



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 RH 8×20×5.6

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

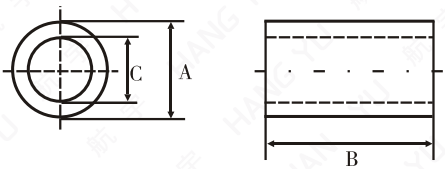
广东省深圳市西乡  
铁岗水库创富工业区2栋

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13423947631

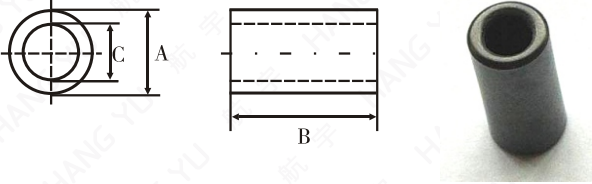
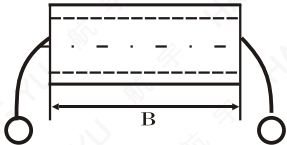
# 承 認 書

## SPECIFICATION FOR APPROVAL

| 客戶名稱<br>CUSTOMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | 日期<br>DATE      | 2025.05.12       |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|------------------|----------------|--|----------------------------|-----------------------|-------------------------------|-------------------|-----------------------------------|----------------------------|-----------------------------------|--------------|----------------------------|------------|---------------------------------------|-------------|---------------|-------------|----------------|-----|------------|-----|------------|------------|---|-----------------|---|--|--|------------------------------------|--|--|--|--|
| 規格<br>ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RH 8×20×5.6           |                 | 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></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                 | A                | 8 ± 0.4 mm     |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | B                | 20 ± 0.5 mm    |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | C                | 5.6 ± 0.3 mm   |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | D                |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | E                |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | F                |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | G                |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                 | 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></td><td>KHZ<br/>MHZ</td></tr><tr><td><input type="checkbox"/> Q</td><td></td><td>TEST<br/>FREQ</td><td></td><td>KHZ<br/>MHZ</td></tr><tr><td rowspan="2"><input checked="" type="checkbox"/> Z</td><td>Z1= 25Ω MIN</td><td>KHZ<br/>25 MHZ</td><td>Z2= 75Ω MIN</td><td>KHZ<br/>100 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 colspan="3">%</td></tr><tr><td colspan="5">線 組<br/>WINDING Φ0.5x0.5TSx100L(mm)</td></tr></table> <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/>Ø HP 4396B    Ø HP 4191A    Ø HP4192B<br/>Ø Agilent 16092A-TESTFIXTURE</div> <div>4. L-METER:<br/>○ TH 2775B</div> <div>5. DIGITAL MINI-OHM METER:<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= 25Ω 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) |  |  |  |  |
| <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= 25Ω 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                 |                  |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |
| <div>3. 外 觀:<br/>THE LIMIT OF BREAKAGE:</div> <table><thead><tr><th>項 目<br/>Item</th><th>標準值<br/>Standard Value</th></tr></thead><tbody><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></tbody></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                |                 |                  |                |  |                            |                       |                               |                   |                                   |                            |                                   |              |                            |            |                                       |             |               |             |                |     |            |     |            |            |   |                 |   |  |  |                                    |  |  |  |  |

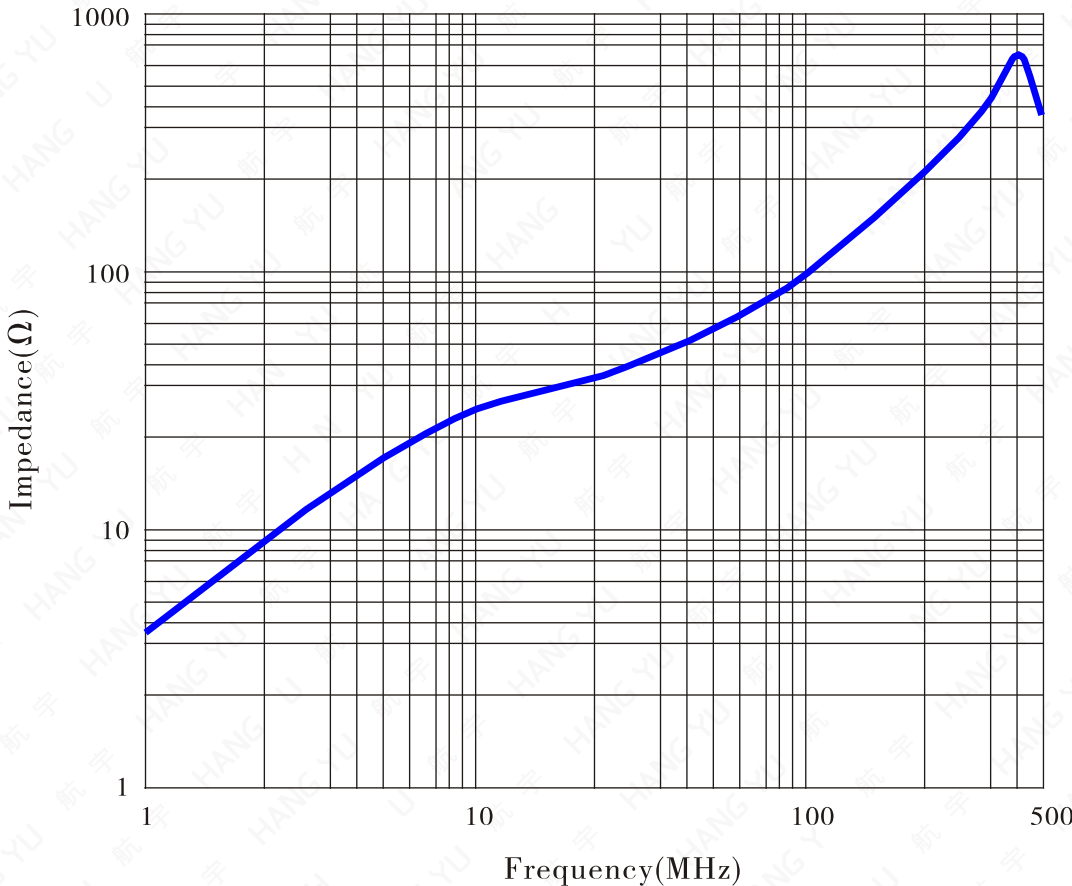
深圳市航宇磁电有限公司

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>實物圖:<br>The Sample::<br> |                                 |                |                 |       |   |   |
| 規格<br>ITEM                                                                                                                           | RH 8x20x5.6                      |               |                         |       |       |                                                                                                                                                           |                                 |                |                 |       |   |   |
| 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) |                |                 |       |   |   |
|                                                                                                                                      | Q                                | L(μH)<br>(MH) | Z1(Ω)                   | Z2(Ω) | Z3(Ω) | Z4(Ω)                                                                                                                                                     | A                               | B              | C               | D     | E | F |
|                                                                                                                                      |                                  |               | 25                      | 75    |       |                                                                                                                                                           | 8                               | 20             | 5.6             |       |   |   |
| +                                                                                                                                    |                                  |               | /                       | /     |       |                                                                                                                                                           | 0.4                             | 0.5            | 0.3             |       |   |   |
| -                                                                                                                                    |                                  |               | 0                       | 0     |       |                                                                                                                                                           | 0.4                             | 0.5            | 0.3             |       |   |   |
| 1                                                                                                                                    |                                  |               | 37.4                    | 99.8  |       |                                                                                                                                                           | 8.04                            | 20.18          | 5.52            |       |   |   |
| 2                                                                                                                                    |                                  |               | 37.2                    | 99.2  |       |                                                                                                                                                           | 8.10                            | 20.06          | 5.60            |       |   |   |
| 3                                                                                                                                    |                                  |               | 40.0                    | 98.4  |       |                                                                                                                                                           | 8.09                            | 20.16          | 5.66            |       |   |   |
| 4                                                                                                                                    |                                  |               | 40.0                    | 99.8  |       |                                                                                                                                                           | 8.06                            | 20.08          | 5.54            |       |   |   |
| 5                                                                                                                                    |                                  |               | 39.6                    | 100.6 |       |                                                                                                                                                           | 7.90                            | 20.15          | 5.50            |       |   |   |
| 6                                                                                                                                    |                                  |               | 38.4                    | 100.4 |       |                                                                                                                                                           | 7.95                            | 19.77          | 5.56            |       |   |   |
| 7                                                                                                                                    |                                  |               | 38.6                    | 98.8  |       |                                                                                                                                                           | 7.93                            | 19.88          | 5.48            |       |   |   |
| 8                                                                                                                                    |                                  |               | 37.2                    | 98.2  |       |                                                                                                                                                           | 7.91                            | 19.66          | 5.62            |       |   |   |
| 9                                                                                                                                    |                                  |               | 39.0                    | 99.0  |       |                                                                                                                                                           | 7.89                            | 19.86          | 5.60            |       |   |   |
| 10                                                                                                                                   |                                  |               | 38.6                    | 100.6 |       |                                                                                                                                                           | 7.87                            | 19.72          | 5.56            |       |   |   |
| $\bar{X}$                                                                                                                            |                                  |               | 38.60                   | 99.48 |       |                                                                                                                                                           | 7.97                            | 19.95          | 5.56            |       |   |   |
| Y/N                                                                                                                                  |                                  |               | Y                       | Y     |       |                                                                                                                                                           | Y                               | Y              | Y               |       |   |   |
| 測試儀器:<br>TEST INSTRUMENTS:<br>HP 4396B+16092A<br> |                                  |               |                         |       |       |                                                                                                                                                           | 檢 驗<br>INSPECTED                | 復 核<br>CHECKED | 確 認<br>APPROVED |       |   |   |
|                                                                                                                                      |                                  |               |                         |       |       |                                                                                                                                                           | 李光赫                             | 方煜镗            | 梁琼              |       |   |   |

深圳市航宇磁电有限公司

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                                                                                    |                               | RH 8x20x5.6                               |                                           |                                            | 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>Reman-ence | 矯頑力<br>Coercivity | 居裏溫度<br>Curie Tempera-ture | 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>$\times 10^{-6}$ | $\alpha \mu_i \gamma$<br>$\times 10^{-6}$ | Bs<br>(MT)                                 | Br<br>(MT)        | HC<br>(A/m)       | Tc<br>(℃)                  | $\rho$<br>( $\Omega \cdot m$ ) | 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                    |  |
| <div></div> |                               |                                           |                                           |                                            |                   |                   |                            |                                |                                 |                        |  |
|                                                                                                |                               |                                           |                                           |                                            |                   |                   |                            |                                |                                 |                        |  |
| 客戶簽回栏                                                                                          | 确 認                           |                                           | 审 核                                       |                                            | 測 試<br>TESTED     |                   |                            | 復 核<br>CHECKED                 |                                 | 確 認<br>APPROVED        |  |
|                                                                                                |                               |                                           |                                           |                                            | 李光赫               |                   |                            | 方煜镗                            |                                 | 梁琼                     |  |
| www.yucores.com.cn                                                                             |                               |                                           |                                           |                                            |                   |                   |                            |                                |                                 |                        |  |

深圳市航宇磁电有限公司