



## SPECIFICATION FOR APPROVAL

|       |              |
|-------|--------------|
| 客户名称: | 立创           |
| 客户料号: |              |
| 增益料号: | HMS0530-3R3M |
| 规格描述: | HMS0530-3R3M |
| 日期:   | 2023/9/28    |
| 版本:   | A            |

增益签核：

|    |    |    |
|----|----|----|
| 制订 | 审核 | 核准 |
| 夏琳 |    | 李万 |

客户签核:

| 工程 | 审核 | 核准 |
|----|----|----|
|    |    |    |



东莞市增益实业有限公司

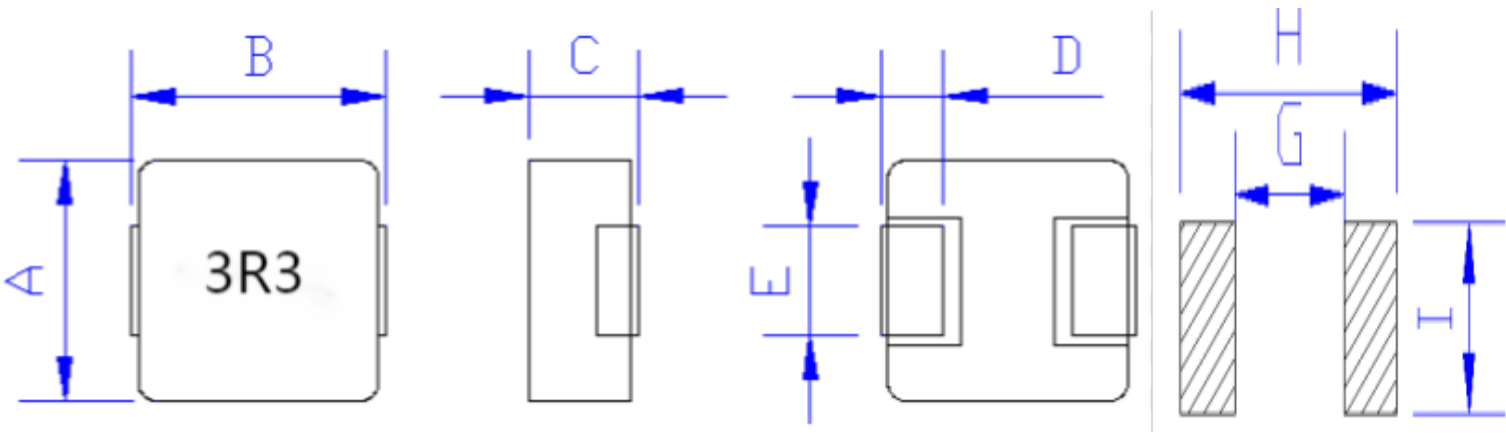
传真: 0769-87891229

A

图 面 规 格 变 更 履 历 表

| 客户                                                                                                                                                                                                            |      |      | 料号        |       | 品名        |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-------|-----------|----|
| 客户版本                                                                                                                                                                                                          | 增益版本 | 变更内容 | 日期        | 制定    | 审核        | 核准 |
|                                                                                                                                                                                                               | A    | 初版   | 2023/9/28 | 夏琳    | 李万        | 李万 |
|                                                                                                                                                                                                               |      |      |           |       |           |    |
|                                                                                                                                                                                                               |      |      |           |       |           |    |
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|                                                                                                                                                                                                               |      |      |           |       |           |    |
| <div></div> <div>东莞市增益实业有限公司</div> <div>地址：东莞市塘厦镇林村塘厦大道北552号</div> <div>电话：0769-87321000</div> <div>传真：0769-87891229</div> |      |      |           | 物料类型： | 贴片电感      |    |
|                                                                                                                                                                                                               |      |      |           | 日 期：  | 2023/9/28 |    |
|                                                                                                                                                                                                               |      |      |           | 版 本：  | A         |    |
|                                                                                                                                                                                                               |      |      |           |       |           |    |

外形尺寸及推荐焊盘External Dimensions & PCB Pattern：



| Type Name/型名 | A       | B       | C      | D       | E       | G      | H      | I      |  |  | QTY(MPQ) pcs/reel<br>最小包装数（个/盘） |
|--------------|---------|---------|--------|---------|---------|--------|--------|--------|--|--|---------------------------------|
| HMS0503      | 5.2±0.3 | 5.6±0.5 | 3.0MAX | 1.3±0.3 | 2.0±0.3 | 1.9REF | 6.2REF | 2.5REF |  |  | 2000                            |

Product Identification/品名注释

H

(1)

M

(2)

S

(3)

0530

(4)

-

3.3UH

(5)

/M

(6)

- (1) 表面安装制品

(2) 粉料压铸成型(合金粉 ALLOY POWDER)

(3) 大电流产品

(4) Dimension symbol/尺寸表示:  
  
0530 =5 X3 mm (W X H )
- (5) Inductance value/电感值:  
3R3= 3.3uH,100=10uH,101=100uH

(6) Tolerance/公差:  
K=±10%,L=±15%,M=±20%,  
P=±25%,N=±30%

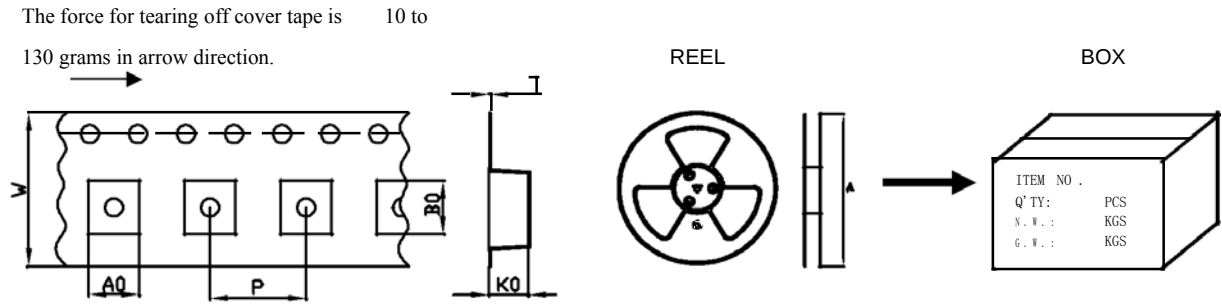
Specifications/规格

| Type Name: HMS1004 |                    |                     |                     |                               |                          |
|--------------------|--------------------|---------------------|---------------------|-------------------------------|--------------------------|
| Part No./品名        | Inductance/电感值(μH) | Test Condition/测试条件 | D.C.R./直流电阻(mΩ)MAX. | Saturation Current/饱和电流(A) ※1 | Rated current/额定电流 (A)※2 |
| HMS0530-3.3UH      | 3.3±20%            | 100KHz/1V           | 39                  | 7.0                           | 4.0                      |

※1 The saturation current when the inductance decreases to 75% of initial value. (Ta=25℃) ※2

The DC current at which the temperature rise is Δt=40℃ ,whichever is smaller(Ta=20℃

Packing:Dimensions for embossed tape and reel&catron packing with packed Qty/包装载带、胶盘和外箱包装数量



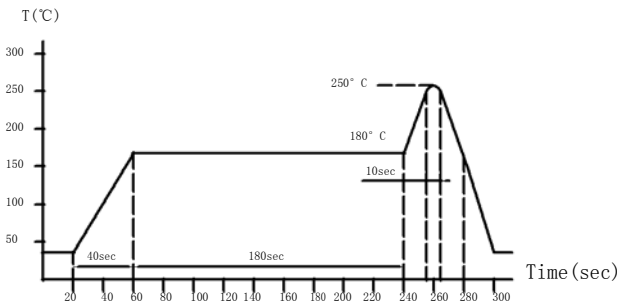
| Type    | DIMENSIONS (mm) /尺寸 |    |    |      |      |     |      | QTY(PCS/REEL)<br>每卷产品数量 |
|---------|---------------------|----|----|------|------|-----|------|-------------------------|
|         | A                   | W  | P  | A0   | B0   | K0  | T    |                         |
| HMS0530 | 330                 | 24 | 16 | 12.0 | 12.0 | 4.3 | 0.40 | 2000                    |

General haracteristics

|                                          |                                                                                                                                                                                                                                         |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Temperature<br>/使用温度范围         | -40~+105℃(Includes temperature when the coil is heated.)/-40~+105℃(包含线圈发热)                                                                                                                                                              |
| External Appearance/外观                   | On visual inspection, the coil has no external defects./目视检查时,外观没有明显的缺陷.                                                                                                                                                                |
| Terminal Strength/端子强度                   | After soldering between copper plate and electrode. sample is pushed in three directions of X,Y and Z with force of 5N for 10±5 seconds. the terminal should not peel off.<br>/将线圈的端子焊接在基板上,分别在 X,Y,Z 3 个方向施加 5N,时间 10±5 秒,无电极剥离和断线.    |
| Insulating Resistance<br>/绝缘电阻           | Over 100MΩ at 100V D.C. between coil and core./线圈和磁芯间加上 100V 直流电压,绝缘电阻 100MΩ以上.                                                                                                                                                         |
| Dielectric Strength/耐电压                  | No dielectric breakdown at 100V D.C. for 1 minute between coil and core.<br>/线圈和磁芯间加上 100V 直流电压 1 分钟时间后,无绝缘破坏不良出现.                                                                                                                      |
| Temperature Characteristics<br>/温度特性     | Inductance coefficient(0~2,000)×10 <sup>-6</sup> /℃(-25~+85℃)/电感温度系数(0~2,000)×10 <sup>-6</sup> /℃(-25~+85℃)                                                                                                                             |
| Humidity Characteristics<br>/耐湿度特性       | Inductance deviation within ±10%,after 96 hours in 90~95% relative humidity at 40±2℃ and 1 hour drying under normal condition./温度在 40±2℃,相对湿度在 90~95%条件下存放 96 小时后取出,用干布擦干.然后在常温常湿中放置 1 小时,电感变化率±10%以内.                                  |
| Thermal shock test<br>/冷热冲击特性            | Inductance deviation within ±10%,after 20 cycles of +105℃ for 30 minutes, -40℃ for 30 minutes. Characteristics are measured after the ambient air exposure of 1 hour./-40℃放置 30 分钟后转换为+105℃放置 30 分钟,20 次循环,然后在常温常湿中放置 1 小时,电感变化率±10%以内. |
| High temperature storage test<br>/高温保存测试 | Inductance deviation within ±10%,after 96 hours in 105 ℃ ±2 ℃ characteristics are measured after ambient are exposure of 1 hour. /+105℃放置 96 小时,然后在常温常湿中放置 1 小时,电感变化率±10%以内.                                                            |
| Low temperature storage test<br>/低温保存测试  | Inductance deviation within ±10%,after 96 hours in -40 ℃ ±2 ℃ characteristics are measured after ambient are exposure of 1 hour. /-40℃放置 96 小时,然后在常温常湿中放置 1 小时,电感变化率±10%以内.                                                             |

Recommended Reflow Conditions (Lead-free)

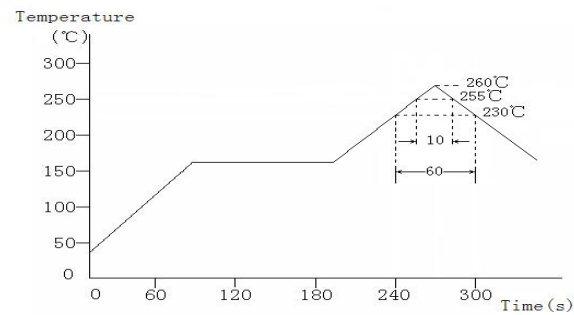
/推荐回流焊条件（无铅）



The reflow condition recommended above is according to the machine used by our company. Big differences will arise as a result of the type of machine, reflow conditions, method, etc used. Hence, before setting up your reflow conditions, please confirm with the above./上面推荐的回流焊试验条件是根据本公司的回流焊设备测试结果得到. 不同的试验设备、试验条件和试验方法及试验结果不同. 因此回流焊试验条件的设定需要仔细地确认.

Reflow Soldering Heat Endurance

/回流焊耐热



No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours. /在该条件下进行回流焊, 常温常湿条件下放置 2 个小时后, 无机械, 电气特性缺陷发生.

Twice reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.

/在常温常湿条件下, 间隔 1 个小时可进行两次回流焊.

The reflow test profile may vary with the testing instruments.

/回流焊曲线图会因设备的不同有所差异.