

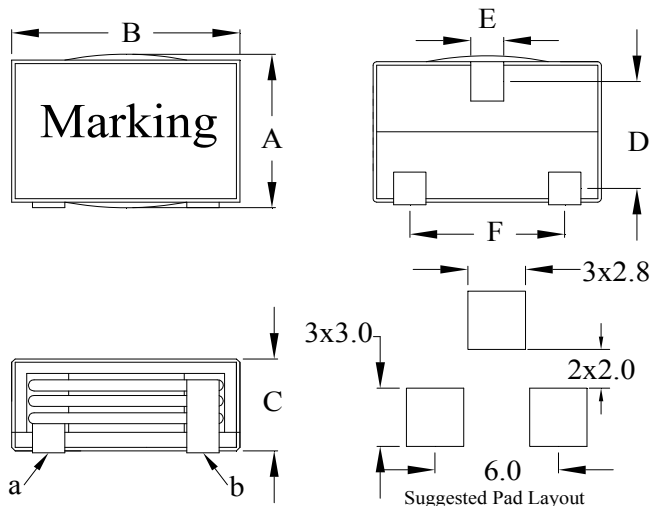


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Power Inductor, 1.5uH, 17.0A, 2.48mΩ DCR	PAGE NO	1 of 4
PART NO	SQ4121-1R5MHF	DATE	2012.08.31

1. CONFIGURATIONS & DIMENSIONS:



A	9.00	(Max.)	mm
B	10.50	(Max.)	mm
C	5.35	(Max.)	mm
D	4.80	(Ref.)	mm
E	1.70	(Ref.)	mm
F	6.00	(Ref.)	mm
G			mm
H			mm
I			mm

MARKING: 1R5
YYWW

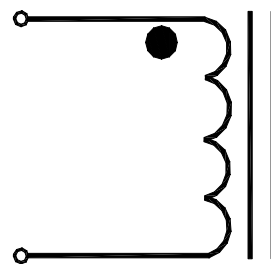
YY: Year, WW: Week.

2. ELECTRICAL CHARACTERISTICS:

TEST	CONDITION				
100KHz	0.1V	L	1.5	uH	± 20%
Ta=25°C		DCR	2.48	mΩ	(Max.)
100KHz	0.1V Isat=16.0A	L@Isat	0.80	uH	(Min.)
100KHz	0.1V Irms=17.0A	L@Irms	1.02	uH	(Typ.)
Note	1.Isat: DC current that will cause inductance to drop approx. 20%(Typ.); 2.Irms: DC current will caused an approx. temperature of 40°C rise (Typ.);				

Operating temperature range : -55°C ~ +130°C

3. SCHEMATIC DIAGRAM



Note: 1. 1.8*0.5*4.1*4.75Ts (Ref.);

4. TEST INSTRUMENTS

L: WK3260B.

DCR: Gain Kai Ta 502BCOHM.

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

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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	9.00 (Max.)	10.50 (Max.)	5.35 (Max.)	4.80 (Ref.)	1.70 (Ref.)	6.00 (Ref.)				
1	8.32	10.26	5.22	4.85	1.81	6.17				
2	8.36	10.25	5.18	4.82	1.79	6.06				
3	8.34	10.24	5.20	4.86	1.77	5.98				
4	8.35	10.23	5.14	4.84	1.80	6.02				
5	8.30	10.26	5.16	4.82	1.82	5.96				
6										
7										
8										
9										
10										
AVERAGE	8.334	10.248	5.180	4.838	1.798	6.038				

REMARK:

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PART NO	SQ4121-1R5MHF	DATE	2012.08.31

6.TEST DATA FOR ELECTRICAL

TEST ITEM	L uH	DCR mΩ	L@Isat uH	L@Irms uH			
CONDITION	100KHz 0.1V	at 25℃	100KHz 0.1V Isat=16.0A	100KHz 0.1V Irms=17.0A			
SPEC	1.50 ± 20%	2.48 (Max.)	0.80 (Min.)	1.02 (Typ.)			
1	1.42	2.09	1.00	0.971			
2	1.41	2.08	0.99	0.964			
3	1.42	2.07	1.00	0.971			
4	1.36	2.09	0.96	0.930			
5	1.38	2.10	0.98	0.944			
6							
7							
8							
9							
10							
AVERAGE	1.398	2.086	0.986	0.956			

REMARK:

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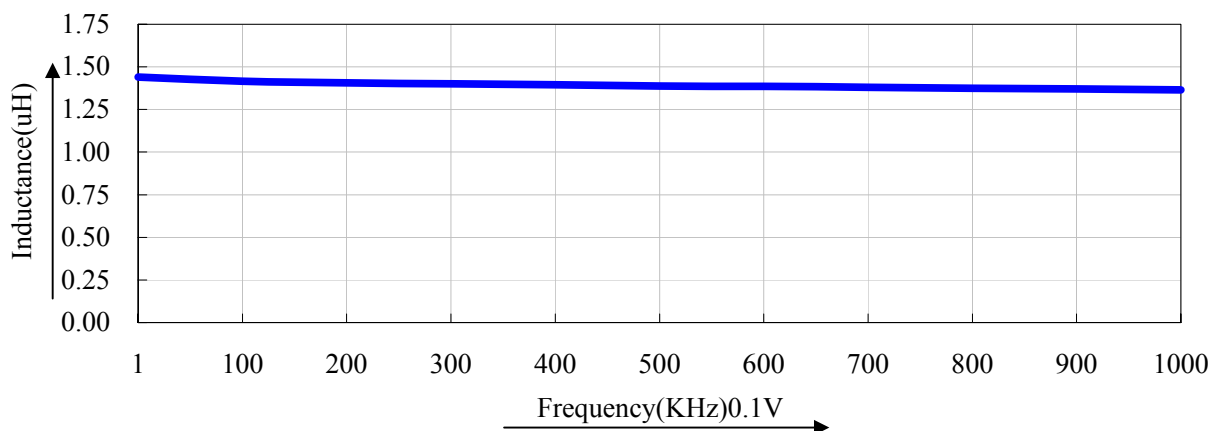
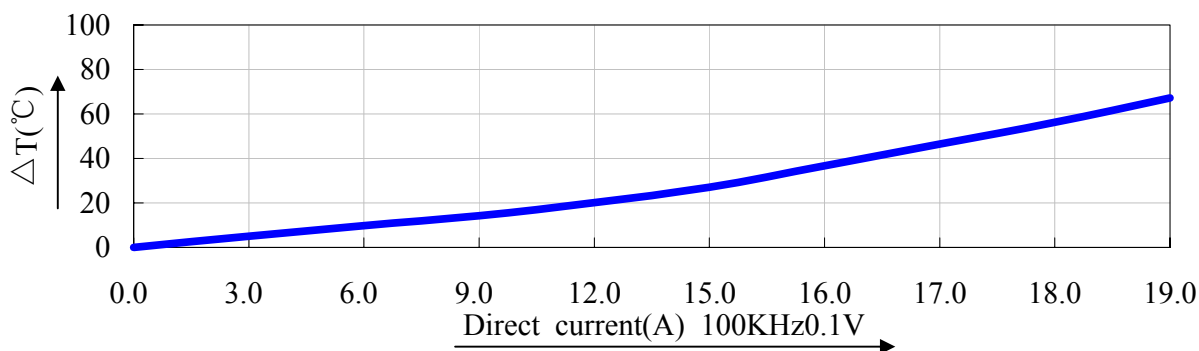
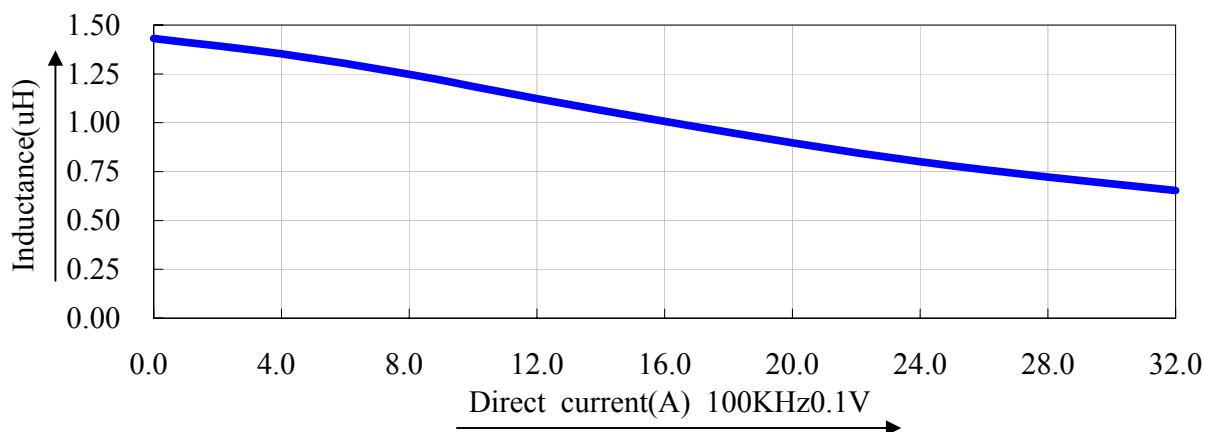


SPECIFICATION FOR APPROVAL



CUSTOMER NAME:	*	REV NO:	1.0
DESCRIPTION:	Power Inductor, 1.5uH, 17.0A, 2.48mΩ DCR	PAGE NO:	4 of 4
PART NO:	SQ4121-1R5MHF	DATE:	2012.08.31

8.ELECTRIC CHARACTERISTICS.



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