

# APPROVAL SHEETS

## 承 认 书

**Customer** (客户名称)

**Your Part No.** (客户料号)

**Description** (产品名称) Ferrite Core(抗干扰磁芯)

**Product Name** (产品型号) V18011A

**Our Part No.** (产品编码)

**Our Part No.** (产品料号) 6080029016

**Date** (制作日期) May.23.2025

**Approved by Customer**  
**客 户 承 认**

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|--|--|--|
|  |  |  |
|--|--|--|





# SPECIFICATION

## 2.Physical Dimensions(尺寸图):



| Item(项目) | Dimension(尺寸) | Tolerance(公差范围) | Unit(单位) |
|----------|---------------|-----------------|----------|
| A        | 36.0          | ± 1.0           | mm       |
| B        | 32.0          | ± 1.0           | mm       |
| C        | 11.0          | ± 1.0           | mm       |
| D        | 20.5          | ± 1.0           | mm       |
|          |               |                 |          |
|          |               |                 |          |
|          |               |                 |          |

## 3. Material Characteristics(材质特性):

| 材料<br>Mate-rial | 初始磁导率<br>Initial<br>Permeability | 损耗因子<br>Relative Loss<br>Factor         | 温度系数<br>Relative<br>Temperature<br>Coefficient | 磁饱和密度<br>Saturation<br>Magnetic Flux<br>Density | 剩磁<br>Reman-ence | 矫顽力<br>Coercivity | 居里温度<br>Curie<br>Tempera-ture | 电阻率<br>Electrical<br>Resistivity | 密度<br>Density          |
|-----------------|----------------------------------|-----------------------------------------|------------------------------------------------|-------------------------------------------------|------------------|-------------------|-------------------------------|----------------------------------|------------------------|
| Unit symbol     | $\mu_i$<br>±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>(°C)                    | $\rho$<br>( $\Omega \cdot m$ )   | d<br>g/cm <sup>3</sup> |
| VN09            | 850                              | 16(0.01MHz)                             | 5-10                                           | 280(1600A/m)                                    | 200              | 20                | >130                          | >10 <sup>5</sup>                 | 4.6                    |

## 4. Electrical requirements(电气特性):Z1=50 $\Omega$ Min at 25 MHz Z2=100 $\Omega$ Min at 100 MHz

## 5.The Limit of Breakage(外观标准)

| 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<br>Defect area<br>(mm <sup>2</sup> ) | ≤1  | ≤2     | ≤3      | ≤4      | ≤5      | ≤6      | ≤7      | ≤8   |  |
| 缺陷个数<br>Number of<br>de fects(≤)          | 1   | 2      | 3       | 3       | 3       | 3       | 2       | 2    |  |

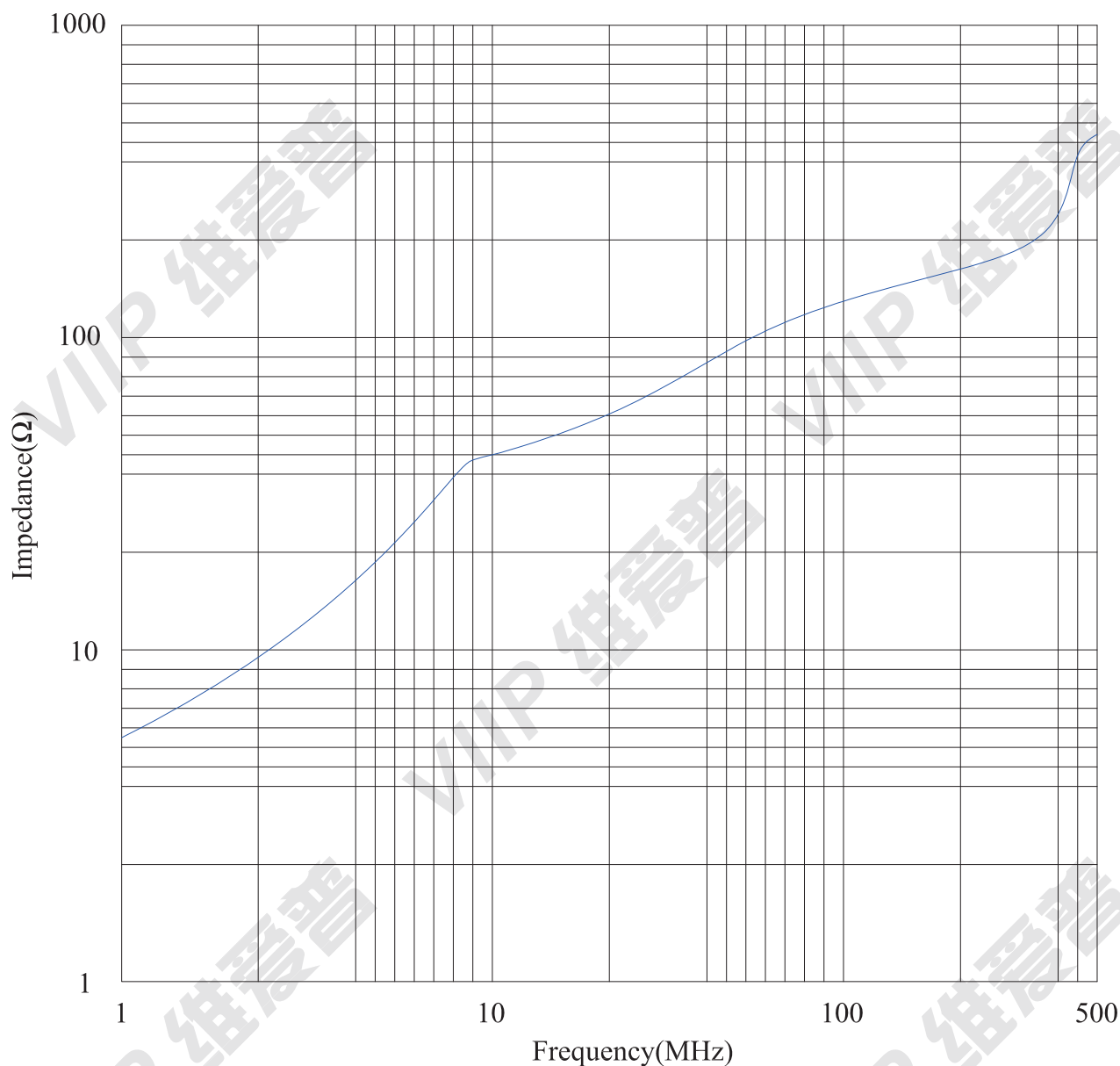
| Drawing By(制图)                    | Checked By(审核)                      | Approved By(核准)                  | Model.(型号) | Unit(单位) | Rev.(版本) |
|-----------------------------------|-------------------------------------|----------------------------------|------------|----------|----------|
| RD&Dept.<br>2025.05.23<br>Li Endi | RD&Dept.<br>2025.05.23<br>Tom Kuang | RD&Dept.<br>2025.05.23<br>Jet Wu | V18011A    | mm       | Rev.4.0  |

Tel : 0755-29170376

http: www.szviip.com



## 阻抗-频率测试曲线 Impedance V.S Frequency(Z-Y)



### 测试条件

- |          |                     |
|----------|---------------------|
| 1.测试仪器   | E4991A              |
| 2.测试频率区间 | 1-500MHz            |
| 3.测试线组   | Ø0.5x0.5TSx100L(mm) |



# SPECIFICATION

 电源滤波器/EMC抗干扰磁芯/EMC设计整改咨询  
 EMI FILTER/FERRITE CORE/EMC DESIGN&DEBUG CONSULTING

## 检验数据

| 型号        | V18011A |       | 绕组     | Ø0.5x0.5TSx100L(mm) |       | 测试频率   | Z1= <div>25</div> <div>KHz</div> <div>MHz</div> |       | Z2= <div>100</div> <div>KHz</div> <div>MHz</div> | Z3= <div></div> <div>KHz</div> <div>MHz</div> | Z4= <div></div> <div>KHz</div> <div>MHz</div> |   |   |
|-----------|---------|-------|--------|---------------------|-------|--------|-------------------------------------------------|-------|--------------------------------------------------|-----------------------------------------------|-----------------------------------------------|---|---|
| 项目        | 电气性能    |       |        |                     |       | 尺寸(mm) |                                                 |       |                                                  |                                               |                                               |   |   |
|           | L(uH)   | Z1(Ω) | Z2(Ω)  | Z3(Ω)               | Z4(Ω) | A      | B                                               | C     | D                                                | E                                             | F                                             | G | H |
|           |         | 50    | 100    |                     |       | 36.0   | 32.0                                            | 11.0  | 20.5                                             |                                               |                                               |   |   |
| +         | /       | /     |        |                     |       | 1.0    | 1.0                                             | 0.8   | 1.0                                              |                                               |                                               |   |   |
| -         | 0       | 0     |        |                     |       | 1.0    | 1.0                                             | 0.8   | 1.0                                              |                                               |                                               |   |   |
| 1         |         | 64.8  | 137.8  |                     |       | 36.06  | 32.10                                           | 11.21 | 20.10                                            |                                               |                                               |   |   |
| 2         |         | 65.0  | 137.0  |                     |       | 36.05  | 32.15                                           | 11.15 | 19.90                                            |                                               |                                               |   |   |
| 3         |         | 64.7  | 136.7  |                     |       | 36.08  | 32.13                                           | 11.23 | 20.05                                            |                                               |                                               |   |   |
| 4         |         | 64.9  | 135.5  |                     |       | 36.06  | 32.16                                           | 11.23 | 20.06                                            |                                               |                                               |   |   |
| 5         |         | 64.7  | 135.7  |                     |       | 36.05  | 32.12                                           | 11.22 | 19.99                                            |                                               |                                               |   |   |
| 6         |         | 64.9  | 138.6  |                     |       | 36.07  | 32.09                                           | 11.23 | 19.96                                            |                                               |                                               |   |   |
| 7         |         | 65.3  | 138.2  |                     |       | 36.05  | 32.14                                           | 11.20 | 20.04                                            |                                               |                                               |   |   |
| 8         |         | 65.4  | 137.6  |                     |       | 36.04  | 32.12                                           | 11.16 | 20.01                                            |                                               |                                               |   |   |
| 9         |         | 64.9  | 135.8  |                     |       | 36.07  | 32.08                                           | 11.21 | 20.07                                            |                                               |                                               |   |   |
| 10        |         | 64.2  | 136.4  |                     |       | 36.06  | 32.07                                           | 11.18 | 19.98                                            |                                               |                                               |   |   |
| $\bar{X}$ |         | 65.98 | 136.93 |                     |       | 36.06  | 32.10                                           | 11.20 | 20.02                                            |                                               |                                               |   |   |
| Y/N       |         | Y     | Y      |                     |       | Y      | Y                                               | Y     | Y                                                |                                               |                                               |   |   |

测试仪器：E4991A

