



ISO9001-2015
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承認書

SPECIFICATION FOR APPROVAL

客户名稱
CUSTOMER

品名規格
DESCRIPTION RH 12×20×6.5

客户料號
CUS. P/N

提出日期
DATE 2025.05.12

| 出圖 DRAWING | | |
|---------------|---------------|----------------|
| 發行 MADE | 復核 CHECKED | 確認 APPROVED |
| 李光赫 | 方煜镗 | 梁琼 |
| 销售部：张 丽 | | |

| 承 認 CUSTOMER APPROVE |
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深圳市航宇磁电有限公司

承 認 書

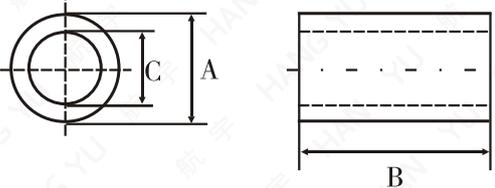
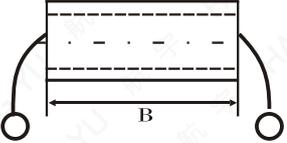
SPECIFICATION FOR APPROVAL

| | | | | | |
|--|---------------------|-----------------------------------|-----------------------|-----------------------|-----------------|
| 客戶名稱 CUSTOMER | | 日期 DATE | 2025.05.12 | | |
| 規格 ITEM | RH 12 × 20 × 6.5 | 編號 SERIAL NO. | | | |
| 1. 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm): | | A | 12 ± 0.5 mm | | |
| | | B | 20 ± 0.6 mm | | |
| | | C | 6.5 ± 0.4 mm | | |
| | | D | | | |
| | | E | | | |
| | | F | | | |
| | | G | | | |
| | | H | | | |
| 2. 電氣性能檢測項目: ELECTRICAL REQUIREMENTS: | | 測試儀器 TEST INSTRUMENTS | | | |
| <input type="checkbox"/> L | | TEST FREQ | KHZ MHZ | | |
| <input type="checkbox"/> Q | | TEST FREQ | KHZ MHZ | | |
| <input checked="" type="checkbox"/> Z | Z1= 50Ω MIN | $\frac{KHZ}{25 MHZ}$ | Z2= 100Ω MIN | $\frac{KHZ}{100 MHZ}$ | |
| | Z3= / | $\frac{KHZ}{MHZ}$ | Z4= / | $\frac{KHZ}{MHZ}$ | |
| 溫度 TEMP | °C | 濕度 HUMIDITY | % | | |
| 綫組 WINDING | Φ0.5x0.5TSx100L(mm) | | | | |
| 3. 外觀: THE LIMIT OF BREAKAGE: | | | | | |
| | | 項目 Item | 標準值 Standard Value | | |
| | | 一處缺陷的面積 Area of a breakage | ≤ 1mm ² | | |
| | | 總缺陷面積 All area of the breakage | ≤ 2mm ² | | |
| | | 缺陷深度 The depth of the breakage | ≤ 0.4mm | | |
| | | 毛刺長度 The length of burr | ≤ 0.2mm | | |
| 測試條件: TESTING CONDITION: | | | | | |
| 1. 測試儀器: Testing Equipment: | | HP 4191A | 測 試 TESTED | 復 核 CHECKED | 確 認 APPROVED |
| 2. 測試頻率區間: Testing Frequency Range: | | 1-1000MHz | 李光赫 | 方煜留 | 梁琼 |
| 3. 測試綫組: Testing Coil Specification: | | Φ0.5x0.5TSx100L(mm) | | | |

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檢驗數據

INSPECTION DATA

| | | | | | | | | | | | | |
|----------------------------|----------------------------------|---|------------------------|---|--------------------|----------------|---------------------------------|----------------|------|---|---|---|
| 客戶名稱 CUSTOMER | | 日期 DATE | | 2025.05.12 | | 數量 QUANTITY | | 10PCS | | | | |
| 編號 SERIAL NO. | | RH 12×20×6.5 | | 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm):  | | | | | | | | |
| 規格 ITEM | | | | | | | | | | | | |
| 繞組 WINDING | | | | | | | | | | | | |
| 測試頻率 TEST FREQ | | Z1= 25 KHZ 25 MHZ | Z2= 100 KHZ 100 MHZ | Z3= / KHZ / MHZ | Z4= / KHZ / MHZ | | | | | | | |
| 溫度 TEMP | | ℃ | 濕度 HUMIDITY | | % | | | | | | | |
| 項目 TEST ITEM | 電氣性能 ELECTRIC CHARACTERISTICS | | | | | | 尺寸(單位:毫米) DIMENSION(unit:mm) | | | | | |
| | Q | L(μH) (MH) | Z1(Ω) | Z2(Ω) | Z3(Ω) | Z4(Ω) | A | B | C | D | E | F |
| | | | 50 | 100 | | | 12 | 20 | 6.5 | | | |
| + | | | / | / | | | 0.5 | 0.6 | 0.4 | | | |
| - | | | 0 | 0 | | | 0.5 | 0.6 | 0.4 | | | |
| 1 | | | 65.6 | 148.6 | | | 11.89 | 19.96 | 6.59 | | | |
| 2 | | | 65.8 | 148.8 | | | 11.79 | 19.95 | 6.56 | | | |
| 3 | | | 65.2 | 148.2 | | | 11.82 | 19.98 | 6.65 | | | |
| 4 | | | 65.4 | 148.4 | | | 11.84 | 19.99 | 6.60 | | | |
| 5 | | | 66.2 | 149.0 | | | 11.81 | 19.97 | 6.62 | | | |
| 6 | | | 66.0 | 149.6 | | | 11.92 | 20.01 | 6.64 | | | |
| 7 | | | 66.6 | 149.2 | | | 11.88 | 20.03 | 6.63 | | | |
| 8 | | | 66.4 | 149.4 | | | 11.90 | 20.05 | 6.58 | | | |
| 9 | | | 65.2 | 149.6 | | | 11.96 | 20.02 | 6.57 | | | |
| 10 | | | 65.4 | 148.8 | | | 11.94 | 20.05 | 6.59 | | | |
| \bar{X} | | | 65.78 | 148.86 | | | 11.87 | 20.01 | 6.60 | | | |
| Y/N | | | Y | Y | | | Y | Y | Y | | | |
| 測試儀器: TEST INSTRUMENTS: | |  | | 檢驗 INSPECTED | | 復核 CHECKED | | 確認 APPROVED | | | | |
| HP 4191A | | | | 李光赫 | | 方煜镗 | | 梁琼 | | | | |

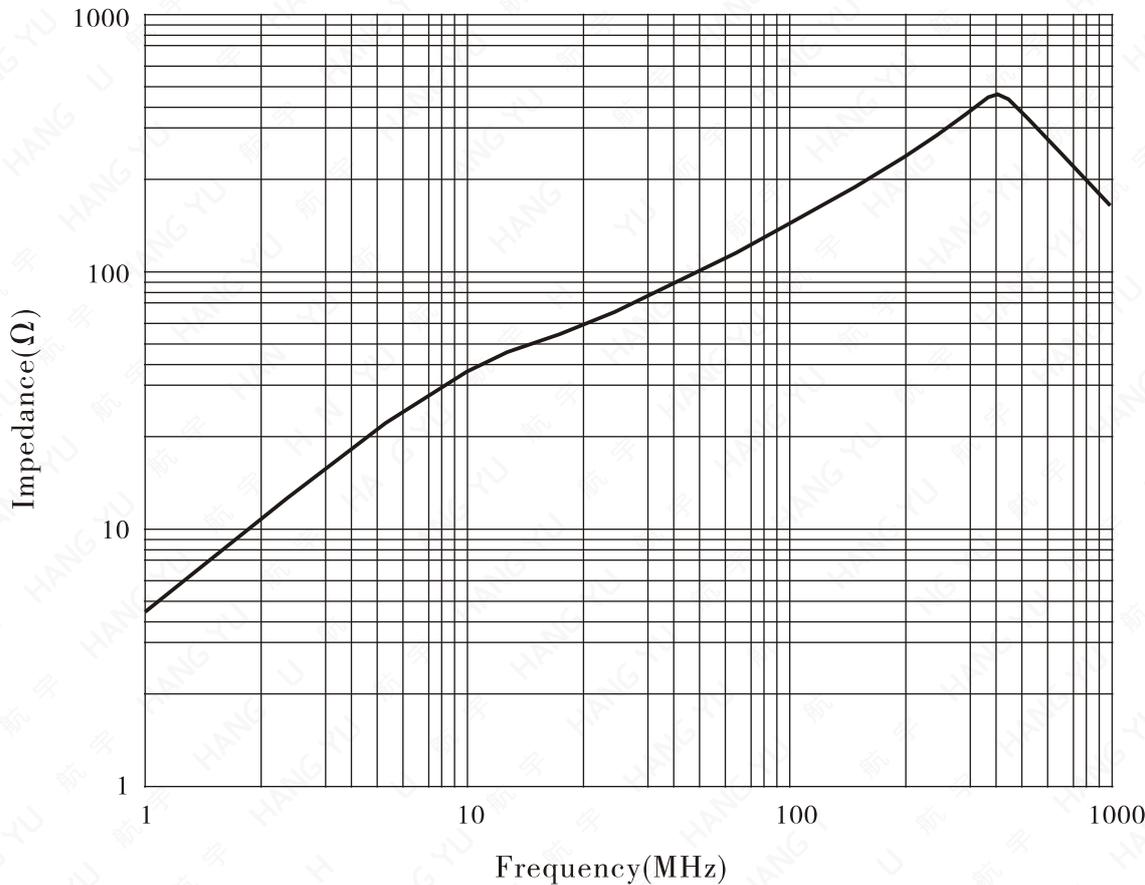
阻抗 - 頻率曲線

IMPEDANCE V.S FREQUENCY (Z-Y)

| | | | |
|------------------|--------------|------------------|------------|
| 客戶名稱 CUSTOMER | | 日期 DATE | 2025.05.12 |
| 規格 ITEM | RH 12×20×6.5 | 編號 SERIAL NO. | |

材質特性 MATERIAL CHARACTERISTICS

| 材料牌號 Material | 初始磁導率 Initial Permeability | 比損耗因子 Relative Loss Factor | 比溫度系數 Relative Temperature Coefficient | 飽和磁通密度 Saturation Magnetic Flux Density | 剩磁 Remanence | 矯頑力 Coercivity | 居裏溫度 Curie Temperature | 電阻率 Electrical Resistivity | 使用範圍 Applied Frequency Range | 密度 Density |
|------------------|-------------------------------|-------------------------------|---|--|-----------------|-------------------|---------------------------|-------------------------------|---------------------------------|---------------|
| Unit | μ_i | $\tan \delta / \mu_i$ | $\alpha \mu_i \gamma$ | Bs | Br | HC | Tc | ρ | F | d |
| symbol | $\pm 20\%$ | $\times 10^{-6}$ | $\times 10^{-6}$ | (MT) | (MT) | (A/m) | (°C) | ($\Omega \cdot m$) | MHz | g/cm^3 |
| | | 20 (0.1MHz) | 2 - 5 | 330(1600A/m) | 150 | 35 | >110 | >10 ⁵ | 0.1-1.5 | 4.9 |



| | | | | | |
|-------|----|----|--------------|---------------|----------------|
| 客戶簽回欄 | 确认 | 审核 | 測試 TESTED | 復核 CHECKED | 確認 APPROVED |
| | | | 李光赫 | 方煜镗 | 梁琼 |

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