

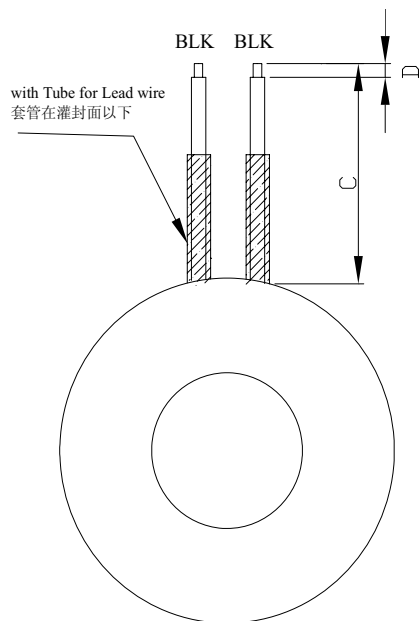


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Inductor , 1.5mH , 20A , 35mΩ DCR	PAGE NO	1 of 4
PART NO	L30431-1P	DATE	2011.10.25

1.CONFIGURATIONS & DIMENSIONS:



A	112.0	(Max.)	mm
B	78.0	(Max.)	mm
C	200.0	± 10	mm
D	10.0	(Ref.)	mm
E			mm
F			mm
G			mm

Note: Accessories

1.IRON CAN : 108mm × 75mm × 1PCS

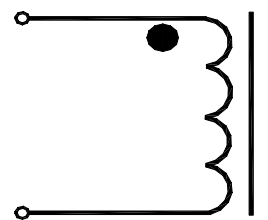
2.Leade wire:UL1015 AWG10

2.ELECTRICAL CHARACTERISTICS:

TEST	CONDITION					
10KHz 0.25V	L	1.50	mH	±	15%	
Ta=25°C	DCR	35.0	mΩ		(Max.)	
10KHz 0.25V Isat=20A	L@Isat	1.02	mH		(Typ)	

Note : Isat: the current will caused the inductance drops approx. 35% and temperature rise approx. 20°C

3.SCHEMATIC DIAGRAM



Note: 1. Wire UEW/PEW(155C)

4.TEST INSTRUMENTS

L: WK3260A

DCR:GAIN KAI TA502BCOHM

L@Isat :WK3260B and WK3265B.

APPROVED BY	CHECKED BY	DRAWN BY
Andrew.Zhu	David.Wang	David.Wang



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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 0	J mm
SPEC	112 (Max)	78 (Max)	200 ± 10	10.0 (Ref.)						
1	108.28	75.35	19.86	9.96						
2	108.12	75.66	19.89	10.02						
3	108.23	75.69	19.95	10.12						
4	108.22	75.65	20.05	9.96						
5										
6										
7										
8										
9										
10										
AVERAGE	108.21	75.59	19.94	10.02						

REMARK:

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David.Wang

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6.TEST DATA FOR ELECTRICAL

TEST ITEM	L mH	DCR mΩ	L@Isat mH						
CONDITION	10KHz 0.25V	Ta=25℃	10KHz 0.25V Isat=20A						
SPEC	1.50 ± 15%	35.00 (MAX)	1.02 (Min.)						
1	1.50	28.83	1.08						
2	1.50	28.88	1.09						
3	1.50	28.74	1.10						
4	1.51	28.82	1.09						
5									
6									
7									
8									
9									
10									
AVERAGE	1.503	28.818	1.090						

REMARK:

APPROVED BY Andrew.Zhu	CHECKED BY David.Wang	DRAWN BY David.Wang
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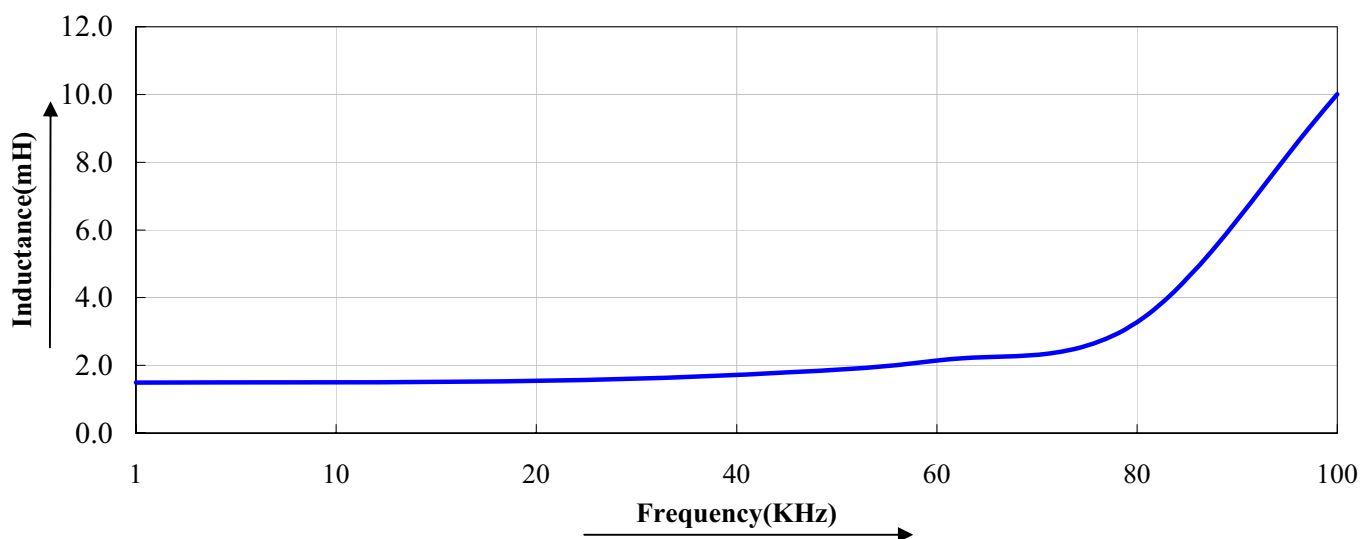
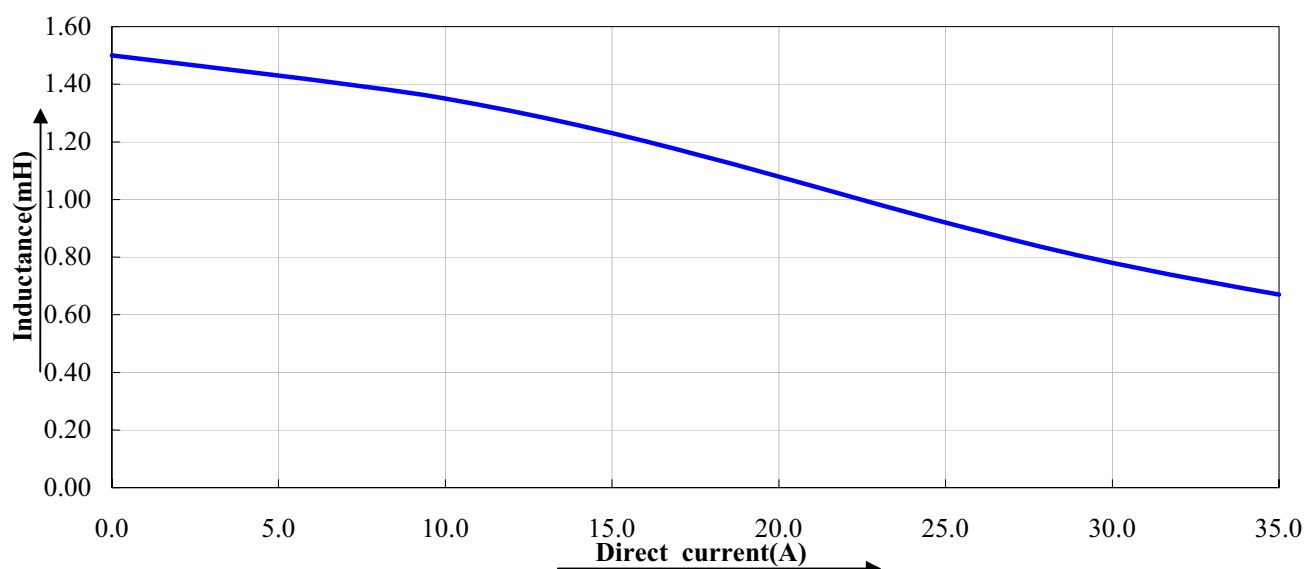
SPECIFICATION FOR APPROVAL



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DESCRIPTION	Inductor , 1.5mH , 20A , 35mΩ DCR	PAGE NO	4 of 4
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7.ELECTRIC CHARACTERISTICS.

DC BIAS < 10KHz 0.25V >



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