



产品承认书

SPECIFICATION FOR APPROVED

客户 : 2376
 Customer : _____
 客户料号 : C354676
 Customer P/N : _____
 品名 : AXIAL FIXED INDUCTOR
 Description : _____
 产品型号 : CKL0510*1.5mH/K-A
 Cenker P/N : _____
 图纸编号 : SP-CK112-GXA10619
 Drawing No. : _____
 版本 : A0
 Rev. No. : _____

出图 DRAWING		
制图 Prepared By	审核 Checked By	批准 Approved By
覃玉云	韦秀华	黄小东
DATE: 2023/7/3		

客户承认 CUSTOMER APPROVAL
DATE:



岑科科技(深圳)集团有限公司

SHENZHEN CENKER TECHNOLOGY GROUP CO., LTD.

地址:深圳市龙华区大浪街道恒大时尚慧谷6栋A区11楼

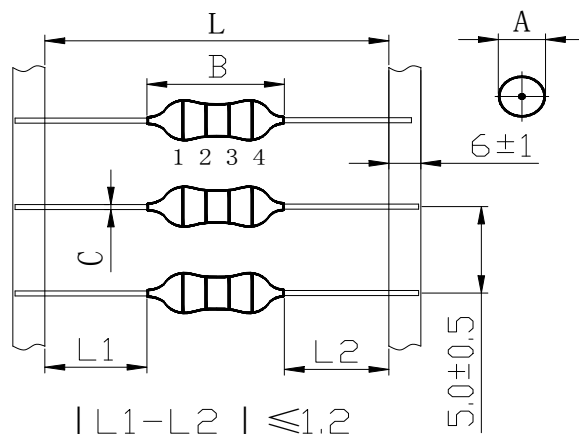
Address:Floor 11,Building 6A,Evergrande Shishang
Huigu Building,Longhua District,Shenzhen

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SPECIFICATION FOR APPROVAL

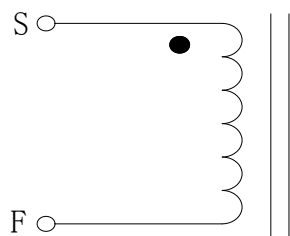
Center P/N	CKL0510*1.5mH/K-A	Drawing No.	SP-CK112-GXA10619	Page	1/7
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1、 DIMENSION (mm)



A	B	C	L	1	2	3	4
5.0Max	11.0Max	$\varnothing 0.55 \pm 0.05$	52.4 ± 1.5	BROWN	GREEN	RED	SILVER

2、 SCHEMATIC



3、 PRODUCT IDENTIFICATION

CKL	0510	1.5mH	K	A
①	②	③	④	⑤

- ① Series Name
- ② External Dimensions
- ③ Nominal Inductance
- ④ Inductance Tolerance
- ⑤ Pin

4、 TEMPERATURE RATING

Operating Temperature : $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (Including self - temperature rise)
 Storage Temperature : $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$

SPECIFICATION FOR APPROVAL

Cenker P/N

CKL0510*1.5mH/K-A

Drawing No.

SP-CK112-GXA10619

Page 2/7

5、 ELECTRICAL REQUIREMENTS

ITEM	SPEC.		TEST CONDITION	TEST EQUIPMENT
INDUCTANCE	1.5mH	±10%	1kHz/0.25V	HP-4284A(CD1063)
Q Value	50	Min	0.252MHz/1V	HP-4285A
DCR	12Ω	Max	At 25°C	CH-502A
Rated Current	80mA	L0A*80% Ref.	at 25°C,1kHz/0.25V	CD1068&CD1320

6、 MATERIAL LIST

No.	Material	Specification	Supplier	Remark
1	Core	DRWW4.0*6.0	NAN NING JINGWEI ELECTRONICS CO., LTD.	N/A
		DRWW4.0*6.0	SUNRISE FERRITE CORES ELECTRONIC CO.,LTD.	
2	Solder	99.9% (Sn99.9)	HuiZhou Chang Sheng METAL PRODUCTS CO.,LTD	N/A
3	Pin	CP Ø0.55mm	SHENZHEN CENKER TECHNOLOGY GROUP CO., LTD.	N/A
4	Wire	Φ 0.08mm*308.5T s Ref (2UEW)	DONG GUAN YI DA INDUSTRIAL CO.,LTD	E344055
			Shangrao Tongchuang Magnet Wire Co.,Ltd.	E523730
5	Under-Coating Resin	EPOXY RESIN	HOME TOWN INDUSTRIAL CO.LTD	N/A
6	Over-Coating Resin	EPOXY RESIN	HOME TOWN INDUSTRIAL CO.LTD	N/A
7	Color-Coating Resin	MELAMINE RESIN	HOME TOWN INDUSTRIAL CO.LTD	N/A
8	Glue	J-603	SHENZHEN CENKER TECHNOLOGY GROUP CO., LTD.	N/A

样品单重: 0.45g

SPECIFICATION FOR APPROVAL

Cenker P/N	CKL0510*1.5mH/K-A	Drawing No.	SP-CK112-GXA10619	Page	3/7
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7、ELECTRONICAL TEST DATA

	INDUCTANCE	DCR	Q Value							
No	1.5mH ±10%	12Ω Max	50 Min							
1	1.43	9.12	81							
2	1.42	8.64	83							
3	1.45	8.86	83							
4	1.46	8.87	81							
5	1.48	8.79	82							
6	1.47	9.06	83							
7	1.43	8.95	81							
8	1.42	8.99	82							
9	1.46	8.64	83							
10	1.42	8.84	81							
X	1.44	8.88	82							
R	0.06	0.48	2							

All judge OK NG

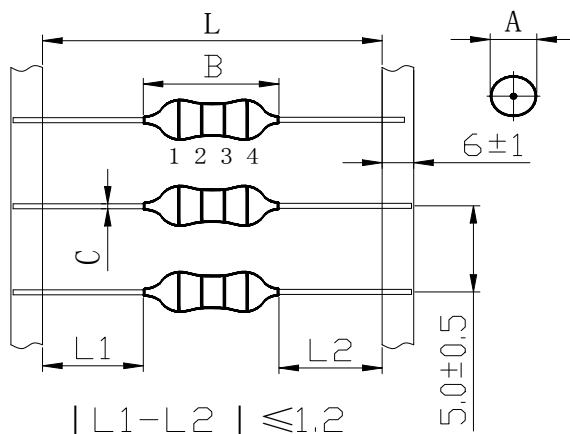
SPECIFICATION FOR APPROVAL

Center P/N	CKL0510*1.5mH/K-A	Drawing No.	SP-CK112-GXA10619	Page	4/7
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8、OREALL DIMENSTON

	A	B	C	L						
No	5.0Max	11.0Max	$\varnothing 0.55 \pm 0.05$	52.4 ± 1.5						
1	4.44	8.63	0.55	52.45						
2	4.43	8.75	0.55	52.68						
3	4.40	8.52	0.55	52.54						
4	4.40	8.60	0.54	52.36						
5	4.39	8.74	0.54	52.39						
6	4.48	8.56	0.54	52.53						
7	4.48	8.65	0.55	52.44						
8	4.45	8.49	0.55	52.51						
9	4.48	8.69	0.54	52.51						
10	4.45	8.73	0.55	52.44						
X	4.44	8.64	0.55	52.49						
R	0.09	0.26	0.01	0.32						

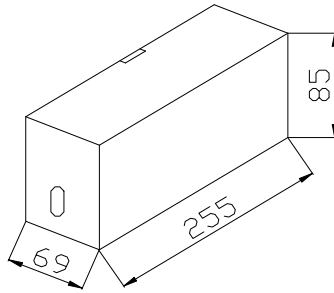
All judge OK NG



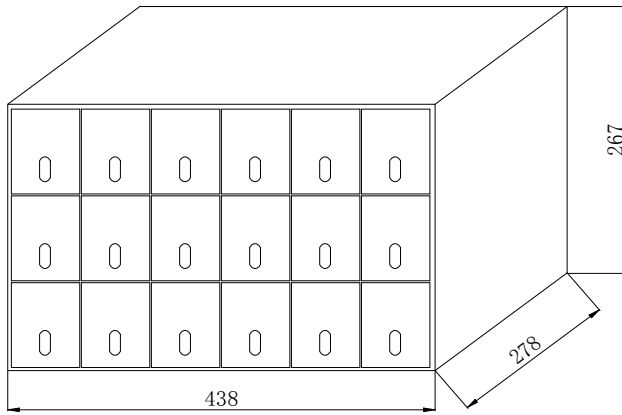
SPECIFICATION FOR APPROVAL

Cenker P/N	CKL0510*1.5mH/K-A	Drawing No.	SP-CK112-GXA10619	Page	5/7
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9、PACKAGE



Quantity: 1,000 Pcs/Box



Quantity: 18,000 Pcs/Carton

SPECIFICATION FOR APPROVAL

Cenker P/N

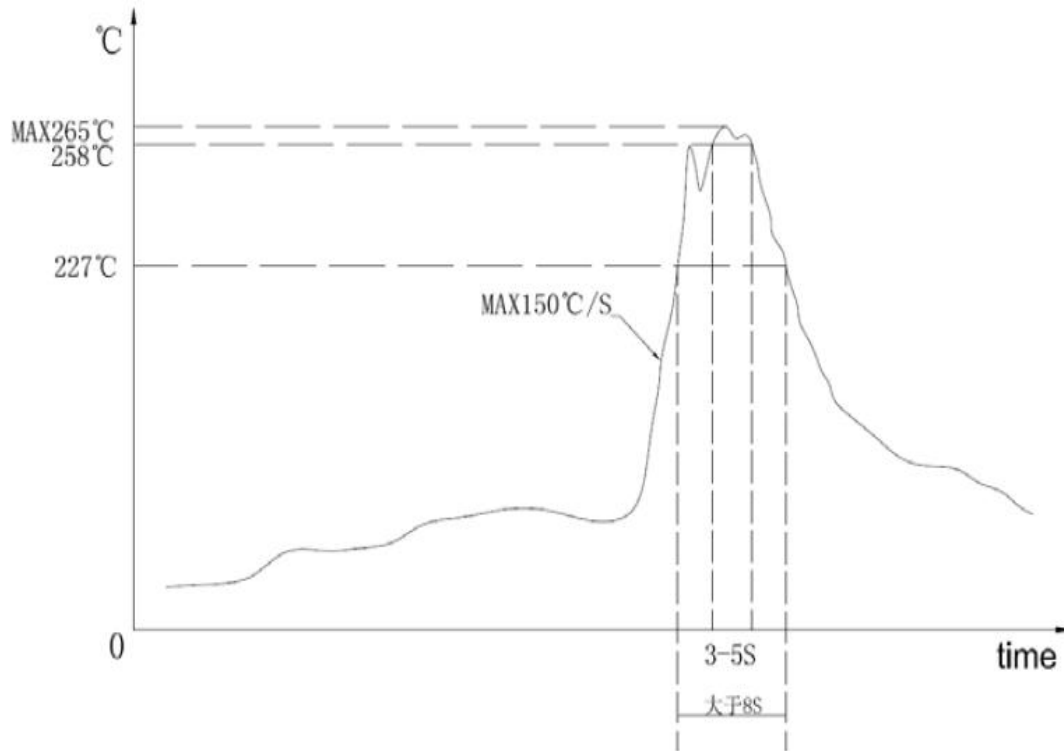
CKL0510*1.5mH/K-A

Drawing No.

SP-CK112-GXA10619

Page 6/7

10、 Wave soldering curve



SPECIFICATION FOR APPROVAL

Center P/N	CKL0510*1.5mH/K-A	Drawing No.	SP-CK112-GXA10619	Page	7/7
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11、RELIABILITY

No.	Test Item 测试项目	Test condition 测试条件	Requirements 要求
1	Lead Terminal strength 端子强度试验	A Static pulling force of 10N In a direction parallel to the terminals for 5 Seconds. 施加推拉力10牛顿，时间为5秒。	No terminal breakage or loosening 未出现电极损坏或脱落现象
2	Solderability test 可焊性试验	①Solder temperature:245±5℃,flux 5s. ②Sample immersion tin furnace 5±0.5s. ①粘助焊剂5s,锡温度245±5℃. ②样品浸入锡液5±0.5s.	①No visible mechanical damage. ②Terminal area have 90% min. solder coverage. ①外观无明显损坏. ②端子有90%以上的新锡覆盖.
3	Resistance to soldering heat test 耐焊性试验	Fix samples on 1.6mm thickness PCB,then dip the sample leads into a soldering bath of 270±5℃ up to the PCB for 10±1 seconds. 将产品固定在1.6mm的PCB板上,放入锡炉中,温度270±5℃，时间10±1s。	①No visible mechanical damage. ②Inductance change Within ±10%. ①外观无明显损坏. ②电感值变化在±10%内.
4	Humidity test 湿度试验	①Temperature: 60±2℃. ②Humidity: 90%~95% RH. ③Duration: 96 hours. ④Measurement at after 24 hours test conclusion. ①温度: 60±2℃，②湿度: 90%~95% RH. ③试验时间: 96小时. ④放置24小时后测试.	①No visible mechanical damage. ②Inductance change Within ±10%. ①外观无明显损坏. ②电感值变化在±10%内.
5	High temperature storage test 高温储存试验	①Temperature: 85±2℃. ②Duration: 96 hours. ③Measurement at after 24 hours test conclusion. ①温度: 85±2℃. ②试验时间: 96小时. ③放置24小时后测试.	①No visible mechanical damage. ②Inductance change Within ±10%. ①外观无明显损坏. ②电感值变化在±10%内.
6	Low temperature storage test 低温储存试验	①Temperature: -25±2℃. ②Duration: 96 hours. ③Measurement at after 24 hours test conclusion. ①温度: -25±2℃. ②试验时间: 96小时. ③放置24小时后测试.	①No visible mechanical damage. ②Inductance change Within ±10%. ①外观无明显损坏. ②电感值变化在±10%内.
7	Thermal shock test 冷热冲击试验	①Temperature -25±2℃ 30 minutes → 85±2℃ 30 minutes as 1 cycle, Total 100 cycles. ②Transforming interval: 20 sec max. ③Measurement at after 24 hours test conclusion. ①温度-25±2℃保温30分钟 → 85±2℃保温30分钟作为1个循环,共100个循环. ②温度转换间隔最大20秒. ③放置24小时后测试.	①No visible mechanical damage. ②Inductance change Within ±10%. ①外观无明显损坏. ②电感值变化在±10%内.
8	Vibration test 振动试验	Frequency: 10~55Hz, Amplitude 1.5mm,Sweep time & duration 10~55~10Hz for 1 minute,Each 2 hours in X,Y,Z direction,total 6 hours. 用10~55Hz振动频率,振幅1.5mm,X,Y,Z方向各振动2小时,共6小时.	①No visible mechanical damage. ②Inductance change Within ±10%. ①外观无明显损坏. ②电感值变化在±10%内.



使用注意事项 Matters needing attention



1. 在设计PCB时, 请考虑非磁屏蔽元器件的安装位置, 避免磁干扰引起的故障.
1. When designing the PCB, please consider the installation position of the non-magnetic shielded components to avoid failures caused by magnetic interference.
2. 请勿将本产品靠近磁铁或带有磁力的物体.
2. Do not place this product near magnets or objects with magnetic force.
3. 请勿将产品保存在高温、高湿、有灰尘、腐蚀环境 (盐、酸、碱等) 等不适合环境中.
3. Do not store the product in unsuitable environments such as high temperature, high humidity, dusty, corrosive environments (salt, acid, alkali, etc.).
4. 产品会因通电而自我发热 (温度上升), 在热设计方面需留有充分余量.
4. The product will self-heat (temperature rise) due to power-on, and sufficient margin should be left in thermal design.
5. 由于人体所带的静电会传到接地线上, 因此请使用防静电腕带.
5. Since the static electricity carried by the human body will be transmitted to the ground wire, please use an anti-static wrist strap.
6. 人体手上有油脂可能导致可焊性下降. 请避免手直接接触端子.
6. Grease on human hands may lead to decreased solderability. Please avoid direct contact with the terminals.
7. 端子过度弯曲会导致断线, 请不要过度弯曲端子.
7. Excessive bending of the terminal will lead to disconnection, please do not bend the terminal excessively.
8. 产品对直接冲击很敏感, 冲击可能导致产品磁芯损伤及破损.
8. The product is very sensitive to direct impact, the impact may cause damage and breakage of the product's magnetic core.
9. 在客户使用时, 如果产品被灌封或胶固定, 必须注意:
9. When the customer uses, if the product is potted or glued, it must be noted:
 - 大部分灌封材料在硬化时都会收缩, 因此对塑胶骨架或磁芯有施加应力, 这种应力作用可以给电气特性带来负面影响, 极端情况下可能损坏磁芯或塑胶骨架的机械性能.
 - Most potting materials will shrink when hardened, so there is a stress on the plastic skeleton or magnetic core, This stress action can negatively affect the electrical properties and in extreme cases can damage the mechanical properties of the magnetic core or plastic skeleton.
 - 必须检查使用灌封材料是否会导致漆包线的绝缘层, 塑胶骨架或胶水的性能降低甚至损坏.
 - It must be checked whether the use of potting materials will cause the insulation layer of the enameled wire, the performance of the plastic skeleton or the glue to be degraded or even damaged.
 - 灌封材料的影响可以改变磁性元器件的高频特性.
 - The effect of potting material can change the high frequency characteristics of magnetic components.



使用注意事项 Matters needing attention



10. 对于合金或非涂层产品,如果将产品长期放置在潮湿的环境中,产品的表面可能会生锈,但不会影响产品的特性.
10. For alloy or non-coated products, if the product is placed in a humid environment for a long time, the surface of the product may rust, But it will not affect the characteristics of the product.
11. 本产品是指在通用标准上用于影音娱乐,家电,计算机,办公自动化,通讯,电源模块,LED照明,测量设备,机械工具,工业控制板等一般电子设备中. 并且该一般电子设备要在通常的操作和使用方法下使用。
11. This product refers to the general standard used in audio-visual entertainment, home appliances, computers, office automation, communications, power modules, LED lighting, measuring equipment, Machine tools, industrial control panels and other general electronic equipment. And the general electronic equipment should be used under the usual operation and usage methods.
12. 当本产品使用在一般电子设备以外的场合,如:车载,交通工具控制设备,医疗设备,军用设备,航空航天设备,海底设备等,请务必联系本公司销售部门,本公司会配合客户需求,一起协商不同于本产品中所记载的使用用途。
12. When this product is used in occasions other than general electronic equipment, such as: Automotive Electronic products, medical equipment, military equipment, Aerospace equipment, submarine equipment, etc., please be sure to contact the company's sales department, the company will cooperate with customer needs, and negotiate different intended use described in this product.
13. 保存时间为 12 个月以内, 保存条件: 温度 $-10 \sim 40^{\circ}\text{C}$ 、湿度 70%RH 以下,需充分注意,若超过保存时间,端子电极的可焊性将可能变差。
13. Storage time is within 12 months, storage conditions: temperature $-10 \sim 40^{\circ}\text{C}$, humidity 70%RH Max. It should be fully noted that if the storage time is exceeded, the solderability of the terminal electrodes may deteriorate.