



ISO9001-2015  
Certificate No:672Q22020207194



No.T52210311961TC Date;OCT 12,2022 No.T52310270397TC Date;apr 15,2023

# 承認書

## SPECIFICATION FOR APPROVAL

客户名稱  
CUSTOMER

品名規格  
DESCRIPTION SCRC 20-10-10

客户料號  
CUS. P/N

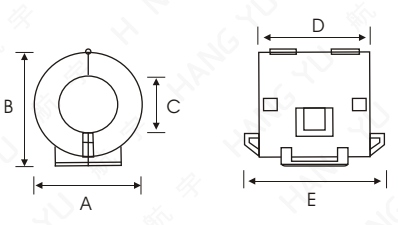
提出日期  
DATE 2025.05.12

| 出 圖<br>RDAWING |                |                 |
|----------------|----------------|-----------------|
| 發 行<br>MADE    | 復 核<br>CHECKED | 確 認<br>APPROVED |
| 武卫锋            | 陆卯生            | 林萍              |
| 销售部：张 丽        |                |                 |

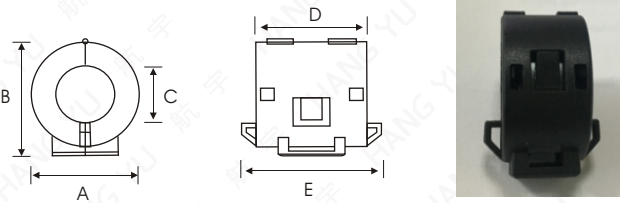
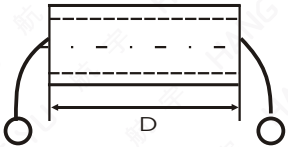
| 承 認<br>CUSTOMER APPROVE |
|-------------------------|
|                         |

# 承認書

## SPECIFICATION FOR APPROVAL

|                                                                                                                                                                                                                                                                           |                       |                                                                                   |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------|---------------|
| 客戶名稱<br>CUSTOMER                                                                                                                                                                                                                                                          |                       | 日期<br>DATE                                                                        | 2025.05.12    |
| 規格<br>ITEM                                                                                                                                                                                                                                                                | SCRC 20-10-10         | 編號<br>SERIAL NO.                                                                  |               |
| 1.1. 形狀尺寸(單位/毫米):<br>SHAPE & DIMENSION(unit/mm):                                                                                                                                                                                                                          |                       | 1.2. 實物圖:<br>The Sample::                                                         |               |
|                                                                                                                                                                                          |                       |  |               |
|                                                                                                                                                                                                                                                                           |                       | A                                                                                 | 24.0 ± 1.0 mm |
|                                                                                                                                                                                                                                                                           |                       | B                                                                                 | 27.0 ± 1.0 mm |
|                                                                                                                                                                                                                                                                           |                       | C                                                                                 | 10.0 ± 0.8 mm |
|                                                                                                                                                                                                                                                                           |                       | D                                                                                 | 13.5 ± 1.0 mm |
|                                                                                                                                                                                                                                                                           |                       | E                                                                                 | 19.0 ± 1.0 mm |
|                                                                                                                                                                                                                                                                           |                       | F                                                                                 |               |
|                                                                                                                                                                                                                                                                           |                       | G                                                                                 |               |
|                                                                                                                                                                                                                                                                           |                       | H                                                                                 |               |
| 2. 電氣性能檢測項目:<br>ELECTRICAL REQUIREMENTS:                                                                                                                                                                                                                                  |                       | 測試儀器<br>TEST INSTRUMENTS                                                          |               |
| <input type="checkbox"/> L                                                                                                                                                                                                                                                |                       | TEST FREQ                                                                         | KHZ<br>MHZ    |
| <input type="checkbox"/> Q                                                                                                                                                                                                                                                |                       | TEST FREQ                                                                         | KHZ<br>MHZ    |
| <input checked="" type="checkbox"/> Z                                                                                                                                                                                                                                     | Z1= 30Ω MIN<br>25 KHZ | Z2=80Ω MIN<br>100 KHZ                                                             |               |
|                                                                                                                                                                                                                                                                           | Z3= / KHZ<br>MHZ      | Z4= / KHZ<br>MHZ                                                                  |               |
| 溫度<br>TEMP                                                                                                                                                                                                                                                                | ℃                     | 濕度<br>HUMIDITY                                                                    | %             |
| 線組<br>WINDING Φ0.5x0.5TSx100L(mm)                                                                                                                                                                                                                                         |                       |                                                                                   |               |
| 5.1. Q-METER:<br>○ HP 4342A ○ MQ-172                                                                                                                                                                                                                                      |                       |                                                                                   |               |
| 5.2. L.C.R. METER:<br>○ HP 4284A                                                                                                                                                                                                                                          |                       |                                                                                   |               |
| 5.3. IMPEDANCE ANALYZER:<br>○ HP 4396B ○ HP 4191A ○ E4991A<br>○ Agilent 16194A-TESTFIXTURE                                                                                                                                                                                |                       |                                                                                   |               |
| 5.4. L-METER:<br>○ TH 2817A                                                                                                                                                                                                                                               |                       |                                                                                   |               |
| 5.5. DIGITAL MINI-OHMMETER:<br>○ VP2941A                                                                                                                                                                                                                                  |                       |                                                                                   |               |
| 3. 外觀:<br>THE LIMIT OF BREAKAGE:                                                                                                                                                                                                                                          |                       |                                                                                   |               |
| 項目<br>Item                                                                                                                                                                                                                                                                |                       | 標準值<br>Standard Value                                                             |               |
| 一處缺陷的面積<br>Area of a breakage                                                                                                                                                                                                                                             |                       | ≤1mm <sup>2</sup>                                                                 |               |
| 總缺陷面積<br>All area of the breakage                                                                                                                                                                                                                                         |                       | ≤2mm <sup>2</sup>                                                                 |               |
| 缺陷深度<br>The depth of the breakage                                                                                                                                                                                                                                         |                       | ≤0.4mm                                                                            |               |
| 毛刺長度<br>The length of burr                                                                                                                                                                                                                                                |                       | ≤0.2mm                                                                            |               |
| 4. 包裝:<br>PACKAGING:<br>內包裝採用泡塑盒, 外包裝採用紙箱, 每箱產品外面都蓋上合格章(包括品名、數量、批號、檢驗員)。<br>Inner packing adopts foam plastics box, outer packing adopts carton and each carton should have a qualified chapter label outside(include the variety, quantity, batch number and inspector). |                       |                                                                                   |               |

檢驗數據  
INSPECTION DATA

|                                                                                                                                                                |                                  |                                                                                                                                                                                            |       |                |       |                        |                                 |                         |                |       |                 |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------|-------|------------------------|---------------------------------|-------------------------|----------------|-------|-----------------|---|
| 客戶名稱<br>CUSTOMER                                                                                                                                               |                                  | 日期<br>DATE                                                                                                                                                                                 |       | 數量<br>QUANTITY |       | 5PCS                   |                                 |                         |                |       |                 |   |
| 編號<br>SERIAL NO.                                                                                                                                               |                                  | <div>形狀尺寸(單位/毫米):<br/>SHAPE &amp; DIMENSION(unit/mm):</div> <div>實物圖:<br/>The Sample::</div> <div></div> |       |                |       | 規格<br>ITEM             |                                 | SCRC 20-10-10           |                |       |                 |   |
| 線組<br>WINDING                                                                                                                                                  |                                  |                                                                                                                                                                                            |       |                |       | Φ0.5x0.5TSx100L(mm)    |                                 |                         |                |       |                 |   |
| 測試頻率<br>TEST FREQ                                                                                                                                              |                                  |                                                                                                                                                                                            |       |                |       | Z1=      KHZ<br>25 MHZ |                                 | Z2=      KHZ<br>100 MHZ |                |       |                 |   |
|                                                                                                                                                                |                                  |                                                                                                                                                                                            |       |                |       | Z3=      KHZ<br>MHZ    |                                 | Z4=      KHZ<br>MHZ     |                |       |                 |   |
| 溫度<br>TEMP                                                                                                                                                     |                                  | ℃                                                                                                                                                                                          |       | 濕度<br>HUMIDITY |       | %                      |                                 |                         |                |       |                 |   |
| 項目<br>TEST ITEM                                                                                                                                                | 電氣性能<br>ELECTRIC CHARACTERISTICS |                                                                                                                                                                                            |       |                |       |                        | 尺寸(單位:毫米)<br>DIMENSION(unit:mm) |                         |                |       |                 |   |
|                                                                                                                                                                | Q                                | L(μH)<br>(MH)                                                                                                                                                                              | Z1(Ω) | Z2(Ω)          | Z3(Ω) | Z4(Ω)                  | A                               | B                       | C              | D     | E               | F |
|                                                                                                                                                                |                                  |                                                                                                                                                                                            | 30    | 80             |       |                        | 24.0                            | 27.0                    | 10.0           | 13.5  | 19.0            |   |
| +                                                                                                                                                              |                                  |                                                                                                                                                                                            | /     | /              |       |                        | 1.0                             | 1.0                     | 0.8            | 1.0   | 1.0             |   |
| -                                                                                                                                                              |                                  |                                                                                                                                                                                            | 0     | 0              |       |                        | 1.0                             | 1.0                     | 0.8            | 1.0   | 1.0             |   |
| 1                                                                                                                                                              |                                  |                                                                                                                                                                                            | 44.1  | 99.5           |       |                        | 24.06                           | 27.07                   | 10.08          | 13.45 | 19.15           |   |
| 2                                                                                                                                                              |                                  |                                                                                                                                                                                            | 44.5  | 99.7           |       |                        | 24.09                           | 27.12                   | 10.19          | 13.53 | 19.18           |   |
| 3                                                                                                                                                              |                                  |                                                                                                                                                                                            | 44.2  | 98.5           |       |                        | 24.05                           | 27.11                   | 10.12          | 13.50 | 19.22           |   |
| 4                                                                                                                                                              |                                  |                                                                                                                                                                                            | 43.9  | 98.7           |       |                        | 24.17                           | 27.02                   | 10.05          | 13.40 | 19.15           |   |
| 5                                                                                                                                                              |                                  |                                                                                                                                                                                            | 43.7  | 98.6           |       |                        | 24.03                           | 27.06                   | 10.10          | 13.44 | 19.25           |   |
| 6                                                                                                                                                              |                                  |                                                                                                                                                                                            | 44.1  | 99.6           |       |                        | 24.16                           | 27.13                   | 10.13          | 13.30 | 19.14           |   |
| 7                                                                                                                                                              |                                  |                                                                                                                                                                                            | 43.8  | 99.4           |       |                        | 24.10                           | 27.18                   | 10.10          | 13.59 | 19.16           |   |
| 8                                                                                                                                                              |                                  |                                                                                                                                                                                            | 43.5  | 99.2           |       |                        | 24.00                           | 27.04                   | 10.03          | 13.40 | 19.28           |   |
| 9                                                                                                                                                              |                                  |                                                                                                                                                                                            | 44.1  | 99.7           |       |                        | 24.13                           | 27.09                   | 10.09          | 13.50 | 19.26           |   |
| 10                                                                                                                                                             |                                  |                                                                                                                                                                                            | 43.8  | 99.5           |       |                        | 24.11                           | 27.15                   | 10.06          | 13.52 | 19.19           |   |
| X̄                                                                                                                                                             |                                  |                                                                                                                                                                                            | 44.21 | 99.31          |       |                        | 24.09                           | 27.09                   | 10.09          | 13.46 | 19.19           |   |
| Y/N                                                                                                                                                            |                                  |                                                                                                                                                                                            | Y     | Y              |       |                        | Y                               | Y                       | Y              | Y     | Y               |   |
| <div>測試儀器:<br/>TEST INSTRUMENTS:</div> <div>E4991A+16194A</div> <div></div> |                                  |                                                                                                                                                                                            |       |                |       |                        | 檢 驗<br>INSPECTED                |                         | 復 核<br>CHECKED |       | 確 認<br>APPROVED |   |
|                                                                                                                                                                |                                  |                                                                                                                                                                                            |       |                |       |                        | 武卫锋                             |                         | 陆卯生            |       | 林萍              |   |

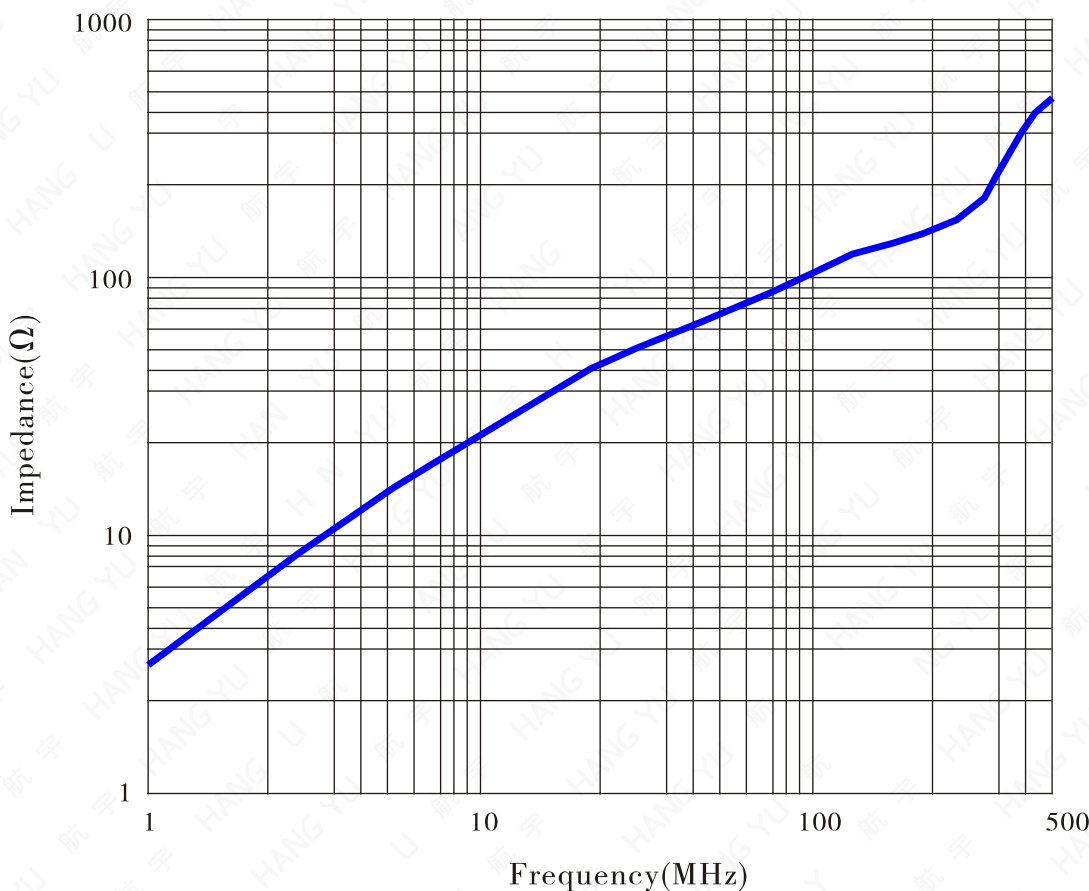
# 阻抗 - 頻率曲綫

## IMPEDANCE V.S FREQUENCY (Z-Y)

|                  |               |                  |            |
|------------------|---------------|------------------|------------|
| 客戶名稱<br>CUSTOMER |               | 日期<br>DATE       | 2025.05.12 |
| 規格<br>ITEM       | SCRC 20-10-10 | 編號<br>SERIAL NO. |            |

## 材質特性 MATERIAL CHARACTERISTICS

| 材料牌號<br>Material | 初始磁導率<br>Initial Permeability | 比損耗因子<br>Relative Loss Factor                                   | 比溫度系數<br>Relative Temperature Coefficient        | 飽和磁通密度<br>Saturation Magnetic Flux Density | 剩磁<br>Remanence          | 矯頑力<br>Coercivity         | 居裏溫度<br>Curie Temperature | 電阻率<br>Electrical Resistivity | 密度<br>Density                       |
|------------------|-------------------------------|-----------------------------------------------------------------|--------------------------------------------------|--------------------------------------------|--------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------------|
| Unit symbol      | $\mu_i$<br><b>±20%</b>        | <b>Tan <math>\delta/\mu_i</math></b><br><b>×10<sup>-6</sup></b> | $\alpha \mu_i \gamma$<br><b>×10<sup>-6</sup></b> | <b>Bs</b><br><b>(MT)</b>                   | <b>Br</b><br><b>(MT)</b> | <b>HC</b><br><b>(A/m)</b> | <b>Tc</b><br><b>(℃)</b>   | $\rho$<br><b>(Ω · m)</b>      | <b>d</b><br><b>g/cm<sup>3</sup></b> |
|                  |                               | 16 (0.1MHz)                                                     | 5 - 10                                           | 280(1600A/m)                               | 200                      | 20                        | >130                      | >10 <sup>5</sup>              | 4.6                                 |



測試條件：  
TESTING CONDITION:

- |                             |                     |
|-----------------------------|---------------------|
| 1. 測試儀器:                    | E4991A+16194A       |
| Testing Equipment:          |                     |
| 2. 測試頻率區間:                  | 1-500MHz            |
| Testing Frequency Range:    |                     |
| 3. 測試綫組:                    | Φ0.5x0.5TSx100L(mm) |
| Testing Coil Specification: |                     |

| 測 試<br>TESTED | 復 核<br>CHECKED | 確 認<br>APPROVED |
|---------------|----------------|-----------------|
| 武卫锋           | 陆卯生            | 林萍              |