)
100KHZ/1.0V Irms=30.0A	L@Irms	254.0	nH		(Ref.)

Notes:	1>. Isat1 and Isat2 :This DC current indicates that the inductance drops 20% (Max.) from its initial value without DC current . (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 Φ1.30mm (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	8.0 (Max.)	11.0 (Max.)	9.0 (Max.)	3.8 ± 0.5	5.8 ± 0.5	6.9 ± 0.5	φ 1.3 ± 0.1	3.5 ± 0.5		
1	7.73	10.76	8.69	3.86	5.80	6.92	1.27	3.51		
2	7.74	10.78	8.65	3.87	5.79	6.90	1.28	3.62		
3	7.71	10.78	8.72	3.80	5.75	6.88	1.27	3.60		
4	7.75	10.75	8.70	3.82	5.81	6.95	1.28	3.48		
5	7.72	10.78	8.68	3.89	5.83	6.97	1.26	3.57		
6										
7										
8										
9										
10										
AVERAGE	7.730	10.770	8.688	3.848	5.796	6.924	1.272	3.556		

REMARK:

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SPECIFICATION FOR APPROVAL



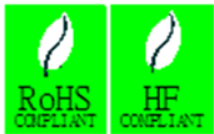
CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor, 0.26uH , 60A , 0.78mΩ DCR	PAGE NO	3 of 5
PART NO	QS110809F-R26LHF	DATE	2013.11.22

6.TEST DATA FOR ELECTRICAL

TEST ITEM	L nH	DCR mΩ	L@Isat1 nH	L@Isat2 nH	L@Irms nH	
CONDITION	100KHZ/1.0V	at 25℃	100KHZ/1.0V Isat1=60.0A at 25℃	100KHZ/1.0V Isat2=50.0A at 100℃	100KHZ/1.0V Irms=30.0A	
SPEC	260.0 ± 15%	0.78 ± 8%	236.0 (Ref.)	227.0 (Ref.)	254.0 (Ref.)	
1	264.68	0.781	238.06	226.22	255.21	
2	269.10	0.782	239.11	232.10	258.01	
3	258.58	0.784	231.67	222.30	248.47	
4	262.08	0.783	234.74	224.20	252.01	
5	268.94	0.782	241.12	231.70	258.90	
6						
7						
8						
9						
10						
AVERAGE	264.676	0.782	236.940	227.304	254.520	

REMARK:

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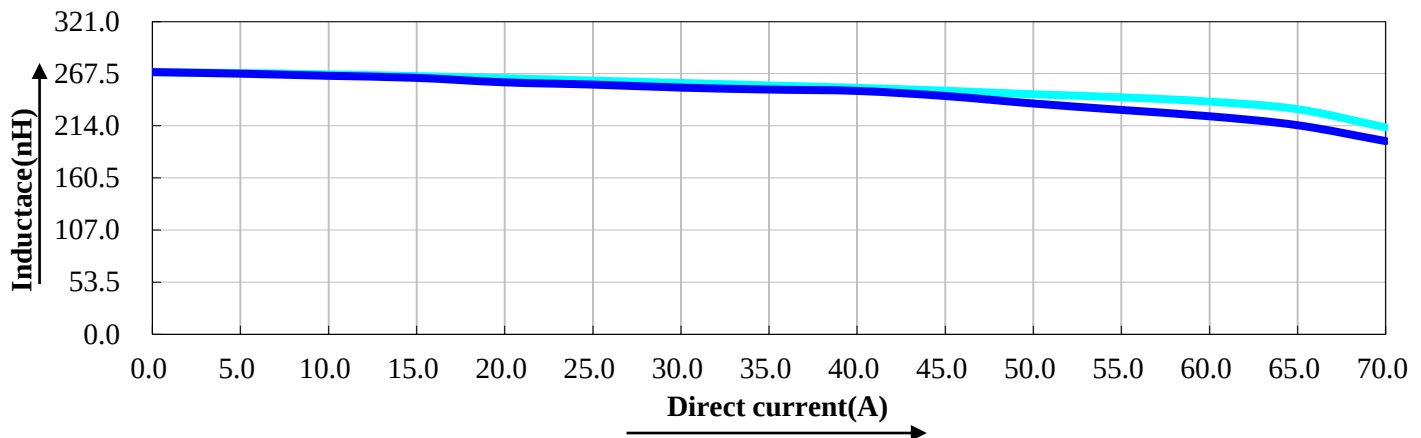


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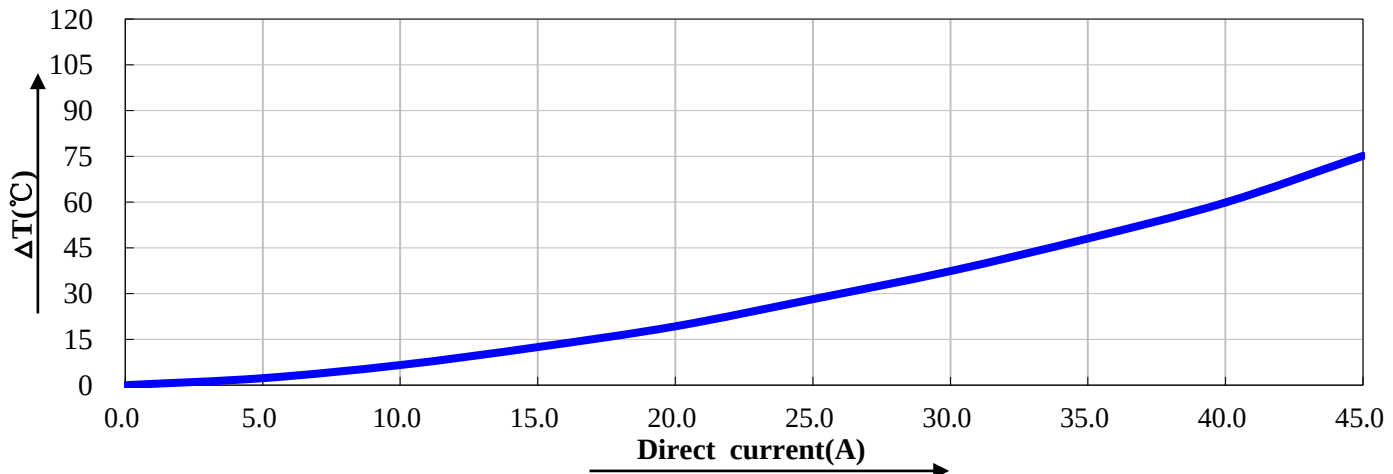


CUSTOMER	*	1.0	1.0
DESCRIPTION	Inductor, 0.26uH , 60A , 0.78mΩ DCR	PAGE NO	4 of 5
PART NO	QS110809F-R26LHF	DATE	2013.11.22

7.1. ELECTRICAL CHARACTERISTICS.



Direct current (A)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Inductance (nH) @25°C	269.1	268.2	266.8	265.0	262.9	260.4	258.0	255.4	253.0	250.0	246.4	243.3	238.9	231.1	212.4
Inductance (nH) @100°C	269.1	267.5	265.3	263.2	258.6	256.3	253.2	251.2	249.8	244.6	236.9	230.3	223.8	214.6	198.3



Direct current(A)	0	5	10	15	20	25	30	35	40	45
ΔT(°C)	0.0	2.3	6.6	12.5	19.3	28.2	37.4	48.1	59.9	75.2

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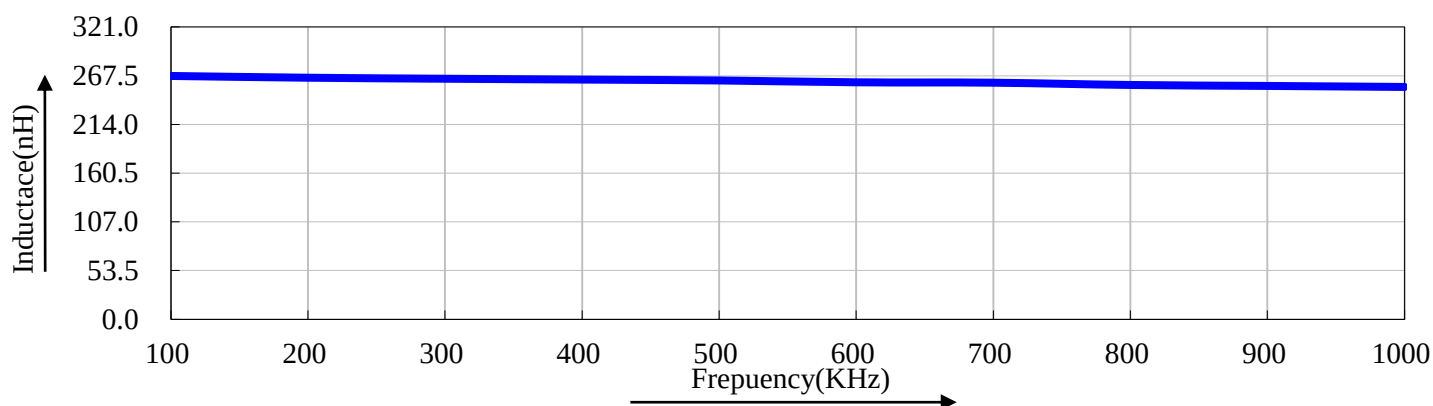


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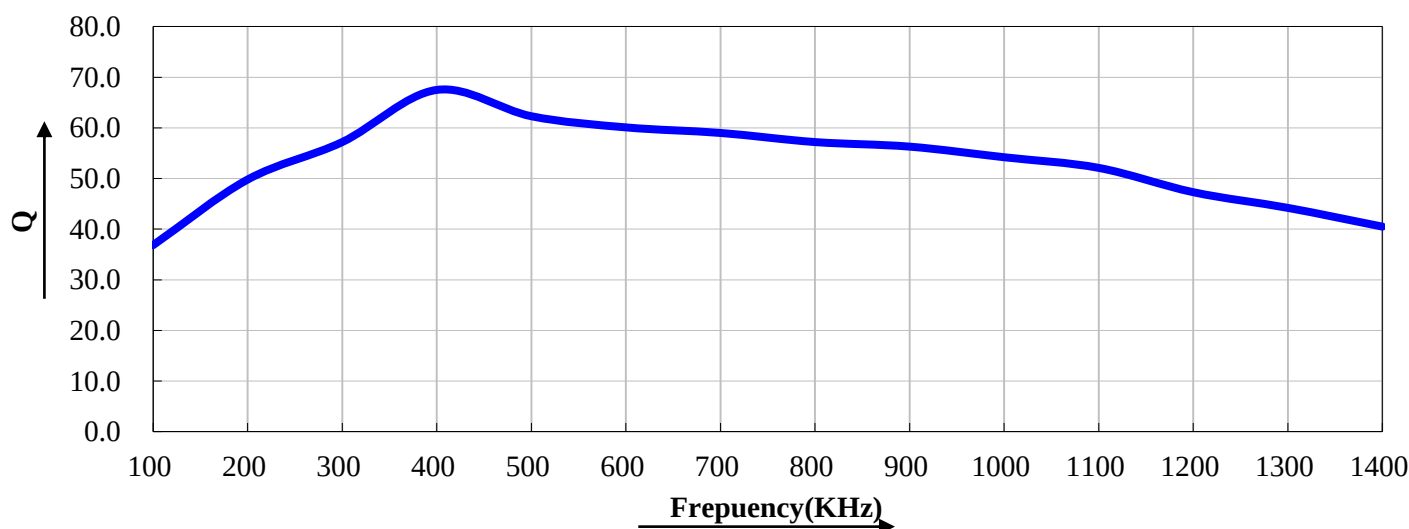


CUSTOMER	*	1.0	1.0
DESCRIPTION	Inductor, 0.26uH , 60A , 0.78mΩ DCR	PAGE NO	5 of 5
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7.2. ELECTRICAL CHARACTERISTICS.



Frequency (KHz)	100	200	300	400	500	600	700	800	900	1000
Inductance (nH)	267.3	265.3	264.2	263.3	262.3	260.3	259.9	257.4	256.3	255.2



Frequency (KHz)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
Q	36.8	49.8	57.2	67.5	62.3	60.1	59.0	57.2	56.3	54.2	52.1	47.3	44.2	40.5

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