



ISO9001-2015  
Certificate No.672Q22020207194



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

## SPECIFICATION FOR APPROVAL

客户名稱  
CUSTOMER

品名規格  
DESCRIPTION T 10×5×5

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 |
| 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

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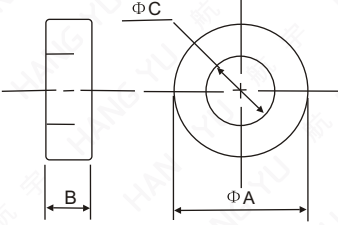
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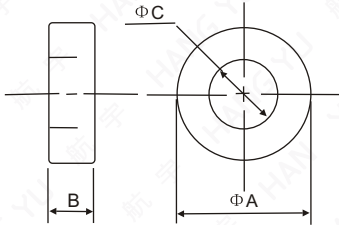
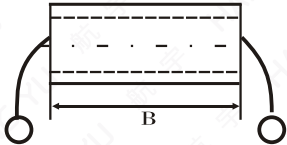
微信 19166347631

承 認 書  
SPECIFICATION FOR APPROVAL

|                                                                                                                                     |              |                     |                       |                          |                |                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|-----------------------|--------------------------|----------------|-----------------|--|
| 客戶名稱<br>CUSTOMER                                                                                                                    |              |                     |                       | 日 期<br>DATE              | 2025.05.12     |                 |  |
| 規 格<br>ITEM                                                                                                                         | T 10×5×5     |                     |                       | 編 號<br>SERIAL NO.        |                |                 |  |
| 1. 形狀尺寸(單位/毫米):<br>SHAPE & DIMENSION(unit/mm):<br> |              |                     |                       | A                        | 10 ± 0.5 mm    |                 |  |
|                                                                                                                                     |              |                     |                       | B                        | 5 ± 0.4 mm     |                 |  |
|                                                                                                                                     |              |                     |                       | C                        | 5 ± 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<br>FREQ        |                       | KHZ<br>MHZ               |                |                 |  |
| <input type="checkbox"/> Q                                                                                                          |              | TEST<br>FREQ        |                       | KHZ<br>MHZ               |                |                 |  |
| <input checked="" type="checkbox"/> Z                                                                                               | Z1= 20 Ω MIN | KHZ<br>25 MHZ       | Z2= 60 Ω MIN          | KHZ<br>100 MHZ           |                |                 |  |
|                                                                                                                                     | Z3=          | KHZ<br>MHZ          | Z4=                   | KHZ<br>MHZ               |                |                 |  |
| 溫 度<br>TEMP                                                                                                                         | ℃            | 濕 度<br>HUMIDITY     | %                     |                          |                |                 |  |
| 綫 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:                                                                                                      |              | HP 4191A            |                       | 測 試<br>TESTED            | 復 核<br>CHECKED | 確 認<br>APPROVED |  |
| 2. 測試頻率區間:<br>Testing Frequency Range:                                                                                              |              | 1-1000MHz           |                       | 李光赫                      | 方煜镗            | 梁琼              |  |
| 3. 測試綫組:<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 10×5×5                         |                |                    |       |       |                                                                                                                                   |                                 |                |                 |       |   |   |
| 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 |
|                                                                                                                                |                                  |                | 20                 | 60    |       |                                                                                                                                   | 10                              | 5              | 5               |       |   |   |
| +                                                                                                                              |                                  |                | /                  | /     |       |                                                                                                                                   | 0.5                             | 0.4            | 0.4             |       |   |   |
| -                                                                                                                              |                                  |                | 0                  | 0     |       |                                                                                                                                   | 0.5                             | 0.4            | 0.4             |       |   |   |
| 1                                                                                                                              |                                  |                | 26.6               | 77.2  |       |                                                                                                                                   | 9.86                            | 5.10           | 4.98            |       |   |   |
| 2                                                                                                                              |                                  |                | 26.0               | 77.8  |       |                                                                                                                                   | 9.93                            | 5.08           | 5.02            |       |   |   |
| 3                                                                                                                              |                                  |                | 26.8               | 77.4  |       |                                                                                                                                   | 9.94                            | 5.00           | 4.95            |       |   |   |
| 4                                                                                                                              |                                  |                | 26.4               | 77.0  |       |                                                                                                                                   | 9.90                            | 4.98           | 4.99            |       |   |   |
| 5                                                                                                                              |                                  |                | 26.2               | 77.6  |       |                                                                                                                                   | 9.87                            | 5.07           | 4.97            |       |   |   |
| 6                                                                                                                              |                                  |                | 27.0               | 78.2  |       |                                                                                                                                   | 9.89                            | 5.08           | 4.98            |       |   |   |
| 7                                                                                                                              |                                  |                | 27.2               | 78.6  |       |                                                                                                                                   | 9.83                            | 5.01           | 5.01            |       |   |   |
| 8                                                                                                                              |                                  |                | 27.6               | 78.4  |       |                                                                                                                                   | 9.85                            | 5.06           | 4.97            |       |   |   |
| 9                                                                                                                              |                                  |                | 27.8               | 78.2  |       |                                                                                                                                   | 9.93                            | 4.98           | 4.96            |       |   |   |
| 10                                                                                                                             |                                  |                | 27.4               | 77.8  |       |                                                                                                                                   | 9.91                            | 5.08           | 5.03            |       |   |   |
| X̄                                                                                                                             |                                  |                | 26.90              | 77.82 |       |                                                                                                                                   | 9.89                            | 5.04           | 4.98            |       |   |   |
| Y/N                                                                                                                            |                                  |                | Y                  | Y     |       |                                                                                                                                   | Y                               | Y              | Y               |       |   |   |
| 測試儀器:<br>TEST INSTRUMENTS:<br><br>HP 4191A  |                                  |                |                    |       |       |                                                                                                                                   | 檢 驗<br>INSPECTED                | 復 核<br>CHECKED | 確 認<br>APPROVED |       |   |   |
|                                                                                                                                |                                  |                |                    |       |       |                                                                                                                                   | 李光赫                             | 方煜镗            | 梁琮              |       |   |   |

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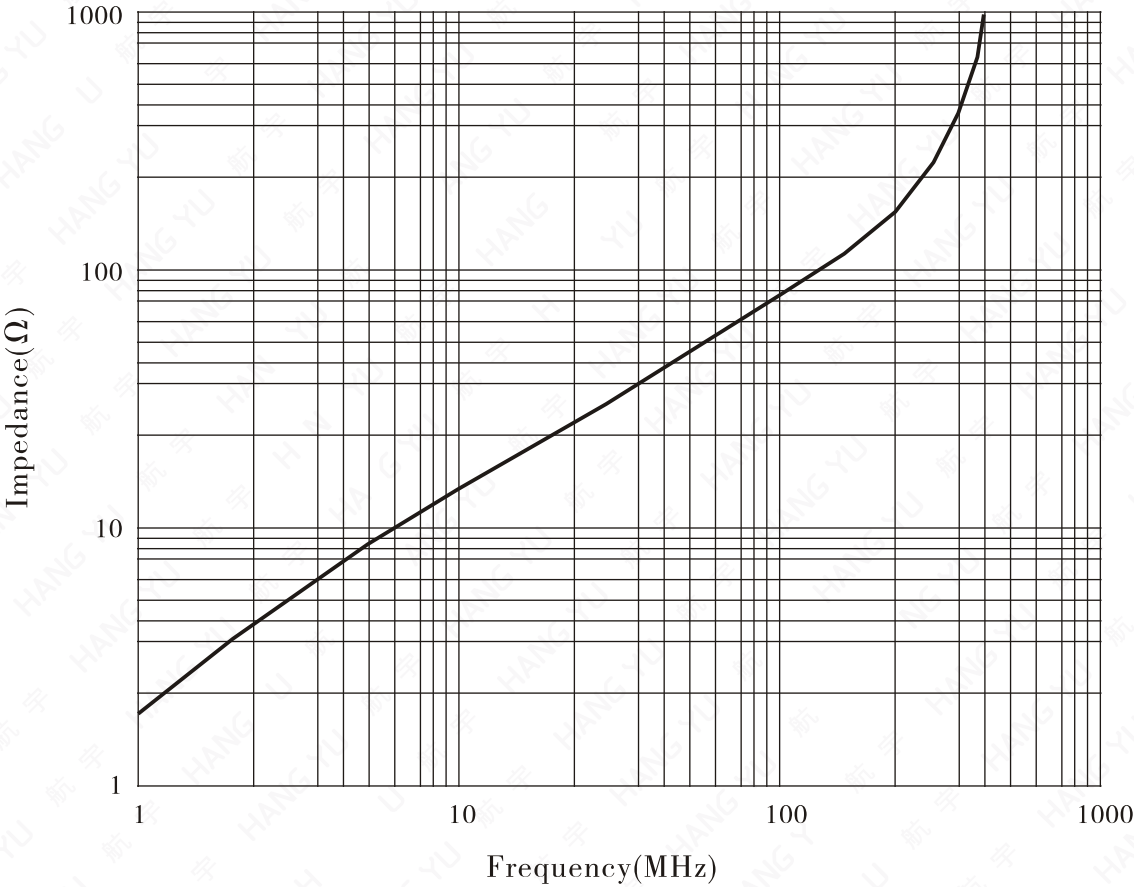
# 阻抗 - 頻率曲線

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

|                  |          |                  |            |
|------------------|----------|------------------|------------|
| 客戶名稱<br>CUSTOMER |          | 日期<br>DATE       | 2025.05.12 |
| 規格<br>ITEM       | T 10×5×5 | 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         | 使用範圍<br>Applied Frequency Range | 密度<br>Density          |
|------------------|-------------------------------|-------------------------------------------|-----------------------------------------------------|--------------------------------------------|-----------------|-------------------|---------------------------|---------------------------------------|---------------------------------|------------------------|
| Unit symbol      | $\mu_i$<br>$\pm 20\%$         | $\tan \delta / \mu_i$<br>$\times 10^{-6}$ | $\alpha \mu_i / ^\circ\text{C}$<br>$\times 10^{-6}$ | Bs<br>(MT)                                 | Br<br>(MT)      | HC<br>(A/m)       | Tc<br>(°C)                | $\rho$<br>( $\Omega \cdot \text{m}$ ) | F<br>MHz                        | d<br>g/cm <sup>3</sup> |
|                  |                               | 20 (0.1MHz)                               | 2 - 5                                               | 330(1600A/m)                               | 150             | 35                | >110                      | >10 <sup>5</sup>                      | 0.1-1.5                         | 4.9                    |



|                    |    |    |              |               |                |
|--------------------|----|----|--------------|---------------|----------------|
| 客戶簽回欄              | 確認 | 審核 | 測試<br>TESTED | 復核<br>CHECKED | 確認<br>APPROVED |
|                    |    |    | 李光赫          | 方煜鎰           | 梁琮             |
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