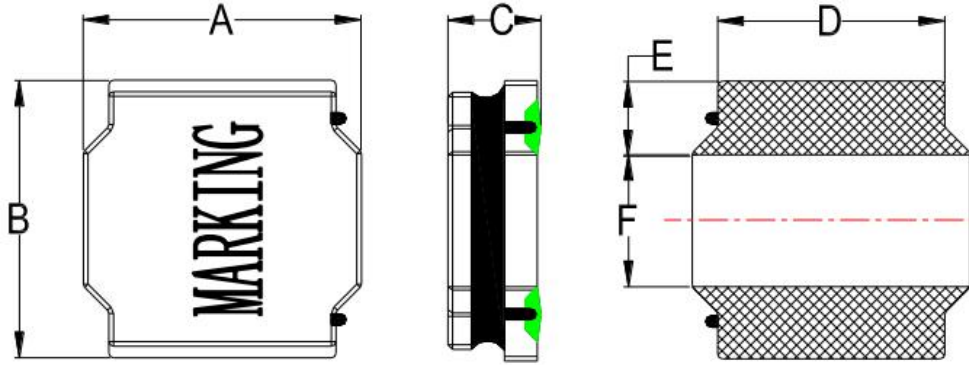


|                           |  |                            |                    |
|---------------------------|--|----------------------------|--------------------|
| <b>承认书 Specifications</b> |  | 型 名 Type                   | <b>GCNR4030</b>    |
|                           |  | GLE 部品型号 GLE Part NO.      | <b>GCNR4030 系列</b> |
| 接受<br>Accepted by         |  | 客户部品型号 Customer's Part No. |                    |

|                                 |             |                   |
|---------------------------------|-------------|-------------------|
| <b>外形寸法 Physical dimensions</b> | 单位 Unit: mm | <b>RoHS Comp.</b> |
|---------------------------------|-------------|-------------------|



| A       | B       | C            | D       | E        | F       |
|---------|---------|--------------|---------|----------|---------|
| 4.0±0.2 | 4.0±0.2 | 3.0+0.2/-0.3 | 3.3±0.2 | 0.95±0.2 | 2.1±0.2 |

**备注：黑色印字**

| NO. | 构成部品 Components            | 材质 Materials   | 原产国 Country of origin |
|-----|----------------------------|--|-----------------------|
| 1   | 磁性材料<br>Magnetic powder    | 镍锌铁氧体磁粉<br>Nickel zinc ferrite magnetic powder             | 中国<br>China           |
| 2   | 铜线<br>Wire                 | 改良聚胺脂涂布铜线<br>Polyurethane-system coated copper wire        | 德国<br>Germany         |
| 3   | 磁胶<br>Magnetic epoxy resin | 镍锌铁氧体磁粉+环氧树脂<br>Nickel zinc ferrite magnetic powder+ epoxy | 中国<br>China           |
| 4   | 电极<br>Welding surface      | 锡<br>Sn  | 中国<br>China           |

|              |            |           |                              |             |
|--------------|------------|-----------|------------------------------|-------------|
| Issued       | 2019.06.25 |           |                              |             |
| 记号<br>Symbol | 日期<br>Date | 页<br>Page | 变更内容<br>Contents of revision | 确认<br>Check |

|   |  |                               |                              |                           |
|---|--|-------------------------------|------------------------------|---------------------------|
|  | <b>深圳市格莱尔电子有限公司</b><br>Shenzhen Glorious Electronic Co.,Ltd.<br>TEL: 0755-27815501-5503 / 29305001-5003<br>FAX: 0755-27815500 / 29305500 | 承认者<br>Approved by<br><br>张立华 | 审查者<br>Checked by<br><br>张顺钧 | 担当者<br>Made by<br><br>刘子善 |
|---|--|-------------------------------|------------------------------|---------------------------|

| <b>GCNR4030 Type 一般规格 General Specifications (1/3)</b> |   |   |  |
|--|---|---|--|
|  | 项目 Item   | 规格 Specification                                      | 条件 Condition   |
| 1  | 电极强度<br>Terminal Strength                         | No electrode detachment should be found               | 电感的电极焊在基板上，在 X.Z 方向用 5.0N 的静荷重加压 $10 \pm 2$ 秒。<br>When the device is pushed in two directions of X and Z with the force of 5N for $10 \pm 2$ seconds after soldering between copper plate and the electrodes   |
| 2  | 回流焊耐热试验<br>Reflow test                            | Change from an initial value<br>L : within $\pm 20\%$ | 峰值温度 Peak temp $240 \pm 5^\circ\text{C}$ $30 \pm 10\text{s}$<br>试验板的厚度 0.8mm 以上，按上面条件通过两次热风炉。<br>The specimen shall be subjected to the reflow process under the above condition 2 times. Test board shall be 0.8mm thick. Base material shall be glass epoxy resin.<br>测定 Measurement<br>常温常湿中放置于 1 小时以上测试。<br>The specimen shall be stored at standard atmospheric conditions for 1 h in prior to the measurement. |
| 3  | 耐振性<br>Vibration                                  | Change from an initial value<br>L : within $\pm 20\%$ | 振动频率 10~55~10Hz，振幅 1.5mm，振动 1 小时。<br>The specimen shall be subjected to a vibration of 1.5mm amplitude, sweep frequency 10~55~10Hz after vibration for 1 hours   |
| 4  | 跌落实验<br>Free fall test                            | Change from an initial value<br>L : within $\pm 20\%$ | 试件安装在基板上，由 1 米高自由落体，连续 10 次。<br>The specimen must be fixed on test board. Then it shall be fallen freely from 1m height. 10 consecutive times.   |
| 5  | 高温高湿试验<br>High temperature and high humidity test | Change from an initial value<br>L : within $\pm 20\%$ | 在温度 $40 \pm 2^\circ\text{C}$ ，湿度 90~95% 中放置 $96 \pm 4$ 小时后，常温常湿中放置 1 小时以上 2 小时以内测试。<br>The specimen shall be stored at a temperature of $40 \pm 2^\circ\text{C}$ with relative humidity of 90 ~ 95% for $96 \pm 4\text{h}$ . Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h~ 2h.  |

**GCNR4030 Type 一般规格 General Specifications (2/3)**

|    | 项目 Item   | 规格 Specification   | 条件 Condition   |
|----|---|--|--|
| 6  | 高温保存试验<br>High temperature preservation test      | Change from an initial value<br>L : within $\pm 20\%$  | 在温度 $125 \pm 2^\circ\text{C}$ 中放置 $96 \pm 1$ 小时后, 常温常湿中放置 1 小时以上 2 小时以内测试。<br>The specimen shall be stored at a temperature of $125 \pm 2^\circ\text{C}$ for $96 \pm 1\text{h}$ . Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h~ 2h.   |
| 7  | 低温保存试验<br>Low temperature preservation test       | Change from an initial value<br>L : within $\pm 20\%$  | 在温度 $-40 \pm 3^\circ\text{C}$ 中放置 $96 \pm 1$ 小时后, 常温常湿中放置 1 小时以上 2 小时以内测试。<br>After stored at a temperature of $-40 \pm 3^\circ\text{C}$ for $96 \pm 1\text{h}$ . The specimen should be measured, then it should be measured under normal temperature and humidity in 1h~ 2h hours.   |
| 8  | 可焊性试验<br>Solder ability test                      | 95% 以上的面积要被覆盖。<br>New solder shall cover 95% minimum of the surface immersed.                        | 试验品的电极深布松香后, 焊锡槽温度 $260 \pm 5^\circ\text{C}$ , 时间: $3 \pm 0.5$ 秒。<br>Terminals shall be immersed in flux at room temperature. Dip sample into solder bath containing molten solder at $260 \pm 5^\circ\text{C}$ for $3 \pm 0.5$ seconds.   |
| 9  | 冷热冲击试验<br>Cold and hot cycle test                 | Change from an initial value<br>L : within $\pm 20\%$  | 以温度 $-40 \pm 3^\circ\text{C}$ 中放置 30 分钟, 在 $125^\circ\text{C} \pm 2^\circ\text{C}$ 放置 30 分钟, 中间转换时间不超过 1 分钟为一个循环。完成 20 个循环后, 常温常湿中放置 1 小时以上 2 小时以内测试。<br>The specimen shall be measured after to 20 continuous cycles of temperature change of $-40^\circ\text{C} \pm 3^\circ\text{C}$ for 30 min and $125^\circ\text{C} \pm 2^\circ\text{C}$ for 30 min with the transit period of 2min or less. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h~ 2h. |
| 10 | 保存温湿度范围<br>Storage temperature and humidity range | temperature range:<br>$5^\circ\text{C} \sim 35^\circ\text{C}$<br>humidity range:<br>$25\% \sim 80\%$ | 在包装的状态下。<br>In packing state.  |

**标准状态 Standard atmospheric conditions**

Unless otherwise specified, the standard range of atmospheric conditions in making measurements and test as follows;

Ambient temperature :  $5^\circ\text{C}$  to  $35^\circ\text{C}$ , Relative humidity: 45% to 85%, Air pressure: 86kPa to 106kPa

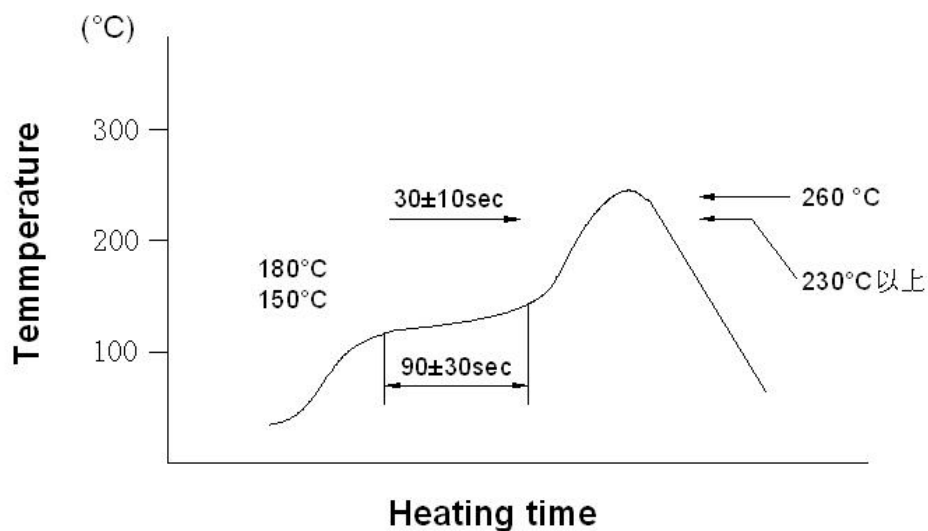
If more strict measurement is required, measurement shall be made within following limits;

Ambient temperature :  $20 \pm 2^\circ\text{C}$ , Relative humidity:  $65 \pm 5\%$ , Air pressure: 86kPa to 106kPa

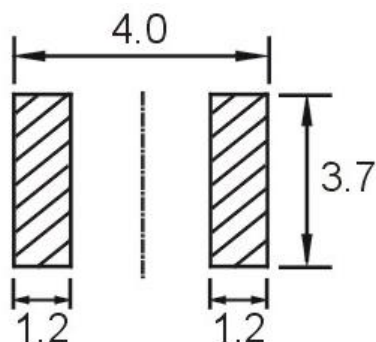
## GCMR4030 Type 一般规格 General Specifications (3/3)

### 条件 Reflow soldering condition

- 回数: 2回
- Reflow times: 2times max
- We recommend infrared ray as heat source of reflow bath.
- However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.



### 推荐焊盘寸法 Recommended PCB pattern



单位 Unit: mm

**GCNR4030 个别规格 Part Specifications**

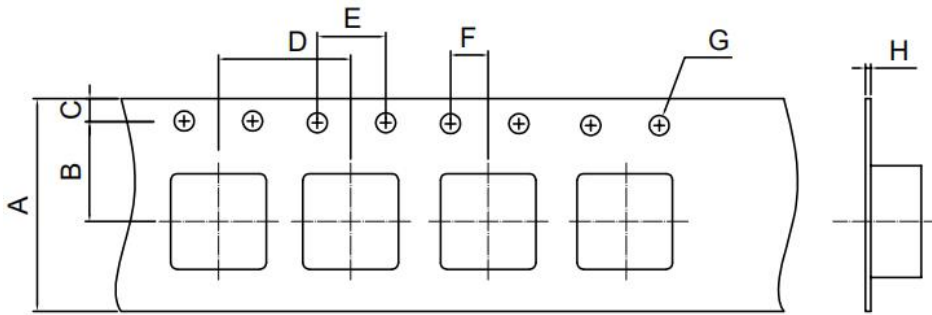
| 客户部品型号<br>Customer`s<br>Part No. | GLE 部品型号<br>GLE Part NO. | 中心<br>InductanceLo<br>(uH) | 测定频率<br>Test Frequency<br>(Hz/v) | 直流阻抗<br>DC Resistance<br>(mΩ) $\pm$ 30% | 饱和电流<br>Isat<br>(A) Max.<br>$\Delta$ L/L $\leq$ -35% | 温升电流<br>Irms<br>(A) Max.<br>$\Delta$ T $\leq$ 40 $^{\circ}$ C |
|----------------------------------|--------------------------|----------------------------|----------------------------------|---|--|---|
|                                  | GCNR4030-1R0M            | 1.0                        | 100KHz/1v                        | 14                                      | 5.26   | 4.15  |
|                                  | GCNR4030-1R5M            | 1.5                        | 100KHz/1v                        | 20                                      | 4.20   | 3.34  |
|                                  | GCNR4030-2R2M            | 2.2                        | 100KHz/1v                        | 30                                      | 3.80   | 2.95  |
|                                  | GCNR4030-3R3M            | 3.3                        | 100KHz/1v                        | 40                                      | 3.30   | 2.40  |
|                                  | GCNR4030-4R7M            | 4.7                        | 100KHz/1v                        | 60                                      | 2.90   | 2.00  |
|                                  | GCNR4030-6R8M            | 6.8                        | 100KHz/1v                        | 90                                      | 2.00   | 1.60  |
|                                  | GCNR4030-100M            | 10                         | 100KHz/1v                        | 100                                     | 1.85   | 1.50  |
|                                  | GCNR4030-150M            | 15                         | 100KHz/1v                        | 190                                     | 1.45   | 1.11  |
|                                  | GCNR4030-220M            | 22                         | 100KHz/1v                        | 225                                     | 1.30   | 1.00  |
|                                  | GCNR4030-330M            | 33                         | 100KHz/1v                        | 330                                     | 1.00   | 0.84  |
|                                  | GCNR4030-470M            | 47                         | 100KHz/1v                        | 445                                     | 0.80   | 0.72  |
|                                  | GCNR4030-680M            | 68                         | 100KHz/1v                        | 868                                     | 0.70   | 0.52  |
|                                  | GCNR4030-820M            | 82                         | 100KHz/1v                        | 1060                                    | 0.66   | 0.47  |
|                                  | GCNR4030-101M            | 100                        | 100KHz/1v                        | 1150                                    | 0.60   | 0.45  |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |
|                                  |                          |                            |                                  |   |  |   |

**Note:**  
 许容公差 Inductance Tolerance : (特性以实物为准)  
 J =  $\pm$ 5%       K =  $\pm$ 10%       L =  $\pm$ 15%       M =  $\pm$ 20%       N =  $\pm$ 30%

# GCNR4030 捆包规格 Packing Specifications

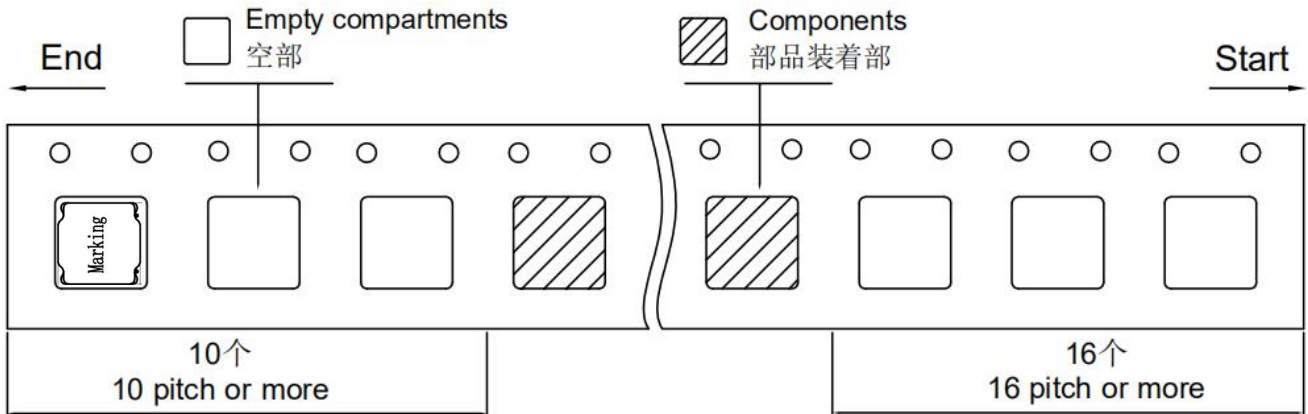
Unit : mm

## 1. 寸法 Tape Dimensions

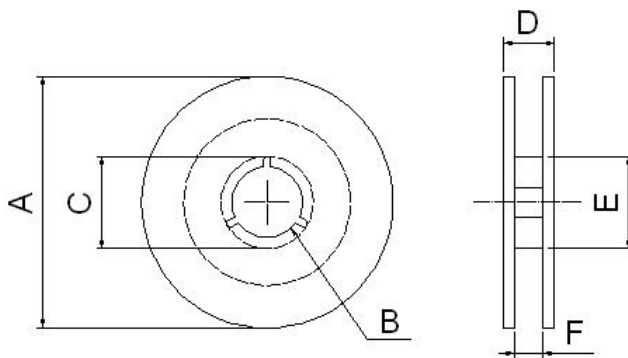


|   |       |
|---|-------|
| A | 12.0  |
| B | 5.50  |
| C | 1.75  |
| D | 8.00  |
| E | 4.00  |
| F | 2.00  |
| G | Ø1.50 |
| H | 0.30  |

## 2. 方法 Taping method 冷封 (The direction shall be seen from the top cover tape side.)

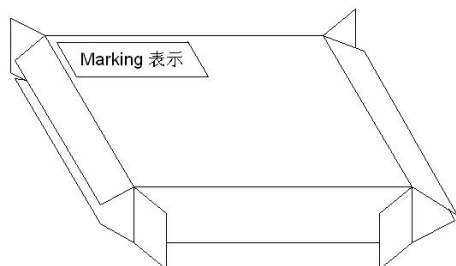


## 3. 卷盘寸法图 Reel dimensions



|   |       |
|---|-------|
| A | 330.0 |
| B | Ø13.0 |
| C | 21.0  |
| D | 16.4  |
| E | 100   |
| F | 12.4  |

## 4. 捆包箱 Packing box



- 捆包箱材质 Packing case material  
纸 Kraft paper
- 收纳数 Real quantity per packing box  
4reel / 1box
- 数量/ 卷 Quantity : 2500PCS / reel
- 表示 Marking  
客户部品型号, 数量, Lot No.  
Customer's part number, Quantity, Lot number.

## 禁用物质 Prohibited Substances

### 1. RoHS 规制的六种物质

- |            |                                     |
|------------|-------------------------------------|
| 1) 铅及其化合物  | Lead and its compounds              |
| 2) 水银及其化合物 | Mercury and its inorganic compounds |
| 3) 镉及其化合物  | Cadmium and its compounds           |
| 4) 六价铬化合物  | Hexavalent chromium compounds       |
| 5) 多溴联苯    | PBB                                 |
| 6) 多溴二苯醚   | PBDE                                |

### 2. 破坏臭氧层的化学物质使用限制

#### PROHIBITION TO USE OZONE DEPLETING SUBSTANCES (ODS)

- | 限制性物质          | Prohibited substances               |
|----------------|-------------------------------------|
| 1) 氟氯化碳        | CFCS                                |
| 2) 氟哌丁苯        | Halon                               |
| 3) 四氯化碳        | Carbon tetrachloride                |
| 4) 三氯乙烯 (三氯乙烷) | Trichloroethane (Methy1 chloroform) |

我公司保证我司的产品和生产过程符合“RoHS 和 HF 规则”，所有产品中使用的材料均是化学物质生产规则中登记的材料。

We confirm that our products and our production process accord with "rule of RoHS&HF". All materials used in this product are registered material under Regulation of Manufacture of Chemical Substances.

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