



ISO9001-2015  
Certificate No.672Q22020207194

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

# 承認書

## SPECIFICATION FOR APPROVAL

客户名稱  
CUSTOMER

品名規格  
DESCRIPTION RH 6.35×12.7×3.3

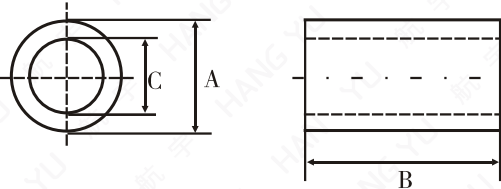
客户料號  
CUS. P/N

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            | 方煜鎰            | 梁琮              |
| 销售部：张 丽        |                |                 |

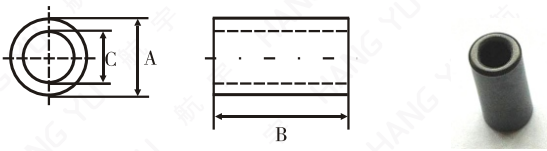
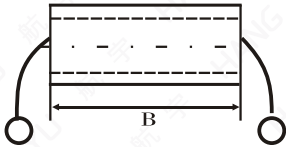
| 承 認<br>CUSTOMER APPROVE |
|-------------------------|
|                         |

承 認 書  
SPECIFICATION FOR APPROVAL

|                                                                                                                                                                                                                                                         |                                  |                                             |                                                                                               |                                                  |                       |                   |                                    |                                  |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------|-------------------|------------------------------------|----------------------------------|------------------------|
| 客户名稱<br>CUSTOMER                                                                                                                                                                                                                                        |                                  |                                             |                                                                                               | 日期<br>DATE                                       | 2025.05.12            |                   |                                    |                                  |                        |
| 規格<br>ITEM                                                                                                                                                                                                                                              | RH 6.35×12.7×3.3                 |                                             |                                                                                               | 編號<br>SERIAL NO.                                 |                       |                   |                                    |                                  |                        |
| 1.1. 形狀尺寸(單位/毫米):<br>SHAPE & DIMENSION(unit/mm):<br><br>1.2. 實物圖:<br>The Sample::<br> |                                  |                                             |                                                                                               | A                                                | 6.35 ± 0.5 mm         |                   |                                    |                                  |                        |
|                                                                                                                                                                                                                                                         |                                  |                                             |                                                                                               | B                                                | 12.7 ± 0.5 mm         |                   |                                    |                                  |                        |
|                                                                                                                                                                                                                                                         |                                  |                                             |                                                                                               | C                                                | 3.3 ± 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                                |                                                                                               | 1. Q-METER:<br>○ HP 4342A    ○ MQ-172            |                       |                   |                                    |                                  |                        |
| <input type="checkbox"/> Q                                                                                                                                                                                                                              |                                  | TEST<br>FREQ                                |                                                                                               | 2. L.C.R. METER:<br>○ HP 4284A                   |                       |                   |                                    |                                  |                        |
| <input checked="" type="checkbox"/> Z                                                                                                                                                                                                                   | Z1= 40 Ω MIN    KHZ<br>25 MHZ    | Z2= 108 Ω MIN    KHZ<br>100 MHZ             | 3. IMPEDANCE ANALYZER:<br>○ HP 4396B    ØHP 4191A    ○HP4192B<br>○ Agilent 16092A-TESTFIXTURE |                                                  |                       |                   |                                    |                                  |                        |
|                                                                                                                                                                                                                                                         | Z3=    /    KHZ<br>MHZ           | Z4=    /    KHZ<br>MHZ                      | 4. L-METER:<br>○ TH 2775B                                                                     |                                                  |                       |                   |                                    |                                  |                        |
| 溫度<br>TEMP                                                                                                                                                                                                                                              | ℃                                | 濕度<br>HUMIDITY                              | %                                                                                             | 5. DIGITAL MINI-OHMMETER:<br>○ VP2941A           |                       |                   |                                    |                                  |                        |
| 線 組<br>WINDING    Φ0.5x0.5TSx100L(mm)                                                                                                                                                                                                                   |                                  |                                             |                                                                                               |                                                  |                       |                   |                                    |                                  |                        |
| 3. 外觀標準: 依下表對照檢索:<br>THE LIMIT OF BREAKAGE: CHECKED BELOW:                                                                                                                                                                                              |                                  |                                             |                                                                                               |                                                  |                       |                   |                                    |                                  |                        |
| OD<br>(mm)                                                                                                                                                                                                                                              | 0~5                              | 5.1~10                                      | 10.1~15                                                                                       | 15.1~20                                          | 20.1~25               | 25.1~30           | 30.1~35                            | 35以上                             |                        |
| 缺陷面积<br>Defect area<br>(mm²)                                                                                                                                                                                                                            | ≤1                               | ≤2                                          | ≤3                                                                                            | ≤4                                               | ≤5                    | ≤6                | ≤7                                 | ≤8                               |                        |
| 缺陷个数<br>Number of<br>defects<br>(≦)                                                                                                                                                                                                                     | 1                                | 2                                           | 3                                                                                             | 3                                                | 3                     | 3                 | 2                                  | 2                                |                        |
| 4.材質特性MATERIAL CHARACTERISTICS                                                                                                                                                                                                                          |                                  |                                             |                                                                                               |                                                  |                       |                   |                                    |                                  |                        |
| 材料<br>牌號<br>Mate-<br>rial                                                                                                                                                                                                                               | 初始磁導率<br>Initial<br>Permeability | 比損耗因子<br>Relative<br>Loss Factor            | 比溫度系數<br>Relative<br>Temperature<br>Coefficient                                               | 飽和磁通密度<br>Saturation<br>Magnetic Flux<br>Density | 剩磁<br>Reman-<br>-ence | 矯頑力<br>Coercivity | 居裏溫度<br>Curie<br>Tempera-<br>-ture | 電阻率<br>Electrical<br>Resistivity | 密度<br>Density          |
| Unit<br>symbol                                                                                                                                                                                                                                          | μ <sub>i</sub><br>±20%           | Tan δ / μ <sub>i</sub><br>×10 <sup>-6</sup> | α μ <sub>i</sub> γ<br>×10 <sup>-6</sup>                                                       | B <sub>s</sub><br>(MT)                           | Br<br>(MT)            | HC<br>(A/m)       | T <sub>c</sub><br>(℃)              | ρ<br>(Ω · m)                     | d<br>g/cm <sup>3</sup> |
|                                                                                                                                                                                                                                                         |                                  | 20 (0.1MHz)                                 | 2 - 5                                                                                         | 260(1600A/m)                                     | 150                   | 35                | >140                               | >10 <sup>5</sup>                 | 4.6                    |

# 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 6.35 × 12.7 × 3.3                    |               |                                          |        |       |                                                                                                                                                           |                                 |                |                 |       |   |   |
| 線組<br>WINDING                                                                                                                 | Φ0.5x0.5TSx100L(mm)                     |               |                                          |        |       |                                                                                                                                                           |                                 |                |                 |       |   |   |
| 測試頻率<br>TEST FREQ                                                                                                             | Z1= $\frac{\text{KHZ}}{25 \text{ MHZ}}$ |               | Z2= $\frac{\text{KHZ}}{100 \text{ MHZ}}$ |        |       |                                                                                                                                                           |                                 |                |                 |       |   |   |
|                                                                                                                               | Z3= $\frac{\text{KHZ}}{\text{MHZ}}$     |               | Z4= $\frac{\text{KHZ}}{\text{MHZ}}$      |        |       |                                                                                                                                                           |                                 |                |                 |       |   |   |
| 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 |
|                                                                                                                               |                                         |               | 40                                       | 108    |       |                                                                                                                                                           | 6.35                            | 12.7           | 3.3             |       |   |   |
| +                                                                                                                             |                                         |               | /                                        | /      |       |                                                                                                                                                           | 0.5                             | 0.5            | 0.4             |       |   |   |
| -                                                                                                                             |                                         |               | 0                                        | 0      |       |                                                                                                                                                           | 0.5                             | 0.5            | 0.4             |       |   |   |
| 1                                                                                                                             |                                         |               | 57.6                                     | 123.6  |       |                                                                                                                                                           | 6.28                            | 12.68          | 3.28            |       |   |   |
| 2                                                                                                                             |                                         |               | 56.8                                     | 123.0  |       |                                                                                                                                                           | 6.30                            | 12.76          | 3.29            |       |   |   |
| 3                                                                                                                             |                                         |               | 57.4                                     | 124.8  |       |                                                                                                                                                           | 6.26                            | 12.69          | 3.33            |       |   |   |
| 4                                                                                                                             |                                         |               | 56.2                                     | 124.4  |       |                                                                                                                                                           | 6.29                            | 12.77          | 3.34            |       |   |   |
| 5                                                                                                                             |                                         |               | 56.6                                     | 123.6  |       |                                                                                                                                                           | 6.30                            | 12.72          | 3.25            |       |   |   |
| 6                                                                                                                             |                                         |               | 56.4                                     | 124.6  |       |                                                                                                                                                           | 6.35                            | 12.67          | 3.30            |       |   |   |
| 7                                                                                                                             |                                         |               | 57.2                                     | 123.8  |       |                                                                                                                                                           | 6.36                            | 12.65          | 3.35            |       |   |   |
| 8                                                                                                                             |                                         |               | 56.8                                     | 124.0  |       |                                                                                                                                                           | 6.31                            | 12.74          | 3.31            |       |   |   |
| 9                                                                                                                             |                                         |               | 57.8                                     | 124.2  |       |                                                                                                                                                           | 6.32                            | 12.73          | 3.40            |       |   |   |
| 10                                                                                                                            |                                         |               | 56.2                                     | 123.6  |       |                                                                                                                                                           | 6.29                            | 12.76          | 3.41            |       |   |   |
| $\bar{X}$                                                                                                                     |                                         |               | 56.90                                    | 123.96 |       |                                                                                                                                                           | 6.30                            | 12.71          | 3.32            |       |   |   |
| Y/N                                                                                                                           |                                         |               | Y                                        | Y      |       |                                                                                                                                                           | Y                               | Y              | Y               |       |   |   |
| 測試儀器:<br>TEST INSTRUMENTS:<br>HP 4191A<br> |                                         |               |                                          |        |       |                                                                                                                                                           | 檢 驗<br>INSPECTED                | 復 核<br>CHECKED | 確 認<br>APPROVED |       |   |   |
|                                                                                                                               |                                         |               |                                          |        |       |                                                                                                                                                           | 李光赫                             | 方煜鎰            | 梁琼              |       |   |   |

# 阻抗 - 頻率曲綫

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

