

产品承认书

Specification For Approved

版本: REV.A00

客户名称/Customer Name:	N/A
客户品名/Customer Name:	N/A
客户型号/Customer Model Number:	N/A
客户料号/Customer Material Number:	N/A
巨维品名/JW Name:	Alloy magnetic glue shielding inductor
巨维型号/JW Model Number:	HSR Series
巨维料号/JW Material Number:	N/A

巨维签署/JW Signed			客户承认/Customer Approval		
制定 Prepared By	审核 Checked By	批准 Approved By	确认 Confirm By	审核 Checked By	承认 Approved By
唐秀玲	王瑞琳	欧奇林			
2024.4.11	2024.4.11	2024.4.11			

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JS-RD-SPEC-001/A0

客户名称 Customer	N/A	品名 Name	Alloy magnetic glue shielding inductor	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.4.11
客户料号 Customer No.	N/A	型号 Model No.	HSR Series	发行号 Release No.	JS-S-24041101

1. 品名型号命名指南/Nomenclature guidelines for product models:

J - HSR 303012 A - 2R2 M - X
① ② ③ ④ ⑤ ⑥ ⑦

①	公司名称代码/Company name code
J	巨晟电子代码/JUSHENG electronic code
②	产品系列代码 (HSR: 合金铁氧体方形磁胶屏蔽电感系列)
HSR	Product family code (HSR: Alloy magnetic glue shielding inductor)
③	产品外形尺寸(毫米)/Product dimension(mm)
303012	长3.0*宽3.0*高1.2毫米/Length3.0 *Width3.0 *Height1.2mm
④	外观形状区分代码, 请参考产品形状尺寸页面
A	Appearance shape distinguishes the code ,Please refer to the product shape and size page
⑤	电感量标识(亨利)/Inductance identification(H)
2R2	R47(0.47μH) , 2R2(2.2μH) , 100(10μH) , 101(100μH) , 202(2000μH)
⑥	电感容差字母代码/Inductance tolerance letter code
M	J±5% , K±10% , L±15% , M±20% , P±25% , N±30%
⑦	内部管理代码/Internal management code
X	无代码为常规产品, 其它请咨询/No code regular product, other please consult

2. 材料表/Material List:

No.	Material	Specification	Supplier	Temp.Class
1	Core	Alloy Core	MT/CY/MG/DC	
2	Wire	Polyurethane Enamelled Copper Wire	YLSL/TPY	180°C
3	Solder	Sn99.3-Cu0.7	YC	
4	Epoxy	Magnetic Glue	YH	

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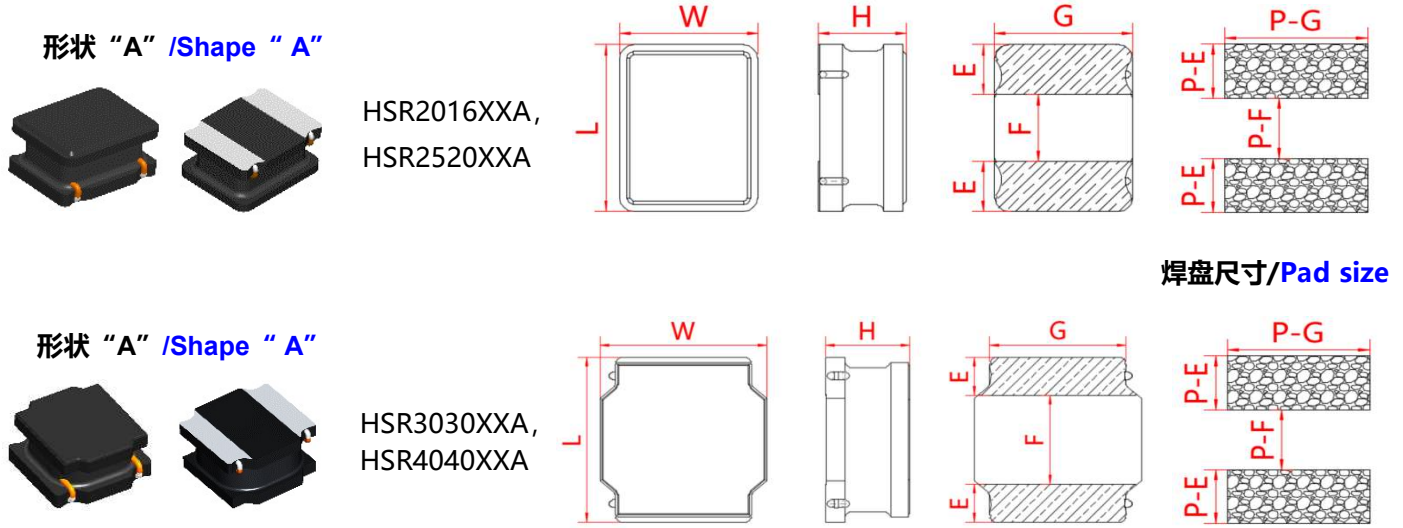
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3. 产品形状尺寸(单位:毫米)/Product Shape size(Unit:mm):



Model	L	W	H	E	F	G	P-E	P-F	P-G
HSR201610A	2.0±0.2	1.6±0.2	1.08 Max	0.6±0.2	0.8 Ref	1.2±0.3	0.8 Ref	0.8 Ref	1.6 Ref
HSR201612A	2.0±0.2	1.6±0.2	1.28 Max	0.6±0.2	0.8 Ref	1.2±0.2	0.8 Ref	0.8 Ref	1.6 Ref
HSR252010A	2.5±0.2	2.0±0.3	1.05 Max	0.8±0.2	0.8 Ref	1.5±0.2	0.85 Ref	0.8 Ref	2.0 Ref
HSR252012A	2.5±0.2	2.0±0.3	1.26 Max	0.8±0.2	0.8 Ref	1.5±0.2	0.85 Ref	0.8 Ref	2.0 Ref
HSR303012A	3.0±0.2	3.0±0.2	1.2 Max	0.8±0.2	1.4 Ref	2.5±0.3	1.0 Ref	1.2 Ref	2.7 Ref
HSR303015A	3.0±0.2	3.0±0.2	1.55 Max	0.8±0.2	1.4 Ref	2.5±0.3	0.8 Ref	1.5 Ref	2.7 Ref
HSR404012A	4.0±0.2	4.0±0.2	1.2 Max	1.05±0.3	1.9 Ref	3.3±0.3	1.1 Ref	1.9 Ref	3.7 Ref
HSR404020A	4.0±0.2	4.0±0.2	2.0 Max	1.05±0.3	1.9 Ref	3.3±0.3	1.1 Ref	1.9 Ref	3.7 Ref

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4. HSR201610A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μH) Ls	直流电阻(mΩ) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
1	J-HSR201610A-R24M	0.24	40.0	33.0	4.50	5.50	3.00	3.45
2	J-HSR201610A-R47M	0.47	49.0	41.0	4.00	4.70	2.70	3.10
3	J-HSR201610A-R68M	0.68	65.0	57.0	3.50	4.00	2.50	2.80
4	J-HSR201610A-1R0M	1.0	70.0	60.0	2.60	3.05	2.20	2.55
5	J-HSR201610A-1R5M	1.5	130.0	110.0	1.95	2.30	1.70	2.00
6	J-HSR201610A-2R2M	2.2	170.0	142.0	1.90	2.15	1.45	1.70
7	J-HSR201610A-4R7M	4.7	425.0	370.0	1.20	1.50	0.90	1.00
8	J-HSR201610A-100M	10.0	826.0	688.0	0.80	0.95	0.65	0.75

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4. HSR201612A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μH) Ls	直流电阻(mΩ) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
1	J-HSR201612A-R24M	0.24	23.0	19.0	5.85	6.75	4.50	5.20
2	J-HSR201612A-R33M	0.33	31.0	26.0	5.15	6.00	3.85	4.45
3	J-HSR201612A-R47M	0.47	41.0	34.0	3.95	4.60	3.40	3.90
4	J-HSR201612A-1R0M	1.0	59.0	49.0	2.70	3.10	2.70	3.00
5	J-HSR201612A-1R5M	1.5	109.0	91.0	1.90	2.35	2.10	2.45
6	J-HSR201612A-2R2M	2.2	146.0	122.0	1.70	2.00	1.80	2.05

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4. HSR252010A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μ H) Ls	直流电阻(m Ω) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
			1	J-HSR252010A-R24M	0.24	33.0	25.0	6.10
2	J-HSR252010A-R33M	0.33	39.0	33.0	4.80	5.50	3.50	4.05
3	J-HSR252010A-R47M	0.47	45.0	40.0	4.40	5.20	3.20	3.60
4	J-HSR252010A-R68M	0.68	59.0	49.0	3.20	3.60	2.75	3.20
5	J-HSR252010A-1R0M	1.0	85.0	71.0	3.10	3.50	2.20	2.50
6	J-HSR252010A-1R5M	1.5	106.0	90.0	2.60	3.00	2.00	2.30
7	J-HSR252010A-2R2M	2.2	155.0	129.0	1.90	2.20	1.50	1.80
8	J-HSR252010A-3R3M	3.3	252.0	210.0	1.60	1.80	1.20	1.40
9	J-HSR252010A-4R7M	4.7	290.0	255.0	1.30	1.50	1.00	1.10
10	J-HSR252010A-6R8M	6.8	480.0	380.0	1.00	1.15	0.95	1.00
11	J-HSR252010A-100M	10.0	740.0	630.0	0.90	1.00	0.65	0.75

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4. HSR252012A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μH) Ls	直流电阻(mΩ) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
1	J-HSR252012A-R24M	0.24	23.0	19.0	6.50	7.80	4.05	4.70
2	J-HSR252012A-R33M	0.33	28.0	23.0	5.30	6.20	3.70	4.30
3	J-HSR252012A-R47M	0.47	35.0	29.0	4.90	5.60	3.45	4.00
4	J-HSR252012A-R68M	0.68	43.0	36.0	3.70	4.30	3.15	3.60
5	J-HSR252012A-1R0M	1.0	54.0	48.0	3.60	4.20	3.00	3.40
6	J-HSR252012A-1R5M	1.5	72.0	60.0	2.90	3.50	2.40	2.80
7	J-HSR252012A-2R2M	2.2	102.0	85.0	2.90	3.30	2.10	2.40
8	J-HSR252012A-3R3M	3.3	163.0	136.0	1.70	2.10	1.80	2.05
9	J-HSR252012A-4R7M	4.7	260.0	225.0	1.60	1.90	1.25	1.45
10	J-HSR252012A-6R8M	6.8	366.0	305.0	1.15	1.35	0.95	1.10
11	J-HSR252012A-100M	10.0	480.0	435.0	1.10	1.35	0.85	1.00

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4. HSR303012A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μH) Ls	直流电阻(mΩ) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
1	J-HSR303012A-R33M	0.33	27.0	23.0	7.20	8.90	4.20	4.85
2	J-HSR303012A-R47M	0.47	33.0	28.0	6.80	8.00	3.90	4.50
3	J-HSR303012A-R68M	0.68	42.0	35.0	5.80	6.80	3.40	3.90
4	J-HSR303012A-1R0M	1.0	54.0	45.0	4.20	5.40	2.70	3.10
5	J-HSR303012A-1R5M	1.5	74.0	64.0	3.40	4.10	2.50	2.90
6	J-HSR303012A-2R2M	2.2	108.0	90.0	2.80	3.35	2.05	2.35
7	J-HSR303012A-3R3M	3.3	155.0	129.0	2.20	2.60	1.70	2.00
8	J-HSR303012A-4R7M	4.7	235.0	196.0	2.00	2.50	1.30	1.50
9	J-HSR303012A-6R8M	6.8	340.0	290.0	1.60	1.90	1.10	1.25
10	J-HSR303012A-100M	10.0	474.0	395.0	1.20	1.45	1.00	1.15

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4. HSR303015A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μ H) Ls	直流电阻(m Ω) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
			1	J-HSR303015A-R22M	0.22	19.0	15.4	8.80
2	J-HSR303015A-R24M	0.24	19.0	15.4	8.60	10.60	5.00	5.90
3	J-HSR303015A-R33M	0.33	21.0	16.0	8.00	10.00	4.90	5.80
4	J-HSR303015A-R47M	0.47	26.0	20.0	7.60	9.50	4.60	5.00
5	J-HSR303015A-R68M	0.68	36.5	28.0	7.00	8.30	3.80	4.50
6	J-HSR303015A-R82M	0.82	48.0	37.0	6.30	7.20	3.30	3.80
7	J-HSR303015A-1R0M	1.0	48.0	37.0	5.80	7.00	3.30	3.80
8	J-HSR303015A-1R5M	1.5	72.0	55.0	4.60	5.50	2.20	2.70
9	J-HSR303015A-2R2M	2.2	95.0	74.0	3.70	4.60	2.20	2.50
10	J-HSR303015A-3R3M	3.3	150.0	110.0	3.40	3.60	2.00	2.30
11	J-HSR303015A-3R9M	3.9	170.0	138.0	2.80	3.20	1.80	2.00
12	J-HSR303015A-4R7M	4.7	185.0	150.0	2.50	3.00	1.70	1.90
13	J-HSR303015A-5R6M	5.6	250.0	190.0	2.20	2.80	1.50	1.75
14	J-HSR303015A-6R8M	6.8	320.0	245.0	2.00	2.40	1.20	1.35
15	J-HSR303015A-8R2M	8.2	416.0	320.0	1.80	2.20	1.15	1.30
16	J-HSR303015A-100M	10.0	450.0	350.0	1.60	2.00	1.10	1.20
17	J-HSR303015A-150M	15.0	610.0	460.0	1.45	1.75	1.10	1.20
18	J-HSR303015A-220M	22.0	910.0	700.0	1.00	1.20	0.56	0.66
19	J-HSR303015A-330M	33.0	1260.0	970.0	0.90	1.10	0.50	0.60
20	J-HSR303015A-470M	47.0	1900.0	1450.0	0.80	0.86	0.42	0.48

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4. HSR404012A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μH) Ls	直流电阻(mΩ) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
			1	J-HSR404012A-R33M	0.33	32.0	27.0	10.30
2	J-HSR404012A-R47M	0.47	41.0	34.0	9.10	9.90	3.80	4.40
3	J-HSR404012A-R68M	0.68	41.0	34.0	5.50	6.35	3.80	4.40
4	J-HSR404012A-1R0M	1.0	49.0	41.0	4.50	5.30	3.60	4.20
5	J-HSR404012A-1R2M	1.2	59.0	49.0	4.00	4.80	3.20	3.70
6	J-HSR404012A-1R5M	1.5	70.0	58.0	3.90	4.60	2.90	3.30
7	J-HSR404012A-2R2M	2.2	79.0	66.0	2.80	3.30	2.70	3.10
8	J-HSR404012A-3R3M	3.3	125.0	104.0	2.80	3.30	2.10	2.50
9	J-HSR404012A-4R7M	4.7	166.0	138.0	2.30	2.60	1.90	2.20
10	J-HSR404012A-6R8M	6.8	226.0	188.0	1.60	2.20	1.60	1.85
11	J-HSR404012A-100M	10.0	335.0	279.0	1.55	1.85	1.30	1.50
12	J-HSR404012A-220M	22.0	679.0	566.0	1.05	1.30	0.90	1.05

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4. HSR404020A电性规格表/Electrical specification sheet:

NO.	品名型号 Product models	感量(μ H) Ls	直流电阻(m Ω) DCR		饱和电流(A) Isat		温升电流(A) Itemp	
			Max.	typ.	Max.	typ.	Max.	typ.
			1	J-HSR404020A-R22M	0.22	13.0	11.0	18.70
2	J-HSR404020A-R47M	0.47	22.0	18.0	13.40	15.50	6.40	7.40
3	J-HSR404020A-R68M	0.68	22.0	18.0	8.70	11.10	6.40	7.40
4	J-HSR404020A-1R0M	1.0	26.0	22.0	8.70	11.10	5.80	6.70
5	J-HSR404020A-1R5M	1.5	36.0	30.0	7.70	9.60	5.20	6.00
6	J-HSR404020A-2R2M	2.2	48.0	40.0	6.10	7.60	4.30	5.00
7	J-HSR404020A-3R3M	3.3	72.0	60.0	4.70	5.90	3.45	4.00
8	J-HSR404020A-4R7M	4.7	108.0	90.0	4.00	4.90	2.85	3.30
9	J-HSR404020A-6R8M	6.8	156.0	130.0	3.00	4.20	2.40	2.80
10	J-HSR404020A-100M	10.0	216.0	180.0	2.80	3.50	2.00	2.35

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客户名称 Customer	N/A	品名 Name	Alloy magnetic glue shielding inductor	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.4.11
客户料号 Customer No.	N/A	型号 Model No.	HSR Series	发行号 Release No.	JS-S-24041101

5. 备注/Remark:

- (1). 工作温度范围: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (包含产品表面温升) .
Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including product surface temperature rise).
 - (2). 所有测试频率: @1MHz, 1V .
All test frequencies: @1MHz, 1V.
 - (3). 所有测试数据均参考 $20 \pm 2^{\circ}\text{C}$ 环境 .
All test data is referenced to $20 \pm 2^{\circ}\text{C}$ ambient.
 - (4). Isat & Itemp依较小值为标准.
Isat & Itemp is based on smaller values.
 - (5). Isat : 基于产品初始电感值下降率未超30%, 可以通过最大电流.
Isat : Based on the initial inductance decrease rate of the product not exceeding 30%, the maximum current can be passed.
 - (6). Itemp : 基于产品初始温度, 再向上升 40°C 时可通过最大电流.
Itemp : Based on the initial temperature of the product, the maximum current can be passed when increasing by 40°C .
- ★ 如有特殊电感值可咨询我司!!!
★ If there is a special inductance value, please consult our company!!!

测量项目/Measure item	仪器品牌/Instrument brand	仪器型号/Instrument model
感量/Ls	是德/Keysight	E4990A
直流电阻/DCR	日置/HIOKI	RM-3542A
加载电流/Isat	稳科/WK	WK3260B& 1J3265B
温度/Temp	福禄克/FLUKE	51-II

- 可使用同等仪器测量.
Measurements can be made with equivalent instruments.

客户名称 Customer	N/A	品名 Name	Alloy magnetic glue shielding inductor	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.4.11
客户料号 Customer No.	N/A	型号 Model No.	HSR Series	发行号 Release No.	JS-S-24041101

6. 可靠性测试/Reliability Test:

No.	项目/Item	测试条件/Conditions	要求/Request
1	电极强度试验 Terminal strength	施加推拉力10牛顿，时间为5秒。 A static pulling force of 10n in a direction parallel to the terminals for 5 seconds.	未出现电极损坏或脱落现象 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260±5°C，时间为5±1s。 Fix the samples on a 1.6mm thickness pcb, then dip the sample leads into a soldering bath of 260 ±5°C up to the pcb for 5±1 seconds.	外观无损坏 电感值在 ±10.0%内 No mechanical breakage Deviation relative to initial value: l:within ± 10.0%
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°C，时间为2±0.5s。 Immerse the terminal in flux for 5 seconds. then dip the terminal into a soldering bath of 245±5 °C for 2±0.5 seconds.	90%面积有新锡附着，焊锡表面光亮 Over 90% of the surface being immersed shall be covered with new solder uniformity
4	湿度试验 Humidity test	试验温度 Temperature :40±2°C 试验湿度 Humidity :90% ~ 95%RH 持续时间 Duration:96±4 Hours	电感的变化范围 Deviation relative to initial value: 电感值在 ±10.0%内 L:Within ±10.0%
5	高温试验 High temperature test	试验温度 Temperature: 125±2°C 试验时间 Time: 96±4 Hours 常温条件 Room condition: 1~2 hours	电感的变化范围 Deviation relative to initial value: 电感值在 ±10.0%内 L:Within ±10.0%
6	低温试验 Low temperature test	试验温度 Temperature: -40±2°C 试验时间 Time: 96±4 Hours 常温条件 Room condition: 1~2 hours	电感的变化范围 Deviation relative to initial value: 电感值在 ±10.0%内 L:Within ±10.0%
7	冷热冲击试验 Thermal shock test	首先从-40±5°C作用30±2分钟，然后温度冲击到125°C作用30±2分钟，作为一个循环，共做10个循环。 First -40±5°C for 30±2 minutes, last 125°C 30±2 minutes as 1 cycle. Total 10 cycles.	电感的变化范围 Deviation relative to initial value: 电感值在 ±10.0%内 L:Within ±10.0%
8	振动试验 Vibration test	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。 Apply frequency 10~55hz 1.55mm amplitude in each of perpendicular direction for 2hours.(total6h)	电感的变化范围 Deviation relative to initial value: 电感值在 ±10.0%内 L:Within ±10.0%

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