



客户 Customer:	
产品名称 Customer:	NR磁胶屏蔽电感
型号规格 Customer:	NR4030
承认书日期 Date:	2026. 7. 7

PLEASE RETURN TO US COPY OF " SPECIFICATION FOR APPROVAL " WITH YOUR
APPROVED SIGNATURES.

领界电子:	制作(MADE BY)	审核(CHECKED BY)	批准(APPROVED BY)
	范耿	林家炜	林彩平
客户(CUSTOMER)	客户要求(CUSTOMER REQUIRE) : 承认(APPROVED BY) :		

地址：广东省揭阳市榕城区渔湖镇万洋众创城7栋



承认书

JIEYANGSHI LINGJIE DIANZIYOUXIANGONSI

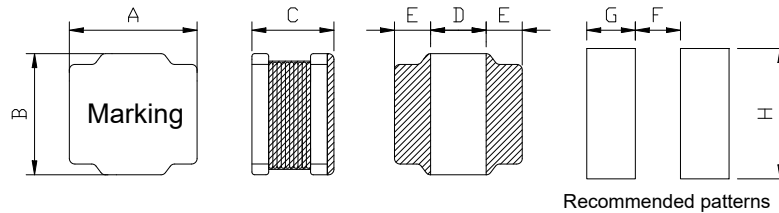
CUSTOMER (客户):

PAGE: 1 OF 6

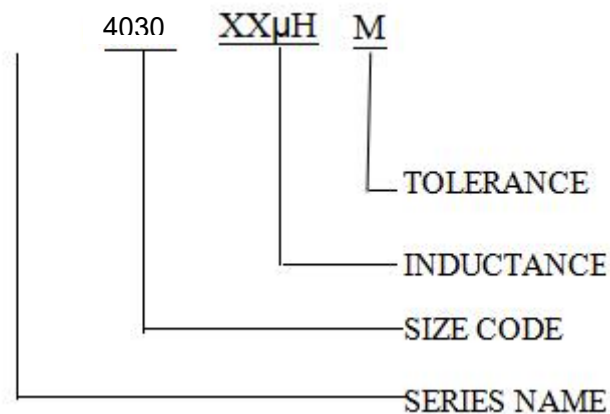
ITEM: NR4030

Customer's ITEM:

1. SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	F	G	H
NR4030	4.0±0.2	4.0±0.2	3.0Max	1.3±0.3	1.35±0.3	1.2	1.4	3.7



2.Features (特性):

1. Small and very Thin inductor 小型,超薄电感器
2. Magnetic-resin shielded construction reduces buzz noise to ultra-low
磁性胶水涂敷结构极大减少了蜂鸣声
3. Takes up less PCB real estate and save more power 省空间,更省电

3.APPLICATIONS (用途)

1. LED Lighting LED 照明
2. Automotive systems 汽车产品
3. Notebooks,desktop computers,servers,graphic cards 笔记本电脑,台式电脑,服务器,显卡.



承认书

JIEYANGSHI LINGJIE DIANZIYOUXIANGONSI

CUSTOMER（客户）：				PAGE: 2 OF 6	
ITEM: NR4030			Customer's ITEM:		
Part number	INDUCTANCE (μH) 电感值	DCR（±30%） （Ω）	Irms（Max.） （A）	Ista（Max.） （A）	S.R.F.（Min.） （MHz）
	100KHz/1V	直流电阻	额定电流	饱和电流	自谐频率
4030-1.0uH/N	1.00±30%	0.02	5.26	4.14	70.00
4030-1.5uH/N	1.50±30%	0.02	4.84	3.34	62.00
4030-2.2uH/N	2.20±30%	0.03	4.40	2.95	52.00
4030-3.3uH/M	3.30±20%	0.04	3.30	2.40	38.00
4030-4.7uH/M	4.70±20%	0.06	2.90	2.00	31.00
4030-6.8uH/M	6.80±20%	0.09	2.75	1.60	24.00
4030-10uH/M	10.00±20%	0.10	1.95	1.50	21.00
4030-15uH/M	15.00±20%	0.19	1.65	1.11	16.00
4030-22uH/M	22.00±20%	0.23	1.30	1.00	10.00
4030-33uH/M	33.00±20%	0.33	1.10	0.84	10.00
4030-47uH/M	47.00±20%	0.45	0.95	0.72	8.40
4030-68uH/M	68.00±20%	0.87	0.72	0.52	7.00
4030-100uH/M	100.00±20%	1.15	0.60	0.45	5.60
4030-150uH/M	150.00±20%	1.80	0.50	0.30	4.00
4030-220uH/M	220.00±20%	2.50	0.40	0.35	4.20
4030-330uH/M	330.00±20%	4.00	0.30	0.25	6.80
4030-470uH/M	470.00±20%	7.20	0.30	0.20	2.00
4030-680uH/M	680.00±20%	7.58	0.19	0.14	1.20
4030-1mH/M	1000.00±20%	11.50	0.18	0.13	1.00
4. Electrical Characteristics 电气特性 (1) INDUCTANCE：HP-4284A at 100kHz/1V (2) DCR：Keysight 34420A at 25℃ (3) Isat：HP-4284A+HP-42841A at 100kHz/1V (4) Isat: DC current at which the inductance drops approximate 30% from its value without current;					



承认书

JIEYANGSHI LINGJIE DIANZIYOUXIANGONSI

(5) Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.

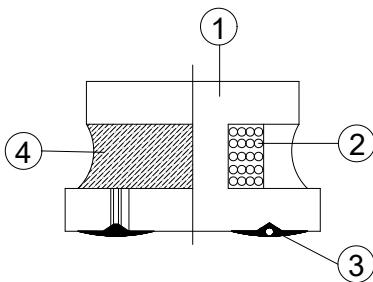
CUSTOMER (客户):

PAGE: 3 OF 6

ITEM: NR4030

Customer's ITEM:

5. Material List 材料清单



No.	Material	Specification	Supplier	TEMP CLASS
1	CORE	Ferrite Core	LB	NA
2	WIRE	Polyurethane Enamelled Copper Wire	YLSL	180 °C
3	Solder	Sn99.3-Cu0.7	CS	NA
4	Epoxy	Magnetic Glue	CK	NA

*NA:NOT APPLICABLE

6. Storage conditions/Matters need attention 储存条件/注意的事项

(1). 贮存温度和工作温度:

Operating temperature rang and Storage temperature rang:-40 °C to +125 °C

(2). 额定电流: 指使电感量比初始值下降30%Max或电感器表面温度上升 $\leq 40^{\circ}\text{C}$ 的电流值, 以较小者为准 (参考 周围环境温度 25°C)

The rated DC current is that which cause at 30%Max inductance reduction from the initial value or inductor surface temperature to rise by $\leq 40^{\circ}\text{C}$, whichever is smaller (Reference ambient temperature 25°C)

(3) 产品在6个月内使用(注意:产品一经拆开包装,须尽快使用)

Products should be used within 6 months. (Note that the product should be used as soon as possible once it is folded)

(4). 包装材料应保存在空气中不存在氯或硫的地方

The packaging material should be kept where no chlorine or sulfur exists in the air

(5). 不要用手指触摸电极(焊接端子), 因为这可能导致焊接能力的下降

Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability.

承认书

JIEYANGSHI LINGJIE DIANZIYOUXIANGONGSI

(6). 个别零件强烈建议使用镊子或真空取料机，散装搬运应确保尽量减少磨损和机械冲击

The use of tweezers or vacuum pick-ups is strongly recommended for individual components. Bulk handling should ensure that abrasion and mechanical shock are minimized.

CUSTOMER (客户):

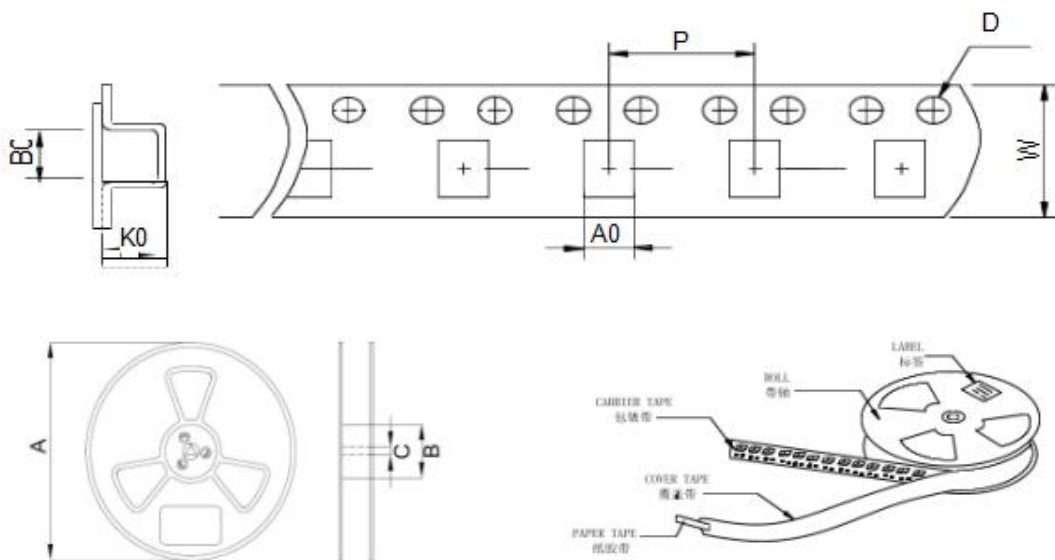
PAGE: 4 OF 6

ITEM: NR4030

Customer's ITEM:

7.Packing Information 包装

(1). Tape&Reel Dimension 载带及卷轴尺寸:



Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
252012	8	2.35	2.65	1.6	1.5	4	178	58	13	2000
3015	8	3.3	3.3	1.6	1.5	4	178	58	13	2000
4018	12	4.3	4.3	2.2	1.5	8	330	100	13	3000
4020	12	4.3	4.3	2.4	1.5	8	330	100	13	2000
4030	12	4.3	4.3	3.4	1.5	8	330	100	13	2000
5040	12	5.4	5.4	4.4	1.5	8	330	100	13	1500
6028	16	6.4	6.4	3.2	1.5	8	330	100	13	2000
6045	16	6.4	6.4	4.8	1.5	8	330	100	13	1500
8040	16	8.4	8.4	4.4	1.5	12	330	100	13	1000

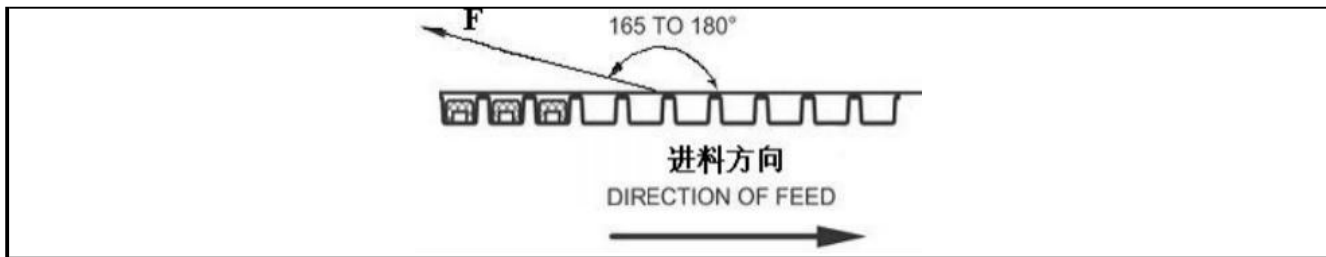
(2). Peeling required 剥离强度要求:

①F 力大小: 20~100g;

②面带剥离角度: 165°~180°。

承认书

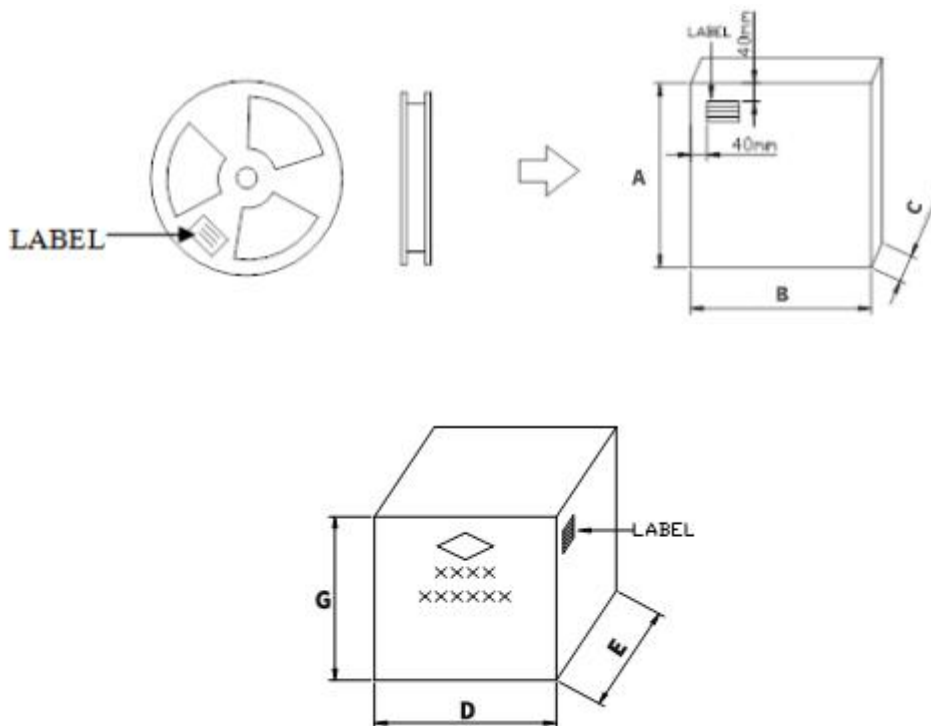
JIEYANGSHI LINGJIE DIANZIYOUXIANGONSI



CUSTOMER (客户) :		PAGE: 5 OF 6
ITEM:NR4030	Customer's ITEM:	

7.Packing Information 包装

(3). Packing Dimension and quantity 包装尺寸和数量:



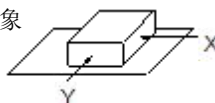
Item	Inner box size/cm			Outer box size/cm			Quantity/pcs		
	B	C	A	D	E	G	1Reel	Box	Carton
252012	18.5	12	18.5	38	20	21	2000	20000	60000
3015	18.5	12	18.5	38	20	21	2000	20000	60000
4018	34	34	5.2	37	37	30	3000	12000	48000
4020	34	34	5.2	37	37	30	2000	6000	24000
4030	34	34	5.2	37	37	30	2000	6000	24000
5040	34	34	5.2	37	37	30	1500	4500	18000



承认书

JIEYANGSHI LINGJIE DIANZIYOUXIANGONSI

6028	34	34	5.2	37	37	30	2000	6000	12000
6045	34	34	5.2	37	37	30	1500	4500	18000
8040	34	34	5.2	37	37	30	1000	3000	12000

CUSTOMER（客户）：			PAGE: 6 OF 6
ITEM:NR4030		Customer's ITEM:	
8.Enviroment Characteristics 环境特性			
No.	ITEM 项目	REQUEST 要求	CONDITIONS 测试条件
1	TERMINAL STRENGTH 电极强度试验	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	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	FIX THE SAMPLES ON A 1.6mm THICKNESS PCB,THEN DIP THE SAMPLE LEADS INTO A SOLDERING BATH OF 260±5℃ UP TO THE PCB FOR 5±1 SECONDS. 将产品固定在1.6mm的PCB板上，放入锡炉中，温度为260±5℃，时间为5±1s.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L:WITHIN ±10.0% 外观无损坏 电感值在±10.0%内
3	SOLDER ABILITY TEST 可焊性试验	IMMERSE THE TERMINAL IN FLUX FOR 5 SECONDS.THEN DIP THE TERMINAL INTO A SOLDERING BATH OF 245±5℃ FOR 2±0.5 SECONDS. 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	OVER 90% OF THE SURFACE BEING IMMERSED SHALL BE COVERED WITH NEW SOLDER UNIFORMITY. 90%面积有新锡附着, 焊锡表面光亮
4	HUMIDITY TEST 湿度试验	试验温度 TEMPERATURE :40±2℃ 试验湿度 HUMIDITY :90%~95%RH 持续时间 DURATION:96±4 Hours	DEVIATION RELATIVE TO INITIAL VALUE: 电感的变化范围 电感值在 ±10.0%内 L:WITHIN ±10.0%
5	HIGH TEMPERATURE TEST 高温试验	试验温度 TEMPERATURE: 125±2℃ 试验时间 TIME: 96±4 Hours 常温条件 ROOM CONDITION: 1~2 hours	DEVIATION RELATIVE TO INITIAL VALUE: 电感值在 ±10.0%内 L:WITHIN ±10.0%
6	LOW TEMPERATURE TEST 低温试验	试验温度 TEMPERATURE: -25±2℃ 试验时间 TIME: 96±4 Hours 常温条件 ROOM CONDITION: 1~2 hours	DEVIATION RELATIVE TO INITIAL VALUE: 电感的变化范围 电感值在 ±10.0%内 L:WITHIN ±10.0%
7	THERMAL SHOCK TEST 冷热冲击试验	FIRST -25±5℃ FOR 30±2 MINUTES, LAST 125℃ 30±2 MINUTES AS 1 CYCLE. TOTAL 10 CYCLES. 首先从-25±5℃作用30±2分钟，然后温度冲击到125℃作用30±2分钟，作为一个循环，共做10个循环。	DEVIATION RELATIVE TO INITIAL VALUE: 电感的变化范围 电感值在 ±10.0%内 L:WITHIN ±10.0%



承认书

JIEYANGSHI LINGJIE DIANZIYOUXIANGONGSI

8	VIBRATION TEST 振动试验	APPLY FREQUENCY 10~55Hz 1.55mm AMPLITUDE IN EACH OF PERPENDICULAR DIRECTION FOR 2 HOURS.(TOTAL6H) 用 10~55Hz振动频率1.55mm振幅沿X,Y,Z各方向 振动2小时,共6小时.	DEVIATION RELATIVE TO INITIAL VALUE: 电感的变化范围 电感值在 $\pm 10.0\%$ 内 L:WITHIN $\pm 10.0\%$
---	------------------------	--	--

Test conditions: The sample shall be reflow soldered onto the printed circuit board in every test.