

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:	Plastic inductors
巨维型号/JW Model number:	MRPE565040 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
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2024.9.7	2024.9.7	2024.9.7			

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JS-RD-SPEC-001/A0

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

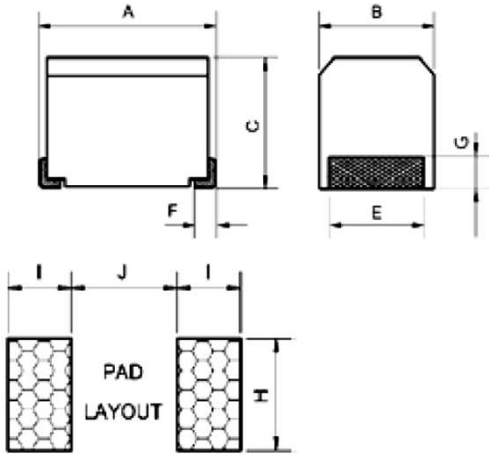
客户名称 Customer	N/A	品名 Name	Plastic inductors	版本 Ver.	A00
客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.7
客户料号 Customer No.	N/A	型号 Model No.	MRPE565040 Series	发行号 Release No.	JS-S-24090705

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	2024.9.7	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	B	C	E	F	G	H	I	J
5.6 ±0.3	5.0 ±0.2	4.0 ±0.3	4.0 ±0.1	0.7 ±0.1	1.10	4.50	2.00	4.00

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

J - MRPE 565040 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
MRPE	塑封电感/Plastic inductors
③	产品外形尺寸(毫米)/Product dimension(mm)
565040	长5.6*宽5.0*高4.0毫米/Length5.6 *Width5.0 *Height4.0mm
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

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3. 耐高温等级/Temperature resistance class:

工作温度: -40 ~ +125℃(含自温升)

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

4. 电气性能表/Electrical Characteristics List:

NO.	Part Number	电感值 Inductance (uH)	Q值 min.	测试频率 Test frequency L,Q (MHz)	自谐频率 Self- resonant frequency (MHz)min.	直流电阻 DC resistance (Ω) max.	额定电流 Rated current. (mA)max.	电感允差 Inductance tolerance
1	J-MRPE565040A-1R0X	1.0	10	7.960	130.0	0.050	2900.0	±10%, ±20%
2	J-MRPE565040A-1R5X	1.5	10	7.960	115.0	0.050	2600.0	±10%, ±20%
3	J-MRPE565040A-2R2X	2.2	10	7.960	90.0	0.070	2300.0	±10%, ±20%
4	J-MRPE565040A-3R3X	3.3	10	7.960	70.0	0.080	2000.0	±10%, ±20%
5	J-MRPE565040A-4R7X	4.7	10	7.960	50.0	0.090	1500.0	±10%, ±20%
6	J-MRPE565040A-6R8X	6.8	10	7.960	45.0	0.130	1200.0	±10%, ±20%
7	J-MRPE565040A-100X	10.0	10	2.520	35.0	0.160	1100.0	±10%, ±20%
8	J-MRPE565040A-150X	15.0	10	2.520	30.0	0.230	900.0	±10%, ±20%
9	J-MRPE565040A-220X	22.0	10	2.520	20.0	0.370	700.0	±10%, ±20%
10	J-MRPE565040A-330X	33.0	10	2.520	15.0	0.510	580.0	±10%, ±20%
11	J-MRPE565040A-470X	47.0	10	2.520	14.0	0.640	500.0	±10%, ±20%
12	J-MRPE565040A-680X	68.0	10	2.520	11.0	0.860	400.00	±10%, ±20%
13	J-MRPE565040A-101X	100.0	10	0.796	9.0	1.270	300.0	±5%, ±10%
14	J-MRPE565040A-151X	150.0	10	0.796	6.0	2.000	250.0	±5%, ±10%
15	J-MRPE565040A-221X	220.0	10	0.796	5.5	3.110	200.0	±5%, ±10%
16	J-MRPE565040A-331X	330.0	10	0.796	5.0	3.800	160.0	±5%, ±10%
17	J-MRPE565040A-471X	470.0	10	0.796	4.0	6.200	150.0	±5%, ±10%

Test remarks:

1.Rated current: Value obtained when current flows and the temperature has risen to 20℃ or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller

2.Test equipment L, Q: HP4285A +16034E, or equivalent.

3.SRF: HP8753C NETWORK ANALYZER, or equivalent.

4.DC resistance: AX-111A DIGITAL MILLIOHM METER, or equivalent.

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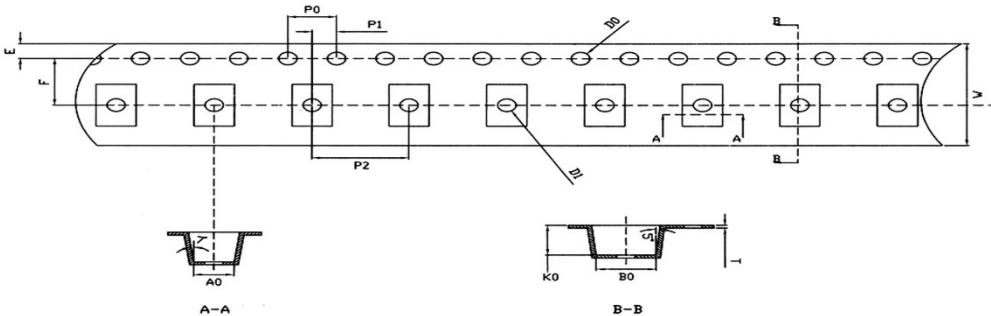
NO.	Part Number	电感值 Inductance (uH)	Q值 min.	测试频率 Test frequency L,Q (MHz)	自谐频率 Self- resonant frequency (MHz)min.	直流电阻 DC resistance (Ω) max.	额定电流 Rated current. (mA)max.	电感允差 Inductance tolerance
1	J-MRPE565040A-681X	680.0	10	0.796	3.00	9.200	120.0	±5%, ±10%
2	J-MRPE565040A-102X	1000.0	10	0.252	2.00	13.800	70.0	±5%, ±10%

Test remarks:
1.Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller
2.Test equipment L, Q: HP4285A +16034E, or equivalent.
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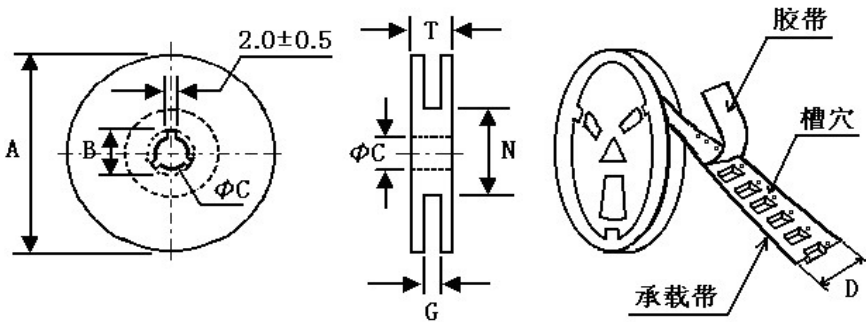
5. 包装/PACKAGE :

(1) Tape Dimensions(Unit:mm)



W	AO	BO	KO	E	F	P	PO	DO	D1	T
16.0	5.35	6.10	4.5	1.75	7.5	12	4.0	1.5	1.5	0.35
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.3	±0.05

(2) Reel Dimensions (Unit:mm)



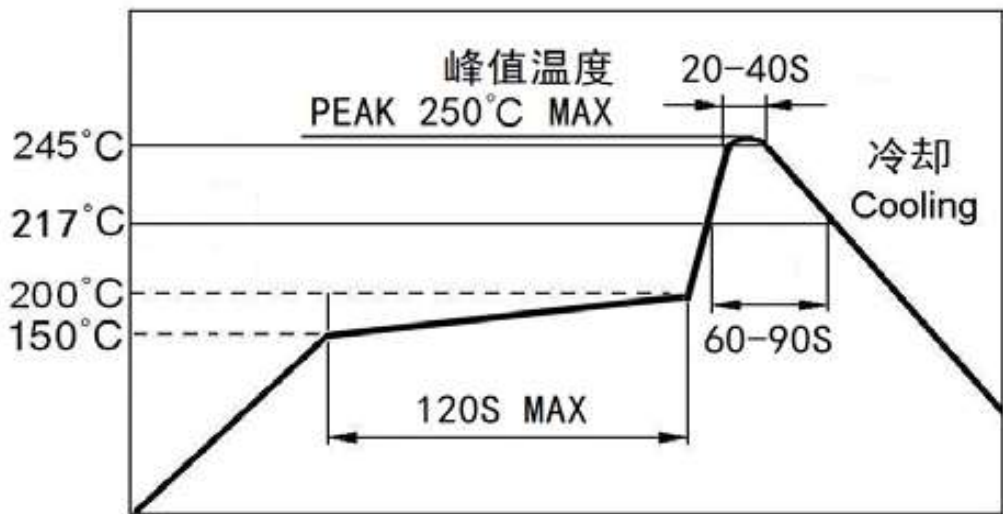
规格Type	A	B	C	D	G	N	T
13"	330 Ref	23 Ref	13 Ref	16 Ref	17.5 Max	100 Min	22.4 Max

(3) Packaging Quantity (Unit:Pcs)

盘包装Reel	内盒Inner Box (mm)	外箱Outer Box (mm)
1000 支/盘pieces/Reel	4000支/盒pieces/Inner Box	16000支/箱pieces/Outer Carton

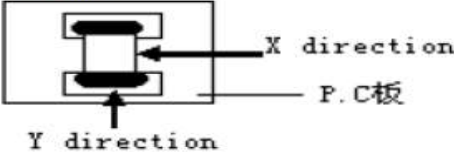
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客户型号 Model No.	N/A	料号 Material No.	N/A	日期 Date	2024.9.7
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6. 建议回流焊温度曲线/Reflow temperature profile is recommended:



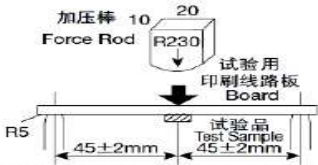
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7. 可靠性测试/Reliability Test:

项目 Requirements	试验条件 Test method	性能要求 Characteristics																					
高温试验 High TEMP life test	温度: 125±3℃; 放置时间: 1000±6Hrs; TEMP. 125±3℃, Load 1000±6Hrs.	外观无显著异常; 电感值变化率: ±10%以内; Inductance change : Within ±10%; No significant abnormality in appearance.																					
低温试验 Low TEMP life test	温度: -40±2℃; 放置时间: 1000±6Hrs; TEMP. -40±2℃, Load 1000±6Hrs	外观无显著异常; 电感值变化率: ±10%以内; Inductance change : Within ±10%; No significant abnormality in appearance.																					
高湿试验 Damp heat	温度: 40±2℃, 相对湿度90~95%RH; 放置时间: 1000±6Hrs; TEMP. 40±2℃, Humidity. 90 ~ 95%RH, Load 1000±6Hrs	外观无显著异常; 电感值变化率: ±10%以内; Inductance change : Within ±10%; No significant abnormality in appearance.																					
热冲击试验 Thermal shock	将试验品焊接到印刷线路板上,按下表所示循环步骤,10个循环 <table><tr><th colspan="3">1个循环条件Conditions of 1 cycle</th></tr><tr><td>步骤 Step</td><td>温度 (℃) TEMP</td><td>时间 (min) Duration</td></tr><tr><td>1</td><td>-40±3</td><td>30±3</td></tr><tr><td>2</td><td>常温</td><td>3以下</td></tr><tr><td>3</td><td>+125±2</td><td>Within 3</td></tr><tr><td>4</td><td>常温</td><td>3以下</td></tr><tr><td></td><td>Room TEMP</td><td>Within 3</td></tr></table>	1个循环条件Conditions of 1 cycle			步骤 Step	温度 (℃) TEMP	时间 (min) Duration	1	-40±3	30±3	2	常温	3以下	3	+125±2	Within 3	4	常温	3以下		Room TEMP	Within 3	外观无显著异常; 电感值变化率: ±10%以内; Inductance change : Within ±10%; No significant abnormality in appearance.
1个循环条件Conditions of 1 cycle																							
步骤 Step	温度 (℃) TEMP	时间 (min) Duration																					
1	-40±3	30±3																					
2	常温	3以下																					
3	+125±2	Within 3																					
4	常温	3以下																					
	Room TEMP	Within 3																					
端子强度试验 Adhesion of terminal electrode	试验品焊接到试验用印刷线路板上,施加力9.8N(1kg),施加时间10±2sec,方向: X、Y The test samples shall be soldered to the test board by the reflow. 	外观无显著异常; 电感值变化率: ±10%以内; Inductance change : Within ±10%; No significant abnormality in appearance.																					
耐振性 Resistance to vibration	将产品焊接到印刷线路板上,按下示条件进行测试: 振动频率范围: 10~55Hz; 振幅: 1.5mm (但加速度不能超过196m/s²); 1个循环: 1分钟 (10→55→10Hz); 时间: X、Y、Z方向各2小时 The test samples shall be soldered to the test board by the reflow. Then it shall be submitted to below conditions. Frequency Range:10~55Hz; Total Amplitude :1.5mm (May not exceed acceleration 196m/s²); Sweeping Method: 10→55→10Hz for 1min Time: For 2 hours on each X, Y, and Z axis.	外观无显著异常; 电感值变化率: ±10%以内; Inductance change : Within ±10%; No significant abnormality in appearance.																					

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7. 可靠性测试/Reliability Test:

抗弯强度试验 Resistance to flexure of substrate	将试验品焊接到试验用印刷线路板上，如图所示在印刷线路板上按箭头方向施加荷重，使其弯曲 2mm 为止。 The test samples shall be soldered to the test board by the reflow. Then apply a force in the direction shown below, flexure: 2mm. 	外观无显著异常，无破损； 电感值变化率：±10%以内； Inductance change: Within ±10%; No significant abnormality in appearance, No damage.
可焊性试验 Solderability	焊锡温度：250±5℃ 浸渍时间：5±0.5ses 浸渍深度：安装端子面浸入。 Solder Temperature:250±5℃ Time: 5±0.5ses All sides of mounting terminal shall be immersed.	端电极新锡覆盖面积达95%以上 At least 95% of surface of terminal electrode is covered by new solder.
耐焊接热试验 Resistance to soldering heat	方法1：将端子在250±5℃的焊液中浸入10±1秒后常温放置2小时以上 Method 1: Immerse in the solder of 250±5℃ for 10±1sec, load in room Temperature 2 hours. 方法2：峰值温度 250℃保持 20-40 秒回流焊接两遍试验，放置 30 分钟后检测（Per MIL-STD-202F） Method 2: The test sample shall be exposed to reflow with peak temperature at 250℃ for 20 to 40 seconds, 2 times. Load in room Temperature 30 min. (Per MIL-STD-202F)	外观无显著异常； 电感值变化率：±10%以内； Inductance change: Within ±10%; No significant abnormality in appearance.
温度特性 Temperature characteristic	在-40℃～+125℃环境温度范围内测试，并以20℃时的值为基准计算得出。 步骤1～5中最大电感值偏差变化率： 步骤1的温度：20℃ 步骤2的温度：最低使用温度 步骤3的温度：20℃（基准温度） 步骤4的温度：最高使用温度 步骤5的温度：20℃ Measurement of inductance shall be taken at temperature range within -40℃～+125℃. With reference to inductance value at +20℃., change rate shall be calculated. Change of maximum inductance deviation in step 1 to 5: Temperature at step 1: 20℃ Temperature at step 2: Minimum operating temperature Temperature at step 3: 20℃ (Standard temperature) Temperature at step 4 :Maximum oparating temperature Temperature at step 5 :20℃	外观无显著异常； 电感值变化率：±20%以内； Inductance change: Within ±20%; No significant abnormality in appearance.
跌落试验 Dropping	包装 OK 的产品，1m 高/木质地板或水泥地板，三次。 Packing ok product, Dropping 1m over the ground of concrete or cement, 3 times.	外观无显著异常，无破损； 电感值变化率：±10%以内； Inductance change: Within ±10%; No significant abnormality in appearance, No damage.

* 测定条件：如无特别指定时，其温度为 20±15℃，湿度为 65±20%。如在判定上如出现疑问时，可变更为 20±2℃，湿度为 65±5%。
如无特别指定时，试验后在常温、常湿中放置 1 小时以上，2 小时内测定。