



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 T 18×12×10

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 | | |

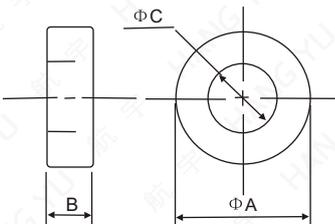
| 承 認 CUSTOMER APPROVE |
|-------------------------|
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深圳市航宇磁电有限公司

承 認 書

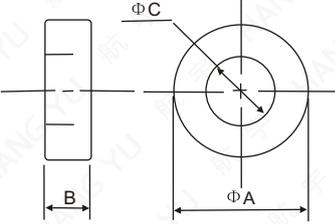
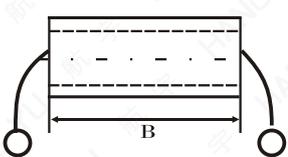
SPECIFICATION FOR APPROVAL

| | | | | | | | | | |
|--|----------------------------------|---|---|--|--|-------------------|------------------------------------|----------------------------------|------------------------|
| 客户名稱 CUSTOMER | | | | 日期 DATE | 2025.05.12 | | | | |
| 規 格 ITEM | T 18 × 12 × 10 | | | 編 號 SERIAL NO. | | | | | |
| 1.1. 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm):  1.2. 實物圖: The Sample:  | | | | A | 18 ± 0.5 mm | | | | |
| | | | | B | 12 ± 0.4 mm | | | | |
| | | | | C | 10 ± 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 | 1. Q-METER: ○ HP 4342A ○ MQ-172 2. L.C.R. METER: ○ HP 4284A 3. IMPEDANCE ANALYZER: ○ HP 4396B ○ HP 4191A ○ HP4192B ○ Agilent 16092A-TESTFIXTURE 4. L-METER: ○ TH 2775B 5. DIGITAL MINI-OHM METER: ○ VP2941A | | | | |
| <input type="checkbox"/> Q | | TEST FREQ | | KHZ MHZ | | | | | |
| <input checked="" type="checkbox"/> Z | Z1= 30Ω MIN | KHZ 25 MHZ | Z2= 80Ω MIN | KHZ 100 MHZ | | | | | |
| | Z3= / | KHZ MHZ | Z4= / | KHZ MHZ | | | | | |
| 溫度 TEMP | ℃ | 濕 度 HUMIDITY | | % | | | | | |
| 綫 組 WINDING | | Φ0.5x0.5TSx100L(mm) | | | | | | | |
| 3. 外觀標準: 依下表對照檢索: THE LIMIT OF BREAKAGE: CHECKED BELOW: | | | | | | | | | |
| OD (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 Defect area (mm ²) | ≦1 | ≦2 | ≦3 | ≦4 | ≦5 | ≦6 | ≦7 | ≦8 | |
| 缺陷个数 Number of defects (≦) | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | |
| 4. 材質特性 MATERIAL CHARACTERISTICS | | | | | | | | | |
| 材料 牌號 Mate- rial | 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 Reman- -ence | 矯頑力 Coercivity | 居裏溫度 Curie Tempera- -ture | 電阻率 Electrical Resistivity | 密度 Density |
| Unit symbol | μ _i ±20% | Tan δ / μ _i ×10 ⁻⁶ | α μ _i γ ×10 ⁻⁶ | B _s (MT) | Br (MT) | HC (A/m) | Tc (°C) | ρ (Ω · m) | d g/cm ³ |
| | | 20 (0.1MHz) | 2-5 | 260(1600A/m) | 150 | 35 | >140 | >10 ⁵ | 4.6 |

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檢驗數據

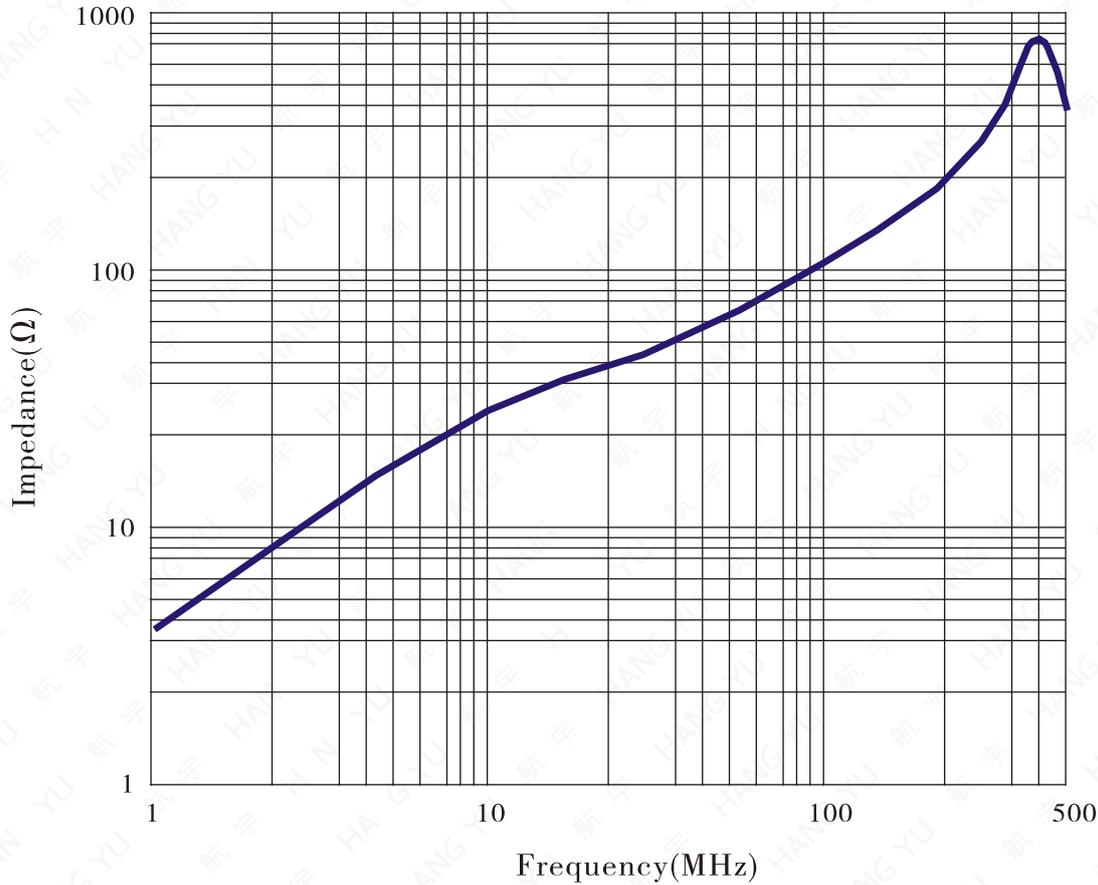
INSPECTION DATA

| | | | | | | | | | | | | |
|--|----------------------------------|----------------|------------|--------|-------|--|---|----------------|---|---------------|----------------|---|
| 客戶名稱 CUSTOMER | | | | | | 日期 DATE | 2025.05.12 | 數量 QUANTITY | 10PCS | | | |
| 編號 SERIAL NO. | | | | | | 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm): | | | 實物圖: The Sample:: | | | |
| 規格 ITEM | T 18 × 12 × 10 | | | | |  | | |  | | | |
| 線組 WINDING | Φ0.5x0.5TSx100L(mm) | | | | | | | | | | | |
| 測試頻率 TEST FREQ | Z1= | 25 | KHZ MHZ | Z2= | 100 | KHZ 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 |
| | | | 30 | 80 | | | 18 | 12 | 10 | | | |
| + | | | / | / | | | 0.5 | 0.4 | 0.4 | | | |
| - | | | 0 | 0 | | | 0.5 | 0.4 | 0.4 | | | |
| 1 | | | 42.2 | 105.2 | | | 17.96 | 12.00 | 9.96 | | | |
| 2 | | | 42.8 | 105.4 | | | 17.98 | 12.02 | 9.93 | | | |
| 3 | | | 42.6 | 104.8 | | | 17.95 | 12.01 | 9.92 | | | |
| 4 | | | 42.4 | 104.6 | | | 17.99 | 12.05 | 9.95 | | | |
| 5 | | | 43.6 | 105.2 | | | 18.03 | 12.00 | 9.96 | | | |
| 6 | | | 43.0 | 104.8 | | | 18.05 | 12.10 | 10.02 | | | |
| 7 | | | 43.8 | 104.4 | | | 18.10 | 12.06 | 10.00 | | | |
| 8 | | | 43.4 | 104.7 | | | 18.02 | 12.09 | 10.01 | | | |
| 9 | | | 43.2 | 105.4 | | | 18.09 | 12.05 | 10.03 | | | |
| 10 | | | 42.6 | 104.6 | | | 18.01 | 12.11 | 10.05 | | | |
| X̄ | | | 42.96 | 104.91 | | | 18.01 | 12.04 | 9.98 | | | |
| Y/N | | | Y | Y | | | Y | Y | Y | | | |
| 測試儀器: TEST INSTRUMENTS: HP 4191A | | | | | | |  | | 檢驗 INSPECTED | 復核 CHECKED | 確認 APPROVED | |
| | | | | | | | 李光赫 | | 方煜镗 | | 梁琼 | |

阻抗 - 頻率曲綫

IMPEDANCE V.S FREQUENCY (Z-Y)

| | | | |
|------------------|------------|------------------|------------|
| 客戶名稱 CUSTOMER | | 日期 DATE | 2025.05.12 |
| 規格 ITEM | T 18×12×10 | 編號 SERIAL NO. | |



測試條件:
TESTING CONDITION:

1. 測試儀器: HP 4191A
Testing Equipment:
2. 測試頻率區間: 1-500MHz
Testing Frequency Range:
3. 測試綫組: $\Phi 0.5 \times 0.5 \text{TS} \times 100 \text{L}(\text{mm})$
Testing Coil Specification:

| | | | | | |
|-------------------|-----|-----|---------------|----------------|-----------------|
| 客戶 簽 回 欄 | 确 認 | 审 核 | 測 試 TESTED | 復 核 CHECKED | 確 認 APPROVED |
| | | | 李光赫 | 方煜镗 | 梁琼 |

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