

# 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:	METAL ALLOY POWDER MOLDING INDUCTORS
巨维型号/JW Model number:	MHS252012A系列
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			
2024.8.2	2024.8.2	2024.8.2			

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深圳市巨维科技有限公司  
Shenzhen Ju Wei Technology Co., Ltd

客户名称 Customer	N/A	品名 Name	METAL ALLOY POWDER MOLDING INDUCTORS	版本 Ver.	A00
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客户料号 Customer No.	N/A	型号 Model No.	MHS252012A系列	发行号 Release No.	JS-S-24080203

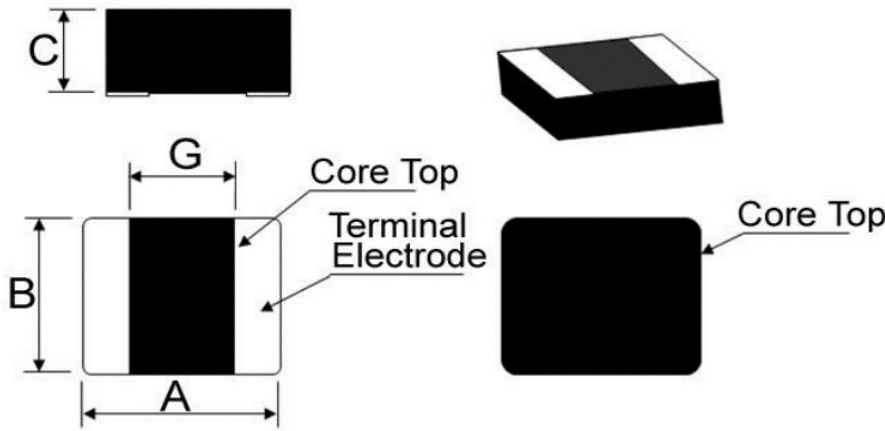
变更履历/Modify Record

版本 Ver.	变更内容/Change content	日期 Date	制定 Prepared By	审核 Checked By
A00	新发行/New release	2024.8.2	唐秀玲	王瑞琳

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



A	2.5±0.2
B	2.0±0.2
C	1.2Max
G	0.7±0.2

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

J    MHS    252012    -    2R2    M  
①        ②                    ③                    ④                    ⑤

①	公司名称代码/Company name code
J	巨晟科技简称/JS abbreviation
②	品名别编码/Product name code
MHS	一体成型电感/Molded Power Inductor
③	产品外形尺寸(毫米)/Product dimension(mm)
252012	长2.5*宽2.0*高1.2毫米/Length2.5 *Width2.0 *Height1.2mm
④	电感量标识(亨利)/Inductance identification(H)
2R2	R22(0.22μH) , 2R2(2.2μH) , 220(22μH) , 101(100μH) , 202(2000μH)
⑤	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%
⑥	内部管理代码/Internal management code
T	无代码为常规产品, 其它请咨询/No code regular product, other please consult

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**3. 耐高温等级/Temperature resistance class:**

工作温度: -55°C~ +125°C(含自温升)

Operating Temperature : -55°C ~ +125°C(Including self - temperature rise)

储存温度/湿度: -10°C~ +40°C and RH70% Max

Storage temp and humidity : -10°C~ +40°C and RH70% Max

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

NO.	Part Number	Inductance (uH)	DCR (mΩ)		Isat (A)		Irms (A)	
		1MHz/0.1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
1	J-MHS252012A-R10M	0.1	10.0	6.0	12.6	13.5	10.7	12.5
2	J-MHS252012A-R15M	0.15	11.0	7.0	12.2	13.1	10.2	11.7
3	J-MHS252012A-R22M	0.22	14.0	9.0	9.2	9.8	7.7	8.3
4	J-MHS252012A-R24M	0.24	15.0	10.0	8.9	9.4	7.6	8.1
5	J-MHS252012A-R33M	0.33	17.0	11.0	7.9	8.4	6.5	6.9
6	J-MHS252012A-R47M	0.47	19.0	13.0	7.1	7.6	6.2	6.7
7	J-MHS252012A-R68M	0.68	23.0	17.0	6.2	6.6	5.6	6.4
8	J-MHS252012A-1R0M	1.0	42.0	35.0	5.1	5.7	3.7	4.0
9	J-MHS252012A-1R5M	1.5	50.0	44.0	4.2	4.6	3.3	3.8
10	J-MHS252012A-2R2M	2.2	65.0	55.0	3.4	3.8	28.0	3.0
11	J-MHS252012A-3R3M	3.3	97.0	80.0	2.8	3.1	1.9	2.4
12	J-MHS252012A-4R7M	4.7	170.0	150.0	2.2	2.5	1.6	1.8
13	J-MHS252012A-6R8M	6.8	270.0	245.0	1.8	2.1	1.5	1.7
14	J-MHS252012A-100M	10.0	400.0	330.0	1.5	1.6	1.1	1.2

Test remarks:

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

2.Irms:DC current (A) that will cause an approximate ΔT of 40 °C.

3.Isat:DC current (A) that will cause L0 to drop approximately 30%.

4.The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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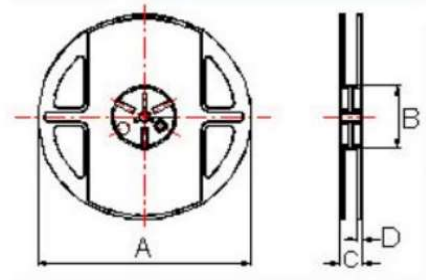
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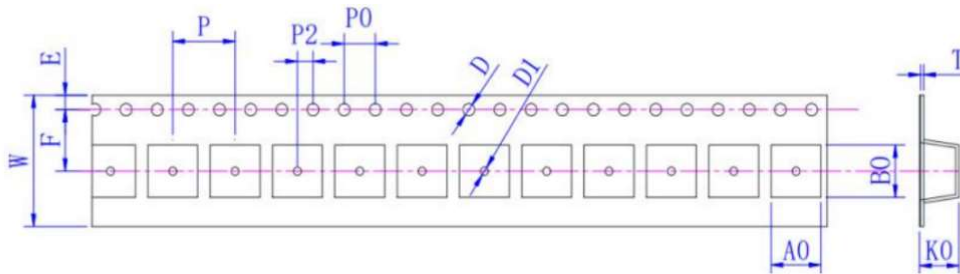
5. 包装/PACKAGE :

(1) Reel Dimensions (Unit:mm)

Type	A	B	C	D
	±0.5	±0.5	±0.5	±1
All	178	60	12	1.5



(2) Tape Dimensions(Unit:mm)



Series	W	A0	B0	D	D1	E	F	K0	P0	P2	P	T
252012	±0.30	±0.05	+0.1/-0	+0.1/-0	Min	±0.10	±0.10	±0.05	±0.10	±0.10	±0.10	±0.05

(3) Packaging Quantity (Unit:Pcs)

P/N	Chip/Reel
MHS252012	3000

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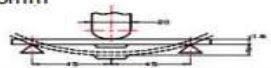
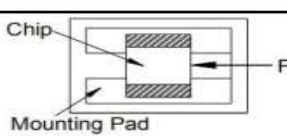
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6. 可靠性测试/Reliability Test:

1-1.Mechanical Performance					
No	Item	Specification	Test Method		
1-1-1	Flexure Strength	The forces applied on the right conditions must not damage the terminal electrode and the metal body	Test device shall be soldered on the substrate, Substrate Dimension: 100x40x1.6mm Deflection: 2.0mm Keeping Time: 30sec 		
1-1-2	Vibration	Appearance: No damage(for microscope of CASTOR MZ-45 20X) Inductance change shall be within ±20%	Test device shall be soldered on the substrate, Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs		
1-1-3	Resistance to Soldering Heat	Appearance: No damage More than 75% of the terminal. electrode should be covered with solder, inductance:within±20% of initial value	Pre-heating: 150°C, 1min Solder Composition: Sn/Ag3.0/Cu0.5 Solder Temperature: 260±5°C Immersion Time: 30±1sec		
1-1-4	Solder ability	The electrodes shall be at least 95% covered with new solder coating	Pre-heating: 150°C, 1min Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free) Solder Temperature: 245±3°C Immersion Time:4±1sec		
1-1-5	Terminal Strength Test	No split termination 	Test device shall be soldered on the substrate, then apply a force in the direction of the arrow, Force:5N Keeping Time:10±1sec		
1-2.Environmental Performance					
No	Item	Specification	Test Method		
1-2-1	Temperature Cycle	Appearance: No damage Inductance:within±10% of initial value	One cycle:		
			Step	Temperature (°C)	Time (min)
			1	-40±3	30
			2	25±2	3
			3	125±3	30
4	25±2	3			
			Total: 100cycles Measured after exposure in the room condition for 24hrs		
1-2-2	Humidity Resistance		1000 hours 85°C/85%RH. Unpowered. Measurement at 24±4 hours after test conclusion.		
1-2-3	High Temperature Resistance		Temperature: 85±3°C Relative Humidity:0% / Time:500hrs Measured after exposure in the room condition for 24hrs		
1-2-4	Low Temperature Resistance		Temperature: -40±3°C Relative Humidity: 0% / Time: 500hrs Measured after exposure in the room condition for 24hrs		

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