

客户名称/Customer name:

客户品名/Customer name:

客户型号/Customer Model number:

客户料号/Customer material number:

深圳市巨维科技有限公司

Shenzhen Ju Wei Technology Co., Ltd

产品承认书

Specification For Approved

N/A
N/A
N/A
N/A
Molding power inductors

版本: REV.A00

 巨维品名/JW name:
 Molding power inductors

 巨维型号/JW Model number:
 MHS252010A 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			
2024.8.22	2024.8.22	2024.8.22			

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客户名称	Ι ΙΝΙ/Δ	品名 Name	Molding power inductors		版本 Ver.		A00
客户型 ⁵ Model N	Ι ΝΙ/Δ	料号 Material No.	N/A		日期 Date		2024.8.22
客户料号 Customer I	I INI/A	型 덕 Model No.	MHS252	010A Series	发行号 Release No.	JS-	-S-24082201
		变更履历	/Modif	y Record			
版本 Ver.	变更内容/Char	nge content		日期 Date	制定 Prepare		审核 Checked By
A00	新发行/New	v release		2024.8.22	唐秀	玲	王瑞琳
(人) (計画)		ルマ 2.4 佐南芸		L			

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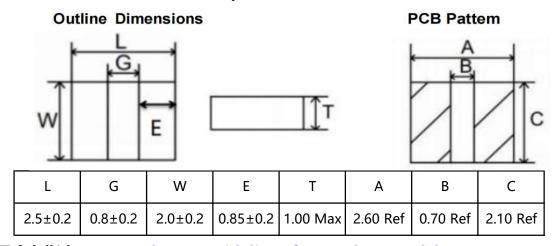
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1. 产品形状尺寸(单位:毫米)/Product Shape size(Unit:mm):



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

<u>J</u> –	MHS	<u>252010</u>	<u>A</u> -	2R2	<u>M</u> –	<u>X</u>
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
MHS	成型功率电感/Molding power inductors
3	产品外形尺寸(毫米)/Product dimension(mm)
252010	长2.5*宽2.0*高1.0毫米/Length2.5 *Width2.0 *Height1.0mm
4	外观形状区分代码,请参考产品形状尺寸页面
Α	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
М	J±5% , K±10% , L±15% , M±20% , P±25% , N±30%
7	内部管理代码/Internal management code
Х	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. 耐温等级/Temperature resistance class:

工作温度: -55℃~ +125℃(含自温升)

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

4. 电气性能表/Electrical Characteristics List:

NO.	Part Number	Inductance	DCR	(mΩ)	Isat	(A)	Irms	(A)			
100.	. Fait Number	Part Number	, Part Number	io. Part Number	(uH)	Max.	Тур.	Max.	Тур.	Max.	Тур.
1	J-MHS252010A-R22M	0.22	17.0	12.0	7.9	8.6	6.5	6.8			
2	J-MHS252010A-R24M	0.24	17.5	12.0	7.8	8.5	6.4	6.7			
3	J-MHS252010A-R33M	0.33	19.0	13.0	7.2	7.6	6.2	6.5			
4	J-MHS252010A-R47M	0.47	22.0	15.0	6.5	6.9	5.6	6.1			
5	J-MHS252010A-R68M	0.68	27.0	23.0	5.5	5.9	5.0	5.6			
6	J-MHS252010A-1R0M	1.0	30.0	25.0	4.8	5.3	4.1	4.5			
7	J-MHS252010A-1R5M	1.5	55.0	45.0	3.9	4.3	3.0	3.4			
8	J-MHS252010A-2R2M	2.2	70.0	62.0	3.0	3.3	2.1	2.4			
9	J-MHS252010A-3R3M	3.3	100.0	86.0	2.5	2.8	2.1	2.5			
10	J-MHS252010A-4R7M	4.7	180.0	160.0	2.0	2.6	1.6	2.0			
11	J-MHS252010A-6R8M	6.8	320.0	270.0	1.9	2.4	1.4	1.6			
12	J-MHS252010A-100M	10.0	560.0	500.0	1.4	1.55	0.95	1.05			
13	J-MHS252010A-220M	22.0	1300.0	1100.0	0.9	1.1	0.6	0.85			
				_							

Test remarks:

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

2.Test Condition:1MHz, 1.0Vrms.

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

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

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

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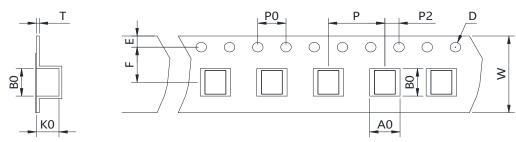


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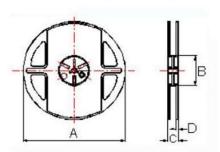
5. 包装/PACKAGE:

(1) Tape Dimensions(Unit:mm)



Part No.	W	A0	В0	K0	D	F	Е	Р	P0	P2	Т
MHS252010A	8.0	2.45	2.8	1.2	1.5	3.5	1.75	4.0	4.0	2.0	0.25
IVIH3232010A	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05

(2) Reel Dimensions (Unit:mm)



Item	Α	В	С	D
Dimension	178.0	60.0	13.0	1.5
	±2.0	±2.0	±2.0	±1.0

(3) Packaging Quantity (Unit:Pcs)

P/N	Chip/Reel
MHS252010A	3000

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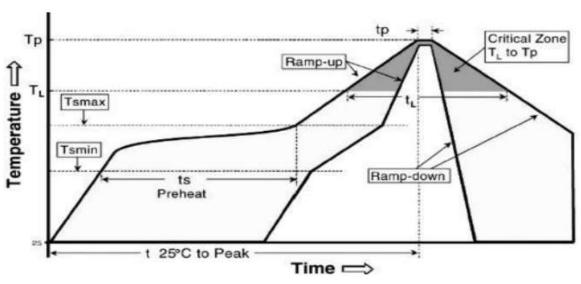
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6. 建议回流焊温度曲线/Reflow temperature profile is recommended:



Profile Feature	Lead (Pb)-Free solder		
Preheat:			
Temperature Min (Ts _{min})	150°C		
Temperature Max (Ts _{max})	200°C		
Time (Ts _{min} to Ts _{max}) (ts)	60 - 120 seconds		
Average ramp-up rate:			
(Ts max to Tp)	3℃ / second max.		
Time maintained above :			
Temperature (TL)	217°C		
Time (ti)	60-150 seconds		
Peak Temperature (Tp)	260°C		
Time within $^{+0}_{-5}$ ℃ of actual peak Temperature (tp)²	10 seconds		
Ramp-down Rate	6℃/second max.		
Time 25℃ to Peak Temperature	8minutes max.		

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7. 可靠性测试/Reliability Test:

Item	Specification and Requirement	Test Method	
Solderability	1. No case deformation or change in apperarance 2. New solder coverage More than 90%	1.Preheat: 155℃±5℃, 60S±2S 2.Tin: lead-free. 3.Temperature:245℃±5℃, flux 3.0S±0.5S.	
Mechanical shock	1. No case deformation or change in apperarance 2. △L/Lo≦ ±10%	Acceleration: 100G 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 apperarance 2. △L/Lo≦ ±10%	The test samples shall be soldered to the board. Then it shall be submitted to below test conditions. Fre. Range	
Thermal Shock	Inductance change: Within ± 10% Without distinct damage in appearance	 First -55°C for 30 minutes, last 125°C for 30 minute as 1 cycle. Go through 1000 cycles. Max transfer time is 2 minutes. Measured at room temperature after placing for 24 ± hours 	
Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in appearance	1.Reflow 2 times, 2.85 ℃,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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7. 可靠性测试/Reliability Test:

High temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	 Temperature: +125 ± 2℃ Time: 1000 hours Measured at room temperature after placing for 24±2 hours
Board Flex	Inductance change: Within ± 10% Without distinct damage in appearance	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 sectors. The force is to be applied only once to the board. Support Solder Chip Printed circuit board before to exert bending force. Printed circuit board under tost Displacement.
Terminal Strength	No removal or split of the termination or other defects shall occur.	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, Ydirect. X direct

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