



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 50C

客户料號  
CUS. P/N

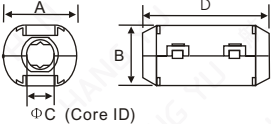
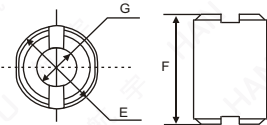
提出日期  
DATE 2025.5.12

| 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        |                |                 |

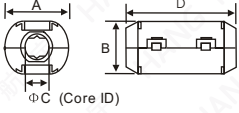
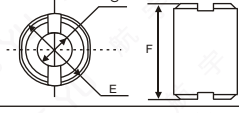
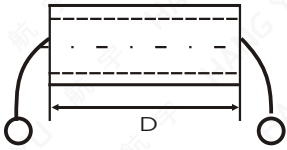
| 承 認<br>CUSTOMER APPROVE |
|-------------------------|
|                         |

承 認 書

SPECIFICATION FOR APPROVAL

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                            |               |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------------|----------------|-----------------------|-------------------------------|-------------------|-----------------------------------|-------------------|---------------------------------------|---------------|----------------------------|---------------|----------------|-----|--------------|-----|--------------|------------|---|-----------------|---|------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 客户名稱<br>CUSTOMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | 日 期<br>DATE                | 2025.5.12     |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| 規 格<br>ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SCRC 50 C             | 編 號<br>SERIAL NO.          |               |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| <div>1.1. 形狀尺寸(單位/毫米):<br/>SHAPE &amp; DIMENSION(unit/mm):</div> <div>1.2. 實物圖:<br/>The Sample::</div> <div>外觀尺寸:<br/></div> <div>磁芯尺寸:<br/></div> <div></div>                                                                                                                                                                                                                                        |                       | A                          | 19.5 ± 1.0 mm |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | B                          | 18.0 ± 1.0 mm |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | C                          | 5.0 ± 1.0mm   |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | D                          | 35 ± 0.8 mm   |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | E                          | 16.0 ± 0.5 mm |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | F                          | 28.0 ± 0.7mm  |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | G                          | 5.0 ± 0.4mm   |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | H                          |               |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| <div>2. 電氣性能檢測項目:<br/>ELECTRICAL REQUIREMENTS:</div> <table><tr><td><input type="checkbox"/> L</td><td></td><td>TEST<br/>FREQ</td><td>KHZ<br/>MHZ</td></tr><tr><td><input type="checkbox"/> Q</td><td></td><td>TEST<br/>FREQ</td><td>KHZ<br/>MHZ</td></tr><tr><td rowspan="2"><input checked="" type="checkbox"/> Z</td><td>Z1= 110 Ω MIN</td><td>25 KHZ<br/>MHZ</td><td>Z2= 250 Ω MIN</td><td>100 KHZ<br/>MHZ</td></tr><tr><td>Z3=</td><td>/ KHZ<br/>MHZ</td><td>Z4=</td><td>/ KHZ<br/>MHZ</td></tr><tr><td>溫度<br/>TEMP</td><td>℃</td><td>濕 度<br/>HUMIDITY</td><td>%</td></tr><tr><td colspan="4">線 組<br/>WINDING Φ0.5x0.5TSx100L(mm)</td></tr></table> |                       | <input type="checkbox"/> L |               | TEST<br>FREQ   | KHZ<br>MHZ            | <input type="checkbox"/> Q    |                   | TEST<br>FREQ                      | KHZ<br>MHZ        | <input checked="" type="checkbox"/> Z | Z1= 110 Ω MIN | 25 KHZ<br>MHZ              | Z2= 250 Ω MIN | 100 KHZ<br>MHZ | Z3= | / KHZ<br>MHZ | Z4= | / KHZ<br>MHZ | 溫度<br>TEMP | ℃ | 濕 度<br>HUMIDITY | % | 線 組<br>WINDING Φ0.5x0.5TSx100L(mm) |  |  |  | <div>測試儀器<br/>TEST INSTRUMENTS</div> <div>1. Q-METER:<br/>○HP 4342A ○MQ-172</div> <div>2. L.C.R. METER:<br/>○HP 4284A</div> <div>3. IMPEDANCE ANALYZER:<br/>○HP 4396B ○HP 4191A    ØE4991A<br/>ØAgilent 16194A-TESTFIXTURE</div> <div>4. L-METER:<br/>○TH 2817A</div> <div>5. DIGITAL MINI-OHMMETER:<br/>○VP2941A</div> |  |
| <input type="checkbox"/> L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | TEST<br>FREQ               | KHZ<br>MHZ    |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| <input type="checkbox"/> Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | TEST<br>FREQ               | KHZ<br>MHZ    |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| <input checked="" type="checkbox"/> Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Z1= 110 Ω MIN         | 25 KHZ<br>MHZ              | Z2= 250 Ω MIN | 100 KHZ<br>MHZ |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Z3=                   | / KHZ<br>MHZ               | Z4=           | / KHZ<br>MHZ   |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| 溫度<br>TEMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ℃                     | 濕 度<br>HUMIDITY            | %             |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| 線 組<br>WINDING Φ0.5x0.5TSx100L(mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                            |               |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| <div>3. 外觀:<br/>THE LIMIT OF BREAKAGE:</div> <table><tr><td>項 目<br/>Item</td><td>標準值<br/>Standard Value</td></tr><tr><td>一處缺陷的面積<br/>Area of a breakage</td><td>≤1mm<sup>2</sup></td></tr><tr><td>總缺陷面積<br/>All area of the breakage</td><td>≤2mm<sup>2</sup></td></tr><tr><td>缺陷深度<br/>The depth of the breakage</td><td>≤0.4mm</td></tr><tr><td>毛刺長度<br/>The length of burr</td><td>≤0.2mm</td></tr></table>                                                                                                                                                                                                                                           |                       |                            |               | 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        |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| 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                |                            |               |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |
| <div>4. 包 裝:<br/>PACKAGING:</div> <div>內包裝采用泡塑盒, 外包裝采用紙箱, 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).</div>                                                                                                                                                                                                                                                                                                                                                          |                       |                            |               |                |                       |                               |                   |                                   |                   |                                       |               |                            |               |                |     |              |     |              |            |   |                 |   |                                    |  |  |  |                                                                                                                                                                                                                                                                                                                         |  |

檢驗數據  
INSPECTION DATA

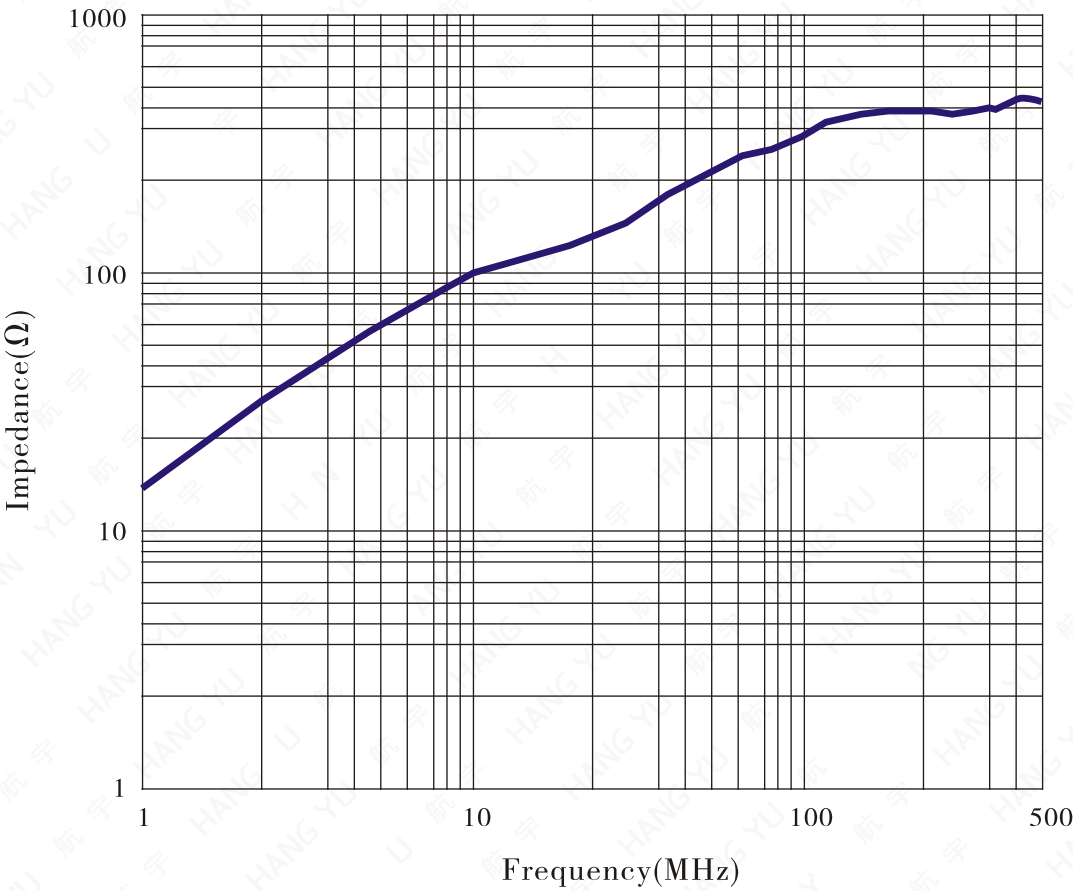
|                                                                                                                                        |                                  |                        |        |                         |       |                                                                                                                                                                                                                                           |           |                |                                                                                                             |                 |        |      |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------|--------|-------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|-------------------------------------------------------------------------------------------------------------|-----------------|--------|------|
| 客戶名稱<br>CUSTOMER                                                                                                                       |                                  |                        |        |                         |       | 日期<br>DATE                                                                                                                                                                                                                                | 2025.5.12 |                |                                                                                                             | 數量<br>QUANTITY  | 10 PCS |      |
| 編號<br>SERIAL NO.                                                                                                                       |                                  |                        |        |                         |       | 形狀尺寸(單位:毫米):<br>SHAPE & DIMENSION(unit/mm):<br>外殼尺寸:<br><br>磁芯尺寸:<br> |           |                | 實物圖:<br>The Sample::<br> |                 |        |      |
| 規格<br>ITEM                                                                                                                             |                                  | SCRC 50 C              |        |                         |       |                                                                                                                                                                                                                                           |           |                |                                                                                                             |                 |        |      |
| 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<br>ITEM                                                                                                                     | 電氣性能<br>ELECTRIC CHARACTERISTICS |                        |        |                         |       | 尺寸(單位:毫米)<br>DIMENSION(unit:mm)                                                                                                                                                                                                           |           |                |                                                                                                             |                 |        |      |
|                                                                                                                                        | L(μH)<br>(MH)                    | Z1(Ω)                  | Z2(Ω)  | Z3(Ω)                   | Z4(Ω) | A                                                                                                                                                                                                                                         | B         | C              | D                                                                                                           | E               | F      | G    |
|                                                                                                                                        |                                  | 110                    | 250    |                         |       | 19.5                                                                                                                                                                                                                                      | 18.0      | 5.0            | 35.0                                                                                                        | 16.0            | 28.0   | 5.0  |
| +                                                                                                                                      |                                  | /                      | /      |                         |       | 1.0                                                                                                                                                                                                                                       | 1.0       | 0.8            | 1.0                                                                                                         | 0.5             | 0.7    | 0.4  |
| -                                                                                                                                      |                                  | 0                      | 0      |                         |       | 1.0                                                                                                                                                                                                                                       | 1.0       | 0.8            | 1.0                                                                                                         | 0.5             | 0.7    | 0.4  |
| 1                                                                                                                                      |                                  | 152.2                  | 318.8  |                         |       | 19.20                                                                                                                                                                                                                                     | 17.70     | 5.09           | 35.30                                                                                                       | 16.02           | 28.04  | 5.04 |
| 2                                                                                                                                      |                                  | 153.7                  | 321.8  |                         |       | 19.10                                                                                                                                                                                                                                     | 17.66     | 5.05           | 35.20                                                                                                       | 15.95           | 27.88  | 5.08 |
| 3                                                                                                                                      |                                  | 153.6                  | 319.6  |                         |       | 19.19                                                                                                                                                                                                                                     | 17.81     | 5.06           | 35.28                                                                                                       | 16.09           | 27.89  | 5.09 |
| 4                                                                                                                                      |                                  | 153.2                  | 320.4  |                         |       | 19.17                                                                                                                                                                                                                                     | 17.83     | 5.17           | 35.36                                                                                                       | 16.02           | 27.94  | 5.04 |
| 5                                                                                                                                      |                                  | 153.3                  | 320.7  |                         |       | 19.25                                                                                                                                                                                                                                     | 17.75     | 5.13           | 35.34                                                                                                       | 16.00           | 27.95  | 5.05 |
| 6                                                                                                                                      |                                  | 153.4                  | 321.4  |                         |       | 19.23                                                                                                                                                                                                                                     | 17.77     | 5.08           | 35.22                                                                                                       | 15.98           | 28.08  | 5.08 |
| 7                                                                                                                                      |                                  | 153.8                  | 319.5  |                         |       | 19.18                                                                                                                                                                                                                                     | 17.69     | 5.12           | 35.27                                                                                                       | 15.97           | 28.00  | 5.00 |
| 8                                                                                                                                      |                                  | 152.7                  | 318.9  |                         |       | 19.16                                                                                                                                                                                                                                     | 17.82     | 5.05           | 35.29                                                                                                       | 16.00           | 27.93  | 5.03 |
| 9                                                                                                                                      |                                  | 153.7                  | 320.4  |                         |       | 19.24                                                                                                                                                                                                                                     | 17.84     | 5.14           | 35.32                                                                                                       | 16.08           | 27.88  | 5.08 |
| 10                                                                                                                                     |                                  | 153.6                  | 321.2  |                         |       | 19.22                                                                                                                                                                                                                                     | 17.76     | 5.07           | 35.38                                                                                                       | 15.96           | 28.09  | 5.09 |
| $\bar{X}$                                                                                                                              |                                  | 153.47                 | 320.25 |                         |       | 19.19                                                                                                                                                                                                                                     | 17.76     | 5.09           | 35.29                                                                                                       | 16.00           | 27.96  | 5.05 |
| Y/N                                                                                                                                    |                                  | Y                      | Y      |                         |       | Y                                                                                                                                                                                                                                         | Y         | Y              | Y                                                                                                           | Y               | Y      | Y    |
| 測試儀器:<br>TEST INSTRUMENTS:<br><br>E4991A+16194A<br> |                                  |                        |        |                         |       | 檢 驗<br>INSPECTED                                                                                                                                                                                                                          |           | 復 核<br>CHECKED |                                                                                                             | 確 認<br>APPROVED |        |      |
|                                                                                                                                        |                                  |                        |        |                         |       | 武卫锋                                                                                                                                                                                                                                       |           | 陆卯生            |                                                                                                             | 林萍              |        |      |

阻抗 - 頻率曲線  
IMPEDANCE V.S FREQUENCY (Z-Y)

|                  |           |                  |           |
|------------------|-----------|------------------|-----------|
| 客戶名稱<br>CUSTOMER |           | 日期<br>DATE       | 2025.5.12 |
| 規格<br>ITEM       | SCRC 50 C | 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 | 居里溫度<br>Curie Temperature | 電阻率<br>Electrical Resistivity  | 密度<br>Density          |
|------------------|-------------------------------|-------------------------------------------|-----------------------------------------------|--------------------------------------------|-----------------|-------------------|---------------------------|--------------------------------|------------------------|
| Unit symbol      | $\mu_i$<br>$\pm 20\%$         | $\tan \delta / \mu_i$<br>$\times 10^{-6}$ | $\alpha \mu_i / ^\circ C$<br>$\times 10^{-6}$ | Bs<br>(MT)                                 | Br<br>(MT)      | HC<br>(A/m)       | Tc<br>( $^\circ C$ )      | $\rho$<br>( $\Omega \cdot m$ ) | d<br>g/cm <sup>3</sup> |
|                  |                               | 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：  
Testing Equipment:
- E4991A+16194A
2. 測試頻率區間：  
Testing Frequency Range:
- 1-1000MHz
3. 測試線組：  
Testing Coil Specification:
- Φ0.5x0.5TSx100L(mm)

| 測試<br>TESTED | 復核<br>CHECKED | 確認<br>APPROVED |
|--------------|---------------|----------------|
| 武卫锋          | 陆卯生           | 林萍             |