

揭阳市领界电子有限公司

JIEYANG LINGJIE ELECTRONICS CO., LTD.



承 认 书

SPECIFICATION FOR APPROVAL

客户 Customer:	
产品名称Customer:	一体成型电感
型号规格Customer:	0530-4.7UH
承认书日期 Date:	2025.09.10

CUSTOMER AUTHORIZED 客 户 承 认 签 章		
Approved By 批准	Checked By 审核	Admitde By 承认

SUPPLIER AUTHORIZED 供 方 承 认 签 章		
Approved By 批准	Checked By 审核	Prepared By 拟制
黄春葵	杨晓	蔡冰

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请签字盖章后，回传一份承认书给我司。

Please return to us one copy of "SPECIFICAITON FOR APPROVAL" with your approved

signature.

1. 履历表 Resume

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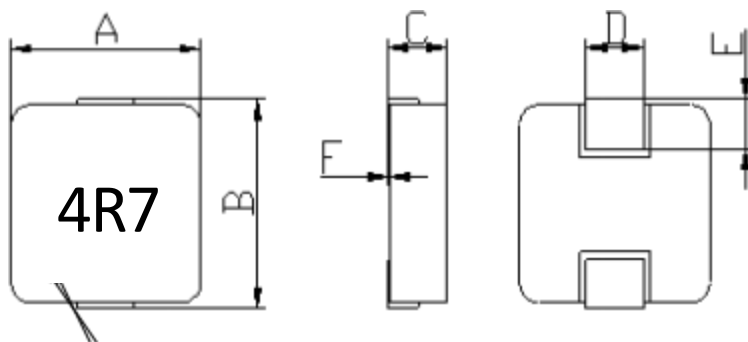
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2. 型号规格表示办法 How To Order

LJ 0530 - 4R7 M - H J
① ② ③ ④ ⑤ ⑥

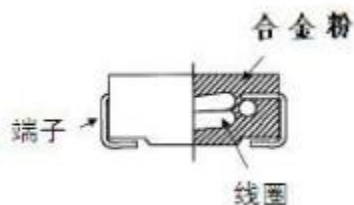
- ① 产品代号, Product symbol
- ② 尺寸规格, Dimension (5.5*5.0*3.0mm)
- ③ 电感量标称值, Inductance (4.7UH=4R7)
- ④ 电感量公差, Tolerance ($\pm 20\%$)
- ⑤ 材质, texture (合金)
- ⑥ 磁体颜色, Magnet color (灰色)

3. 结构及尺寸 Structure And Dimensions

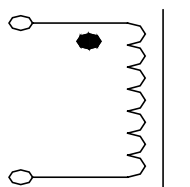


框面外观

型号 Part No.	A	B	C	D	E	F
LJ0530	5.5 $\pm$ 0.5	5.0 $\pm$ 0.5	3.0MAX	2.0 $\pm$ 0.5	1.0 $\pm$ 0.5	0~0.15



产品结构示意图



电路示意图

NO.	Component Name	Material
1	粉料 CORE	合金粉 Alloy powder
2	线圈 Coil	漆包线 Wire
3	电极 Electrode	电极 Electrode
4	标记 Marking	油墨 Ink



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4. 电气性能 Performance Specification

型号 Part No.	电感量 Inductance Lo(μ H) $\pm 20\%$	电阻 Rdc. (m Ω) Max	额定电流A (IDC)	饱和电流A (Isat)
LJ0530-2R2M-HJ	4.7	48.0	4.0	5.0

测试仪器 Test equipment: Inductance\RDC---同惠 TH2827C/502BC or equivalent, Isat\Irms---同惠 TH2827C Precision LCR Meter & TH1778 BIAS.

Ls 测试频率/电压 Ls Test frequency/Voltage: 100kHz/0.25V;

层间短路测试 Short circuit test between the layers:100V

饱和电流: 指使电感量比初始值下降 35%的电流值.

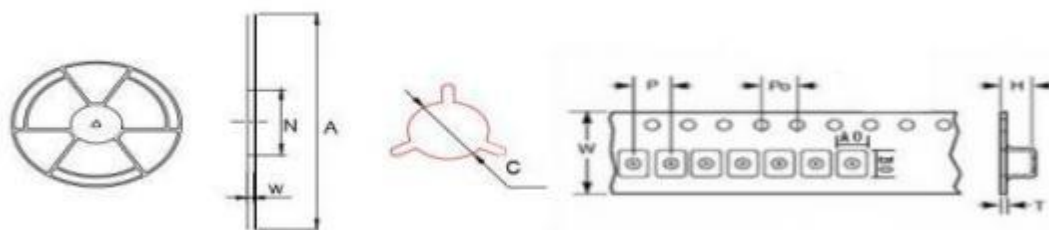
Isat: The DC current is that which cause a 35% inductance reduction from the initial value.

额定电流: 指使电感器表面温度上升 65℃的电流值 (参考周围环境温度 25℃) 。

IDC: The DC current is inductor surface temperature to rise by 65℃ (Reference ambient temperature 25℃).

5. 包装 Package

5.1 载带尺寸 Tape Dimension(单位: 毫米 Unit:mm)



Type	Reel Dimensions (mm)				Tape Dimensions (mm)						
	A	N	W	C	W	P	PO	A0	B0	H	T
0530	330	100	12.4	13.2 ± 0.2	12 ± 0.3	8 ± 0.1	4 ± 0.1	5.4 ± 0.1	5.9 ± 0.1	3.3 ± 0.05	0.35 ± 0.05



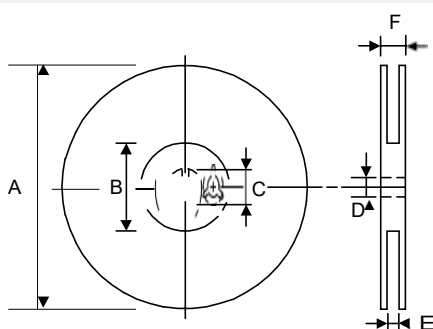
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5.2 包装数量 Packing quantity.

Series	卷盘 REEL (PCS)	纸盒 BOX (PCS)	纸箱 Carton (PCS) (Size: 35.5*35.5*21.5cm)
LJ0530-4R7	2000	6000	18000

5.3 包装标准 package standard



TYPE	A	B	C	D	E	F
0530	330	100	21.0 ±0.8	13.0 ±1.0	12.0 ±0.5	20.0 ±2.0

6. 推荐使用的焊接曲线 Recommended soldering profile

本产品建议使用回流焊接法。

Applicable soldering process to the products is reflow soldering.

6.1 焊接材料 Soldering Materials

①焊料: Sn-3.0Ag-0.5Cu

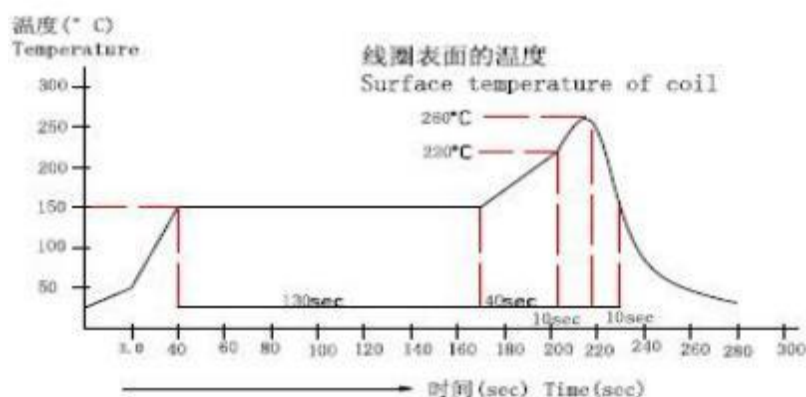
Solder: Sn-3.0Ag-0.5Cu

②助焊剂: 使用松香基助焊剂, 禁止使用卤化物含量超过0.2wt%的强酸性助焊剂和水溶性助焊剂。

Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine exceeding 0.2 wt%).

Do not use water-soluble flux.

6.2 焊接曲线 Soldering Profile





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7. 贮存方法 Storage Methods

7.1 存储期限 Storage Period

为保证端子电极的焊接特性和包装材料处于良好状态，请于本公司发货后6个月内使用本产品。同时，由于端子电极的焊接特性会随时间发生变化，如果贮存时间超过6个月，请首先确认其焊接特性后再安装使用。

To maintain the solderability of terminal electrodes and to keep the packing material in good condition, product should be used within 6 months from the time of delivery. And the solderability of products electrodes may decrease as time passes, so in case of storage over 6 months, solderability shall be checked before actual usage.

7.2 存储条件 Storage Conditions

①存放货物的仓库应满足以下条件：

温度：-10 ~ +40℃

相对湿度：30~70%RH

Store products in a warehouse in compliance with the following condition:

Temperature: -10 to +40℃

Humidity: 30~70%RH

②不要使产品遭受温度和湿度的快速变化。

Do not subject products to rapid changes in temperature and humidity.

③不要将产品存放在化学环境中，如硫酸气体或碱性气体中，否则会降低电极端子的焊接特性和使电感器腐蚀。

Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.

④不要以散包装的形式存放产品以防止电感器间的相互碰撞造成磁芯破裂或断线。

Do not store products in bulk packaging to prevent collision among inductors which causes core chipping and wire breakage.

⑤为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。

Store products on pallets to protect from humidity, dust, etc.

⑥产品应避免热冲击、振动以及直接光照等等。

Avoid heat shock, vibration, direct sunlight, etc.



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8. 说明 NOTE

8.1 本承认书的数据更改需经双方确认，任何一方单独修改无效。

Any revision to the specification Approval must be confirmed by both the supplier and the customer, otherwise the revision is invalid.

8.2 当本公司的产品使用在一般电子设备以外的领域时，对于此所引发的设备失效我司将不承担任何法律责任。

In case of using the product for the purpose other than general electronics devices, we shall not be held liable for any dysfunctions in or damage to the equipment with which the product is used.

8.3 本承认书只保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时，请贵司对使用在贵司电路上的产品情况进行了有效评价和确认。

Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

8.4 本承认书在客户收到 7 天之内，必须签章返回，逾期视为默认。

The specification Approval should be sent back to the supplier with customer's chop on it within 7 days after receiving it, or we will take it as approved by customer.