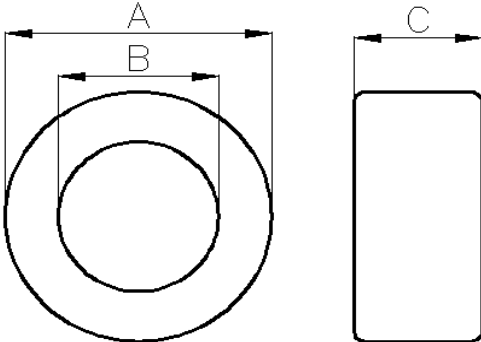


Ferrite Core Specification

Technology Dept.

NCD P/N	HP2 H117/80/23C		Customer		Spec No.			
Cus. part			Customer's P/N		Rev.No.	00	Page	1/1
					Dimensions (mm)			
					A	117.0±2.5		
						(120.3max)		
					B	80.0±2.0		
						(77.2min)		
					C	23.0±1.0		
						(24.8max)		
					smear colour	green		
					Dimensions after coating			
Parameter	I _e = 302 mm		A _e = 419 mm ²		V _e = 126500 mm ³		m≈ 632 g/pcs	
Electric Charateristics	Item	Unit	Spec.		Test Condition		Instrument	
	A _L	nH/N ²	10500±25%		10kHz,0.1V,10Ts,23±3℃		HP4284A or eq.	
	Voltage resistance		2000VDC		Leak inductance 1mA,60s		MS2670 or eq.	
Appearance	Item		Content					
	Clean		Appearance must be clean.No powder accretes and watermark					
	Burr		Any blighting burr was not allow existed.					
	Crack		No crack and scar affect using					
	Chips		dia.≤6.0mm ² ,2part max.					
	Coating		There shall be no peeling coating					
Marking	(No Marking)							
Packing		Material	Quantity	Unit	Marks			Label
	Inner	H117 Styrofoam	4	Pcs				
	Outer	N400*300*300	28	Pcs				
Test Rule	According to GB2828. Once natural project for sampling.(II)Dimensions:AQL=1.0Capability:AQL=0.65							
Customer Affirm	Customer Affirm					Design	Check	Appr.
						Date	2023-12-14	



MAANSHAN NEW CONDA MAGNETIC INDUSTRIAL CO.,LTD.



材料特性 MATERIAL CHARACTERISTICS

● HP2型高磁导率铁氧体材料 High permeability ferrite material HP2

特性 Characteristics	符号 Symbol	单位 Unit	条件 Condition	HP2
起始磁导率 Initial permeability	μ_i			7000±25%
相对损耗因数 Relative loss factor	$\tan\delta/\mu_i$		10kHz	$<7\times10^{-6}$
饱和磁通密度* Saturation flux density*	Bs	mT	1194A/m	400
剩磁* Remanence*	Br	mT		100
矫顽力* Coercivity*	Hc	A/m		6
相对温度系数 Relative temp. coefficient	α_{μ_r}	1/K	25~70℃	$(-0.5\sim1.8)\times10^{-6}$
材料磁滞常数 Hysteresis material	η_B	1/mT	1.5~3mT	$<1.0\times10^{-6}$
居里温度 Curie temperature	Tc	℃		>125
电阻率* Resistivity*	ρ	$\Omega\cdot m$		0.5
密度* Density*	d	kg/m ³		4.95×10^3

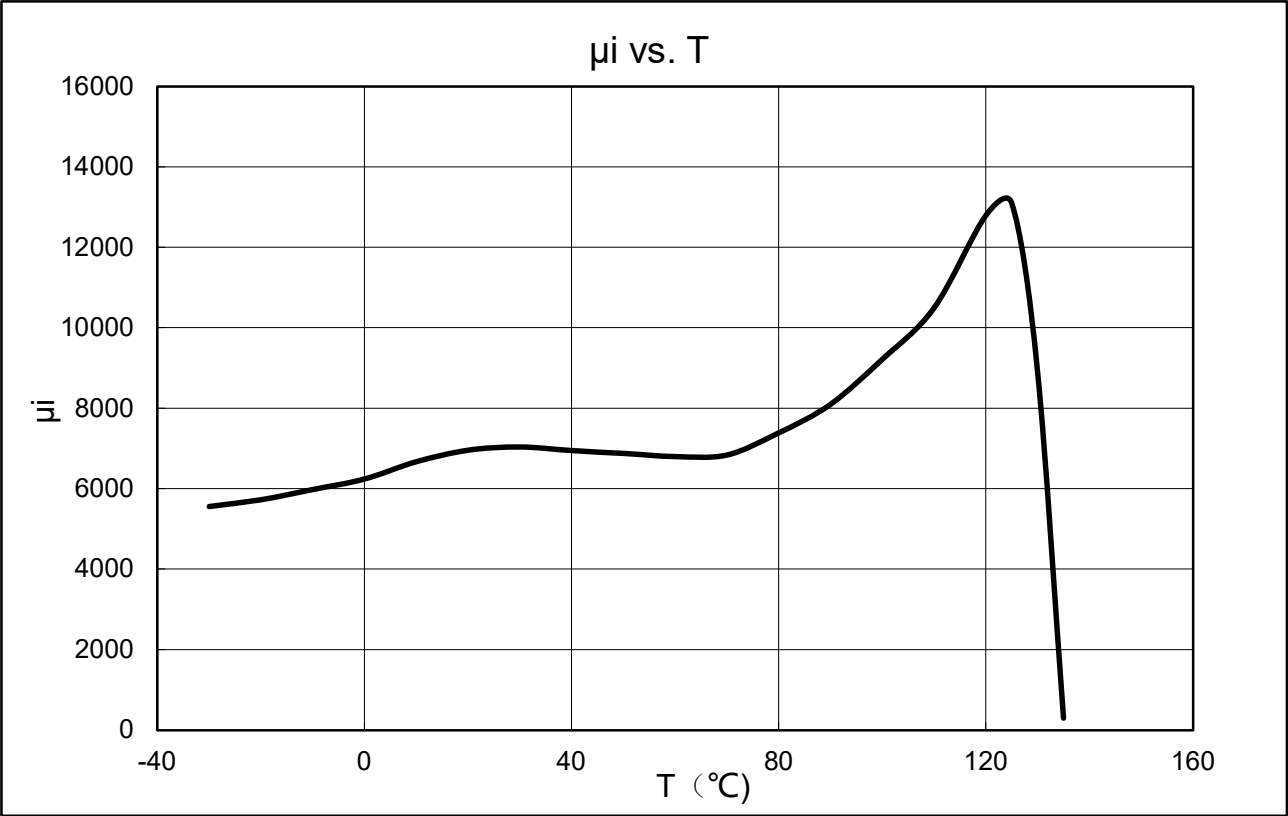
注： 1、如无说明，各项数值均在室温下用 $\Phi 25\times\Phi 15\times 10$ 环型磁心测得。

2、*为典型值。

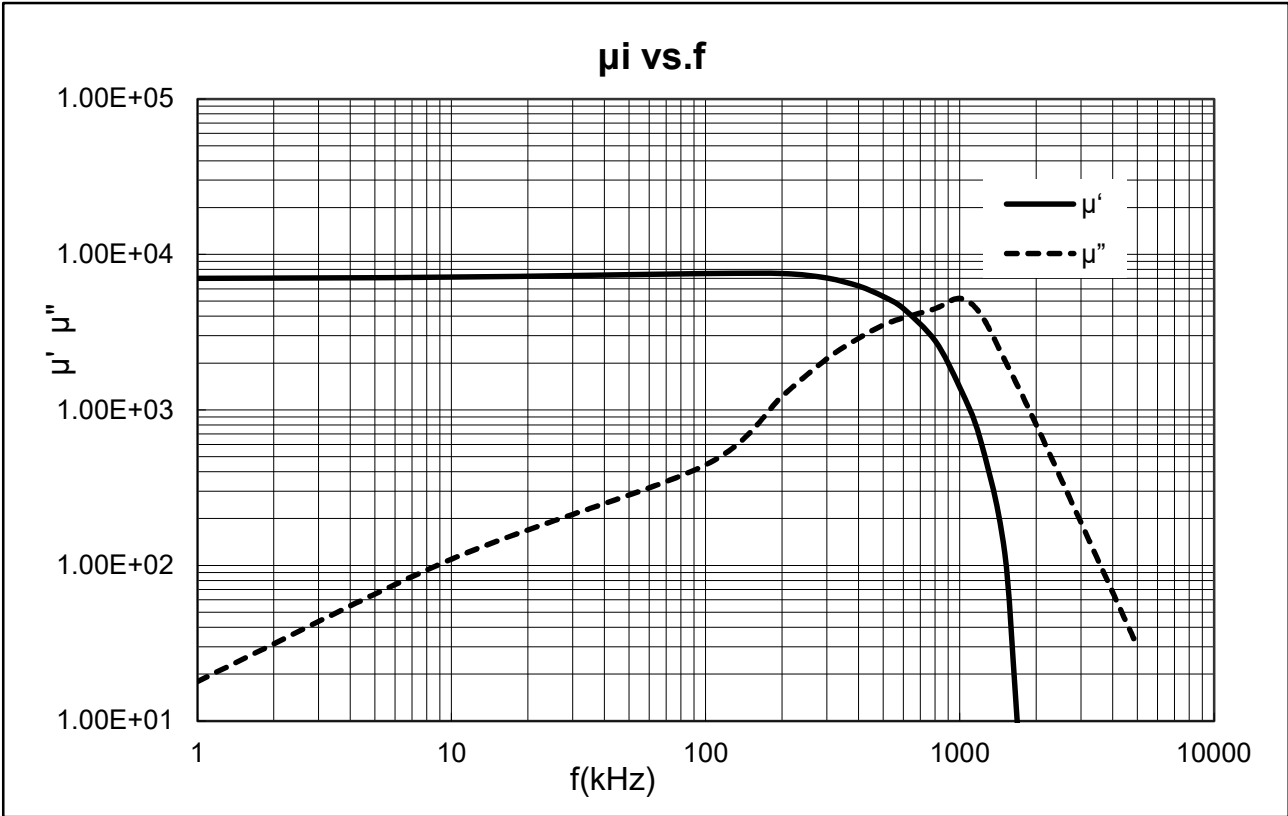
Note: 1.The values were obtained with toroidal core $\Phi 25\times\Phi 15\times 10$ at room temperature unless otherwise specified.

2. * Typical value.

初始磁导率与温度关系
Permeability μ_i vs. Temperature T

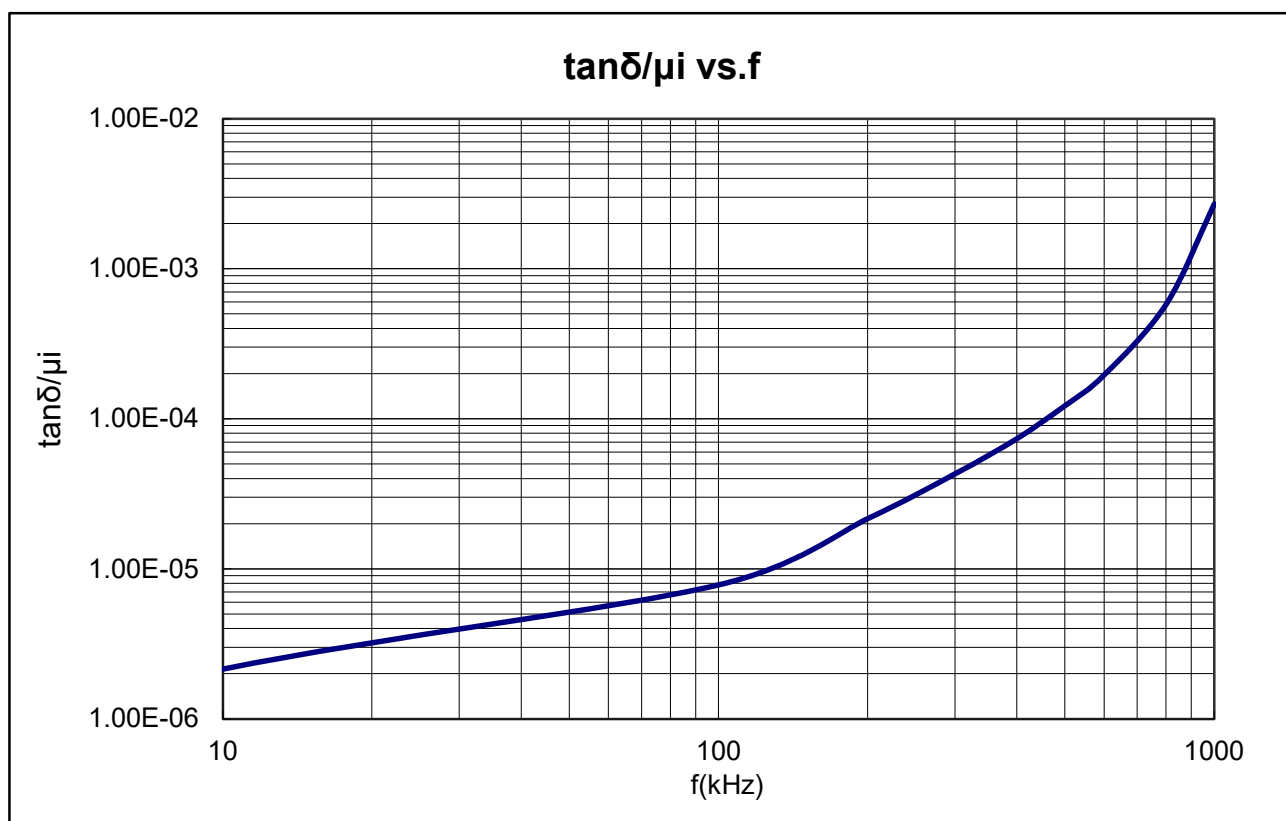


复数磁导率与频率关系
Complex Permeability μ' μ'' vs. Frequency F



相对损耗因数于频率关系

Relative loss factor $\tan\delta/\mu$ vs.frequency f



等效阻抗与频率关系

Equivalent impedance Z^*C1/N^2 vs. Frequency f

