

客 户  
CUSTOMER

KFT-107

ROHS

## SPECIFICATION FOR APPROVAL

型 号  
MODEL NO. : RC25X2.5--12mm-8.1uH

柯菲特料号  
KEFEITE NO. : 107-RC25X2.5--12mm-8.1uH

客户料号  
CUSTOMER P/N:

日期  
DATE : 2022/06/10

版 本  
REV : A1

※产品符合: ☒RoHS ☐PAHS ☐6P ☐REACH

确认后签名, 并返回一份。

PLEASE RETURN TO US COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURES.

|                      | "√" | CUSTOMER'S<br>SIGNATURE | NOTE |
|----------------------|-----|-------------------------|------|
| FULL APPROVED        |     |                         |      |
| CONDITIONAL APPROVED |     |                         |      |
| REJECTED             |     |                         |      |

深圳市柯菲特电子有限公司  
SHENZHEN KEFEITE ELELECTRONICS CO., LTD

深圳、宝安、石岩官田新时代工业区C幢2楼

Factory Address: 2/F, New era industrial area C Building  
Guantian community, Shenzhen.

TEL: 86-755-27352660

FAX: 86-755-27352742

HTTP: WWW.Kefeite.net (了解更多资讯, 请浏览本公司网站)

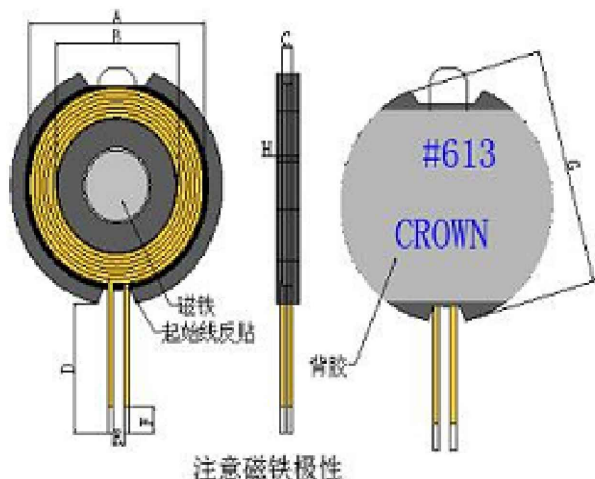


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SHENZHEN KEFEITE ELECTRONICS CO., LTD

|              |                         |          |            |
|--------------|-------------------------|----------|------------|
| CUSTOMER:    | KFT-107                 | VERSION: | A1         |
| CUSTOMER NO: |                         | PAGE:    | 3/4        |
| KFT P/N:     | 107-RC25X2.5-12mm-8.1uH | Date:    | 2022/06/10 |

## 1. CONFIGURATION&DIMENSIONS:



|   |               |
|---|---------------|
| A | 20.9±1.0mm    |
| B | 14.9±0.5mm    |
| C | 1.1±0.2mm     |
| D | 12.0±1.5mm    |
| E | 3.0ref        |
| F | 2~4mm         |
| G | 24.5±1.0mm    |
| H | 2.8MAX(不含离型纸) |

注:

1. 线圈交叉出线反贴磁片(如图示)
2. 磁片:24.5X7.5X2.5(外径X内径X高度)
3. 磁片中心孔装7.8X2.5≥3500GS磁铁
4. 产品背贴带手撕位双面胶(如图)

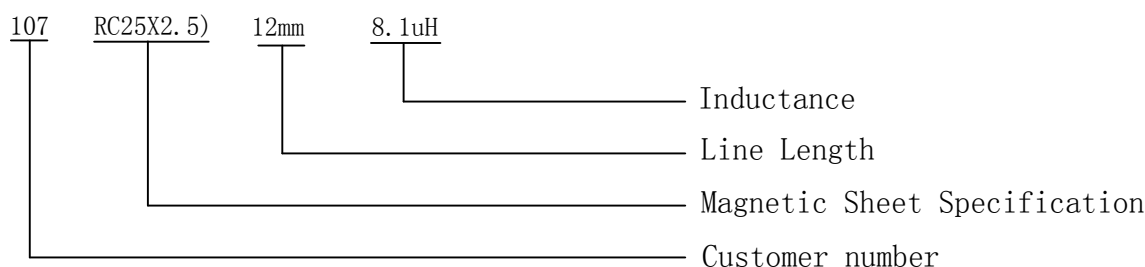
## 2. ELECTRICAL CHARACTER:

| 项目           | 规格        | 测试条件        | 测试仪器   |
|--------------|-----------|-------------|--------|
| 电感量 (Ls) 空线圈 | 4.8uH±5%  | 100KHZ/1.0V | CH1062 |
| 电感量 (Ls) 成品  | 8.1uH±5%  | 100KHZ/1.0V | CH1062 |
| 直流电阻 (RDC)   | 155mΩ MAX | 25℃         | HG2512 |

## 3. SCHEMATIC



## 4. PART NUMBERING:PRODUCT IDENTIFICATION



|           |             |            |              |
|-----------|-------------|------------|--------------|
| DRAWN BY: | CHECKED BY: | Q. C DEPT: | APPROVED BY: |
| 胡国强       | 周渺          |            | 万建军          |



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## 5. MATERIAL LIST:

| NO | ITEM             | DESCRIPTION    | RATING | SUPPLIERS                                          | UL NO.  | REMARK |
|----|------------------|----------------|--------|----------------------------------------------------|---------|--------|
| 1  | WIRE             | 热风线            | 155℃   | SHANTOU SHENGANG ELECTRICAL<br>INDUSTRIAL CO., LTD | E239508 |        |
| 2  | SOLDER           | 99.3/0.7       |        | SHENZHEN Hong Xing Wei<br>solder Limited           |         |        |
| 3  | CORE             | 25/7.7/2.5     |        | Changxing BO Cheng Electronics<br>CO., LTD         |         |        |
| 4  | EPOXY            | 1603HFR-HS     |        | DONGBU FINE CHEMICAL CO LTD                        |         |        |
| 5  | Strong<br>Magnet | 7.8X2.5>3200GS |        | DONGBU FINE CHEMICAL CO LTD                        |         |        |

## 6. GENERAL SPECIFICATION:

1 Tested at 1.0KHZ/0.25Vrms, 0 Adc.

Average current for 40℃ temperature rise from 25℃.

2 Saturation current (Isat):

Inductance drop: 10% typ at Isat.

3 Heat rating current (Irms):

$L @ I_{rms} = \Delta T \leq 40^{\circ}C$ .

4 Electrical specifications at 25℃

5 Storage Temp: -40℃....+85℃

6 Operating Temp: -40℃....+85℃

| 项目               | 测试条件                                                                  | 判断标准                                                                                                             |
|------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Isat<br>(饱和电流)   | 1. 正常室内环境 25℃.<br>2. 分十步外加直流电流.<br>3. 待电感值变化稳定后再加下一步电流.               | $I_{sat} @ L_a \geq \% L_0$<br>L: 加载直流电流后测试感值<br>L0: 未加载直流电流的标准值.                                                |
| Irms<br>(温升电流)   | 1. 正常室内环境 25℃, 禁止通风.<br>2. 分十步外加直流电流.<br>3. 每步时间间隔为 5 分钟.             | $I_{rms} @ \Delta T \leq 40^{\circ}C$<br>1. $\Delta T$ 是电感表面温度, 相对于初始测试温度的上升温度.<br>2. 不得有电感部件颜色外形变化.             |
| L (85℃)<br>(电感量) | 1. 在 85℃ 烘烤 15Min, 即时取出测试电感量.<br>2. 产品必需在 10sec 之内测试完成, 温度约在 85℃ TYP. | $L (85^{\circ}C) \approx L_s$<br>1. $L_s$ : 电感标准值 (25℃)<br>$L (85^{\circ}C)$ : 电感量 (85℃)<br>2. 电感量的变化率在标准值的范围之内. |

|           |             |            |              |
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