# 承 認 書

# SPECIFCATION FOR APPROVAL

| | |
|---|---|
| 客户名稱<br>CUSTOMER | |
| 品名規格<br>DESCRIPTION | HY28A3039-0A2 |
| 客户料號<br>CUS. P/N | |
| 提出日期<br>DATE | 2025.05.12 |

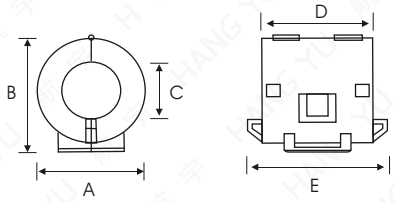
| 出 圖<br>RDAWING | | |
|---|---|---|
| 發 行<br>MADE | 復 核<br>CHECKED | 確 認<br>APPROVED |
| 李光赫 | 方煜镏 | 梁琼 |
| 销售部：张 丽 | | |

| 承 認<br>CUSTOMER APPROVE |
|---|
| |

# 承　認　書
# SPECIFICATION FOR APPROVAL

| 客户名稱 CUSTOMER | | 日　期 DATE | 2025.05.12 |
|---|---|---|---|
| 規　格 ITEM | HY28A3039-0A2 | 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 | 24.0 ± 1.0 mm |
| B | 27.0 ± 1.0 mm |
| C | 10.0 ± 0.8 mm |
| D | 13.5 ± 1.0 mm |
| E | 19.0 ± 1.0 mm |
| F | |
| G | |
| H | |

2. 電氣性能檢測項目:
ELECTRICAL REQUIREMENTS:

| | | | | |
|---|---|---|---|---|
| ☐ L | | | TEST FREQ | KHZ MHZ |
| ☐ Q | | | TEST FREQ | KHZ MHZ |
| ☑ Z | Z1= 30Ω MIN | ~~KHZ~~ 25 MHZ | Z2=70Ω MIN | ~~KHZ~~ 100 MHZ |
| | Z3= | ／ KHZ MHZ | Z4= | ／ KHZ MHZ |
| 温 度 TEMP | ℃ | 濕　度 HUMIDITY | % | |
| 綫 組 WINDING | Φ0.5x0.5TSx100L(mm) | | | |

測試儀器
TEST INSTRUMENTS

1. Q-METER:
   ○HP 4342A　○MQ-172
2. L.C.R. METER:
   ○HP 4284A
3. IMPEDANCE ANALYZER:
   ○HP 4396B　○HP 4191A　∅E4991A
   ∅Agilent 16194A-TESTFIXTURE
4. L-METER:
   ○TH 2817A
5. DIGITAL MINI-OHMMETER:
   ○VP2941A

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 | ≤1mm² |
| 總缺陷面積 All area of the breakage | ≤2mm² |
| 缺陷深度 The depth of the breakage | ≤0.4mm |
| 毛刺長度 The length of burr | ≤0.2mm |

4. 包 裝:
PACKAGING:

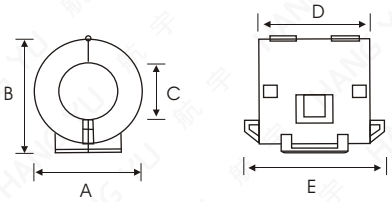
內包裝采用泡塑盒，外包裝采用紙箱，每箱產品外面都蓋上合格章(包括品名、數量、批號、檢驗員)。

Inner packing adopts foam plastics box, outer packing adopts carton and each carton should have a qualified chapter label outside(include the variety, quantity, batch number and inspector).

# 檢 驗 數 據
# INSPECTION DATA

| | | | | | |
|---|---|---|---|---|---|
| 客户名稱 CUSTOMER | | 日 期 DATE | 2025.05.12 | 數 量 QUANTITY | 5PCS |
| 編 號 SERIAL NO . | | | | | |
| 規 格 ITEM | HY28A3039-0A2 | | | | |
| 綫 組 WINDING | Φ0.5x0.5TSx100L(mm) | | | | |
| 測試頻率 TEST FREQ | Z1= ~~KHZ~~ 25 MHZ | Z2= ~~KHZ~~ 100 MHZ | | | |
| | Z3= / KHZ MHZ | Z4= / KHZ MHZ | | | |
| 温 度 TEMP | ℃ | 濕 度 HUMIDITY | % | | |

形狀尺寸(單位/毫米):
SHAPE & DIMENSION(unit/mm):

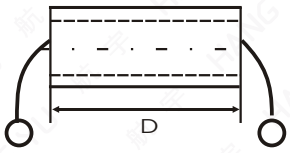



實物圖:
The Sample::

| 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 | 70 | | | 24.0 | 27.0 | 10.0 | 13.5 | 19.0 | |
| + | | | / | / | | | 1.0 | 1.0 | 0.8 | 1.0 | 1.0 | |
| − | | | 0 | 0 | | | 1.0 | 1.0 | 0.8 | 1.0 | 1.0 | |
| 1 | | | 44.1 | 99.5 | | | 24.06 | 27.07 | 10.08 | 13.45 | 19.15 | |
| 2 | | | 44.5 | 99.7 | | | 24.09 | 27.12 | 10.19 | 13.53 | 19.18 | |
| 3 | | | 44.2 | 98.5 | | | 24.05 | 27.11 | 10.12 | 13.50 | 19.22 | |
| 4 | | | 43.9 | 98.7 | | | 24.17 | 27.02 | 10.05 | 13.40 | 19.15 | |
| 5 | | | 43.7 | 98.6 | | | 24.03 | 27.06 | 10.10 | 13.44 | 19.25 | |
| 6 | | | 44.1 | 99.6 | | | 24.16 | 27.13 | 10.13 | 13.30 | 19.14 | |
| 7 | | | 43.8 | 99.4 | | | 24.10 | 27.18 | 10.10 | 13.59 | 19.16 | |
| 8 | | | 43.5 | 99.2 | | | 24.00 | 27.04 | 10.03 | 13.40 | 19.28 | |
| 9 | | | 44.1 | 99.7 | | | 24.13 | 27.09 | 10.09 | 13.50 | 19.26 | |
| 10 | | | 43.8 | 99.5 | | | 24.11 | 27.15 | 10.06 | 13.52 | 19.19 | |
| $\overline{X}$ | | | 44.21 | 99.31 | | | 24.09 | 27.09 | 10.09 | 13.46 | 19.19 | |
| Y/N | | | Y | Y | | | Y | Y | Y | Y | Y | |

測試儀器:
TEST INSTRUMENTS:

E4991A+16194A



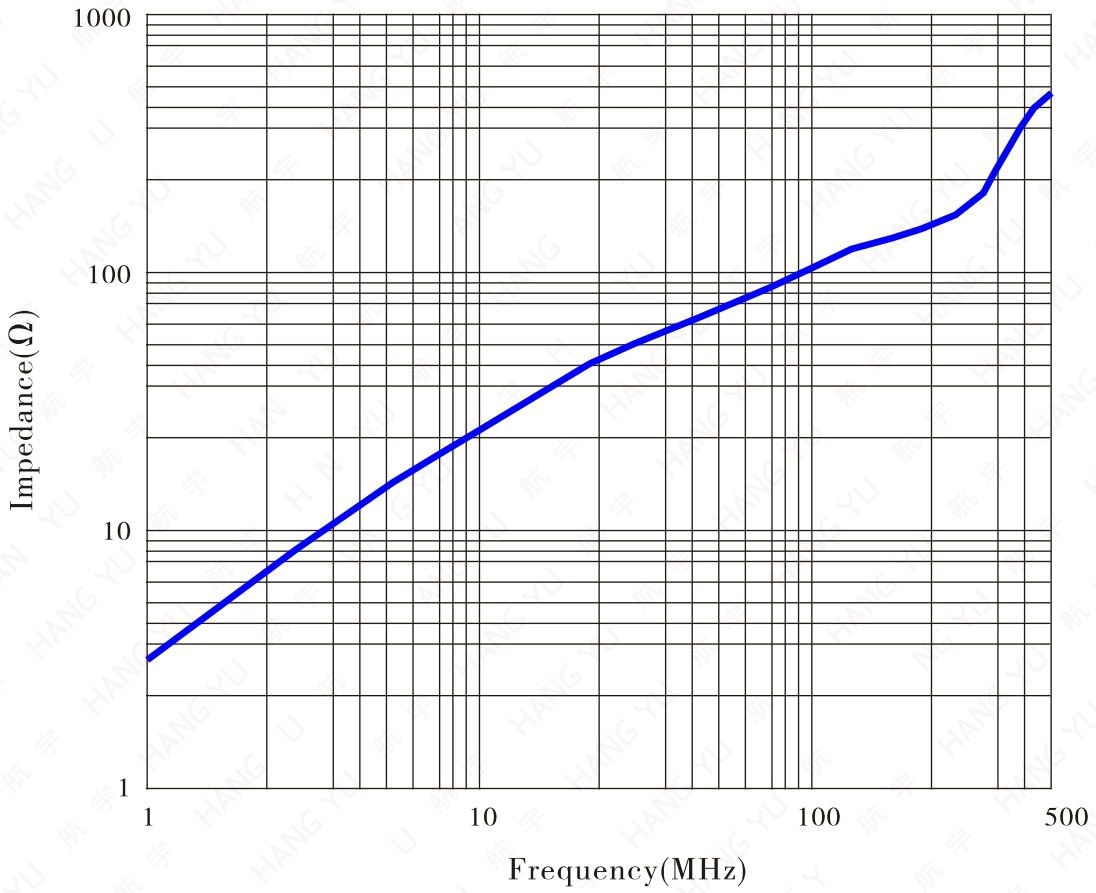

| 檢 驗 INSPECTED | 復 核 CHECKED | 確 認 APPROVED |
|---|---|---|
| 李光赫 | 方煜镏 | 梁琼 |

# 阻抗－頻率曲綫
# IMPEDANCE V.S FREQUENCY (Z-Y)

| 客户名稱 CUSTOMER | | 日 期 DATE | 2025.05.12 |
|---|---|---|---|
| 規 格 ITEM | HY28A3039-0A2 | 編 號 SERIAL NO. | |

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 | $\mu_i$ ±20% | Tan $\delta/\mu_i$ $\times 10^{-6}$ | $\alpha_{\mu_i}$ $\times 10^{-6}$ | Bs (MT) | Br (MT) | HC (A/m) | Tc (℃) | $\rho$ (Ω・m) | d g/cm$^3$ |
| | | 16 (0.1MHz) | 5 - 10 | 280(1600A/m) | 200 | 20 | >130 | >$10^5$ | 4.6 |




測試條件：
TESTING CONDITION:

1. 測試儀器：
   Testing Equipment: E4991A+16194A
2. 測試頻率區間：
   Testing Frequency Range: 1-500MHz
3. 測試綫組：
   Testing Coil Specification: Φ0.5x0.5TSx100L(mm)

| 測 試 TESTED | 復 核 CHECKED | 確 認 APPROVED |
|---|---|---|
| 李光赫 | 方煜镏 | 梁琼 |