

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) V18031

Our Part No. (产品编码)

Our Part No. (产品料号) 6080029054

Date (制作日期) Jun.3.2025

Approved by Customer
客 户 承 认

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1 Amendment History

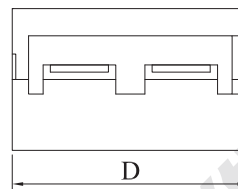
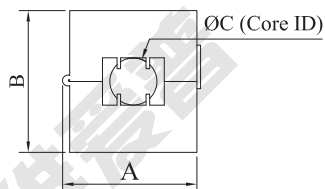
Custromer P/N		VIIP P/N	V18031	
Part Name	Ferrite Core	Rev .	4.0	
Rev.	Description	Effective Date	Page	Approved
4.0	-Initial release	Jun.3.2025	3-5	Jet
Prepared By	Reviewed By		Approved By	
RD&Dept. 2025.06.03 Li Endi	RD&Dept. 2025.06.03 Tom Kuang		RD&Dept. 2025.06.03 Jet Wu	



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

2.Physical Dimensions(尺寸图):



Item(项目)	Dimension(尺寸)	Tolerance(公差范围)	Unit(单位)
A	15.0	±1.0	mm
B	14.0	±1.0	mm
C	5.0	±1.0	mm
D	23.0	±1.0	mm
			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 ($\Omega \cdot m$)	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=60 Ω Min at 25 MHz Z2=130 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	

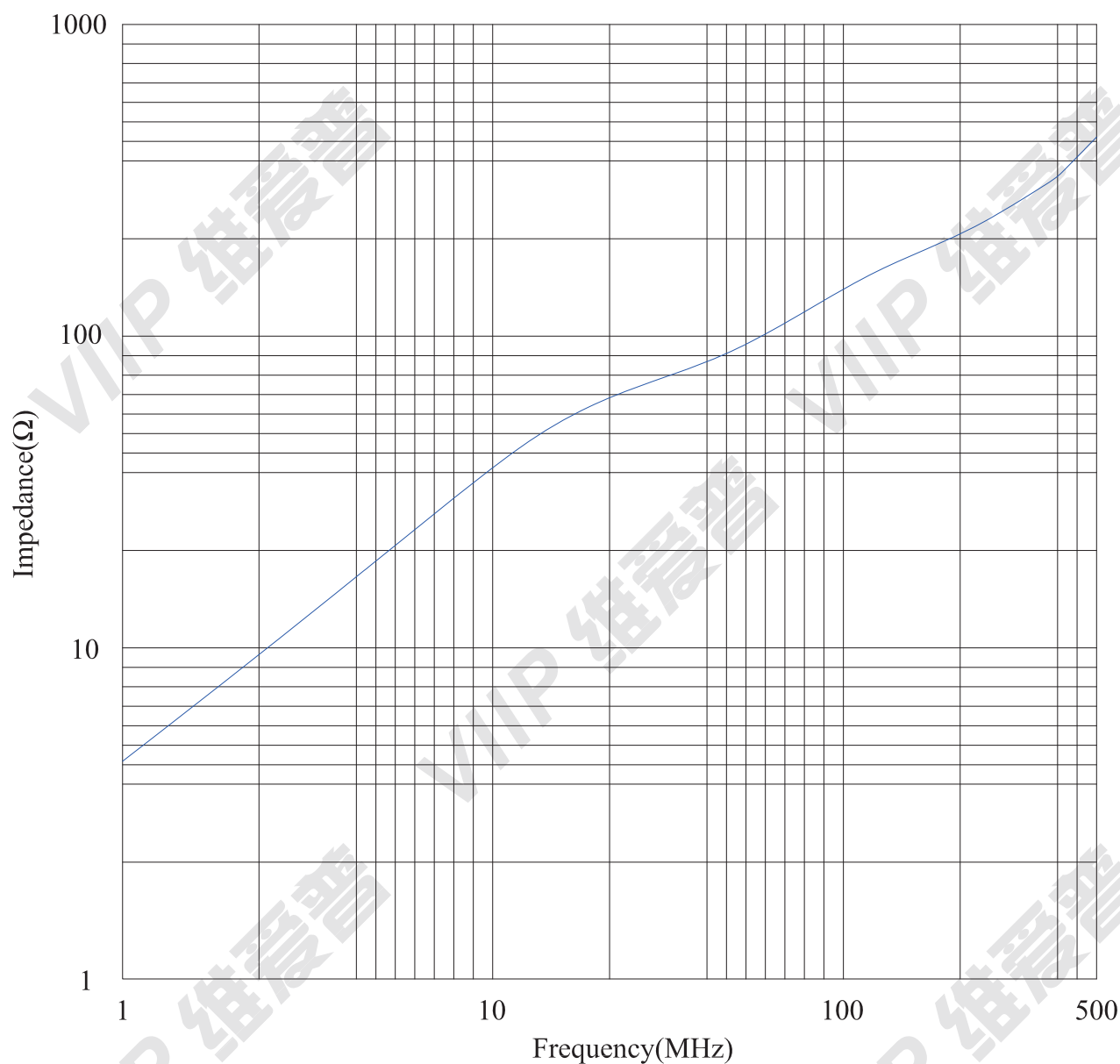
Drawing By(制图)	Checked By(审核)	Approved By(核准)	Model.(型号)	Unit(单位)	Rev.(版本)
			V18031	mm	Rev.4.0

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 + 16194A |
| 2.测试频率区间 | 1-500MHz |
| 3.测试线组 | Ø0.5x0.5TSx100L(mm) |



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 EMI FILTER/FERRITE CORE/EMC DESIGN&DEBUG CONSULTING

检验数据

型号	V18031	绕组	Ø0.5x0.5TSx100L(mm)	测试频率	Z1= 25 KHz MHz	Z2= 100 KHz MHz	Z3= KHz MHz	Z4= 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
		60	130			15.0	14.0	5.0	23.0				
+	/	/			1.0	1.0	1.0	1.0					
-	0	0			1.0	1.0	1.0	1.0					
1		74.2	153.8			15.02	13.75	5.12	23.02				
2		74.4	154.0			15.02	13.80	5.20	23.00				
3		73.8	152.8			15.03	13.84	5.15	23.05				
4		74.1	154.4			15.05	13.75	5.16	23.06				
5		73.3	152.6			15.08	13.76	5.13	23.02				
6		72.8	153.8			15.05	13.78	5.10	23.00				
7		72.2	153.4			15.01	13.83	5.14	23.07				
8		73.7	154.2			15.08	13.72	5.17	23.04				
9		73.6	153.6			15.06	13.77	5.23	23.05				
10		74.0	152.4			15.07	13.79	5.18	23.01				
$\bar{X}$		73.61	153.50			15.08	13.77	5.15	23.03				
Y/N	Y	Y			Y	Y	Y	Y					

测试仪器: E4991A + 16194A

