

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:	Magnetic enclosure shielding inductance
巨维型号/JW Model number:	IRSD 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			
2024.9.9	2024.9.9	2024.9.9			

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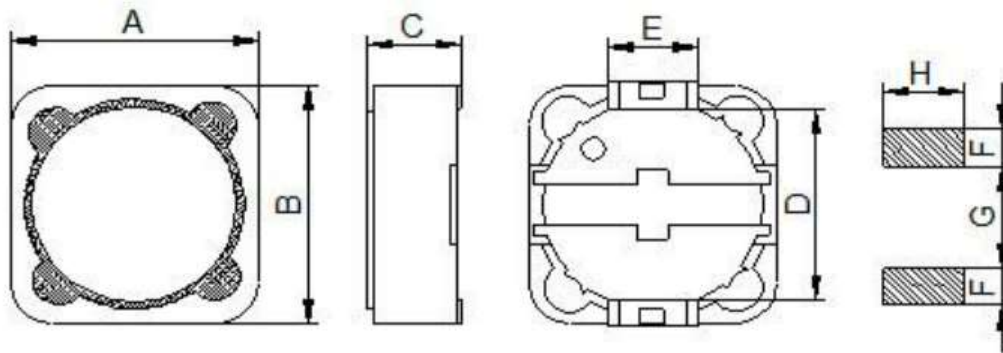
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Address: Building 2-10, Hengshan Science City, Hengyang City, Hunan Province, China

JS-RD-SPEC-001/A0

客户名称 Customer	N/A	品名 Name	Magnetic enclosure shielding inductance	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.9
客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

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



Series	Dimensions(mm)							
	A	B	C Max	D	E Ref.	F Ref.	G Ref.	H Ref.
IRSD707030A	7.3±0.3	7.3±0.3	3.5	5.4±0.2	1.8	1.6	4.8	2.2
IRSD707040A	7.3±0.3	7.3±0.3	4.5	5.4±0.2	1.8	1.6	4.8	2.2
IRSD12012040A	12.0±0.3	12.0±0.3	4.5	7.6±0.2	5.0	2.8	7.0	5.4
IRSD12012050A	12.0±0.3	12.0±0.3	6.0	7.6±0.2	5.0	2.8	7.0	5.4
IRSD12012070A	12.0±0.3	12.0±0.3	8.0	7.6±0.2	5.0	2.8	7.0	5.4
IRSD12012090A	12.0±0.3	12.0±0.3	10.0	7.6±0.2	5.0	2.8	7.0	5.4

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客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.9
客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

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

J - IRSD 707030 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/Product family code
IRSD	磁罩屏蔽电感/Magnetic enclosure shielding inductance
③	产品外形尺寸(毫米)/Product dimension(mm)
707030	长7.3*宽7.3*高3.0毫米/Length7.3 *Width7.3 *Height3.0mm
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	R22(0.22μH) , 2R2(2.2μH) , 100(10μH) , 221(220μH) , 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

3. 耐温等级/Temperature resistance class:

工作温度: -40 ~ +125°C(含自温升)

Operating Temperature : -40 ~ +125°C(Including self - temperature rise)

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4. IRSD707030A电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance (uH)	Test Freq. (KHz)	DCR Max. (Ω)	IDC Max. (A)
1	J-IRSD707030A-1R0N	1.0	100/0.25	0.0160	7.970
2	J-IRSD707030A-1R5N	1.5	100/0.25	0.0230	5.500
3	J-IRSD707030A-2R2N	2.2	100/0.25	0.0270	4.500
4	J-IRSD707030A-3R3N	3.3	100/0.25	0.0310	4.000
5	J-IRSD707030A-4R7N	4.7	100/0.25	0.0480	3.500
6	J-IRSD707030A-5R6N	5.6	100/0.25	0.0560	3.000
7	J-IRSD707030A-6R8N	6.8	100/0.25	0.0620	2.500
8	J-IRSD707030A-100N	10.0	100/0.25	0.0720	1.680
9	J-IRSD707030A-150M	15.0	100/0.25	0.1300	1.330
10	J-IRSD707030A-180M	18.0	100/0.25	0.1400	1.200
11	J-IRSD707030A-220M	22.0	100/0.25	0.1900	1.070
12	J-IRSD707030A-330M	33.0	100/0.25	0.2400	0.910
13	J-IRSD707030A-390M	39.0	100/0.25	0.3200	0.770
14	J-IRSD707030A-470M	47.0	100/0.25	0.3600	0.760
15	J-IRSD707030A-680M	68.0	100/0.25	0.5200	0.610
16	J-IRSD707030A-101M	100.0	100/0.25	0.7900	0.500
17	J-IRSD707030A-151M	150.0	100/0.25	1.2700	0.430
18	J-IRSD707030A-181M	180.0	100/0.25	1.4500	0.390
19	J-IRSD707030A-221M	220.0	100/0.25	1.6500	0.350
20	J-IRSD707030A-331M	330.0	100/0.25	2.6200	0.280
21	J-IRSD707030A-391M	390.0	100/0.25	2.9400	0.260
22	J-IRSD707030A-471M	470.0	100/0.25	4.1800	0.240
23	J-IRSD707030A-561M	560.0	100/0.25	4.6700	0.220
24	J-IRSD707030A-681M	680.0	100/0.25	5.7300	0.190
25	J-IRSD707030A-821M	820.0	100/0.25	6.5400	0.180
26	J-IRSD707030A-102M	1000.0	100/0.25	9.4400	0.160

Test remarks:

- 1.All test data is referenced to 25 °C ambient.
- 2.IDC:DC current at which the inductance drops approximate 35%from its value without current.

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客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.9
客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

4. IRSD707040A电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance (uH)	Test Freq. (KHz)	DCR Max. (Ω)	IDC Max. (A)
1	J-IRSD707040A-1R0N	1.0	100/0.25	0.0150	9.000
2	J-IRSD707040A-1R5N	1.5	100/0.25	0.0180	7.000
3	J-IRSD707040A-2R2N	2.2	100/0.25	0.0280	6.000
4	J-IRSD707040A-3R3N	3.3	100/0.25	0.0320	4.800
5	J-IRSD707040A-3R9N	3.9	100/0.25	0.0350	4.400
6	J-IRSD707040A-4R7N	4.7	100/0.25	0.0380	4.000
7	J-IRSD707040A-5R6N	5.6	100/0.25	0.0400	3.500
8	J-IRSD707040A-6R8N	6.8	100/0.25	0.0450	3.000
9	J-IRSD707040A-100N	10.0	100/0.25	0.0490	1.840
10	J-IRSD707040A-120M	12.0	100/0.25	0.0580	1.710
11	J-IRSD707040A-150M	15.0	100/0.25	0.0810	1.470
12	J-IRSD707040A-180M	18.0	100/0.25	0.0910	1.310
13	J-IRSD707040A-220M	22.0	100/0.25	0.1100	1.230
14	J-IRSD707040A-270M	27.0	100/0.25	0.1500	1.120
15	J-IRSD707040A-330M	33.0	100/0.25	0.1700	0.960
16	J-IRSD707040A-390M	39.0	100/0.25	0.2300	0.910
17	J-IRSD707040A-470M	47.0	100/0.25	260.0000	0.880
18	J-IRSD707040A-560M	56.0	100/0.25	0.3500	0.800
19	J-IRSD707040A-680M	68.0	100/0.25	0.3800	0.700
20	J-IRSD707040A-820M	82.0	100/0.25	0.4300	0.610
21	J-IRSD707040A-101M	100.0	100/0.25	0.6100	0.600
22	J-IRSD707040A-121M	120.0	100/0.25	0.6600	0.520

Test remarks:

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客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

4. IRSD12012040A电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance (uH)	Test Freq. (KHz)	DCR Max. (Ω)	IDC Max. (A)
1	J-IRSD12012040A-3R9M	3.9	100/0.25	0.0150	6.500
2	J-IRSD12012040A-4R7M	4.7	100/0.25	0.0180	5.700
3	J-IRSD12012040A-6R8M	6.8	100/0.25	0.0230	4.900
4	J-IRSD12012040A-8R2M	8.2	100/0.25	0.0260	4.600
5	J-IRSD12012040A-100M	10.0	100/0.25	0.0280	4.500
6	J-IRSD12012040A-120M	12.0	100/0.25	0.0380	4.000
7	J-IRSD12012040A-150M	15.0	100/0.25	0.0500	3.200
8	J-IRSD12012040A-180M	18.0	100/0.25	0.0570	3.100
9	J-IRSD12012040A-220M	22.0	100/0.25	0.0660	2.900
10	J-IRSD12012040A-270M	27.0	100/0.25	0.0800	2.800
11	J-IRSD12012040A-330M	33.0	100/0.25	0.0970	2.700
12	J-IRSD12012040A-390M	39.0	100/0.25	0.1320	2.100
13	J-IRSD12012040A-470M	47.0	100/0.25	0.1500	1.900
14	J-IRSD12012040A-560M	56.0	100/0.25	0.1900	1.800
15	J-IRSD12012040A-680M	68.0	100/0.25	0.2200	1.500
16	J-IRSD12012040A-820M	82.0	100/0.25	0.2600	1.300
17	J-IRSD12012040A-101M	100.0	100/0.25	0.3080	1.200
18	J-IRSD12012040A-121M	120.0	100/0.25	0.3800	1.100
19	J-IRSD12012040A-151M	150.0	100/0.25	0.5300	0.950
20	J-IRSD12012040A-181M	180.0	100/0.25	0.6200	0.850
21	J-IRSD12012040A-221M	220.0	100/0.25	0.7000	0.800
22	J-IRSD12012040A-271M	270.0	100/0.25	0.8700	0.600
23	J-IRSD12012040A-331M	330.0	100/0.25	0.9900	0.500

Test remarks:

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客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.9
客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

4. IRSD12012050A电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance (uH)	Test Freq. (KHz)	DCR Max. (Ω)	IDC Max. (A)
1	J-IRSD12012050A-1R3N	1.3	100/0.25	0.0120	8.000
2	J-IRSD12012050A-1R3N	2.1	100/0.25	0.0140	7.000
3	J-IRSD12012050A-1R3N	3.1	100/0.25	0.0170	6.000
4	J-IRSD12012050A-1R3N	4.4	100/0.25	0.0200	5.000
5	J-IRSD12012050A-1R3N	5.8	100/0.25	0.0210	4.400
6	J-IRSD12012050A-1R3N	7.5	100/0.25	0.0240	4.200
7	J-IRSD12012050A-100N	10.0	100/0.25	0.0250	4.000
8	J-IRSD12012050A-120M	12.0	100/0.25	0.0270	3.500
9	J-IRSD12012050A-150M	15.0	100/0.25	0.0300	3.300
10	J-IRSD12012050A-180M	18.0	100/0.25	0.0340	3.000
11	J-IRSD12012050A-220M	22.0	100/0.25	0.0360	2.800
12	J-IRSD12012050A-270M	27.0	100/0.25	0.0510	2.300
13	J-IRSD12012050A-330M	33.0	100/0.25	0.0570	2.100
14	J-IRSD12012050A-390M	39.0	100/0.25	0.0680	2.000
15	J-IRSD12012050A-470M	47.0	100/0.25	0.0750	1.800
16	J-IRSD12012050A-560M	56.0	100/0.25	0.1100	1.700
17	J-IRSD12012050A-680M	68.0	100/0.25	0.1200	1.500
18	J-IRSD12012050A-820M	82.0	100/0.25	0.1400	1.400
19	J-IRSD12012050A-101M	100.0	100/0.25	0.1600	1.300
20	J-IRSD12012050A-121M	120.0	100/0.25	0.1700	1.100
21	J-IRSD12012050A-151M	150.0	100/0.25	0.2300	1.000
22	J-IRSD12012050A-181M	180.0	100/0.25	0.2900	0.900

Test remarks:

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2.IDC:DC current at which the inductance drops approximate 35%from its value without current.

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客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

4. IRSD12012070A电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance (uH)	Test Freq. (KHz)	DCR Max. (Ω)	IDC Max. (A)
1	J-IRSD12012070A-1R2N	1.2	100/0.25	0.0070	9.800
2	J-IRSD12012070A-2R4N	2.4	100/0.25	0.0120	8.000
3	J-IRSD12012070A-3R5N	3.5	100/0.25	0.0140	7.500
4	J-IRSD12012070A-4R7N	4.7	100/0.25	0.0160	6.800
5	J-IRSD12012070A-6R1N	6.1	100/0.25	0.0180	6.600
6	J-IRSD12012070A-7R6N	7.6	100/0.25	0.0200	5.900
7	J-IRSD12012070A-100N	10.0	100/0.25	0.0220	5.400
8	J-IRSD12012070A-120M	12.0	100/0.25	0.0240	4.900
9	J-IRSD12012070A-150M	15.0	100/0.25	0.0300	4.500
10	J-IRSD12012070A-180M	18.0	100/0.25	0.0390	3.900
11	J-IRSD12012070A-220M	22.0	100/0.25	0.0430	3.600
12	J-IRSD12012070A-270M	27.0	100/0.25	0.0460	3.400
13	J-IRSD12012070A-330M	33.0	100/0.25	0.0650	3.000
14	J-IRSD12012070A-390M	39.0	100/0.25	0.0730	2.750
15	J-IRSD12012070A-470M	47.0	100/0.25	0.1000	2.500
16	J-IRSD12012070A-560M	56.0	100/0.25	0.1100	2.350
17	J-IRSD12012070A-680M	68.0	100/0.25	0.1400	2.100
18	J-IRSD12012070A-820M	82.0	100/0.25	0.1600	1.950
19	J-IRSD12012070A-101M	100.0	100/0.25	0.2200	1.700
20	J-IRSD12012070A-121M	120.0	100/0.25	0.2500	1.600
21	J-IRSD12012070A-151M	150.0	100/0.25	0.2800	1.420
22	J-IRSD12012070A-181M	180.0	100/0.25	0.3500	1.300

Test remarks:

1.All test data is referenced to 25 °C ambient.

2.IDC:DC current at which the inductance drops approximate 35%from its value without current.

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4. IRSD12012090A电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance (uH)	Test Freq. (KHz)	DCR Max. (Ω)	IDC Max. (A)
1	J-IRSD12012090A-1R0N	1.0	100/0.25	0.0060	19.900
2	J-IRSD12012090A-1R8N	1.8	100/0.25	0.0070	13.400
3	J-IRSD12012090A-2R5N	2.5	100/0.25	0.0080	12.160
4	J-IRSD12012090A-3R5N	3.5	100/0.25	0.0100	12.000
5	J-IRSD12012090A-4R7N	4.7	100/0.25	0.0110	10.080
6	J-IRSD12012090A-6R8N	6.8	100/0.25	0.0130	8.560
7	J-IRSD12012090A-100N	10.0	100/0.25	0.0180	7.120
8	J-IRSD12012090A-120M	12.0	100/0.25	0.0190	7.040
9	J-IRSD12012090A-150M	15.0	100/0.25	0.0260	5.840
10	J-IRSD12012090A-180M	18.0	100/0.25	0.0280	5.480
11	J-IRSD12012090A-220M	22.0	100/0.25	0.0290	5.120
12	J-IRSD12012090A-270M	27.0	100/0.25	0.0420	4.680
13	J-IRSD12012090A-330M	33.0	100/0.25	0.0530	4.250
14	J-IRSD12012090A-390M	39.0	100/0.25	0.0580	3.920
15	J-IRSD12012090A-470M	47.0	100/0.25	0.0630	3.6C
16	J-IRSD12012090A-560M	56.0	100/0.25	0.0680	2.850
17	J-IRSD12012090A-680M	68.0	100/0.25	0.0930	2.760
18	J-IRSD12012090A-820M	82.0	100/0.25	0.0990	2.620
19	J-IRSD12012090A-101M	100.0	100/0.25	0.1260	2.310
20	J-IRSD12012090A-121M	120.0	100/0.25	0.1540	2.050
21	J-IRSD12012090A-151M	150.0	100/0.25	0.1740	1.800
22	J-IRSD12012090A-181M	180.0	100/0.25	0.1910	1.660

Test remarks:

1.All test data is referenced to 25 °C ambient.

2.IDC:DC current at which the inductance drops approximate 35%from its value without current.

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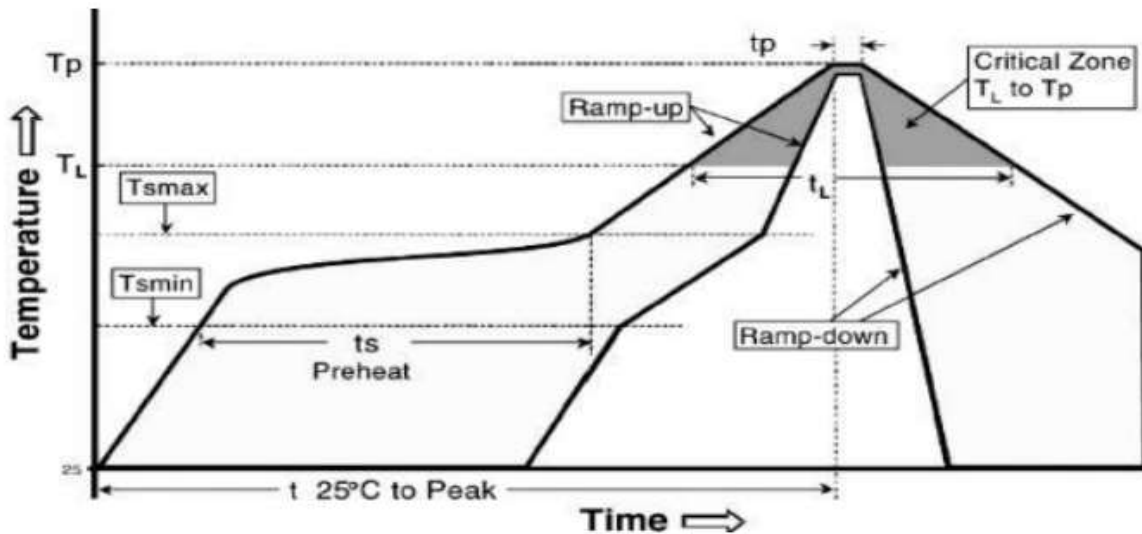
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Address: Building 2-10, Hengshan Science City, Hengyang City, Hunan Province, China

客户名称 Customer	N/A	品名 Name	Magnetic enclosure shielding inductance	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.9
客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

5. 建议回流焊温度曲线/Reflow temperature profile is recommended:



Profile Feature	Lead (Pb)-Free solder
Preheat:	
Temperature Min (T_{smin})	150°C
Temperature Max (T_{smax})	200°C
Time (T_{smin} to T_{smax}) (t_s)	60 - 120 seconds
Average ramp-up rate: (T_{smax} to T_p)	3°C / second max.
Time maintained above :	
Temperature (T_L)	217°C
Time (t_L)	60-150 seconds
Peak Temperature (T_p)	260°C
Time within $+0$ -5 °C of actual peak Temperature (t_p) ²	10 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8minutes max.

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6. 可靠性测试/Reliability Test:

Item	Specification and Requirement	Test Method								
Solderability	1. No case deformation or change in appearance 2. New solder coverage More than 90%	1. Preheat: 155°C ± 5°C , 60S ± 2S 2. Tin: lead-free. 3. Temperature: 245°C ± 5°C , flux 3.0S ± 0.5S.								
Mechanical shock	1. No case deformation or change in appearance 2. $\Delta L/Lo \leq \pm 10\%$	1. Acceleration: 100G 2. Pulse time: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions								
Mechanical vibration	1. No case deformation or change in appearance 2. $\Delta L/Lo \leq \pm 10\%$	1. The test samples shall be soldered to the board. Then it shall be submitted to below test conditions. <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">Fre. Range</td> <td style="font-size: 8px;">10-55Hz</td> </tr> <tr> <td style="font-size: 8px;">Total Amplitude</td> <td style="font-size: 8px;">1.5mm</td> </tr> <tr> <td style="font-size: 8px;">Sweeping Method</td> <td style="font-size: 8px;">10Hz to 55Hz to 10Hz</td> </tr> <tr> <td style="font-size: 8px;">Time</td> <td style="font-size: 8px;">For 2 hours on each X, Y, Z axis.</td> </tr> </table> 2. Recovery: At least 2 hours of recovery under the standard condition after the test, followed by the measurement within 24 ± 2 hours.	Fre. Range	10-55Hz	Total Amplitude	1.5mm	Sweeping Method	10Hz to 55Hz to 10Hz	Time	For 2 hours on each X, Y, Z axis.
Fre. Range	10-55Hz									
Total Amplitude	1.5mm									
Sweeping Method	10Hz to 55Hz to 10Hz									
Time	For 2 hours on each X, Y, Z axis.									
Thermal Shock	Inductance change: Within ± 10% Without distinct damage in appearance	1. First -55°C for 30 minutes, last 125°C for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 2 minutes. 3. Measured at room temperature after placing for 24 ± 2 hours								
Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in appearance	1. Reflow 2 times, 2. 85°C, 85%RH, 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours								
Low temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature: -55 ± 2°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours								

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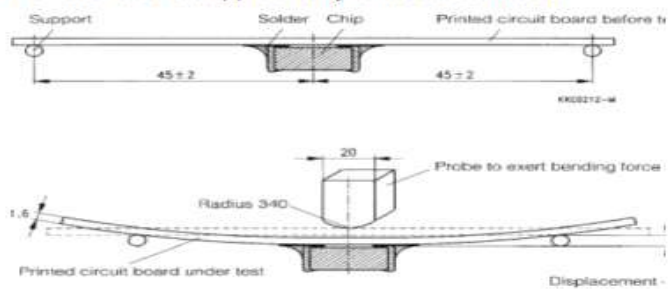
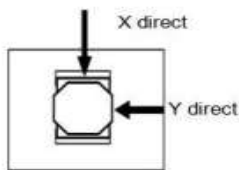
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客户名称 Customer	N/A	品名 Name	Magnetic enclosure shielding inductance	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.9
客户料号 Customer No.	N/A	型号 Model No.	IRSD Series	发行号 Release No.	JS-S-24090901

6. 可靠性测试/Reliability Test:

High temperature storage	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	<ol style="list-style-type: none"> 1. Temperature: $+125 \pm 2^\circ\text{C}$ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours
Board Flex	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	<ol style="list-style-type: none"> 1. Run through IR reflow for 2 times; 2. Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down 3. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. 4. The duration of the applied forces shall be 60 ± 5 sec. The force is to be applied only once to the board. 
Terminal Strength	No removal or split of the termination or other defects shall occur.	<ol style="list-style-type: none"> 1. The test samples shall be soldered to the board 2. Push the product vertically from the side of the sample using the thrust tester. 3. Automotive electronics: 17.7N, 60S± 1s, X, Y direct. 

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