FANGCHENG ELECTRON
FANGCHENG ELECTRONICS (DONGGUAN) CO., LTD.

方成电子（东莞）有限公司

Fang cheng Electronics(Dong guan) Co,LTD

SPECIFICATION FOR APPROVAL

CUSTOMER:
Part Number : 输出共模滤波电感
CUSTOMER Number: Common Mode Power line Choke
CUSTOMER Part :
Fangcheng part : FC-DLF1010-750B-LF
DATE: 2022-11-7
REV: 01

RoHS COMPLIANT

Confidential

made in fangcheng:

prepad	checd	Approd
黄敏	刘凡	陈丽萍

CUSTOMER APPROD:

prepad	checd	Approd

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Description of Revision

REV	Description of Revision	DATE	Prepad	Notes
01	Initial Release	2022.11.7	zhangli	

Prepad	Checd	Approd
zhangli	Yi-pen	David-yuan

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Notice of Use

For the parameters not prescribed in the *Specification for Approval*, please refer to the following standards or the relative industry standards.

1. Product in packing storage condition : temperature 540, RH70%.

2.A storage of - *F C* -Electronic productsfor longer than 12 months is not recommended,Within other effects, the terminals may suffer degradation, resulting in bad solderability.Therefore, all products shall be used within the period of 12 months based on the day of shipment.

3. Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.

4 Always handle products with care.

5 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.

6 When this product will be used on a similar or new project to the original one, sometimes it might be unable to satisfy the specifications due to different condition of usage.

7 This inductor itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc., or use in abnormal conditions protective devicesor protection circuit in the end product.

8 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.

IPC 020D Joint Industry standard

IEC1007 《Transformer and inductors for use in electronic and telecommunication equipment—Measuring methods and test procedures》

(ROHS or other environmental request)

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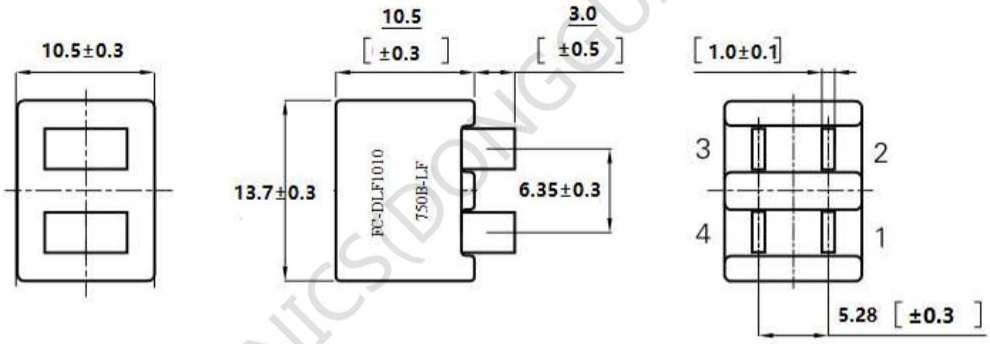
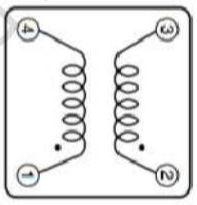
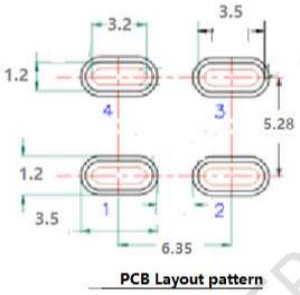
1. Appearance and Dimensions(mm)



2. Schematic：





PCB Layout pattern

3. Application

1. Suitable for common noise reduction of DC Line.

适用于直流输出线路EMI

2.Common mode noise filter for broadband transmission or communication equipment

2. 宽频传输或通信设备的共模噪声滤波器.

Application Fig

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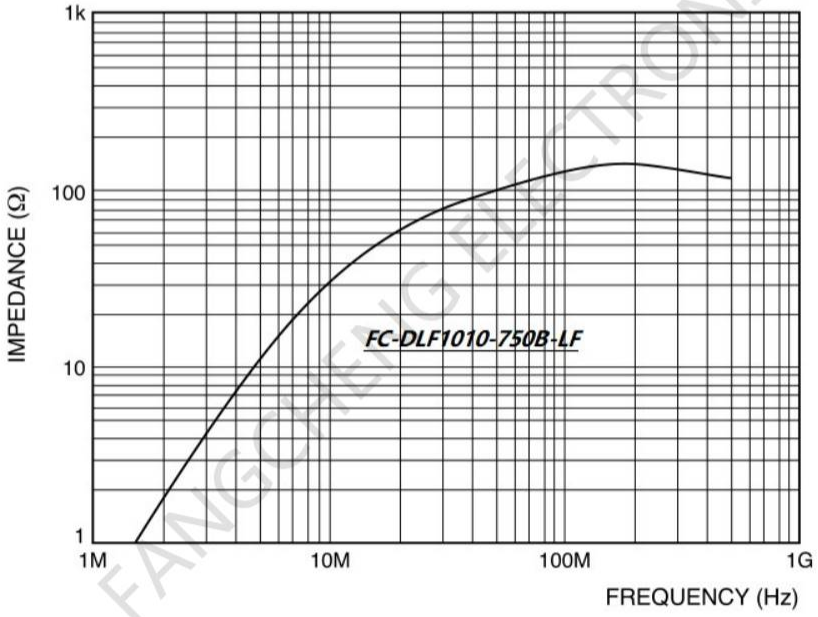
4. Electrical Characteristics：

NO 序号	PARAMETER 参数	TERMINAL 脚位	SPCIFICATION 规格	TEST INSTERUMENTS 测试设备
1	INDUCTANCE 电感量	L=(1－4) L=(2－3)	0.5uH-typ	100KHz,0.3V WK3260 CHROMA 3250 or EQUAL
2	Impedance 高频阻抗	Z=(1－4) L=(2－3)	75Ω/min 120Ω/typ	@100MHZ
3	Rated Current 工作电流	I=(1－4) I=(2－3)	38.0A/typ	WK3260B
4	DCR	R=(1－4) R=(2－3)	0.3mΩ Max	CH502AC 25°C
5	HI-POT	初级-次级	AC 3750V	50Hz3mA 5Sec CHROMA 19053 OR EQUAL
		绕组-磁芯	AC 3750V	
6	INSULATION RESISTANCE	绕组-绕组	100MΩ 500VDC	CHROMA 19053 DC500V
		绕组-磁芯	100MΩ 500VDC	

Low Primary DCR version
Ambient temperature –40° C to +85° C
Storage temperature Component: –40° C to +125° C

5. Impedance characteristics：



Application Fig

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6. Reliability and test condition：

Test item	test condition	Remark
Cold Operating Test	GB2423.1 Ad	
Heat Operating Test	GB2423.2 Bd	
Cold Storage Test	GB2423.1 Ab	
Heat Storage Test	GB2423.2 Bb	
Steady Damp Heat Test	GB2423.3 Cb	
Circular Damp Heat Test	GB2423.4 Db	
Temperature Cycling Test	GB2423.22 Nb	
Temperature Shock Test	GB2423.22 Na	
Vibration Test	GB2423.10~15 Fc, Fdb	
Mechanical Shock Test(Bump)	GB2423.5 Eb	
Free Fall Test	GB2423.8 Ed	
Solderability	GJB360A-96	
High Temperature Step Stress Test	Enhancement Test Specifications	
Low Temperature Step Stress Test		
High-speed Thermal Cycling		
Limit Vibration		
Composite Stress		
Highly-Accelerated Temperature and Humidity Stress Test(HAST)(		

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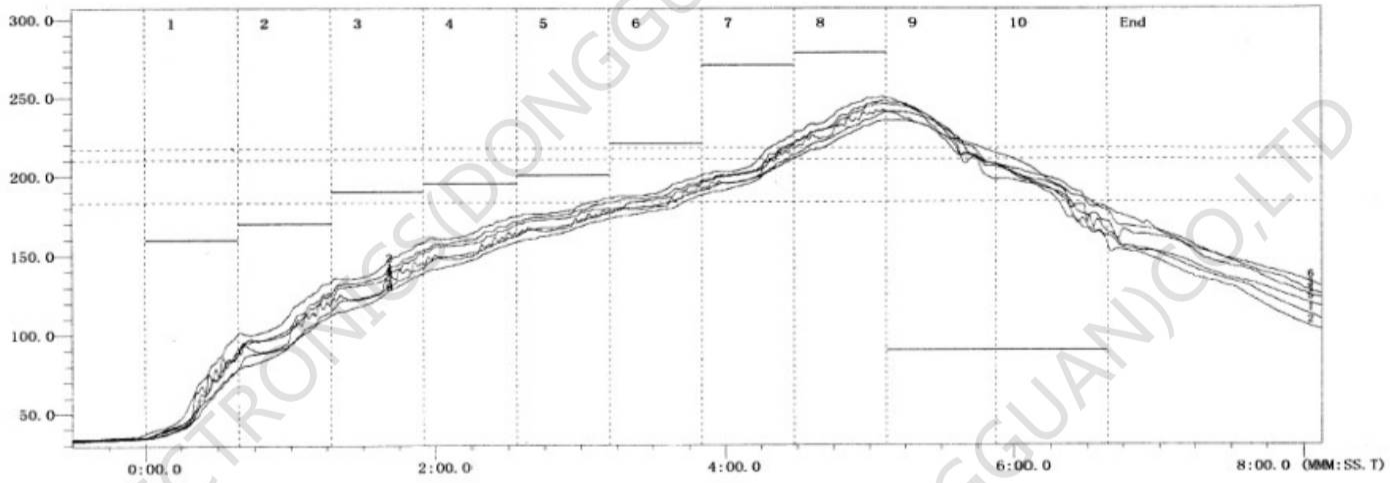
7. Soldering Specification：

7. 1 R eflow P rofile f or C omponents.



7.2 波峰焊温度:255℃±5℃;时间:不少于 7 秒.
波峰焊预热温度:100 至 160℃;时间:不少于 10 秒.

7.3 高温耐热性：
在 260℃的熔融钎料中，停留时间不少于 10 秒，无质量问题。

7.4 返修温度和时间：
温度：350°C；时间：不少于 5 秒。

7.5 焊接次数：
元器件能承受的焊接次数不少于 5 次。

8.1 包装:
1)包装箱上应标明产品型号、名称、数量、出厂日期、承制方名称及出厂检验章；
2)货物运达客户方后，包装箱封条应完好，箱体无破损、开裂等现象；
3)电感用木箱或其他材料包装，方便拆卸，四周用软性材料填充；

8.2 外观:
1)产品应有合格证和耐擦防水洗标签，应注明型号、规格；
2)产品外观整洁，应无破损、划伤；

8.3 检验:
1)产品生产中必须全数进行电气性能，抗电强度检测；箱内应有 100%电气性能合格保证书或检测报告；
2)产品出货前按批次，必须根据承认书按国家行业标准进行抽样检验，合格后出具出厂检验报告，记录抽样测试数据，在每批次包装尾箱中放置一份；检验报告须注明 100％耐压测试合格。注：批次按定单号发货为准

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