



ISO9001-2015  
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# 承 認 書

## SPECIFICATION FOR APPROVAL

客户名稱  
CUSTOMER

品名規格  
DESCRIPTION T 16×13×9

客户料號  
CUS. P/N

提出日期  
DATE 2025.05.12

| 出 圖<br>DRAWING |                |                 |
|----------------|----------------|-----------------|
| 發 行<br>MADE    | 復 核<br>CHECKED | 確 認<br>APPROVED |
| 李光赫            | 方煜镗            | 梁琼              |
| 销售部：张 丽        |                |                 |

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



深圳市航宇磁电有限公司

# 承 認 書

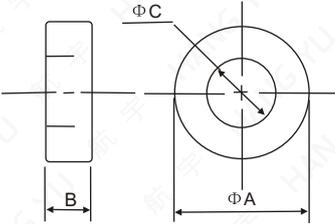
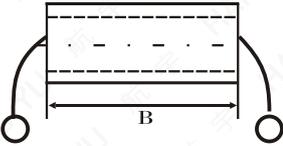
## SPECIFICATION FOR APPROVAL

|  |                     |                                   |                       |                |                 |
|--|---------------------|-----------------------------------|-----------------------|----------------|-----------------|
| 客户名稱<br>CUSTOMER                               |                     | 日期<br>DATE                        | 2025.05.12            |                |                 |
| 規 格<br>ITEM                                    | T 16×13×9           | 編 號<br>SERIAL NO.                 |                       |                |                 |
| 1. 形狀尺寸(單位/毫米):<br>SHAPE & DIMENSION(unit/mm): |                     |                                   |                       |                |                 |
|  |                     | A                                 | 16 ± 0.5 mm           |                |                 |
|  |                     | B                                 | 13 ± 0.5 mm           |                |                 |
|  |                     | C                                 | 9 ± 0.4 mm            |                |                 |
|  |                     | D                                 |                       |                |                 |
|  |                     | E                                 |                       |                |                 |
|  |                     | 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         | KHZ<br>25 MHZ                     | Z2= 75Ω MIN           | KHZ<br>100 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) |                                   |                       |                |                 |
| 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                |                |                 |
| 測試條件:<br>TESTING CONDITION:                    |                     |                                   |                       |                |                 |
| 1. 測試儀器:<br>Testing Equipment:                 |                     | E4991A+16194A                     | 測 試<br>TESTED         | 復 核<br>CHECKED | 確 認<br>APPROVED |
| 2. 測試頻率區間:<br>Testing Frequency Range:         |                     | 1-500MHz                          | 李光赫                   | 方煜镗            | 梁琼              |
| 3. 測試線組:<br>Testing Coil Specification:        |                     | Φ0.5x0.5TSx100L(mm)               |                       |                |                 |

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# 檢驗數據

## INSPECTION DATA

|   |                                  |   |                    |                            |   |                                 |                |                          |      |   |   |   |
|---|----------------------------------|---|--------------------|----------------------------|---|---------------------------------|----------------|--------------------------|------|---|---|---|
| 客戶名稱<br>CUSTOMER                                |                                  |   |                    |                            | 日期<br>DATE  | 2025.05.12                      | 數量<br>QUANTITY | 10PCS                    |      |   |   |   |
| 編號<br>SERIAL NO.                                |                                  |   |                    |                            | 形狀尺寸(單位/毫米):<br>SHAPE & DIMENSION(unit/mm):<br> |                                 |                |                          |      |   |   |   |
| 規格<br>ITEM                                      | T 16x13x9                        |   |                    |                            |   |                                 |                |                          |      |   |   |   |
| 線組<br>WINDING                                   | Φ0.5x0.5TSx100L(mm)              |   |                    |                            |   |                                 |                |                          |      |   |   |   |
| 測試頻率<br>TEST FREQ                               | Z1= 25 KHZ<br>25 MHZ             | Z2= 100 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                 | 75                         |   |                                 | 16             | 13                       | 9    |   |   |   |
| +   |                                  |   | /                  | /                          |   |                                 | 0.5            | 0.5                      | 0.4  |   |   |   |
| -   |                                  |   | 0                  | 0                          |   |                                 | 0.5            | 0.5                      | 0.4  |   |   |   |
| 1   |                                  |   | 43.2               | 100.0                      |   |                                 | 16.00          | 13.00                    | 9.00 |   |   |   |
| 2   |                                  |   | 42.6               | 99.8                       |   |                                 | 16.03          | 13.02                    | 9.01 |   |   |   |
| 3   |                                  |   | 43.4               | 99.6                       |   |                                 | 16.07          | 13.05                    | 9.02 |   |   |   |
| 4   |                                  |   | 43.0               | 100.2                      |   |                                 | 16.06          | 13.06                    | 9.08 |   |   |   |
| 5   |                                  |   | 42.8               | 100.3                      |   |                                 | 16.05          | 13.01                    | 9.05 |   |   |   |
| 6   |                                  |   | 42.2               | 100.4                      |   |                                 | 16.04          | 13.07                    | 9.03 |   |   |   |
| 7   |                                  |   | 42.6               | 99.2                       |   |                                 | 16.03          | 13.05                    | 9.01 |   |   |   |
| 8   |                                  |   | 43.4               | 99.6                       |   |                                 | 16.04          | 13.03                    | 8.99 |   |   |   |
| 9   |                                  |   | 43.3               | 99.2                       |   |                                 | 16.09          | 13.07                    | 8.94 |   |   |   |
| 10  |                                  |   | 42.4               | 99.4                       |   |                                 | 16.07          | 13.09                    | 8.97 |   |   |   |
| $\bar{X}$                                       |                                  |   | 42.89              | 99.77                      |   |                                 | 16.04          | 13.04                    | 9.01 |   |   |   |
| Y/N   |                                  |   | Y                  | Y                          |   |                                 | Y              | Y                        | Y    |   |   |   |
| 測試儀器:<br>TEST INSTRUMENTS:<br><br>E4991A+16194A |                                  |  |                    | 檢驗<br>INSPECTED<br><br>李光赫 |   | 復核<br>CHECKED<br><br>方煜镗        |                | 確認<br>APPROVED<br><br>梁琮 |      |   |   |   |

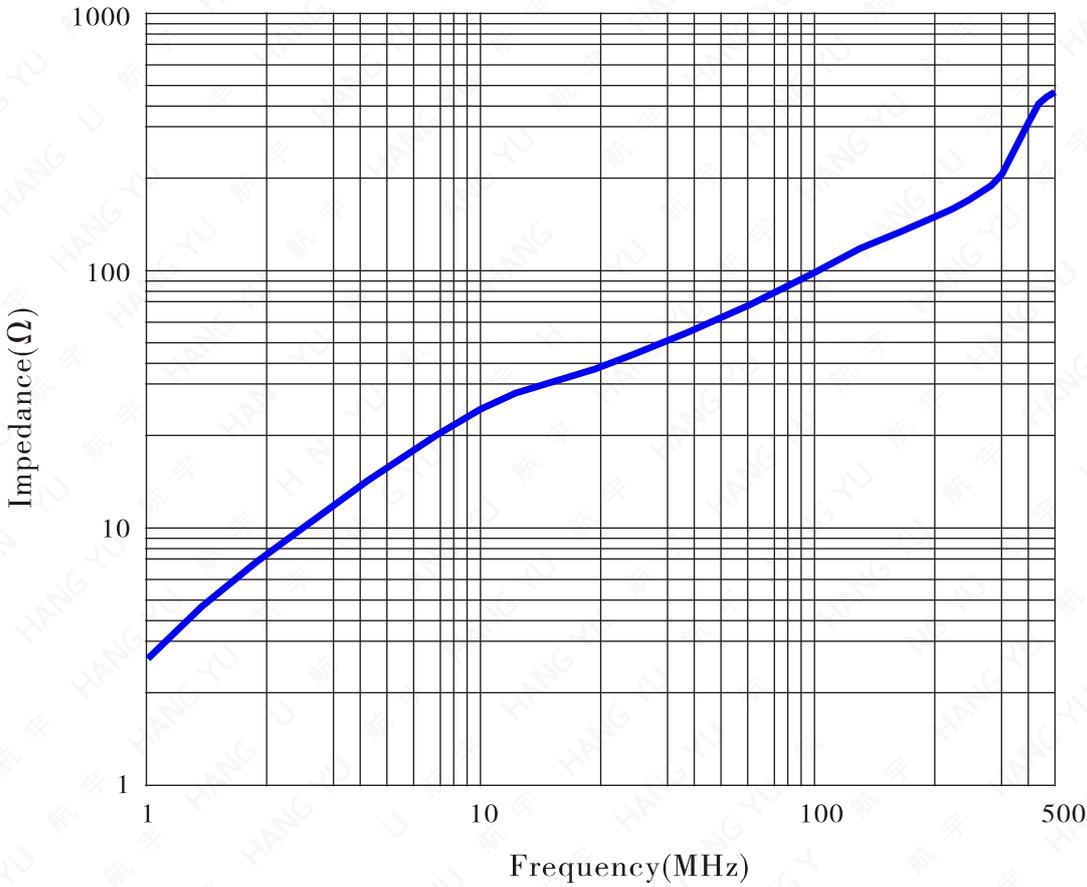
# 阻抗 - 頻率曲綫

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

|                  |           |                  |            |
|------------------|-----------|------------------|------------|
| 客戶名稱<br>CUSTOMER |           | 日期<br>DATE       | 2025.05.12 |
| 規格<br>ITEM       | T 16x13x9 | 編號<br>SERIAL NO. |            |

### 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      | $\mu_i$                       | $\tan \delta / \mu_i$         | $\alpha \mu_i \%$                         | <b>B<sub>s</sub></b>                       | <b>B<sub>r</sub></b> | <b>H<sub>c</sub></b> | <b>T<sub>c</sub></b>      | $\rho$                        | <b>d</b>                |
|                  | $\pm 20\%$                    | $\times 10^{-6}$              | $\times 10^{-6}$                          | (MT)                                       | (MT)                 | (A/m)                | (°C)                      | ( $\Omega \cdot m$ )          | <b>g/cm<sup>3</sup></b> |
|                  |                               | 20 (0.1MHz)                   | 2 - 5                                     | 260(1600A/m)                               | 150                  | 35                   | >140                      | >10 <sup>5</sup>              | 4.6                     |



|       |    |    |              |               |                |
|-------|----|----|--------------|---------------|----------------|
| 客戶簽回欄 | 确认 | 审核 | 測試<br>TESTED | 復核<br>CHECKED | 確認<br>APPROVED |
|       |    |    | 李光赫          | 方煜留           | 梁琼             |

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