

# 承認書

## SPECIFICATION FOR APPROVAL

客户名稱  
CUSTOMER

客户料号  
CUS. P/N

尺寸  
DIMENSION

CRH-22x20x15

編號  
SERIAL NO.

NO. CF1025657173

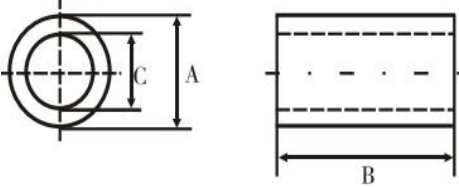
日期  
DATE

2024年5月6日

| 出圖<br>DRAWING  |               |                |
|----------------|---------------|----------------|
| 發行<br>ISSUE    | 復核<br>CHECKED | 核準<br>APPROVAL |
| 趙<br>利勤        | 李<br>新义       | 王<br>传军        |
| DATE: 2024/5/6 |               |                |

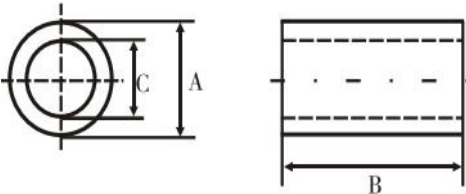
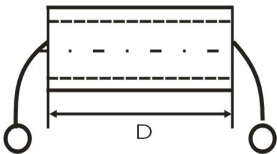
| 承認<br>CUSTOMER APPROVAL |
|-------------------------|
|                         |

承 認 書  
SPECIFICATION FOR APPROVAL

|                                                                                                                                                                                                                                       |                               |                 |                       |                                                                                                                                                |                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| 規 格<br>ITEM                                                                                                                                                                                                                           | CRH-22x20x15                  |                 | 編 號<br>SERIAL NO.     |                                                                                                                                                | NO. CF1025657173 |  |
| 1. 形狀尺寸（單位mm）；<br>SHAPE & DIMENSION(unit/mm);<br><br>                                                                                                |                               |                 | A                     | 22.00 ± 0.8                                                                                                                                    | mm               |  |
|                                                                                                                                                                                                                                       |                               |                 | B                     | 20.00 ± 0.8                                                                                                                                    | mm               |  |
|                                                                                                                                                                                                                                       |                               |                 | C                     | 15.00 ± 0.5                                                                                                                                    | mm               |  |
|                                                                                                                                                                                                                                       |                               |                 | D                     |                                                                                                                                                |                  |  |
|                                                                                                                                                                                                                                       |                               |                 | E                     |                                                                                                                                                |                  |  |
|                                                                                                                                                                                                                                       |                               |                 | F                     |                                                                                                                                                |                  |  |
|                                                                                                                                                                                                                                       |                               |                 | G                     |                                                                                                                                                |                  |  |
| 2. 電器性能檢測項目<br>ELECTTRONICAL REQUIREMENTS;                                                                                                                                                                                            |                               |                 |                       |                                                                                                                                                |                  |  |
| <input type="checkbox"/> L                                                                                                                                                                                                            |                               | TEST<br>FREQ    |                       | 測試儀器<br>TESTING INSTRUMENTS                                                                                                                    |                  |  |
| <input type="checkbox"/> Q                                                                                                                                                                                                            |                               | TEST<br>FREQ    | KHZ<br>MHZ            | 1. Q-METER:<br><input type="checkbox"/> HP-4342A <input type="checkbox"/> MQ-172                                                               |                  |  |
| <input checked="" type="checkbox"/> Z                                                                                                                                                                                                 | Z1=70 Ω MIN    KHZ<br>25MHZ   | Z3=             | KHZ<br>MHZ            | 2. LCR-METER:<br><input type="checkbox"/> TH2826                                                                                               |                  |  |
|                                                                                                                                                                                                                                       | Z2=160 Ω MIN    KHZ<br>100MHZ | Z4=             | KHZ<br>MHZ            | 3. IMPEDANCE ANALYZER:<br><input checked="" type="checkbox"/> HP-4191A <input type="checkbox"/> Agilent 16092A <input type="checkbox"/> TH2826 |                  |  |
| 溫 度<br>TEMP                                                                                                                                                                                                                           | 25±5℃                         | 濕 度<br>HUMIDITY | 60±8%                 | 4. L-METER:<br><input type="checkbox"/> TH-2775B                                                                                               |                  |  |
| 繞 線:<br>WINDING                                                                                                                                                                                                                       | Z: Φ 0.5*100L(mm)*0.5TS       |                 |                       | 5. DIGITAL MINI-OHM METER:<br>VP2941A                                                                                                          |                  |  |
| 3. 外 观<br>THE LIMIT OF BREAKAGE:                                                                                                                                                                                                      |                               |                 |                       |                                                                                                                                                |                  |  |
| 項 目<br>Item                                                                                                                                                                                                                           |                               |                 | 標準值<br>Standard Value |                                                                                                                                                |                  |  |
| 一處缺陷的面积<br>Area of a breakage                                                                                                                                                                                                         |                               |                 | ≤1mm <sup>2</sup>     |                                                                                                                                                |                  |  |
| 总缺陷面积<br>ALL area of the breakage                                                                                                                                                                                                     |                               |                 | ≤2mm <sup>2</sup>     |                                                                                                                                                |                  |  |
| 缺陷深度<br>The depth of the breakge                                                                                                                                                                                                      |                               |                 | ≤0.4mm                |                                                                                                                                                |                  |  |
| 毛刺长度<br>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标签（包括品名、數量、批號、檢驗員）。<br>Inner packing gdopts foam plastics box,outer packing adopts carton and each carton should have a qualified label<br>outside(include the variey,quantity,batch number and inspector). |                               |                 |                       |                                                                                                                                                |                  |  |

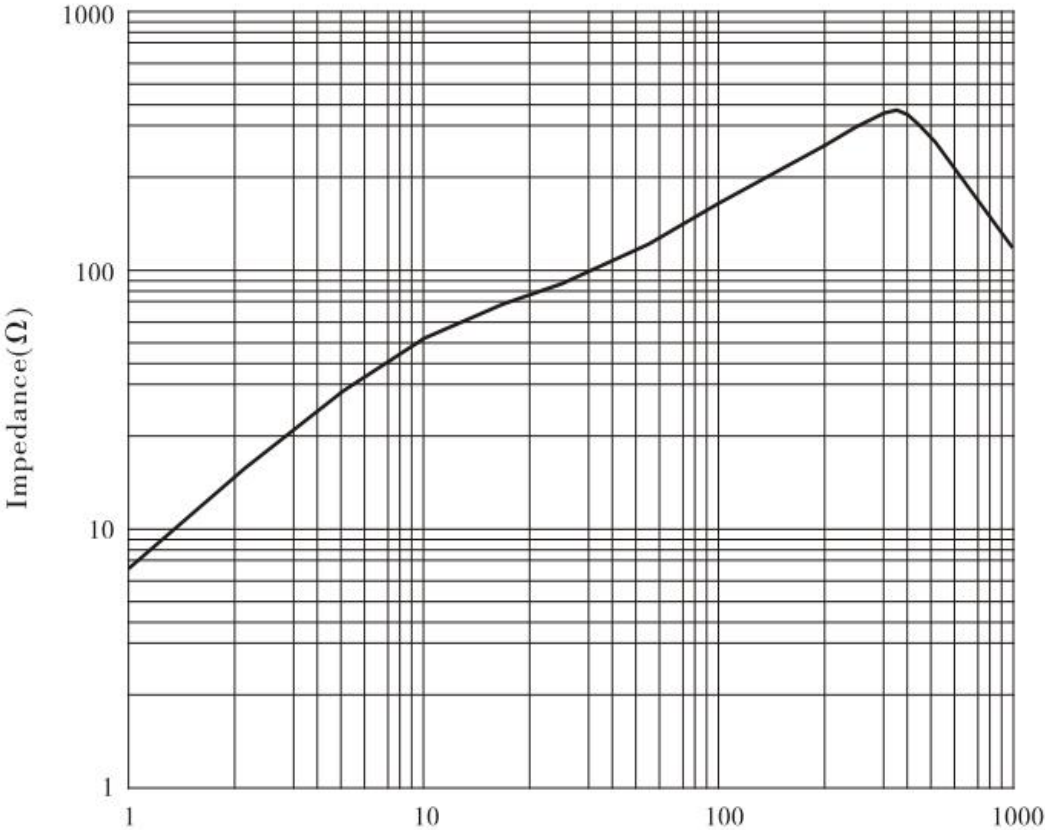
檢 測 數 據

INSPECTION DATA

|                                                                                                                                                               |                                       |              |         |         |         |                                       |                           |                               |       |                       |   |       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------|---------|---------|---------|---------------------------------------|---------------------------|-------------------------------|-------|-----------------------|---|-------|--|
| 規 格<br>ITEM                                                                                                                                                   |                                       | CRH-22x20x15 |         |         |         | 編 號<br>SERIAL NO.                     |                           | NO. CF1025657173              |       |                       |   |       |  |
| <div>1. 形壯尺寸(单位/毫米):<br/>SHAPE &amp; DIMENSION(unit:mm): =</div> <div></div> |                                       |              |         |         |         | <input type="checkbox"/> L            |                           |                               |       |                       |   |       |  |
|                                                                                                                                                               |                                       |              |         |         |         | <input type="checkbox"/> Q            |                           |                               |       | KHZ<br>MHZ            |   |       |  |
|                                                                                                                                                               |                                       |              |         |         |         | <input checked="" type="checkbox"/> Z |                           | Z1=70 Ω MIN    KHZ<br>25MHZ   |       | Z1=        KHZ<br>MHZ |   |       |  |
|                                                                                                                                                               |                                       |              |         |         |         |                                       |                           | Z2=160 Ω MIN    KHZ<br>100MHZ |       | Z4=        KHZ<br>MHZ |   |       |  |
|                                                                                                                                                               |                                       |              |         |         |         | 溫 度<br>TEMP                           |                           | 25±5℃                         |       | 濕 度<br>HUMIDITY       |   | 60±8% |  |
|                                                                                                                                                               |                                       |              |         |         |         | 绕 线:<br>WINDING                       |                           | Z: Φ 0.5*100L(mm)*0.5TS       |       |                       |   |       |  |
|                                                                                                                                                               |                                       |              |         |         |         |                                       |                           |                               |       |                       |   |       |  |
| 項 目<br>ITEM                                                                                                                                                   | 电 气 性 能<br>ELECTRONIC CHARACTERISTICS |              |         |         |         |                                       | 尺 寸<br>DIMENSION(unit:mm) |                               |       |                       |   |       |  |
|                                                                                                                                                               | Q                                     | L( μ H)      | Z1( Ω ) | Z2( Ω ) | Z3( Ω ) | Z4( Ω )                               | A                         | B                             | C     | D                     | E | F     |  |
|                                                                                                                                                               |                                       |              | 70      | 160     |         |                                       | 22                        | 20                            | 15    |                       |   |       |  |
| +                                                                                                                                                             |                                       |              | /       | /       |         |                                       | 0.8                       | 0.8                           | 0.5   |                       |   |       |  |
| —                                                                                                                                                             |                                       |              | 0       | 0       |         |                                       | 0.8                       | 0.8                           | 0.5   |                       |   |       |  |
| 1                                                                                                                                                             |                                       |              | 107.1   | 217.0   |         |                                       | 21.98                     | 20.06                         | 15.03 |                       |   |       |  |
| 2                                                                                                                                                             |                                       |              | 106.0   | 218.6   |         |                                       | 21.91                     | 20.02                         | 15.05 |                       |   |       |  |
| 3                                                                                                                                                             |                                       |              | 106.9   | 218.2   |         |                                       | 22.04                     | 20.08                         | 15.01 |                       |   |       |  |
| 4                                                                                                                                                             |                                       |              | 104.7   | 217.4   |         |                                       | 21.96                     | 20.26                         | 15.08 |                       |   |       |  |
| 5                                                                                                                                                             |                                       |              | 107.2   | 217.9   |         |                                       | 21.91                     | 20.00                         | 14.98 |                       |   |       |  |
| 6                                                                                                                                                             |                                       |              | 104.9   | 216.4   |         |                                       | 22.09                     | 20.28                         | 14.95 |                       |   |       |  |
| 7                                                                                                                                                             |                                       |              | 106.1   | 215.4   |         |                                       | 22.04                     | 20.04                         | 15.08 |                       |   |       |  |
| 8                                                                                                                                                             |                                       |              | 109.2   | 217.5   |         |                                       | 22.09                     | 20.10                         | 15.08 |                       |   |       |  |
| 9                                                                                                                                                             |                                       |              | 108.5   | 224.0   |         |                                       | 22.04                     | 20.14                         | 14.98 |                       |   |       |  |
| 10                                                                                                                                                            |                                       |              | 107.1   | 218.7   |         |                                       | 22.02                     | 20.22                         | 15.00 |                       |   |       |  |
| X                                                                                                                                                             |                                       |              | 106.8   | 218.1   |         |                                       | 22.01                     | 20.12                         | 15.02 |                       |   |       |  |
| Y/N                                                                                                                                                           |                                       |              | Y       | Y       |         |                                       | Y                         | Y                             | Y     |                       |   |       |  |
| <div>2. 測試儀器<br/>TESTING INSTRUMENTS<br/>HP4191A</div> <div></div>         |                                       |              |         |         |         | 檢 測<br>INSPECTION                     |                           | 復 核<br>CHECK                  |       | 确 認<br>APPROVAL       |   |       |  |
|                                                                                                                                                               |                                       |              |         |         |         | <div>赵<br/>利勤</div>                   |                           | <div>李<br/>新义</div>           |       | <div>王<br/>传军</div>   |   |       |  |

阻抗 - 频率曲线

IMPEDANCE V.S.FREQUENCY ( Z-Y )

|                                                                                                                                                                                        |                                           |                                           |                                                 |                                                  |                       |                         |                                   |                                             |                                           |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------|-------------------------|-----------------------------------|---------------------------------------------|-------------------------------------------|------------------------|
| 規 格<br>ITEM                                                                                                                                                                            | CRH-22x20x15                              |                                           |                                                 |                                                  | 編 號<br>SERIAL NO.     | NO. CF1025657173        |                                   |                                             |                                           |                        |
| 材质特性：<br>MATERIAL CHARACTERISTICS                                                                                                                                                      |                                           |                                           |                                                 |                                                  |                       |                         |                                   |                                             |                                           |                        |
| 材料<br>牌号<br>Mate-<br>rial                                                                                                                                                              | 初始磁<br>导率<br>Initial<br>Permeab-<br>ility | 比损耗因子<br>Relative<br>Loss Facto           | 比溫度系数<br>Relative<br>Temperature<br>Coefficient | 饱和磁通密度<br>Saturation<br>Magnetic Flux<br>Density | 剩 磁<br>Reman-<br>ence | 矫顽力<br>Coercivi-<br>t-y | 居里溫度<br>Curie<br>Tempera-<br>ture | 电阻率<br>Electric<br>a-l<br>Resistiv-<br>i-ty | 使用范围<br>Applied<br>Frequenc<br>y<br>Range | 密度<br>Densit<br>y      |
| Unit<br>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> |
| F2                                                                                                                                                                                     | 650                                       | 20(0.1MHz)                                | 2-5                                             | 330(1600A/m)                                     | 150                   | 35                      | >110                              | >10 <sup>5</sup>                            | 0.1-1.5                                   | 5                      |
| <div><div><div>Impedance(<math>\Omega</math>)</div><div></div><div>Frequency(MHz)</div></div></div> |                                           |                                           |                                                 |                                                  |                       |                         |                                   |                                             |                                           |                        |
| 测试条件；<br>TESTING CONDITION;                                                                                                                                                            |                                           |                                           |                                                 |                                                  | 檢 测<br>INSPECTION     | 復 核<br>CHECK            |                                   | 确 認<br>APPROVAL                             |                                           |                        |
| 1. 测试仪器： HP 4191 A<br>Testing Equipment:                                                                                                                                               |                                           |                                           |                                                 |                                                  | <div>赵<br/>利勤</div>   | <div>李<br/>新义</div>     |                                   | <div>王<br/>传军</div>                         |                                           |                        |
| 2. 测试频率区间： 1MHZ-1000MHZ<br>Testing Frequency Range:                                                                                                                                    |                                           |                                           |                                                 |                                                  |                       |                         |                                   |                                             |                                           |                        |
| 3. 测试绕组： $\Phi 0.5 \times 100L(mm) \times 0.5TS$<br>Testing Coil Specification:                                                                                                        |                                           |                                           |                                                 |                                                  |                       |                         |                                   |                                             |                                           |                        |