

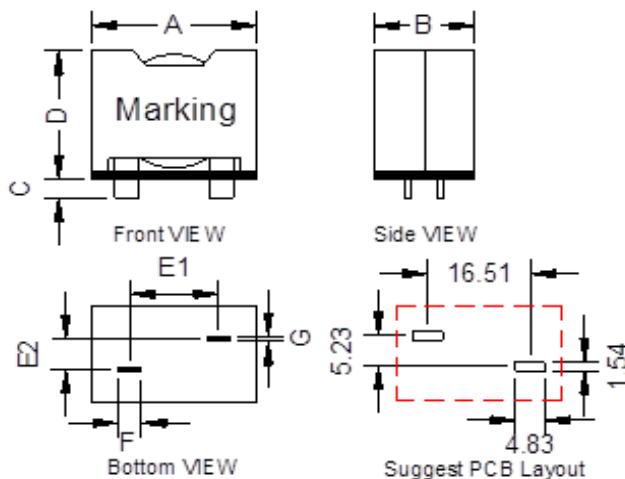


SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Power Inductor, 6.80uH, 56.0A, 2.6mΩ DCR	PAGE NO	1 of 3
PART NO	L30927-3	DATE	2013.08.01

1.CONFIGURATIONS & DIMENSIONS:



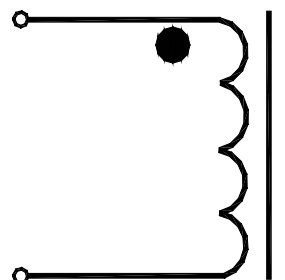
A	26.92	±	0.51	mm
B	16.46	±	0.51	mm
C	3.30	±	0.50	mm
D	22.23	±	0.51	mm
E1	16.51	±	1.00	mm
E2	5.23	±	0.50	mm
F	3.80		(Ref.)	mm
G	0.76		(Ref.)	mm
H				mm

MARKING: L30927-3
YY WW YY:Year ,WW:Week .

2.ELECTRICAL CHARACTERISTICS:

TEST	CONDITION				
300KHz 0.1V	L	6.80	uH	±	10%
Ta=25°C	DCR	2.60	mΩ		(Max.)
300KHz 0.1V Isat1=48A at 25°C	L@Isat1	6.25	uH		(Typ.)
300KHz 0.1V Isat2=53A at 25°C	L@Isat2	5.60	uH		(Typ.)
300KHz 0.1V Isat3=56A at 25°C	L@Isat3	4.80	uH		(Typ.)
300KHz 0.1V Irms1=19.0A	L@Irms1	6.70	uH		(Typ.)
300KHz 0.1V Irms2=26.0A	L@Irms2	6.50	uH		(Typ.)
	SRF	25.00	MHz		(Typ.)

3.SCHEMATIC DIAGRAM



Note:

Note
1.Isat1: DC current that will cause inductance to drop approx. 10%(Typ.);
Isat2: DC current that will cause inductance to drop approx. 20%(Typ.);
Isat3: DC current that will cause inductance to drop approx. 30%(Typ.);
2.Irms1:DC current will caused an approx. temperature of 20°C rise (Typ.) ;
Irms2:DC current will caused an approx. temperature of 40°C rise (Typ.) ;

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

4.TEST INSTRUMENTS

L:WK3260B.

DCR:Gain Kai Ta 502BCOHM.

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

APPROVED BY	CHECKED BY	DRAWN BY
Richard Wen	Royi Luo	Ferguson Yuan



SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Power Inductor,6.80uH,56.0A,2.6mΩ DCR	PAGE NO	2 of 3
PART NO	L30927-3	DATE	2013.08.01

5.TEST DATA FOR MECHANICAL

TEST ITEM	A mm	B mm	C mm	D mm	E1 mm	E2 mm	F mm	G mm	H mm	I mm
SPEC	26.92 ± 0.51	16.46 ± 0.51	3.30 ± 0.50	22.23 ± 0.51	16.51 ± 1.00	5.23 ± 0.50	3.80 (Ref.)	0.76 (Ref.)		
1	26.81	16.27	3.10	21.84	15.80	5.53	3.76	0.77		
2	26.82	16.27	3.18	21.80	15.95	5.46	3.75	0.78		
3	26.85	16.25	3.13	21.82	16.02	5.38	3.73	0.76		
4	26.80	16.30	3.25	21.85	16.11	5.41	3.78	0.75		
5	26.83	16.25	3.22	21.84	15.98	5.49	3.75	0.76		
6										
7										
8										
9										
10										
AVERAGE	26.822	16.268	3.176	21.830	15.972	5.454	3.754	0.764		

REMARK:

APPROVED BY

Richard Wen

CHECKED BY

Royi Luo

DRAWN BY

Ferguson Yuan



SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	1.0
DESCRIPTION	Power Inductor,6.80uH,56.0A,2.6mΩ DCR	PAGE NO	3 of 3
PART NO	L30927-3	DATE	2013.08.01

6.TEST DATA FOR ELECTRICAL

TEST ITEM	L uH	DCR mΩ	L@Isat1 uH	L@Isat2 uH	L@Isat3 uH	L@Irms1 uH	L@Irms2 uH
CONDITION	300KHz 0.1V	at 25°C	300KHz 0.1V Isat1=48A at 25°C	300KHz 0.1V Isat2=53A at 25°C	300KHz 0.1V Isat3=56A at 25°C	300KHz 0.1V Irms1=19.0A	300KHz 0.1V Irms2=26.0A
SPEC	6.80 ± 10%	2.60 (Max.)	6.25 (Typ.)	5.60 (Typ.)	4.80 (Typ.)	6.70 (Typ.)	6.50 (Typ.)
1	6.850	2.292	6.302	5.617	4.829	6.782	6.521
2	6.830	2.291	6.284	5.601	4.815	6.762	6.502
3	6.770	2.291	6.228	5.551	4.773	6.702	6.445
4	6.840	2.286	6.293	5.609	4.822	6.772	6.512
5	6.870	2.289	6.320	5.633	4.843	6.801	6.540
6							
7							
8							
9							
10							
AVERAGE	6.8320	2.2898	6.2854	5.6022	4.8166	6.7637	6.5041

REMARK:

APPROVED BY Royi Luo	CHECKED BY Royi Luo	DRAWN BY Ferguson Yuan
--------------------------------	-------------------------------	----------------------------------