

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:          | MRPE322522 Series |
| 巨维料号/JW Material number:       | N/A               |

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

|                      |     |                    |                   |                    |               |
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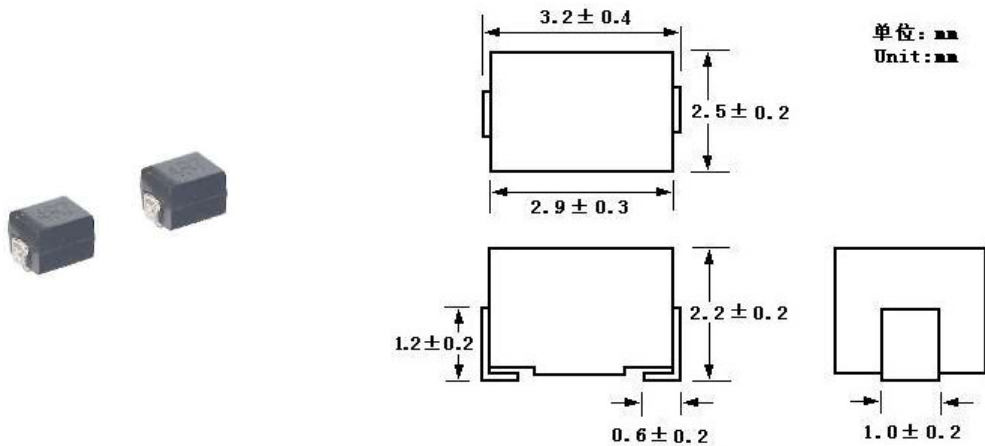
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| 版本<br>Ver. | 变更内容/Change content | 日期<br>Date | 制定<br>Prepared By | 审核<br>Checked By |
|------------|---------------------|------------|-------------------|------------------|
| A00        | 新发行/New release     | 2024.9.7   | 唐秀玲               | 王瑞琳              |
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1. 产品形状尺寸(单位:毫米)/Product Shape size(Unit:mm):



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

J - MRPE 322522 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)                                                         |
| 322522 | 长3.2*宽2.5*高2.2毫米/Length3.2 *Width2.5 *Height2.2mm                                        |
| 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    | 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)

4. 电气性能表/Electrical Characteristics List:

| NO. | Part Number        | 电感值<br>Inductance<br>(uH) | Q值<br>min. | 测试频率<br>Test<br>frequency<br>L,Q (MHz) | 自谐频率<br>Self-<br>resonant<br>frequency<br>(MHz)min. | 直流电阻<br>DC<br>resistance<br>(Ω) max. | 额定电流<br>Rated<br>current.<br>(mA)max. | 电感允差<br>Inductance<br>tolerance |
|-----|--------------------|---------------------------|------------|----------------------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------|---------------------------------|
| 1   | J-MRPE322522A-1R0M | 1.0                       | 10         | 7.960                                  | 100                                                 | 0.156                                | 770.0                                 | ±20%                            |
| 2   | J-MRPE322522A-1R5M | 1.5                       | 10         | 7.960                                  | 80                                                  | 0.195                                | 580.0                                 | ±20%                            |
| 3   | J-MRPE322522A-2R2M | 2.2                       | 10         | 7.960                                  | 65                                                  | 0.260                                | 480.0                                 | ±20%                            |
| 4   | J-MRPE322522A-3R3M | 3.3                       | 10         | 7.960                                  | 55                                                  | 0.325                                | 400.0                                 | ±20%                            |
| 5   | J-MRPE322522A-4R7M | 4.7                       | 10         | 7.960                                  | 45                                                  | 0.520                                | 320.0                                 | ±20%                            |
| 6   | J-MRPE322522A-6R8M | 6.8                       | 10         | 7.960                                  | 35                                                  | 0.650                                | 280.0                                 | ±20%                            |
| 7   | J-MRPE322522A-8R2M | 8.2                       | 10         | 7.960                                  | 31                                                  | 0.878                                | 250.0                                 | ±20%                            |
| 8   | J-MRPE322522A-100K | 10.0                      | 15         | 2.520                                  | 28                                                  | 1.105                                | 220.0                                 | ±10%                            |
| 9   | J-MRPE322522A-150K | 15.0                      | 15         | 2.520                                  | 25                                                  | 1.690                                | 180.0                                 | ±10%                            |
| 10  | J-MRPE322522A-220K | 22.0                      | 15         | 2.520                                  | 20                                                  | 2.600                                | 145.0                                 | ±10%                            |
| 11  | J-MRPE322522A-330K | 33.0                      | 15         | 2.520                                  | 15                                                  | 3.640                                | 115.0                                 | ±10%                            |
| 12  | J-MRPE322522A-390K | 39.0                      | 15         | 2.520                                  | 14                                                  | 4.500                                | 110.00                                | ±10%                            |
| 13  | J-MRPE322522A-470K | 47.0                      | 15         | 2.520                                  | 13                                                  | 5.460                                | 105.0                                 | ±10%                            |
| 14  | J-MRPE322522A-560K | 56.0                      | 15         | 2.520                                  | 11                                                  | 7.050                                | 95.0                                  | ±10%                            |
| 15  | J-MRPE322522A-680K | 68.0                      | 15         | 2.520                                  | 10                                                  | 8.450                                | 85.0                                  | ±10%                            |
| 16  | J-MRPE322522A-820K | 82.0                      | 15         | 2.520                                  | 9                                                   | 8.710                                | 80.0                                  | ±10%                            |
| 17  | J-MRPE322522A-101K | 100.0                     | 15         | 0.796                                  | 8                                                   | 9.140                                | 75.0                                  | ±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.
- 3.SRF: HP8753C NETWORK ANALYZER, or equivalent.
- 4.DC resistance: AX-111A DIGITAL MILLIOHM METER, or equivalent.

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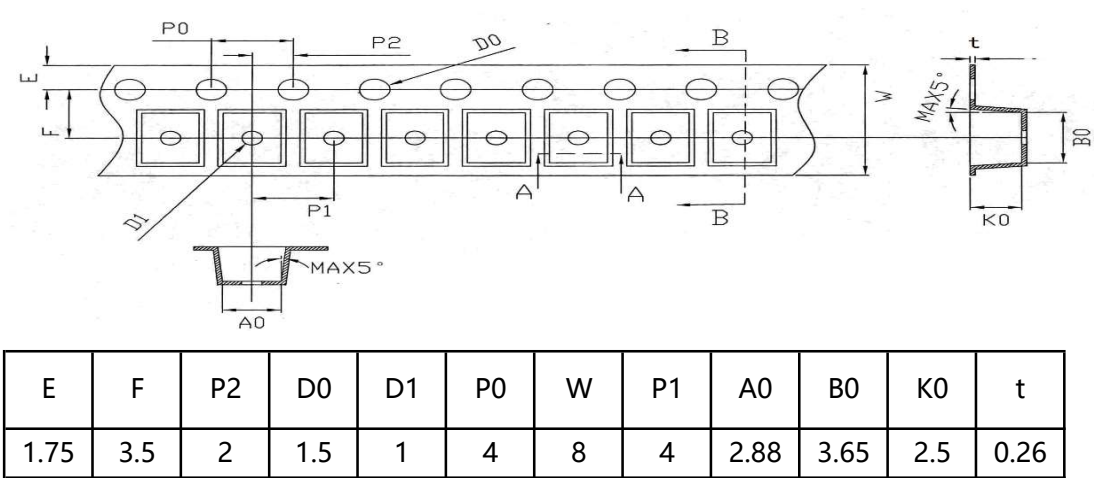
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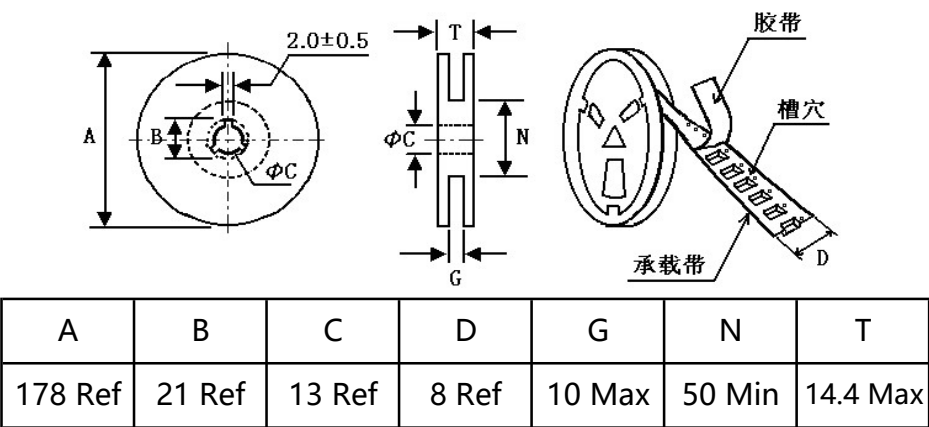
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5. 包装/PACKAGE :

(1) Tape Dimensions(Unit:mm)



(2) Reel Dimensions (Unit:mm)

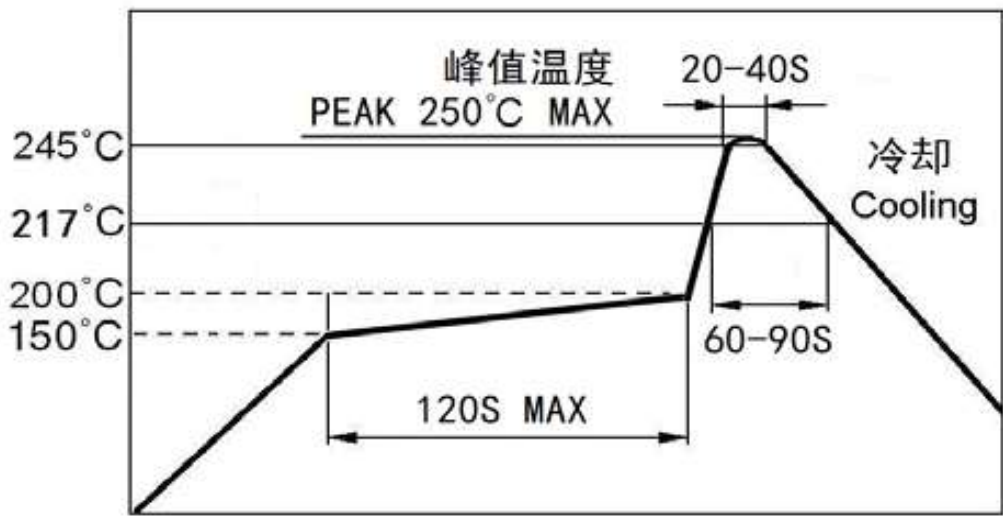


(3) Packaging Quantity (Unit:Pcs)

|                     |                          |                                  |
|---------------------|--------------------------|----------------------------------|
| 盘包装Reel             | 内盒Inner Box (mm)         | 外箱Outer Box (mm)                 |
| 2000 支/盘pieces/Reel | 12000支/盒pieces/Inner Box | 120000/240000支/箱pieces/Outer Box |
| 7"                  | 185×185×70               | 380×205×380/380×380×380          |

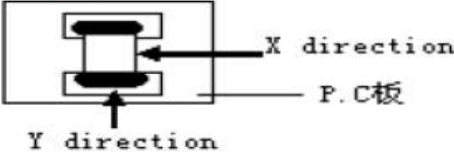
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6. 建议回流焊温度曲线/Reflow temperature profile is recommended:



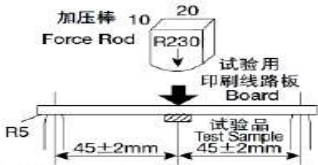
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7. 可靠性测试/Reliability Test:

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

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7. 可靠性测试/Reliability Test:

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                          |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 抗弯强度试验<br>Resistance to flexure of substrate | <p>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。<br/>The test samples shall be soldered to the test board by the reflow.<br/>Then apply a force in the direction shown below, flexure: 2mm.</p>                                                                                                                                                                                                                                                                                                                                             | <p>外观无显著异常，无破损；<br/>电感值变化率：±10%以内；<br/>Inductance change : Within ±10%;<br/>No significant abnormality in appearance,<br/>No damage.</p> |
| 可焊性试验<br>Solderability                       | <p>焊锡温度：250±5℃<br/>浸渍时间：5±0.5ses<br/>浸渍深度：安装端子面浸入。<br/>Solder Temperature:250±5℃<br/>Time: 5±0.5ses<br/>All sides of mounting terminal shall be immersed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>端电极新锡覆盖面积达95%以上<br/>At least 95% of surface of terminal electrode is covered by new solder.</p>                                       |
| 耐焊接热试验<br>Resistance to soldering heat       | <p>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<br/>Method 1: Immerse in the solder of 250±5℃ for 10±1sec, load in room Temperature 2 hours.<br/>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）<br/>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)</p>                                                                                                                                                                                                                                               | <p>外观无显著异常；<br/>电感值变化率：±10%以内；<br/>Inductance change : Within ±10%;<br/>No significant abnormality in appearance.</p>                    |
| 温度特性<br>Temperature characteristic           | <p>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。<br/>步骤1～5中最大电感值偏差变化率：<br/>步骤1的温度：20℃<br/>步骤2的温度：最低使用温度<br/>步骤3的温度：20℃（基准温度）<br/>步骤4的温度：最高使用温度<br/>步骤5的温度：20℃<br/>Measurement of inductance shall be taken at temperature range within -40℃～+125℃.<br/>With reference to inductance value at +20℃., change rate shall be calculated.<br/>Change of maximum inductance deviation in step 1 to 5:<br/>Temperature at step 1: 20℃<br/>Temperature at step 2: Minimum operating temperature<br/>Temperature at step 3: 20℃ (Standard temperature)<br/>Temperature at step 4 :Maximum oparating temperature<br/>Temperature at step 5 :20℃</p> | <p>外观无显著异常；<br/>电感值变化率：±20%以内；<br/>Inductance change : Within ±20%;<br/>No significant abnormality in appearance.</p>                    |
| 跌落试验<br>Dropping                             | <p>包装 OK 的产品，1m 高/木质地板或水泥地板，三次。<br/>Packing ok product, Dropping 1m over the ground of concrete or cement, 3 times.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>外观无显著异常，无破损；<br/>电感值变化率：±10%以内；<br/>Inductance change : Within ±10%;<br/>No significant abnormality in appearance,<br/>No damage.</p> |

\* 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。