

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) V18021

Our Part No. (产品编码)

Our Part No. (产品料号) 6080029052

Date (制作日期) May.30.2025

Approved by Customer
客 户 承 认

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1 Amendment History

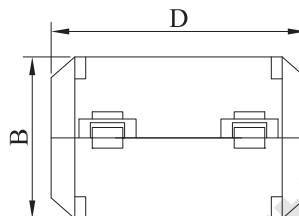
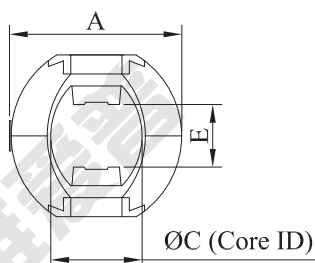
<i>Customer P/N</i>		<i>VIIP P/N</i>	V18021
<i>Part Name</i>	Ferrite Core	<i>Rev .</i>	4.0

<i>Rev.</i>	<i>Description</i>	<i>Effective Date</i>	<i>Page</i>	<i>Approved</i>
4.0	-Initial release	May.30.2025	3-5	Jet
<i>Prepared By</i>		<i>Reviewed By</i>	<i>Approved By</i>	
				



SPECIFICATION

2.Physical Dimensions (尺寸图):



Item(项目)	Dimension(尺寸)	Tolerance(公差范围)	Unit(单位)
A	11.7	±1.0	mm
B	10.8	±1.0	mm
C	4.0	±0.8	mm
D	21.4	±1.0	mm
E	2.6	±1.0	mm

3. Material Characteristics (材质特性):

材料 Mate-rial	初始磁导率 Initial Permeability	损耗因子 Relative Loss Factor	温度系数 Relative Temperature Coefficient	磁饱和和密度 Saturation Magnetic Flux Density	剩磁 Reman-ence	矫顽力 Coercivity	居里温度 Curie Tempera-ture	电阻率 Electrical Resistivity	密度 Density
Unit symbol	μ_i ±20%	$\tan \delta/\mu_i$ $\times 10^{-6}$	$\alpha \mu_i \gamma$ $\times 10^{-6}$	Bs (MT)	Br (MT)	HC (A/m)	Tc (°C)	ρ (Ω.m)	d g/cm ³
VN09	850	16(0.1MHz)	5-10	280(1600A/m)	200	20	>130	>10 ⁻⁵	4.6

4. Electrical requirements (电气特性): Z1=55 Ω Min at 25 MHz Z2=115 Ω Min at 100 MHz

5.The Limit of Breakage(外观标准)

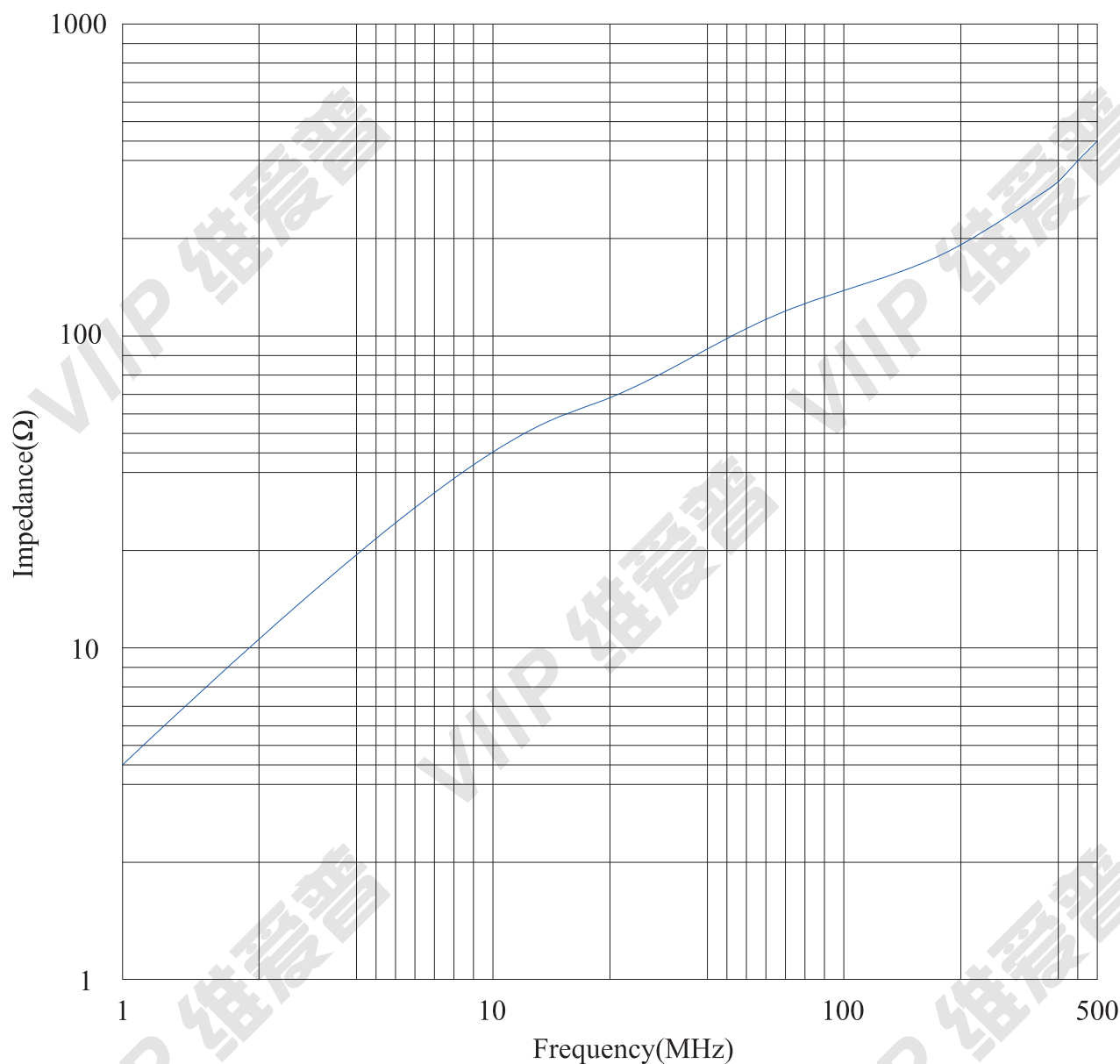
OD(mm)	0~5	5.1~10	10.1~15	15.1~20	20.1~25	25.1~30	30.1~35	35以上	
缺陷面积 Defect area (mm ²)	≤1	≤2	≤3	≤4	≤5	≤6	≤7	≤8	
缺陷个数 Number of de fects(≤)	1	2	3	3	3	3	2	2	

Drawing By(制图)	Checked By(审核)	Approved By(核准)	Model.(型号)	Unit(单位)	Rev.(版本)
RD&Dept. 2025.05.30 Li Endi	RD&Dept. 2025.05.30 Tom Kuang	RD&Dept. 2025.05.30 Jet Wu	V18021	mm	Rev.4.0



阻抗-频率测试曲线

Impedance V.S Frequency(Z-Y)



测试条件

- | | |
|----------|---------------------|
| 1.测试仪器 | E4991A + 16194A |
| 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	V18021		绕组	Ø0.5x0.5TSx100L(mm)		测试频率	Z1= 25 KHz MHz		Z2= 100 KHz MHz	Z3= KHz MHz	Z4= KHz MHz	KHz MHz	
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
		55	115			11.7	10.8	4.0	21.4	2.6			
+	/	/			1.0	1.0	0.8	1.0	1.0				
-	0	0			1.0	1.0	0.8	1.0	1.0				
1		70.3	143.8			11.66	10.93	4.12	21.48	2.70			
2		75.1	150.0			11.73	10.92	4.09	21.39	2.80			
3		73.9	150.3			11.69	10.85	4.08	21.45	2.60			
4		68.9	144.5			11.68	10.86	4.11	21.48	2.85			
5		72.2	148.4			11.75	10.88	4.12	21.36	2.72			
6		69.2	147.3			11.72	10.82	4.10	21.38	2.78			
7		74.0	146.0			11.77	10.92	4.13	21.40	2.83			
8		74.2	149.4			11.64	10.96	4.15	21.55	2.67			
9		70.5	146.8			11.76	10.98	4.14	21.52	2.69			
10		75.7	145.2			11.71	10.92	4.12	21.49	2.71			
$\bar{X}$		72.40	147.16			11.71	10.90	4.11	21.45	2.73			
Y/N		Y	Y			Y	Y	Y	Y	Y			

测试仪器: E4991A + 16194A

