

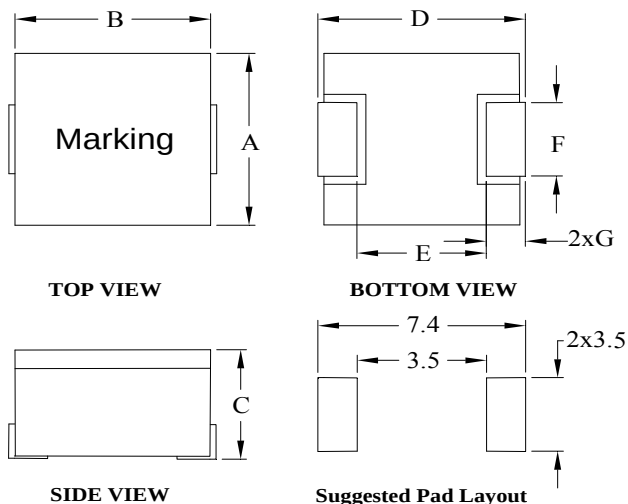


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Power Inductor, 2.30uH , 7.0A , 12.0mΩ DCR	PAGE NO	1 of 4
PART NO	SC2515-2R3MHF	DATE	2013.3.25

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:

• 2R3
YY WW

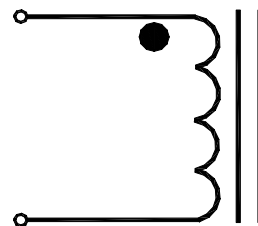
- 1.The long pin is the beginning of winding.
- 2." • "Beginning of winding.
- 3.the top lead to bottom lead winding direction is Counterclockwise.

2.ELECTRICAL CHARACTERISTICS (at 25°C):

TEST	CONDITION				
300KHz 0.25V	L	2.30	uH	±	20%
Ta = 25°C	DCR	12.00	mΩ	±	7%
300KHz 0.25V Isat=7.5A	L@Isat	drops off approx.20% (Typ.)			
300KHz 0.25V Irms=10.0A	L@Irms	1.660	uH		(Typ.)
300KHz 0.25V Imax=14.0A	L@Imax	1.360	uH		(Typ.)
Note	Irms: DC current rating at 40°C temperature rise (typical)				
	Imax: DC current rating at 100°C temperature rise (typical)				

Operating temperature: -40°C ~ +150°C

3.SCHEMATIC DIAGRAM:



4.TEST INSTRUMENTS

L:WK3260B.

DCR:Gain Kai Ta 502BCOHM.

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

APPROVED BY	CHECKED BY	DRAWN BY
Royi Luo	Royi Luo	Billy Tang



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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	6.56	6.50	3.61	7.18	4.31	2.79	1.20			
2	6.52	6.53	3.68	7.19	4.36	2.71	1.17			
3	6.50	6.48	3.79	7.25	4.27	2.81	1.15			
4	6.50	6.51	3.71	7.22	4.26	2.80	1.13			
5	6.52	6.50	3.75	7.20	4.30	2.82	1.18			
6										
7										
8										
9										
10										
AVERAGE	6.520	6.504	3.708	7.208	4.300	2.786	1.166			

REMARK:

APPROVED BY Roi Luo	CHECKED BY Roi Luo	DRAWN BY Billy Tang
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6. TEST DATA FOR ELECTRICAL

TEST ITEM	L uH	DCR mΩ	L@Isat uH	L@Irms uH	L@Imax	
CONDITION	300KHz 0.25V	at 25°C	300KHz 0.25V Isat=7.5A	300KHz 0.25V Irms=10.0A	300KHz 0.25V Imax=14.0A	
SPEC	2.30 ± 20%	12.00 ± 7%	drops off approx.20% (Typ.)	1.660 (Typ.)	1.360 (Typ.)	
1	2.290	11.980	1.846	1.697	1.355	
2	2.310	11.920	1.862	1.712	1.366	
3	2.420	12.030	1.951	1.793	1.431	
4	2.130	12.050	1.717	1.578	1.260	
5	2.390	12.010	1.926	1.771	1.414	
6						
7						
8						
9						
10						
AVERAGE	2.3080	11.9980	1.8602	1.7102	1.3652	

REMARK:

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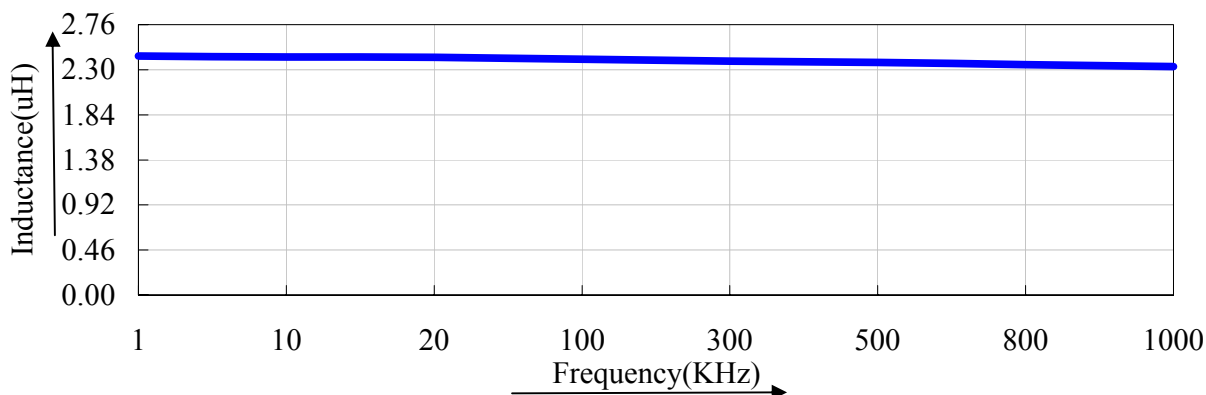
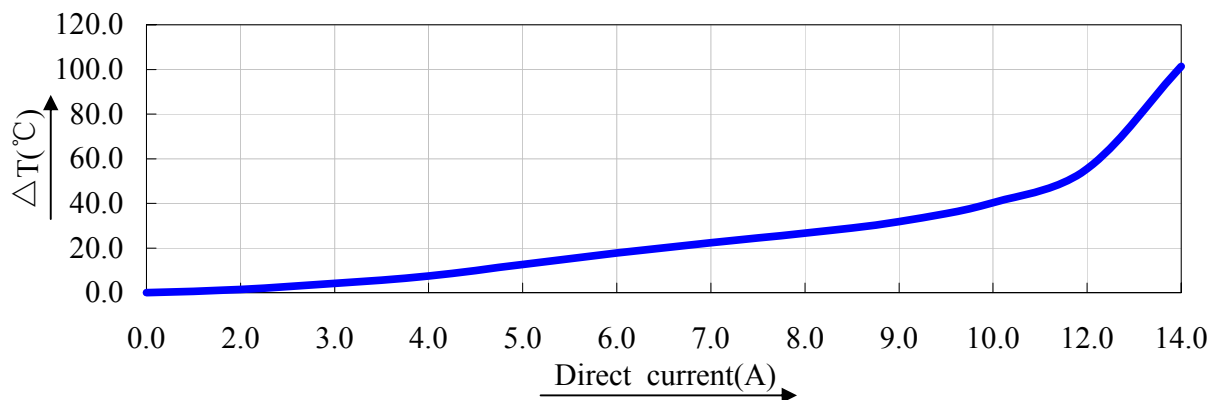
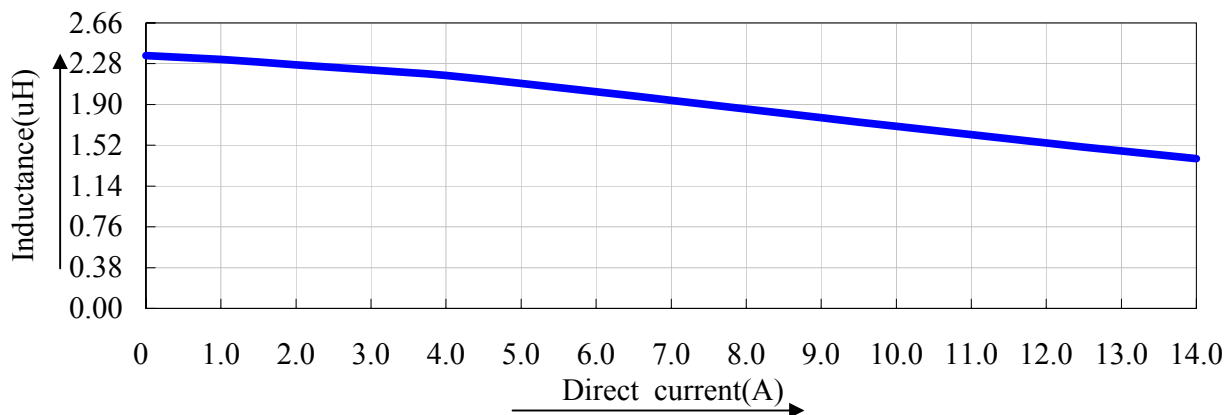


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8. ELECTRIC CHARACTERISTICS.



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