

# 深圳市索瑞达电子有限公司

# 承 认 书 SPECIFICATION FOR APPROVAL

| 客 户 名 称:<br>Customer Name : | 立创                  |  |
|-----------------------------|---------------------|--|
| 客户料号:<br>Customer P/N:      |                     |  |
| 产 品 名 称:<br>Product Name:   | 功率电感                |  |
| 索瑞达料号:<br>Sorede P/N:       | SCD.7850.DYF822KT00 |  |





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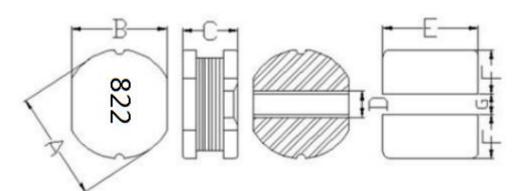
## 修改履历表

### **Modify Resume**

| 修改日期          |       |                  | 修改明细           | 修改后版本号      |
|---------------|-------|------------------|----------------|-------------|
| Date modified |       |                  | Modify Details | Version No. |
| 2023-04-01    | 文件新制订 | File formulation |                | A           |
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| File Number   Version Number   page |  | 文件编号<br>File Number | SRD-WI-15016 | 版本号<br>Version Number | A | 页码<br>page | 1/8 |
|-------------------------------------|--|---------------------|--------------|-----------------------|---|------------|-----|
|-------------------------------------|--|---------------------|--------------|-----------------------|---|------------|-----|

### 1、外形尺寸 Dimension:



| 24           | <u>/</u> , | гт •. |        |
|--------------|------------|-------|--------|
| $\mathbf{H}$ | 11         | Unit: | mm     |
| <del></del>  | -'/-       | Omi;  | 111111 |

| A | 7.8±0.3 |  |  |  |
|---|---------|--|--|--|
| В | 7.0±0.3 |  |  |  |
| C | 5.0±0.3 |  |  |  |
| D | 2.4Ref. |  |  |  |
| Е | 7.5Ref. |  |  |  |
| F | 3.0Ref. |  |  |  |
| G | 2.4Ref. |  |  |  |

### 2、产品品名构成 Product Spec. Model

<u>SCD.7850</u>.<u>D</u> <u>Y</u> <u>F</u> <u>822</u> <u>K</u> <u>T</u> <u>00</u> a b c d e f g h i

- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- C: 绕组(D:单线Single Line、C: 双线Double Line)
- d: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- e: 印字方向 Lettering direction ▶
- f: 电感值Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

- g: 电感公差Inductance Tolerance (K:10%; M:20%; N:30%)
- h: 包装Package(T:磁带/卷轴Tape/Reel、B: 散装Bulk)
- i: 编号Numbering (标准standard)

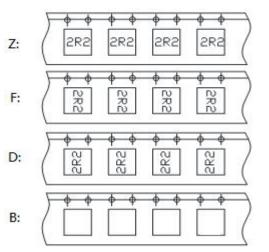




#### 4、材料清单MATERIAL LIST

| NO. | PARTS  | MATERIAL SPECIFICATIONS                      | UL<br>FILE NO. | TEMP.<br>CLASS |
|-----|--------|--|----------------|----------------|
| 1   | CORE   | N5H SMD 7.8×5.0 B=3.0 F=2.6<br>OR EQUIVALENT | NA             | NA             |
| 2   | WIRE   | G1 P180 OR EQUIVALENT                        | E258243        | 180℃           |
| 3   | SOLDER | Sn99.3-Cu0.7 OR EQUIVALENT                   | NA             | NA             |

<sup>\*</sup>NA:NOT APPLICABLE.



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|---------------------|------|----------------------|---------------------------------|------------------------|------------------|------------------|---------------|
| 5、电性能参数             | 效表 E | lectrical Char       | acteristics Lis                 | st                     |                  |                  |               |
| 规格型号<br>Part NO.    |      | 电感量<br>Tolerance(mH) | 测试频率<br>Test Freq.<br>(kHz/v)   | 直流电阻<br>DCR<br>(Ω)Max. | 饱和电流<br>Isat (A) | 线径WIRE<br>(φ/mm) | 圈数TS<br>(Ref) |
| SCD.7850.DYF822     | KT00 | 8.2                  | 100 / 0.25                      | 33.8                   | 0.07             | 0.08             | 460.5         |
|                     |      |                      |                                 |                        |                  |                  |               |
|                     |      |                      |                                 |                        |                  |                  |               |
|                     |      |                      |                                 |                        |                  |                  |               |
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|                     |      |                      |                                 |                        |                  |                  |               |
|                     |      |                      |                                 |                        |                  |                  |               |

Isat 电流:指使电感量比初始值下降10%Max( The rated DC current is that which cause at 10%Max inductance reduction from the initial value)。

<sup>※</sup>公差Tolerance: N:±30%、M:±20%、K:±10%.

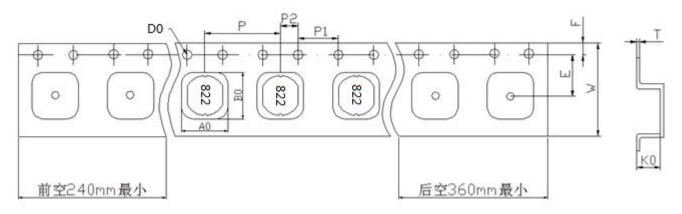
<sup>※</sup>工作温度Operating temperature rang: -40  $^{\circ}$  to +105 $^{\circ}$  (Including Self-heating)

<sup>※</sup>储存温度Storage termperature rang: -40 ℃ to +125℃

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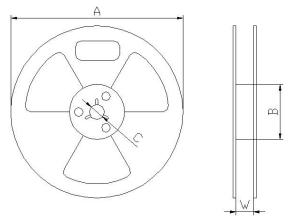
# 6、产品包装 Packaging

### 1) 载带包装示意图 Tape packing diagram



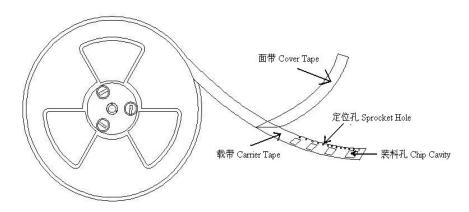
| ITEM | W     | A0   | В0   | K0   | P     | Е    | F    | D0   | Р0   | P2   | Т     |
|------|-------|------|------|------|-------|------|------|------|------|------|-------|
| DIM  | 16.00 | 7.50 | 8.20 | 5.40 | 12.00 | 7.50 | 1.75 | 1.50 | 4.00 | 2.00 | 0.40  |
| TOLE | ±0.3  | ±0.1 | ±0.1 | ±0.1 | ±0.1  | ±0.1 | ±0.1 | +0.1 | ±0.1 | ±0.1 | ±0.05 |

### 2)卷盘包装示意图 Tape packing diagram



| А | 330±0.5  |  |  |  |
|---|----------|--|--|--|
| В | 100±0.5  |  |  |  |
| С | 13.5±0.5 |  |  |  |
| W | 16.5±0.5 |  |  |  |

## 3) 卷盘包装示意图 Tape packing diagram

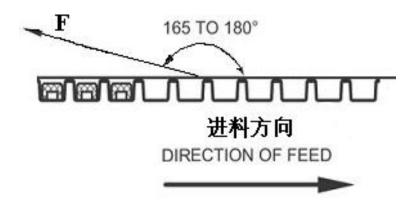


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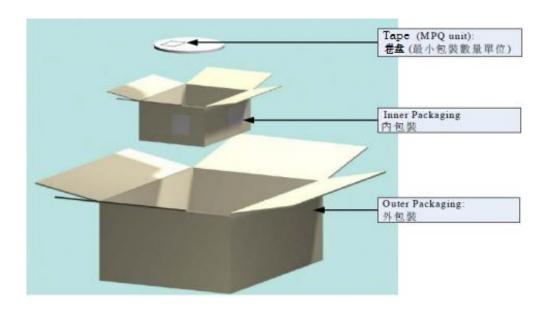
## 4)剥离强度要求Peeling required

①F 力大小: 20~100g;

②面带剥离角度: 165°~180°。



# 5) 包装数量 Packing quantity



| 项目<br>(Project)   | 数量(PCS) | 尺寸规格(Size:mm)     |
|-------------------|---------|-------------------|
| 盘(Reel)           | 1000    | 13"               |
| 内盒<br>(Inner box) | 3000    | 340mm*340mm*65mm  |
| 外箱<br>(Out box)   | 9000    | 360mm*360mm*235mm |

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|--------------------------------|-----------------|---------------|---|--------------------|---------------|-----|--|--|--|
| 7. RELIABIL                    | TYTEST MET      | HOD           |   |                    |               |     |  |  |  |
| MECHANIC                       |                 |               |   |                    |               |     |  |  |  |
| TESTITEM                       | SPECIFICAT      | ION           | TEST DETAILS  |                    |               |     |  |  |  |
| Substrate bend                 | lir △L/Lo≦±5%   | The sar       | The sample shall be soldered onto the printed circuit board   |                    |               |     |  |  |  |
|                                |                 | in figure     | in figure 1 and a load applied unitil the figure in the arrow |                    |               |     |  |  |  |
|                                | There shall be  | direction     | direction is made approximately 3mm.(keep time 30 seconds)    |                    |               |     |  |  |  |
|                                | no mechanical   | PCB dir       | PCB dimension shall the page 7/9                              |                    |               |     |  |  |  |
|                                | damage or elec- |               | F(Pressurization)   |                    |               |     |  |  |  |
|                                | trical damege.  |               |   |                    |               |     |  |  |  |
|                                |                 |               |   |                    |               |     |  |  |  |
| R5 45±2 45±2                   |                 |               |   |                    |               |     |  |  |  |
|                                |                 |               | 10  |                    |               |     |  |  |  |
|                                |                 |               | PRESSURE ROD  |                    |               |     |  |  |  |
|                                |                 |               | figure-1  |                    | R340          |     |  |  |  |
| Vibration                      | <u></u>         | The sar       | nple shall be soldered  | onto the printed o | circuit board |     |  |  |  |
|                                |                 | and wh        | and when a vibration having an amplitude of 1.52mm            |                    |               |     |  |  |  |
|                                | There shall be  | and a f       | and a frequency of from 10 to 55Hz/1 minute repeated should   |                    |               |     |  |  |  |
|                                | no mechanical   | be app        | be applied to the 3 directions (X,Y,Z) for 2 hours each.      |                    |               |     |  |  |  |
|                                | damage.         | (A total      | (A total of 6 hours)  |                    |               |     |  |  |  |
| Solderability                  | New solder      | Flux (ro      | Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated   |                    |               |     |  |  |  |
| Coluciasiii                    | More than 90%   | over the      | over the whole of the sample before hard, the sample shall    |                    |               |     |  |  |  |
|                                |                 | then be       | then be preheated for about 2 minutes in a temperature of     |                    |               |     |  |  |  |
|                                |                 | 130~1         | 130~150°C and after it has been immersed to a depth 0.5mm     |                    |               |     |  |  |  |
|                                |                 | below fo      | or 3±0.2 seconds fully  | in molten solder l | VI705 with    |     |  |  |  |
|                                |                 |               | erature of 245±2°C .  |                    |               |     |  |  |  |
|                                |                 |               | an 90% of the electrod  | de sections shall  | be couered    |     |  |  |  |
|                                |                 | <br> with nev | with new solder smoothly when the sample is taken out of      |                    |               |     |  |  |  |
|                                |                 | the solo      | the solder bath.  |                    |               |     |  |  |  |

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|--|--|---|--|--|-----|--|--|--|
| MECHANICAL   |  |   |  |  |     |  |  |  |
| TESTITEM   | SPECIFICATION  |   |  |  |     |  |  |  |
| Resistance to  | There shall be   | Temperature profile of reflow soldering   |  |  |     |  |  |  |
| Soldering heat   | no damage or   |   |  |  |     |  |  |  |
| (reflow soldering)   | problems.  | The specimen shall be a condition shown in the a for 1 hour, after which the  | Pre-heating  2 min  passed through the above profile for 1 is stored at standard   | e reflow oven with time.   | the |  |  |  |
| ELECTRICAL   |  |   |  |  |     |  |  |  |
|  |  |   |  |  |     |  |  |  |
| TESTITEM   | SPECIFICATION  |   | TEST DETAI   | LS   |     |  |  |  |
| 0000 - 1000 PM - 1000 2000 - VIED PM 1007                        | There shall be no other  | DC 100V voltage shall b   | 2000/00/00 1000/00/00/00 1000/00/00/00/00/00/00/00/00/00/00/00/00  | and the second   |     |  |  |  |
| TEST ITEM Insulation resistance                                  | ELLINAS, NO DATABANDO PONGONOSTITA ACESTINOSALIONA   | DC 100V voltage shall be surface and the termina  | e applied across   | and the second   |     |  |  |  |
| Insulation   | There shall be no other  |   | e applied across   | this sample of top   |     |  |  |  |
| Insulation<br>resistance   | There shall be no other  | surface and the termina   | e applied across   | this sample of top<br>nan 1 × 10 <sup>8</sup> Ω.   |     |  |  |  |
| Insulation resistance Dielectric                                 | There shall be no other damage or problems.  | surface and the termina The insulation resistanc  | e applied across in the shall be more the shall be more the applied for 1 minutes.   | this sample of top<br>nan 1 × 10 <sup>8</sup> Ω.   |     |  |  |  |
| Insulation resistance  Dielectric withstand                      | There shall be no other damage or problems.  There shall be  | surface and the termina The insulation resistanc AC 100V voltage shall b  | e applied across in the shall be more the shall be more the applied for 1 minutes.   | this sample of top<br>nan 1 × 10 <sup>8</sup> Ω.   |     |  |  |  |
| Insulation resistance  Dielectric withstand                      | There shall be no other damage or problems.  There shall be no other or problems.                        | surface and the termina The insulation resistanc AC 100V voltage shall b  | e applied across in the shall be more the shall be more the applied for 1 minutes.   | this sample of top<br>nan 1 × 10 <sup>8</sup> Ω.   |     |  |  |  |
| Insulation   | There shall be no other damage or problems.  There shall be no other damage or                           | surface and the termina The insulation resistanc AC 100V voltage shall b  | e applied across in the shall be more the shall be more the applied for 1 minus I of this sample   | this sample of top<br>nan 1 × 10 <sup>8</sup> Ω.   | top |  |  |  |
| Insulation resistance  Dielectric withstand voltage              | There shall be no other damage or problems.  There shall be no other damage or problems.                 | surface and the termina The insulation resistanc AC 100V voltage shall be surface and the termina                           | ne applied across in the sample after the sample applied for 1 minutes and the sample applied after the sample applied across in the sample applied applied after the sample applied across in the sample across in the sampl | this sample of top nan 1 × 10 <sup>8</sup> Ω.  The nute acrosset the ple has stabilized            | top |  |  |  |
| Insulation resistance  Dielectric withstand voltage  Temperature | There shall be no other damage or problems.  There shall be no other damage or problems.  △L/L20°C ≦±10% | surface and the termina The insulation resistanc AC 100V voltage shall be surface and the termina The test shall be perfore | ne applied across to the shall be more the sample of - 40 to + 125°C   | this sample of top  nan 1 × 10 <sup>8</sup> Ω.  The nute acrosset the ple has stabilized the value | top |  |  |  |

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| TEST ITEM         | CHARACTERISTICS  SPECIFICATION          |   |   |  |   |  |  |  |
|-------------------|---|---|---|--|---|--|--|--|
| High temperature  | ∆L/Lo≦±5%                               | The sample shall be left for 500hours in an atmospere with      |   |  |   |  |  |  |
| storage           |   | a temperature of 125±2°C and a normal humidity.                 |   |  |   |  |  |  |
|                   | There shall be                          | Upon completion of the measurement shall be made after the      |   |  |   |  |  |  |
|                   | no mechanical                           | sample has been left in a normal temperature and normal         |   |  |   |  |  |  |
|                   | damage.                                 | humidity for 1 hour.  |   |  |   |  |  |  |
|                   |   |   |   |  |   |  |  |  |
| Low temperature   |   | The sample shall be left for 500 hours in an atmosphere with    |   |  |   |  |  |  |
| storage           |   | a temperature of -40±3°C.                                       |   |  |   |  |  |  |
| Ü                 | There shall be                          |   |   | on of the test, the measure  | ment shall be made  |  |  |  |
|                   | no mechanical                           | '   | •   | e has been left in a normal  |   |  |  |  |
|                   | damage.                                 |   | •   | / for 1 hour.  | •   |  |  |  |
| Change of         | △L/Lo≦±5%                               | The sam   | The sample shall be subject to 5 continuos cycles, such as shown  |  |   |  |  |  |
| temperature       |   | in the table 2 below and then it shall be subjected to standard |   |  |   |  |  |  |
|                   | There shall be                          | stmosph   | eric co   | nditions for 1 hour, after w   | hich measurement  |  |  |  |
|                   | no other dama-                          | shall be made.  |   |  |   |  |  |  |
|                   | ge of problems                          |   |   |  |   |  |  |  |
|                   |   |   | table 2   |  |   |  |  |  |
|                   |   |   |   | Temperature  | Duration  |  |  |  |
|                   |   |   | 1   | -40 <b>±</b> 3℃  | 10 min.   |  |  |  |
|                   |   |   |   |  | l   |  |  |  |
|                   |   |   |   | (Themostat No.1)   |   |  |  |  |
|                   |   |   | 2   | (Themostat No.1) Standard  | 5 sec. or less  |  |  |  |
|                   |   |   | 2   |  | 5 sec. or less<br>No.1→No.2   |  |  |  |
|                   |   |   | 2   | Standard   |   |  |  |  |
|                   |   |   |   | Standard<br>atmospheric  | No.1→No.2   |  |  |  |
|                   |   |   |   | Standard<br>atmospheric<br>125±2℃  | No.1→No.2   |  |  |  |
|                   |   |   | 3   | Standard atmospheric  125±2℃ (Themostat No.2)  | No.1→No.2<br>30 min.  |  |  |  |
| Moisuture storage | ∧ I /I o < +5%                          | The sam   | 3   | Standard atmospheric  125±2°C  (Themostat No.2)  Standard atmospheric  | No.1→No.2  30 min.  5 sec. or less  No.2→No.1                                       |  |  |  |
| Moisuture storage | △L/Lo≦±5%                               |   | 3  4  ple sha   | Standard atmospheric  125±2°C (Themostat No.2)  Standard atmospheric  all be left for 500 hours in a                         | No.1→No.2  30 min.  5 sec. or less  No.2→No.1                                       |  |  |  |
| Moisuture storage |   | 40±2°C a  | 3  4  ple sha   | Standard atmospheric  125±2°C (Themostat No.2)  Standard atmospheric  all be left for 500 hours in a umidity (RH) of 90~95%. | No.1→No.2  30 min.  5 sec. or less  No.2→No.1  a temperature of                     |  |  |  |
| Moisuture storage | △L/Lo≦±5%  There shall be no mechanical | 40±2°C a  | 3  4  ple shand a hand | Standard atmospheric  125±2°C (Themostat No.2)  Standard atmospheric  all be left for 500 hours in a                         | No.1→No.2  30 min.  5 sec. or less  No.2→No.1  a temperature of  ment shall be made |  |  |  |

Test conditions:

The sample shall be reflow soldered onto the printed circuit board in every test.

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#### 8、注意事项 Note

①本承认书保证我司产品作为一个单体时的质量情况。当我司产品被安装到贵司产品上时,请保证 贵司的产品已根据贵司的规范进行了有效评估和确认。

This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.

②如果贵司对我司产品的使用已超过了本承认书所界定的产品功能,那么对于由此引发的失效, 我司将不予保证。

We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

- ③为了保持终端电极的焊接性,并使包装材料保持良好状态,必须控制储存区的温度和湿度。
  To maintain the solderabilty of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.
  - ※建议的条件: -10~+40℃, 30~70%RH。

Recommended conditions:  $-10 \sim +40 \,^{\circ}\text{C}$ ,  $30 \sim 70 \,^{\circ}\text{RH}$ .

※储存超过六个月的,应在实际使用前进行焊接检验。
In case of storage over 6 months, soldrability shall be checked before actual usage.

※即使在理想的储存条件下,产品的可焊性也随着时间的推移而降低。因此,产品应从交货时算起, 建议8个月之内使用完。

Even under ideal storage conditions, the weldability of the product decreases over time. therefore, the product should be From the time of delivery, it is recommended that it be used within 8 months.

④本承认书在客户收到30天之内,必须签章返回,逾期视为默认。

The Specification Approval should be sent back to the supplier with customer's chop on it within 30 days after receiving it, or we will take it as approved by customer's automatically.

⑤如有特殊规格要求,请事前联络我司技术部人员。

In case of special specifications please contact our technical department prior staff.