

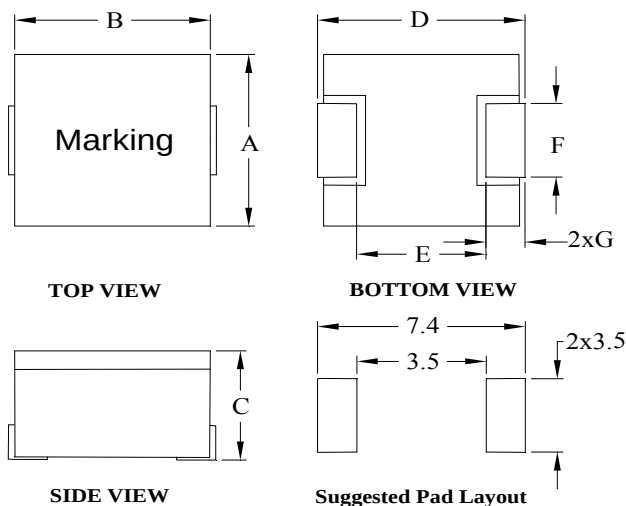


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.1
DESCRIPTION	Power Inductor, 1.80uH , 13.0A , 16.0mΩDCR	PAGE NO	1 of 4
PART NO	SC2515-1R8MHF	DATE	2013.04.25

1.CONFIGURATIONS & DIMENSIONS:



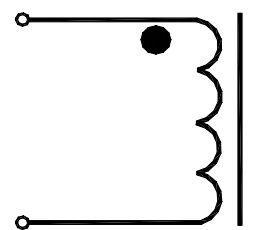
A	6.50	±	0.30	mm
B	6.50	±	0.30	mm
C	4.00		(Max.)	mm
D	7.80		(Max.)	mm
E	4.50		(Ref.)	mm
F	2.80		(Ref.)	mm
G	1.30		(Ref.)	mm
H				mm
I				mm

Marking: • 1R8
YY WW 1." • "Beginning of winding.

2.ELECTRICAL CHARACTERISTICS (at 25°C):

TEST	CONDITION				
100KHz 0.1V	L	1.800	uH	±	20%
Ta = 25°C	DCR	16.000	mΩ		(Max.)
100KHz 0.1V Isat1=9.6A	L@Isat1	1.445	uH		(Typ.)
100KHz 0.1V Isat2=13.0A	L@Isat2	1.280	uH		(Typ.)
100KHz 0.1V Irms=8.0A	L@Irms	1.500	uH		(Typ.)

3.SCHEMATIC DIAGRAM:



Note:

- (1).Wire UEFN/U (155°C) φ 0.37mm
- (2). 7.5 Ts(Ref.) C.W

Operating temperature: -40°C ~ +150°C

4.TEST INSTRUMENTS

L:WK3260B.

DCR:Gain Kai Ta 502BCOHM.

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

APPROVED BY	CHECKED BY	DRAWN BY
Royi Luo	Royi Luo	Kevin Hu



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5.TEST DATA FOR MECHANICAL

TEST ITEM	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm
SPEC	6.50 ± 0.30	6.50 ± 0.30	4.00 (Max.)	7.80 (Max.)	4.50 (Ref.)	2.80 (Ref.)	1.30 (Ref.)			
1	6.62	6.51	3.63	7.27	4.27	2.75	1.23			
2	6.57	6.49	3.76	7.15	4.38	2.80	1.18			
3	6.54	6.53	3.61	7.29	4.20	2.81	1.30			
4	6.54	6.53	3.65	7.27	4.21	2.79	1.25			
5	6.58	6.50	3.68	7.31	4.26	2.83	1.28			
6										
7										
8										
9										
10										
AVERAGE	6.570	6.512	3.666	7.258	4.264	2.796	1.248			

REMARK:

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6. TEST DATA FOR ELECTRICAL

TEST ITEM	L uH	DCR mΩ	L@Isat1 uH	L@Isat2 uH	L@Irms uH	
CONDITION	100KHz 0.1V	Ta = 25℃	100KHz 0.1V Isat1=9.6A	100KHz 0.1V Isat2=13.0A	100KHz 0.1V Irms=8.0A	
SPEC	1.800 ± 20%	16.000 (Max.)	1.445 (Typ.)	1.280 (Typ.)	1.500 uH	
1	1.740	14.420	1.420	1.235	1.448	
2	1.720	14.220	1.410	1.221	1.431	
3	1.750	14.430	1.430	1.243	1.456	
4	1.840	14.380	1.480	1.306	1.531	
5	1.720	14.290	1.410	1.221	1.431	
6						
7						
8						
9						
10						
AVERAGE	1.7540	14.3480	1.4300	1.2453	1.4593	

REMARK:

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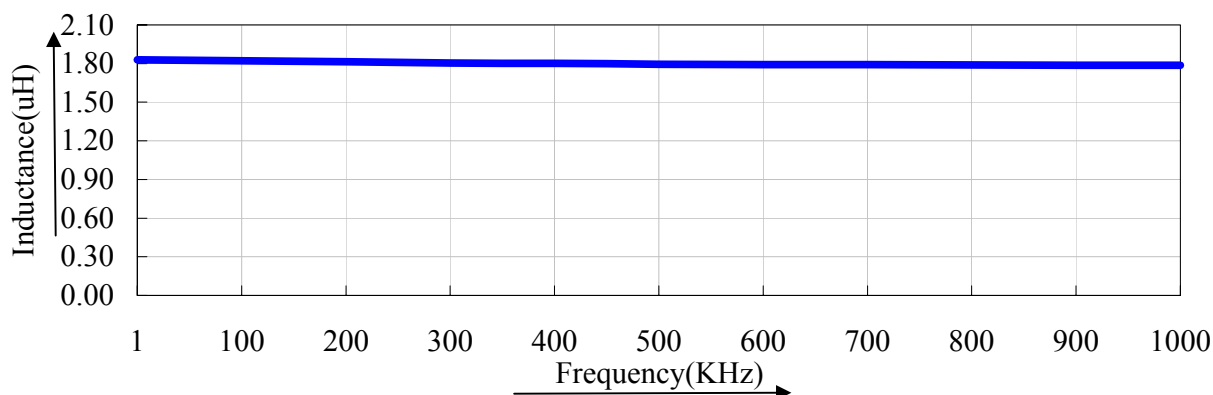
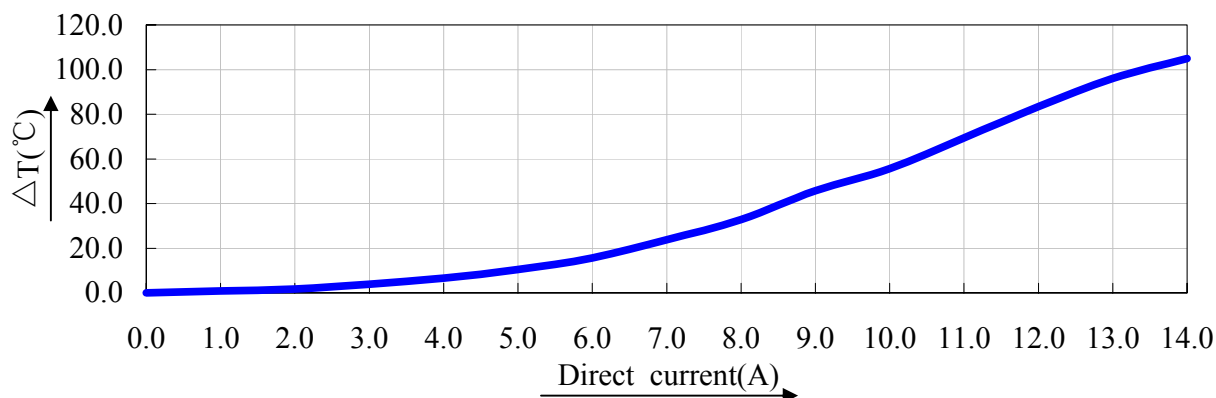
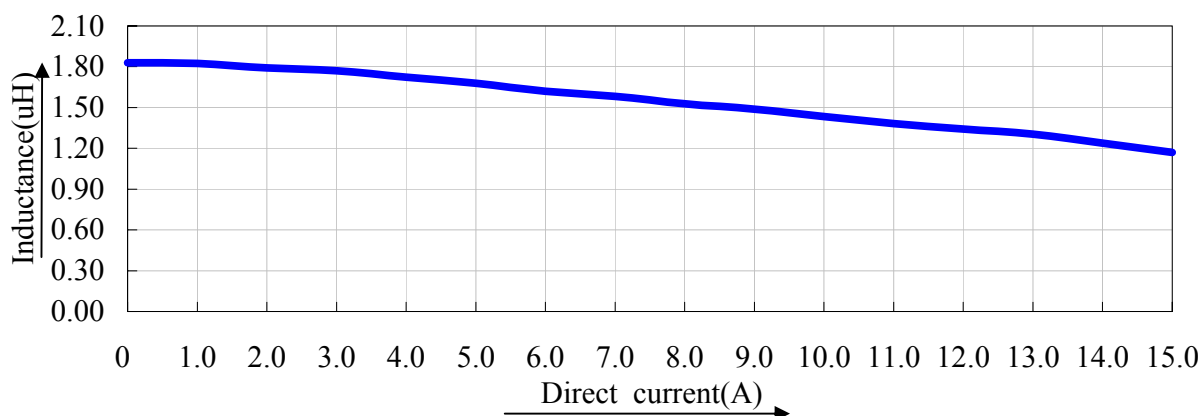


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8.ELECTRIC CHARACTERISTICS.



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