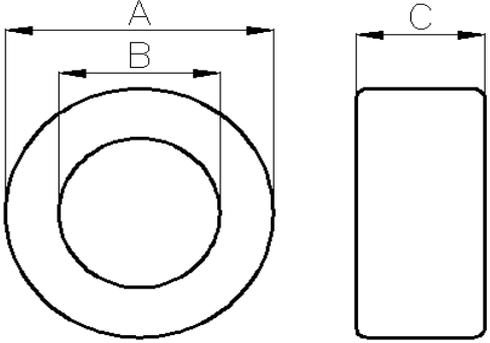


Ferrite Core Specification

Technology Dept.

NCD P/N	HP2 H152/104/19C		Customer		Spec No.					
Cus. part			Customer's P/N		Rev.No.	00	Page	1/1		
					Dimensions (mm)					
					A	152.0±5.0				
						(157.8max)				
					B	104.0±3.6				
						(99.6min)				
					C	19.0±0.5				
(20.3max)										
smear colour					green					
					Dimensions after coating					
Parameter	l _e = 393 mm		A _e =451.5 mm ²	V _e =177651 mm ³	m≈ 890 g/pcs					
Electric Charateristics	Item	Unit	Spec.	Test Condition	Instrument					
	A _L	nH/N ²	9400±30%	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	EE85 Styrofoam	2	Pcs						
	Outer	N385*255*250	12	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.

● 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	$<7 \times 10^{-6}$
饱和磁通密度* Saturation flux density*	B_s	mT	1194A/m	400
剩磁* Remanence*	B_r	mT		100
矫顽力* Coercivity*	H_c	A/m		6
相对温度系数 Relative temp. coefficient	α_{μ_r}	1/K	25~70℃	$(-0.5 \sim 1.8) \times 10^{-6}$
材料磁滞常数 Hysteresis material	η_B	1/mT	1.5~3mT	$<1.0 \times 10^{-6}$
居里温度 Curie temperature	T_c	℃		>125
电阻率* Resistivity*	ρ	$\Omega \cdot m$		0.5
密度* Density*	d	kg/m^3		4.95×10^3

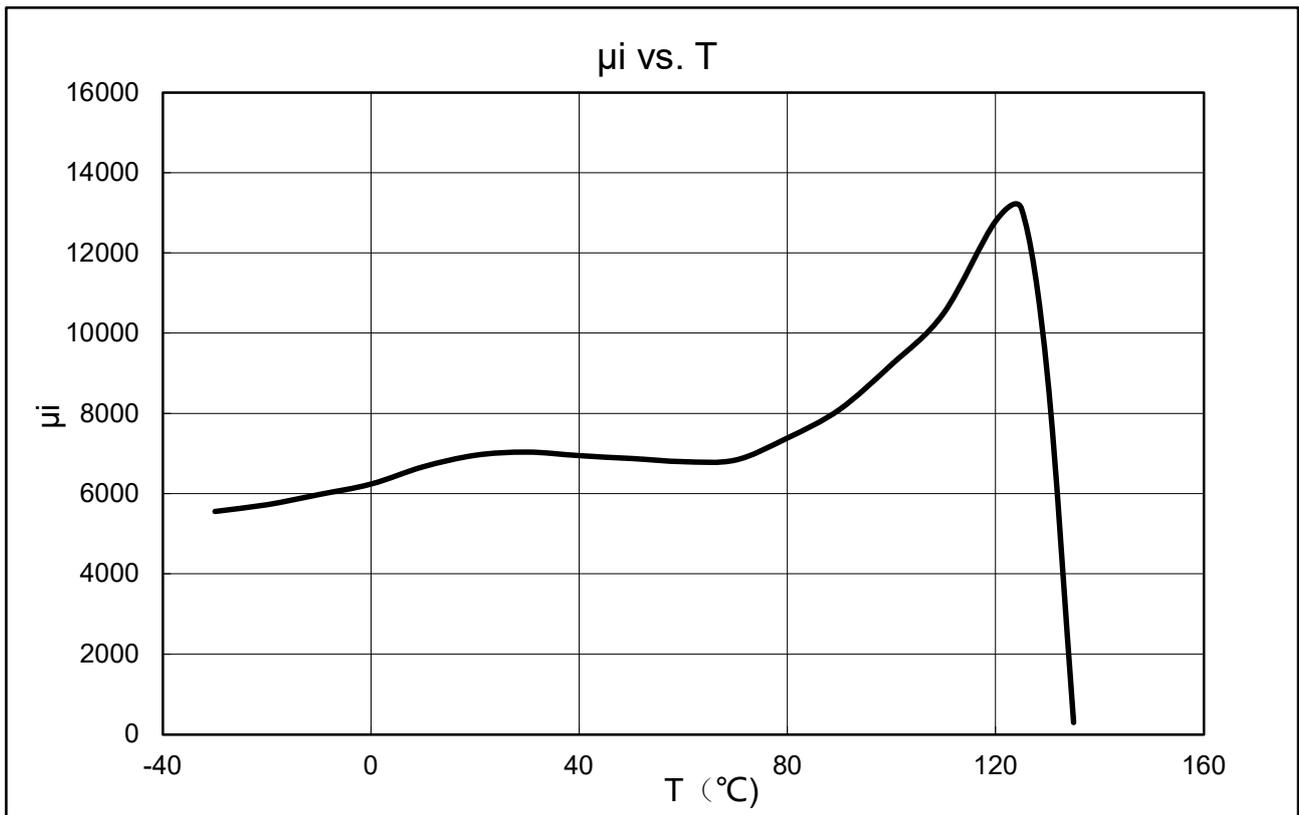
注： 1、如无说明，各项数值均在室温下用 $\Phi 25 \times \Phi 15 \times 10$ 环型磁心测得。

2、*为典型值。

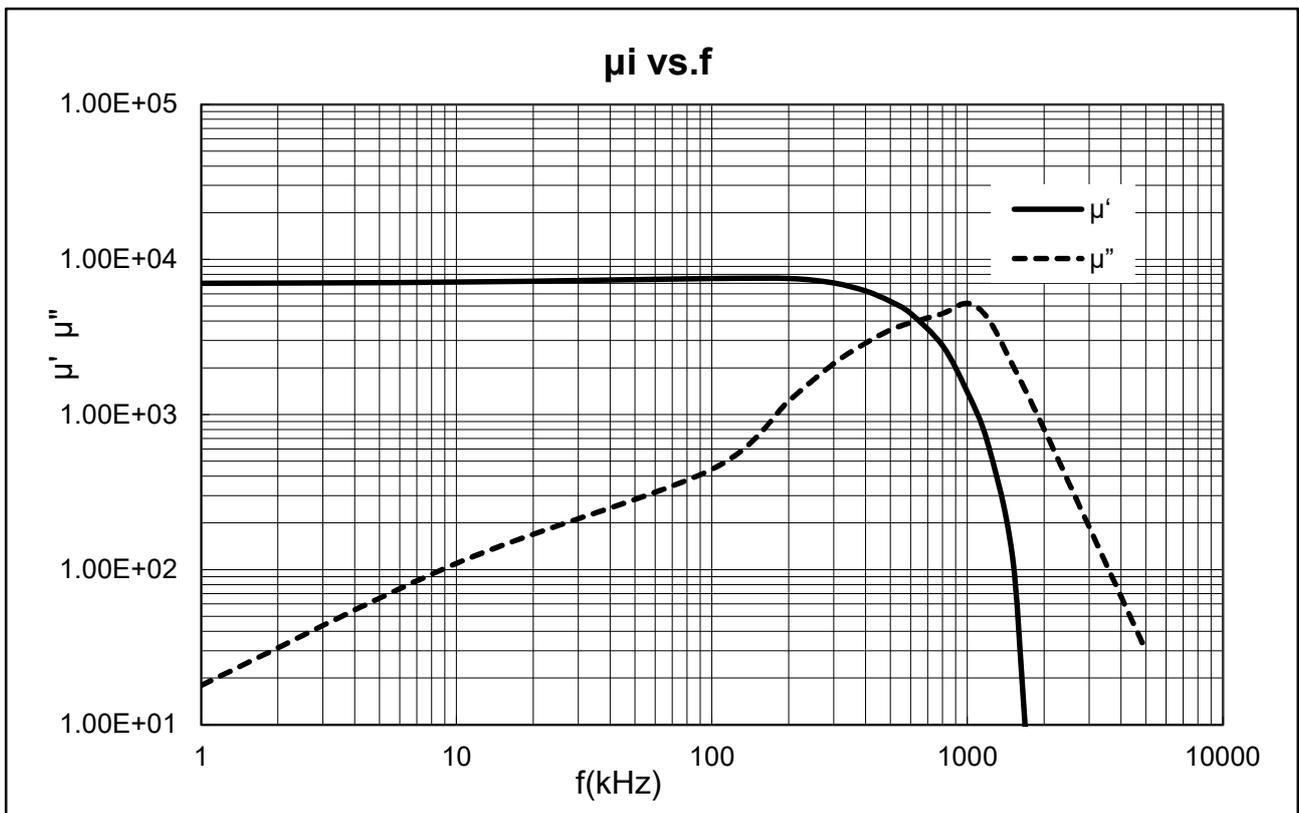
Note: 1.The values were obtained with toroidal core $\Phi 25 \times \Phi 15 \times 10$ at room temperature unless otherwise specified.

2. * Typical value.

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

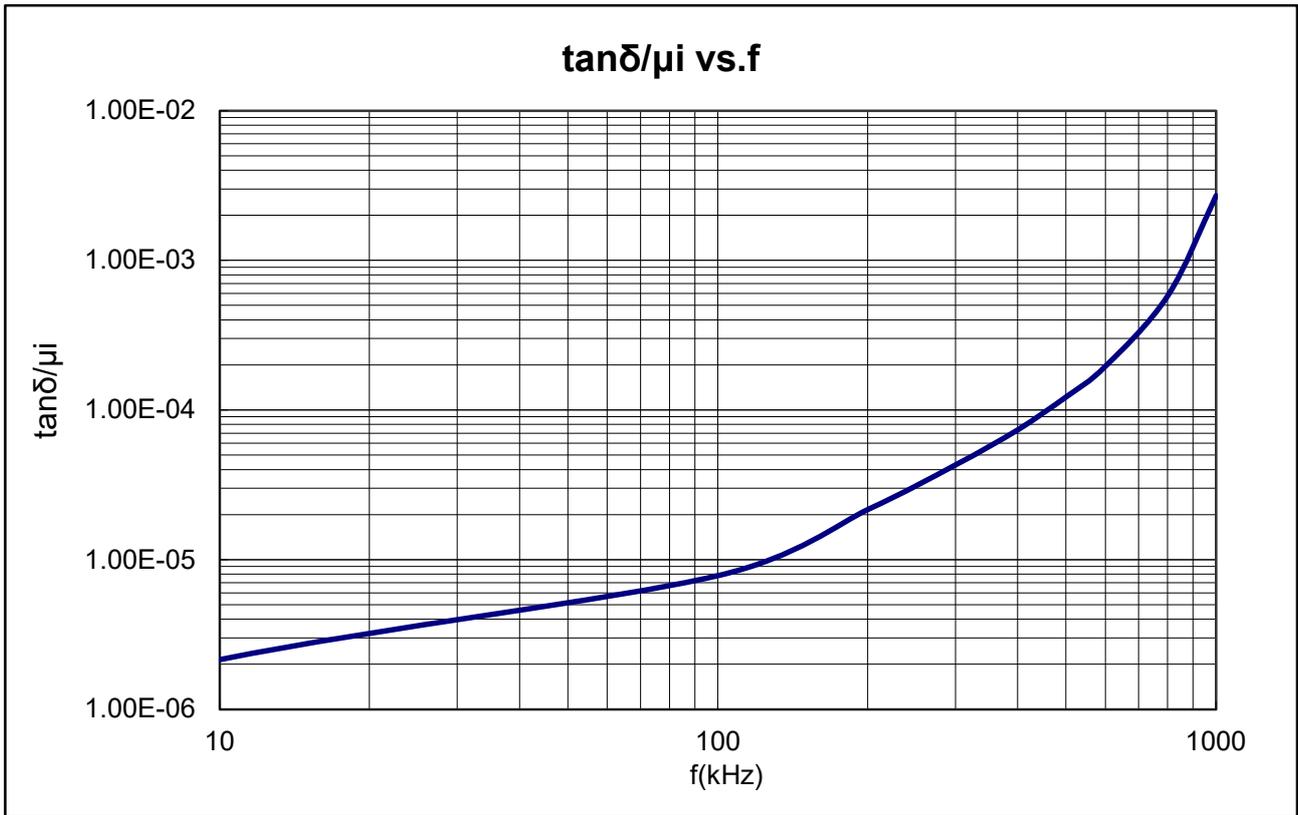


复数磁导率与频率关系
Complex Permeability μ' μ'' vs. Frequency F



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 $Z \cdot C1/N^2$ vs. Frequency f

