

Product Specification

Number: L-KLS18-EC36-6R8K-A

Name: Axial choke

Customer: _____

Date: 2026-08-25

Customer Signature:



WWW.KLSELE.COM

NINGBO KLS ELECTRONIC CO; LTD

Tel : 0086-574-86828566

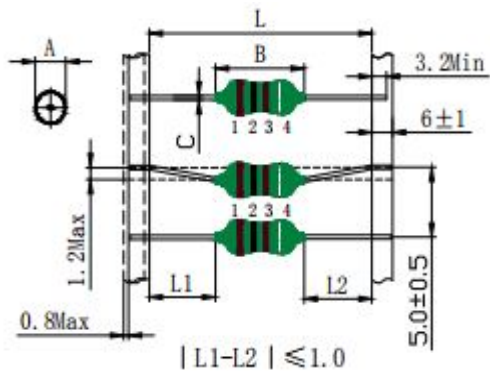
Fax : 0086-574-86824882

**ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN
INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.**

Compile	Check	Review	Approval
Jenny	Jack.C		

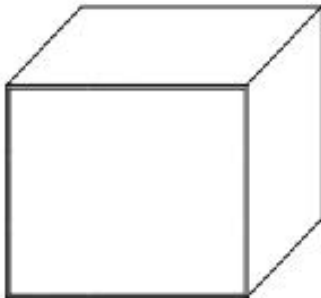
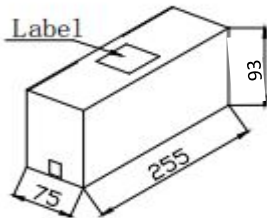
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1. 产品尺寸（单位：mm）
Product size (UNIT:mm)



A	4.0Max
B	10.0 Max
C	0.55±0.05
L	52±1
1	蓝 Blue
2	灰 Gray
3	金 Gold
4	银 silver

2. 产品包装尺寸及数量
Product packaging



类型 Type	数量 Quantity
EC36	2000PCS/bag
	60000PCS/box
标签尺寸 Label size	60mm*40mm
内盒尺寸 Inner box size:	255mm*75mm*93mm
外箱尺寸 Outer box size	

3. 品名系统
Part Numbering System

L-KLS18- EC36 - 6R8 K - A
 ① ② ③ ④

- ① 品名Series name
- ② 电感值Inductance
- ③ 公差Tolerance
- ④ 包装 Packing

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4. 电气特性

ELECTRIC CHARACTERISTIC

项目 Item	性能参数 SPEC.		公差 Tolerance	测试条件 Test Frequency	测试设备 Test Equipment
电感量 (L) Inductance	6.8UH		±10%	1KHz/1V	TH2811C
品质因素 (Q) Q Valu	70		Min	7.96MHz/1V	HM9481
直流电阻 (R) DCR	0.48 Ω		Max	At 25℃	TH2811C
额定电流 (I) Rated current	$\Delta L/L\leq -10\%$	900 mA	Max	At 25℃, 1KHz/1V	TH2811C+TH1773

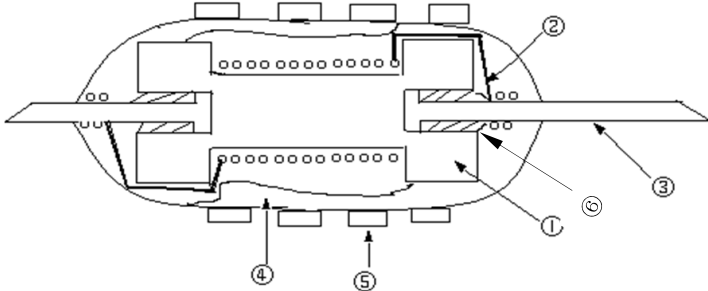
5. 电路原理图

The circuit principle diagram



6. 产品结构图

Product Structure Diagram



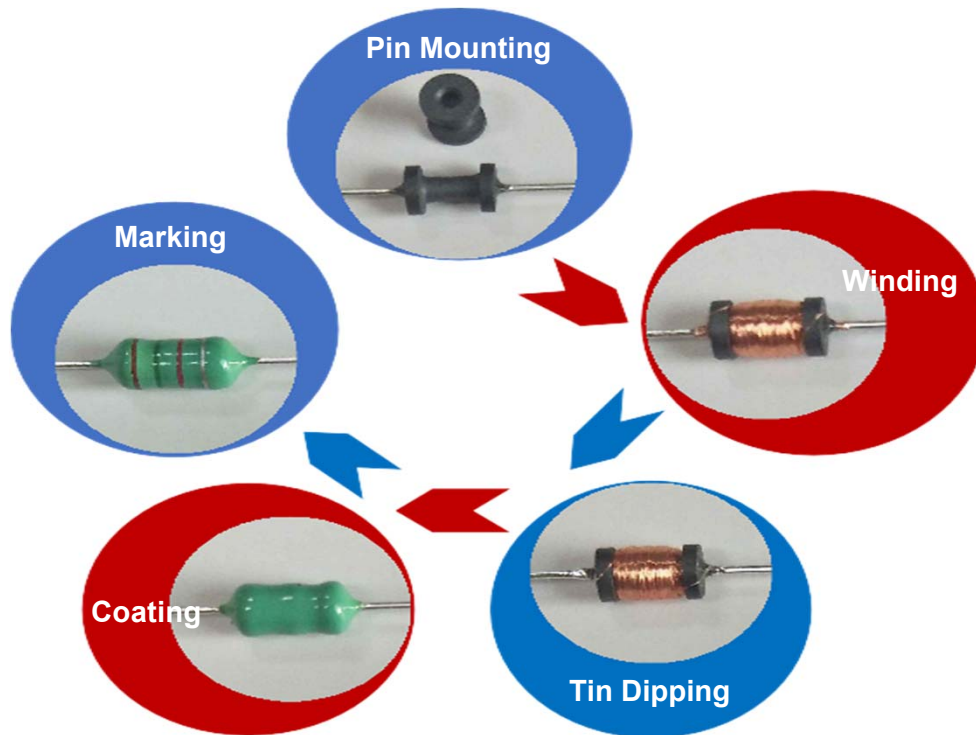
7. 物料清单

Bill of Materials

序号 NO.	物料名称 Material name	物料描述 Material description	黄卡认证号 UL FILE NO.
1	CORE 磁芯	铁氧体磁芯Ferrite core DM9 DR3.0×6.0mm B1.9 F3.1	N/A
2	漆包线 Wire	漆包铜线Enamelled copper wire 2UEW Φ0.1mm 155℃*24.1TS (ref.)	E344xxx
3	引脚 Leading	镀锡铜包钢Tin-plated copper clad steel Φ0.55±0.05mm	N/A
4	涂覆层 Coating	环氧树脂 Epoxy resin	N/A
5	色码 Color code	彩色环氧树脂 Coloured epoxy resin	N/A
6	Epoxy resin 粘接胶水	粘接环氧树脂 Adhesion of epoxy resin FK661	N/A
7	无铅锡Solder	锡Sn:99.7% 铜Cu:0.3%	N/A

8. 工艺流程

Technological process

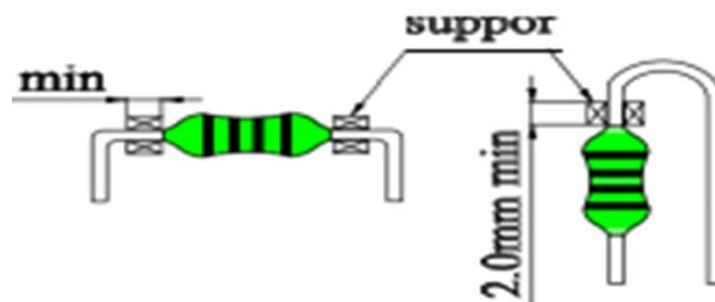


9. 注意事项

Matters needing attention

①该电感器磁芯的中部缠绕有漆包线并连接于两端引脚，引脚成型过程中可能造成开路或损伤本体。当您执行引脚成型过程时，请遵守以下指示：

①The middle part of the core of the inductor is wound with enameled wires and is connected with the pins at both ends, Pin forming process may cause open circuit or damage the body. When you perform the pin forming process, Please comply with the following instruction :



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检验测试报告

Inspection test report

电性测试 Electricity test					尺寸 Size (UNIT: mm)			
检验项目 Test items	L (UH)	DCR (Ω)	Q	I (mA)	A	B	C	L
要求 Requirement	6.8 ±10%	0.48 Max	70 Min	900 Max	Ø4.0 Max	10.0 Max	0.55± 0.05	52±1
1	6.7	0.35	101.8	900	3.44	8.66	0.55	51.6
2	7.0	0.35	108.9	900	3.45	8.70	0.54	51.5
3	6.8	0.34	105.3	900	3.44	8.69	0.55	51.6
4	6.9	0.34	94.9	900	3.46	8.68	0.55	51.5
5	6.9	0.35	93.1	900	3.45	8.65	0.55	51.8
6	6.9	0.35	103.6	900	3.44	8.62	0.55	51.8
7	6.7	0.35	101.7	900	3.46	8.63	0.54	51.7
8	7.1	0.36	101.8	900	3.45	8.64	0.54	51.6
9	6.8	0.35	101.8	900	3.45	8.66	0.54	51.5
10	6.9	0.35	95.2	900	3.45	8.72	0.54	51.6
$\bar{X}$	6.9	0.35	100.80	900	3.45	8.67	0.48	51.6
R	0.4	0.0	15.80	/	0.02	0.10	0.01	0.3
测试设备 Test Equipment	TH2811C	TH2811C	HM9481	TH2811C+ TH1773	数字卡尺 Digital Caliper			

测试环境：温度25%(ref),湿度75% (ref)
testing environment: temperature25%(ref) , humidity75% (ref)

判定 determine	合格OK■	不合格NG□	检验员 Inspector	冯靖雅	审核 Checker		批准 Approver	
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备注：
Remarks

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产品可靠性测试项目 Axial inductor's reliability testing items				
*一般特性 标准试验条件: 除非另有规定, 否则测量和试验如下: 环境温度: 15℃~35℃, 相对湿度: 25%~85%, 气压: 86kpa~106kpa. *GENERAL CHARACTERISTICS STANDARD TESTING CONDITIONS: UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15℃~35℃, RELATIVE HUMIDITY: 25%~85%. AIR PRESSURE: 86kpa~106kpa. 版本: V1.0				
NO.	项目Items	测试方法Test Methods	要求Requirements	
1	端子强度试验 Lead terminal strength	施加推拉力10牛顿, 时间为60s±5sA . static pulling force of 10N in a direction parallel to the lead terminals for 60±5 seconds.	未出现端子损坏或脱落现象. No terminal breakage or loosening.	
2	耐焊性试验 Resistance to soldering heat test	将产品固定在1.6mm的PCB板上, 放入锡炉中, 温度为270±5℃, 时间为 5±1s. Fix the samples on a 1.6mm thickness PCB, then dip the sample leads into a soldering bath of 270±5℃ up to the PCB for 5±1 seconds.	外观无明显损坏.变化范围: 电感值在 ±10%内 Q值在 ±30%内. No significant abnormality in appearance.Deviation relative to initial value:L:Within ±10% Q :Within ±30%	
3	可焊性试验 Solder ability test	端子浸入助焊剂5s, 然后将端子放入锡炉中, 温度为 245±5℃, 时间为2±0.5s. Immerse the terminal in flux for 5seconds. Then dip the terminal into a soldering bath of 245±5℃ for 2±0.5 seconds.	端子表面有90%以上着锡. At least 90% of terminal electrode is covered by new solder.	
4	湿度试验 Humidity test	试验温度temperature :40℃±2℃ 试验湿度 Humidity :90%~95%RH 持续时间 Duration :96±4 Hours	外观无明显损坏.变化范围: 电感值在 ±10%内 Q值在 ±30%内 No significant abnormality in appearance.Deviation relative to initial value: L:Within ±10% Q :Within ±30%	
5	高温储存试验 High temperature stroage test	试验温度Temperature :85℃±2℃ 持续时间Duration :96±4 Hours		
6	低温储存试验 Low temperature storage test	试验温度Temperature : -25℃±2℃ 持续时间Duration :96±4 Hours		
7	Thermal shock test 冷热冲击试验	首先从-25±5℃作用30±3分钟, 然后温度冲击到85±5℃作用30±3分钟, 作为一个循环, 共做10个循环.First -25±5℃ for 30±3 minutes, last 85±5℃ 30±3 minutes as 1 cycles. Go through 10 cycles.		