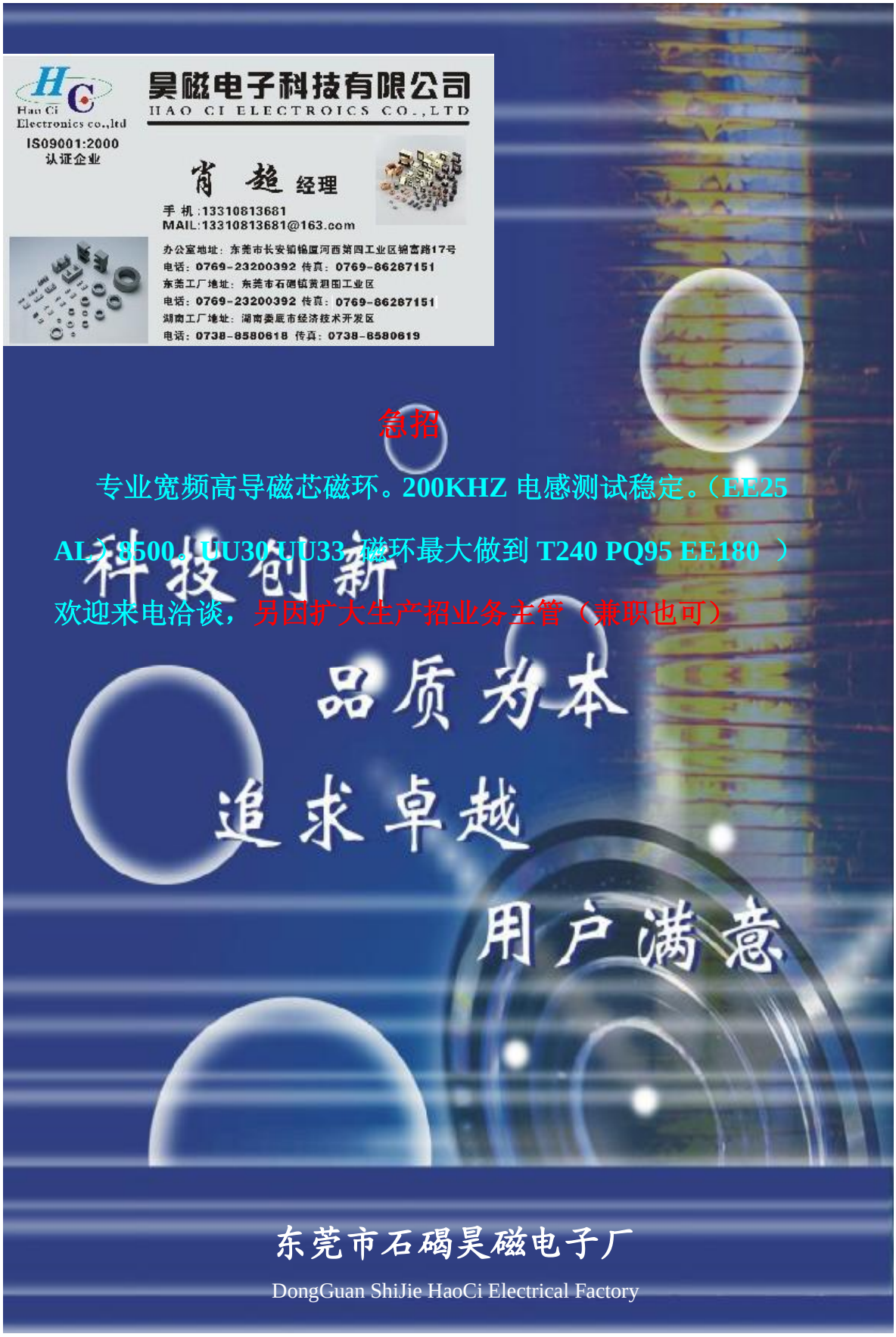

目录 CONTENTS

东莞市石碣昊磁电子厂 Hao Ci Electronics co.,ltd TEL：0769-23200392 FAX0769-86287151 13310813681 肖生

昊磁电子公司简介

本公司是一家集高性能软磁铁氧体跟磁性元件（变压器，电感）的生产、研发、信息服务一体的高新科技公司.

2000 年，磁芯生产基地在湖南娄底经济开发区成立。 公司实雄厚，拥有先进的软磁系列产品的生产及检测设备。

2003 年，磁性元件事业处成立，人数 350 人。专业生产高频变压器。电感等电子元件。

2004 年。应对珠三角电源客户。东莞成立昊磁电子厂。专业工程师 15 人，员工人数 100 人。

磁芯烧结车间

钟罩炉工段

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1. 初始磁导率 μ_i

初始磁导率是磁性材料的磁导率 (B/H)在磁化曲线始端的极限值，即

$$\mu i = \frac{1}{\mu_0} \lim_{H \to 0} \frac{B}{H}$$

式中 μ_0 为真空磁导率($4\pi \times 10^{-7}$ H/m)

H 为磁场强度(A/m)

B 为磁通密度(T)

2. 有效磁导率 μ_e

在闭合磁路中，如果漏磁可忽略，可以用有效磁导率来表征磁芯的性能。

$$\mu e = \frac{L}{\mu_0 N^2} \bullet \frac{le}{Ae}$$

式中 L 为装有磁芯的线圈的电感量(H)

N 为线圈匝数

Le 为有效磁路长度(m)

Ae 为有效截面积 (m^2)

3. 饱和磁通密度 Bs (T)

磁化到饱和状态的磁通密度。见图 1。

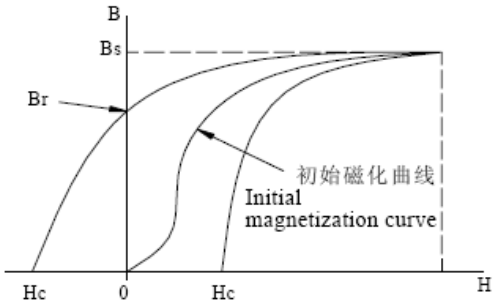

图 1（Fig 1）

4. 剩余磁通密度 Br (T)

从饱和状态去除磁场后，剩余的磁通密度。见图 1。

1. Initial permeability, μ_i

The initial permeability μ_i is the limit value at the initial magnetization curve's origin point and is given by the following formula:

$$\mu i = \frac{1}{\mu_0} \lim_{H \to 0} \frac{B}{H}$$

Where

μ_0: Permeability of vacuum ($4\pi \times 10^{-7}$ H / m)

H: Magnetic field strength (A / m)

B: Magnetic flux density (T)

2. Effective permeability, μ_e

This is usually defined as the permeability of a core forming a closed circuit where leakage flux is negligibly small.

$$\mu e = \frac{L}{\mu_0 N^2} \bullet \frac{le}{Ae}$$

Where

L: self-inductance of core with coil (H)

N: number of turns

Le: effective magnetic path length (m)

Ae: effective cross-sectional area (m^2)

3. Saturation magnetic flux density, Bs (T)

The magnetic flux density at a magnetic field where H is up to an approximate saturation magnetic field value. (Fig. 1)

4. Residual magnetic flux density, Br (T)

The value of flux density retained by the core when the magnetic field is reduced from the state of the effective saturation magnetic flux density to zero. (Fig. 1)

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5. 矫顽力 Hc (A / m)

从饱和状态去除磁场后，磁芯继续被反向磁场磁化，直至磁通密度减为零，此时的磁场强称为矫顽力。见图 1。

6. 损耗因数 tan δ

损耗因数是磁滞损耗、涡流损耗和剩余损耗三者之和

$\tan\delta = \tan\delta h + \tan\delta e + \tan\delta r$

式中 $\tan\delta h$ 为磁滞损耗因数

$\tan\delta e$ 为涡流损耗因数

$\tan\delta r$ 为剩余损耗因数

7. 相对损耗因数 tan δ / μ

相对损耗因数是损耗因数与磁导率之比:

$\tan\delta / \mu i$ (适用于材料)

$\tan\delta / \mu e$ (适用于磁路中含有气隙的磁芯)

8. 品质因数 Q

品质因数为损耗因数的倒数:

$Q = 1/\tan\delta$

9. 温度系数 α μ (1/K)

温度系数为温度在 T_1 和 T_2 范围内变化时，每变化 1K 相应的磁导率的相对变化量：

$$\alpha_\mu = \frac{\mu_2 - \mu_1}{\mu_1} \bullet \frac{1}{T_2 - T_1} \quad (T_2 > T_1)$$

式中 μ_1 为温度为 T_1 时的磁导率

μ_2 为温度为 T_2 时的磁导率

10. 相对温度系数 α μ r (1/K)

温度系数和磁导率之比，即

$$\alpha_\mu = \frac{\mu_2 - \mu_1}{\mu_2^2} \bullet \frac{1}{T_2 - T_1} \quad (T_2 > T_1)$$

11. 居里温度 Tc (℃)

在该温度下材料由铁磁性(或亚铁磁性)转变成顺磁性。见图 2。

5. Coercivity, Hc (A / m)

The value of magnetic field strength whereby the flux density becomes zero under the intensification, in the opposite direction, of the magnetic field. (Fig.1)

6. Loss factor , tan δ

This is the sum of the hysteresis loss factor, eddy current loss factor and residual loss factor.

$\tan\delta = \tan\delta h + \tan\delta e + \tan\delta r$

Where $\tan\delta h$ is the hysteresis loss factor

$\tan\delta e$ is the eddy current loss factor

$\tan\delta r$ is the residual loss factor

7. Relative loss factor , tan δ / μ

This is the ratio of loss factor to permeability.

$\tan\delta / \mu i$ (for materials)

$\tan\delta / \mu e$ (for cores with gaps in the magnetic circuit)

8. Quality factor, Q

This is the reciprocal of the loss factor and is given by $Q = 1/\tan\delta$.

9. Temperature coefficient, α_μ (1/K)

This is the fractional difference of permeability per 1K in a temperature range of from T_1 to T_2.

$$\alpha_\mu = \frac{\mu_2 - \mu_1}{\mu_1} \bullet \frac{1}{T_2 - T_1} \quad (T_2 > T_1)$$

Where μ_1: permeability at temperature T_1

μ_2: permeability at temperature T_2

10. Relative temperature coefficient, $\alpha_{\mu r}$ (1/K)

This is the temperature coefficient per unit permeability and is given by the following equation:

$$\alpha_\mu = \frac{\mu_2 - \mu_1}{\mu_2^2} \bullet \frac{1}{T_2 - T_1} \quad (T_2 > T_1)$$

11. Curie temperature, Tc

It is the critical temperature level at which the ferromagnetic state of the material changes to paramagnetic state. (Fig. 2)

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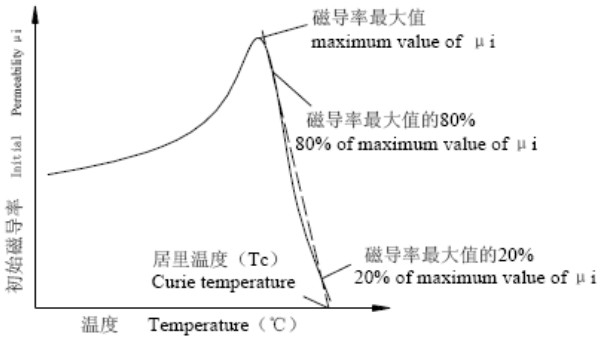

图 2（Fig 2）

12. 减落因数 D_F

在恒温条件下，完全退磁的磁芯的磁导率随时间的衰减变化，即

$$D_F = \frac{\mu_1 - \mu_2}{\log \frac{T_2}{T_1}} \cdot \frac{1}{\mu_1^2} \qquad (T_2 > T_1)$$

式中 μ_1 为退磁后 t_1 分钟的磁导率

μ_2 为退磁后 t_2 分钟的磁导率

13. 电阻率 ρ (Ω/m)

具有单位截面积和单位长度的磁性材料的电阻。

14. 密度 d (kg/m³)

单位体积材料的重量，即

$$d = W/V$$

式中 W 为磁芯的重量 (kg)

V 为磁芯的体积（m^3 ）

15. 功率损耗 Pc (kW/ m³、W/ kg)

磁芯在高磁通密度下的单位体积损耗或单位重量损耗。该磁通密度可表示为

$$Bm = \frac{E}{4.44\ f\ N\ Ae}$$

式中 E 为施加在线圈上的电压有效值 (V)

Bm 为磁通密度的峰值（T）

12. Disaccommodation factor , D_F

This is the factor representing the variation of permeability through time after a complete demagnetization of the core at a constant temperature.

$$D_F = \frac{\mu_1 - \mu_2}{\log \frac{T_2}{T_1}} \cdot \frac{1}{\mu_1^2} \qquad (T_2 > T_1)$$

Where

μ_1: permeability t_1 minutes after complete demagnetization.

μ_2: permeability t_2 minutes after complete demagnetization.

13. Electrical resistivity , ρ (Ω/m)

This is the electrical resistance per unit length and cross-sectional area of a magnetic core.

14. Density, d (kg/m³)

This is the weight per unit volume of a magnetic core as expressed below:

$$d = W/V$$

Where W : weight of magnetic body (kg)

V : volume of magnetic body (m^3)

15. Power loss Pc (kW/ m³、W/ kg)

Power loss denotes the loss by an electrical transformer, such as a switching power supply, under a magnetization condition featuring a high frequency and large amplitude. Operating magnetic flux density is given by the following equation.

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f 为频率（Hz）
N 为线圈匝数
Ae 为有效截面积（m^2）

$$Bm = \frac{E}{4.44\ f\ N\ Ae}$$

Where
E: voltage effective value applied to coil
Bm: peak value of magnetic flux density
f: frequency (Hz)
N: number of coil turns
Ae: effective cross-sectional area (m^2)

16. 电感因数 A_L (nH / N^2)

电感因数定义为具有一定形状和尺寸的磁芯上每一匝线圈产生的电感量，即

$$A_L = L / N^2$$

式中 L 为装有磁芯的线圈的电感量 (H)
N 为线圈匝数

16. Inductance factor A_L (nH / N^2)

This is the inductance per turn of the coil wound around the ferrite cores with definite shape and dimension.

$$A_L = L / N^2$$

Where
L: inductance of the coil with ferrite core.
N: turns of the coil

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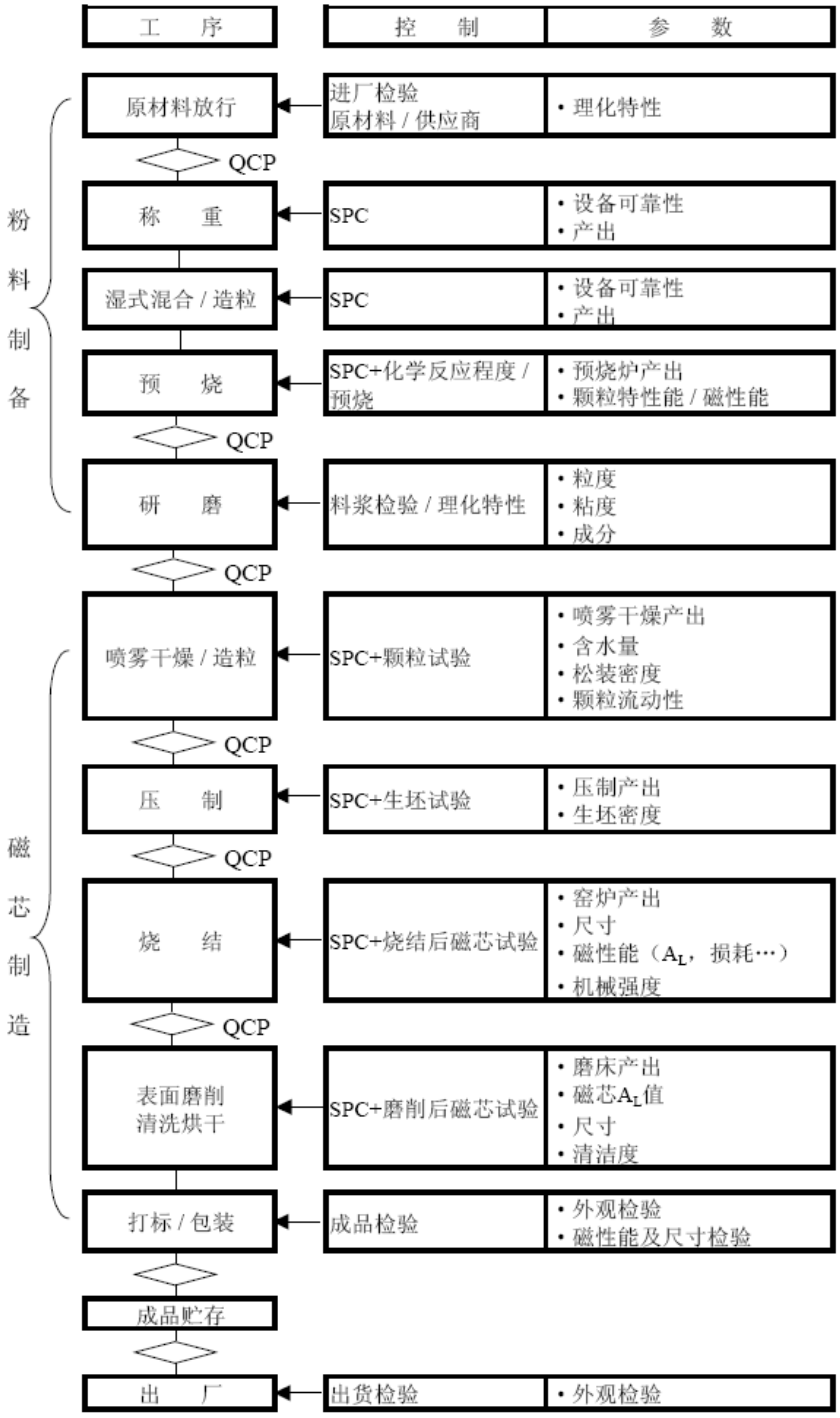
图一 MnZn 铁氧体磁芯典型工艺流程图



图一中 QCP：质量控制点 SPC：统计工序控制

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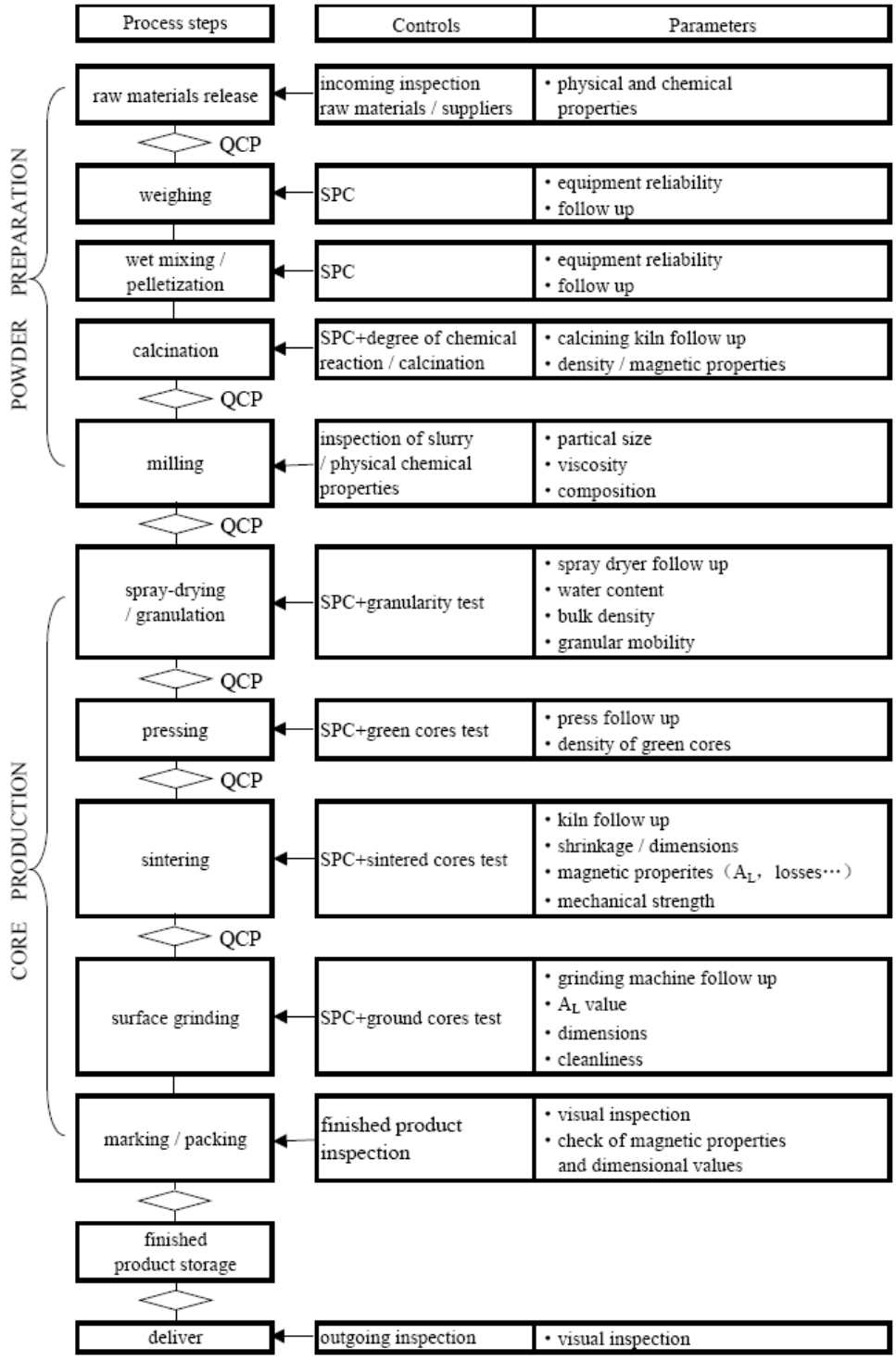
Fig. 1 Typical Manufacturing Flow Chart of MnZn Ferrite Cores



In Fig. 1, QCP is Quality Control Point and SPC is Statistical Process Control.

■ Material Characteristics (3)

	Symbol	Unit	Measuring Conditions			High Permeability Materials	
			Freq.	Flux den.	Temp.	HC-5	HC-7
Initial Permeability	μ_i		10kHz	< 0.25mT	25°C	5000 ± 25%	7000 ± 25%
Relative Loss factor	$\tan\delta/\mu_i$	10^{-6}	10kHz	< 0.25mT	25°C	< 4	< 8
			100kHz		25°C	< 15	< 30
Saturation Flux Density	Bms	mT	10kHz	H = 1200A/m	25°C	440	400
					100°C	300	200
Remanence	Brms	mT	10kHz	H = 1200A/m	25°C	80	150
					100°C	90	110
Temperature Factor of Permeability	αF	10^{-6}	10kHz	< 0.25mT	0 - 20°C	0 ~ 2	-1 ~ 1
					20 - 70°C	0 ~ 2	-1 ~ 1
Hysteresis Material Constant	ηB	10^{-6}/mT	10kHz	1.5-3.0mT	25°C	< 0.8	< 1.2
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0.25mT	25°C	< 3	< 2
Curie Temperature	Tc	°C				> 140	> 130
Resistivity	ρ	Ωm				0.20	0.35
Density	d	g/cm³				4.85	4.90

■ Material Characteristics (4)

	Symbol	Unit	Measuring Conditions			High Permeability Materials			
			Freq.	Flux den.	Temp.	HC-10	HC-1A	HC-12	HC-15
Initial Permeability	μ_i		10kHz	< 0.25mT	25°C	10000 ± 30%	10000 ± 30%	12000 ± 30%	15000 ± 30%
Relative Loss factor	$\tan\delta/\mu_i$	10^{-6}	10kHz	< 0.25mT	25°C	< 10	< 10	< 10	< 10
			100kHz		25°C	< 60	< 60	< 60	< 110
Saturation Flux Density	Bms	mT	10kHz	H = 1200A/m	25°C	410	380	380	400
					100°C	210	180	180	170
Remanence	Brms	mT	10kHz	H = 1200A/m	25°C	140	95	130	220
					100°C	110	75	110	100
Temperature Factor of Permeability	αF	10^{-6}	10kHz	< 0.25mT	0 - 20°C	0 ~ 1.5	-1 ~ 1	0 ~ 1.5	-1 ~ 1
					20 - 70°C	-0.5 ~ 1	-1 ~ 1	-0.5 ~ 1	-1 ~ 1
Hysteresis Material Constant	ηB	10^{-6}/mT	10kHz	1.5-3.0mT	25°C	< 0.5	< 1	< 0.5	< 0.5
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0.25mT	25°C	< 2	< 2	< 2	< 2
Curie Temperature	Tc	°C				> 130	> 120	> 110	> 110
Resistivity	ρ	Ωm				0.15	0.15	0.12	0.10
Density	d	g/cm³				4.90	4.90	4.90	5.00

Remark:

HC-1A Best impedance, and permeability v. s. frequency performance for 10,000μ_i materials.

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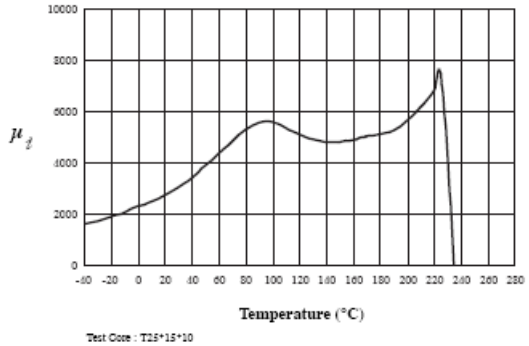
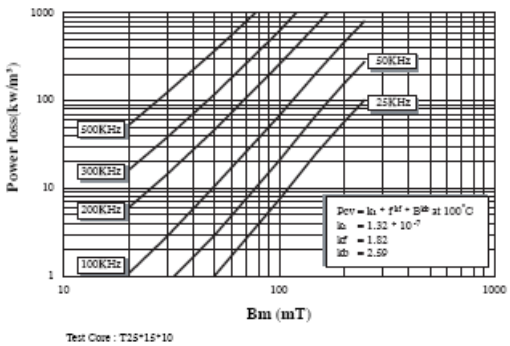
MaterialCharacteristics-HCP4

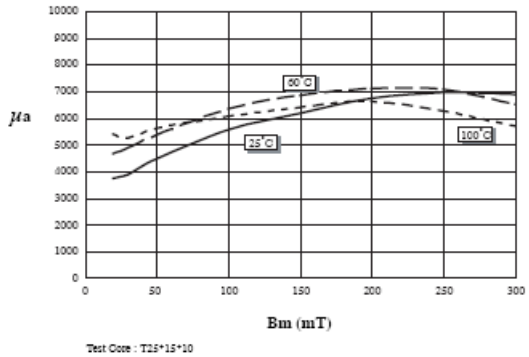
Initial Permeability V.S. Temperature



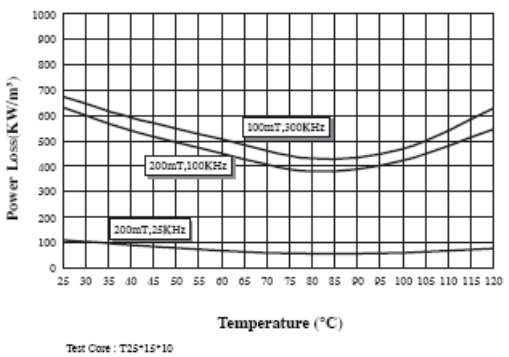
Power Loss V.S. Temperature/Flux Density/Frequency



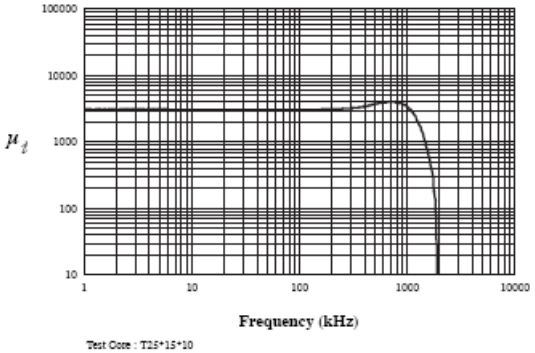
Amplitude Permeability V.S. Flux Density (Bm)



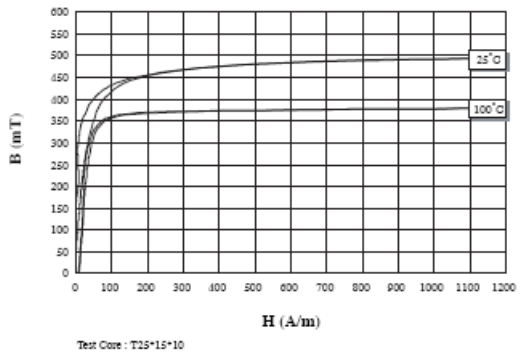
Power Loss V.S. Temperature



Initial Permeability V.S. Frequency



Saturation Flux Density V.S. Magnetic Field



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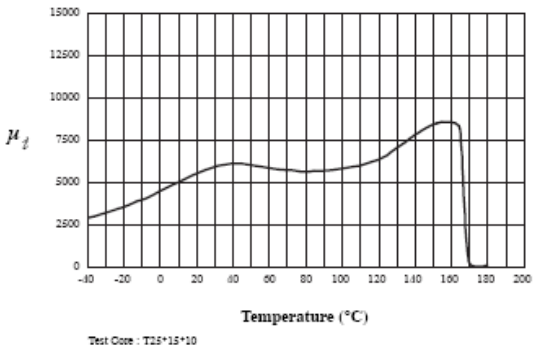
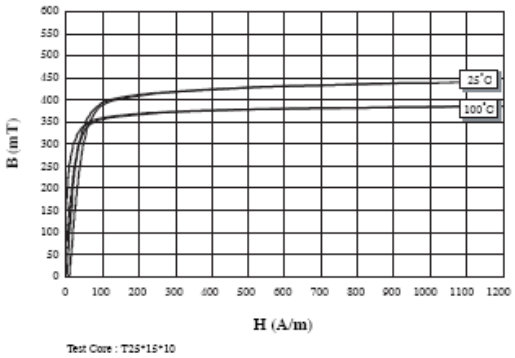
MaterialCharacteristics-HC-5

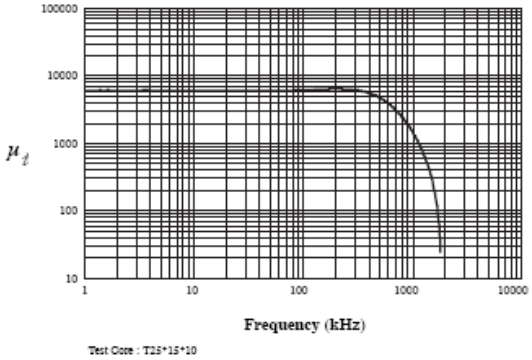
Initial Permeability V.S. Temperature



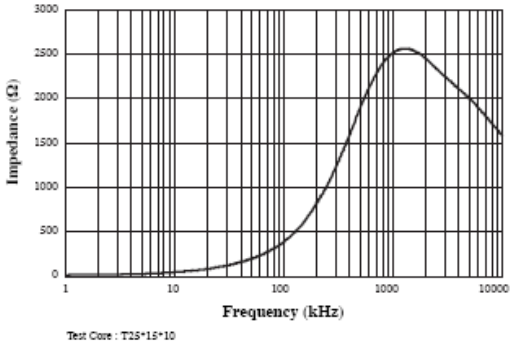
Saturation Flux Density V.S. Magnetic Field



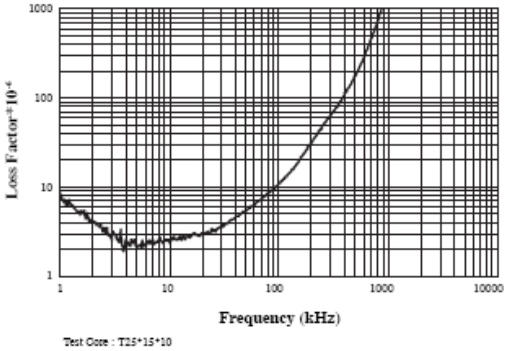
Initial Permeability V.S. Frequency



Impedance V.S. Frequency



Loss Factor V.S. Frequency



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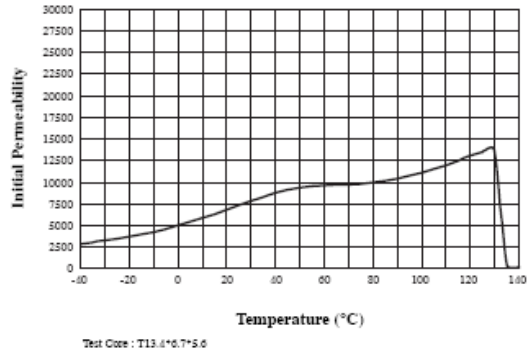
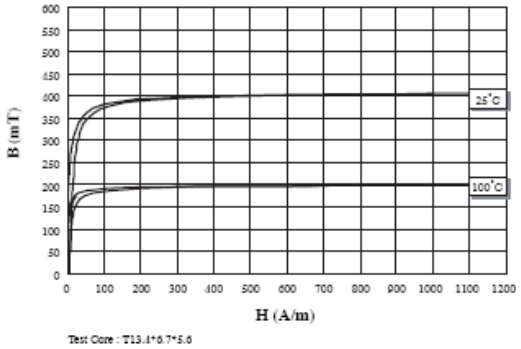
MaterialCharacteristics-HC-7

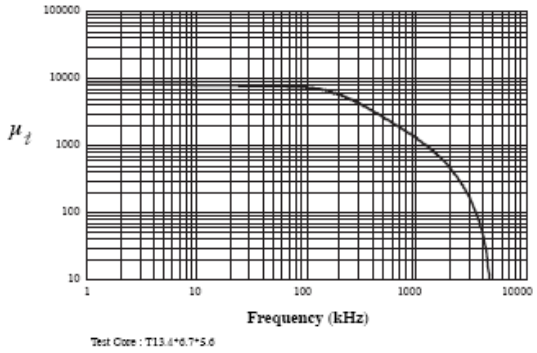
Initial Permeability V.S. Temperature



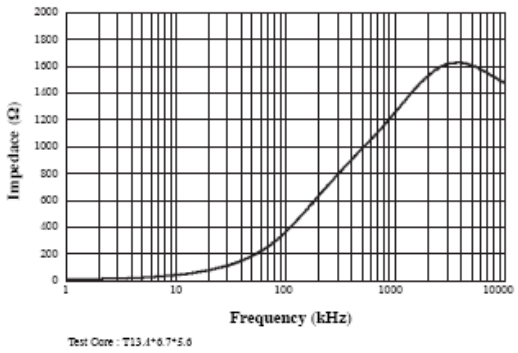
Saturation Flux Density V.S. Magnetic Field



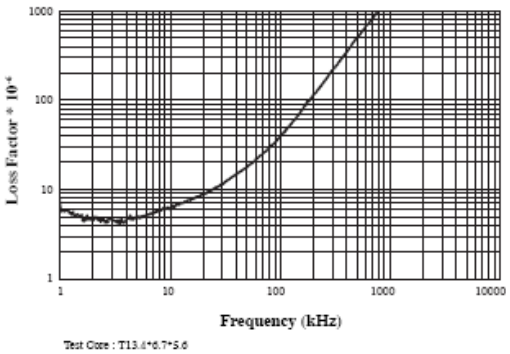
Initial Permeability V.S. Frequency



Impedance V.S. Frequency



Loss Factor V.S. Frequency



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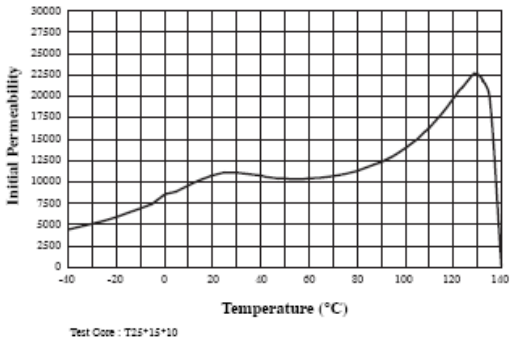
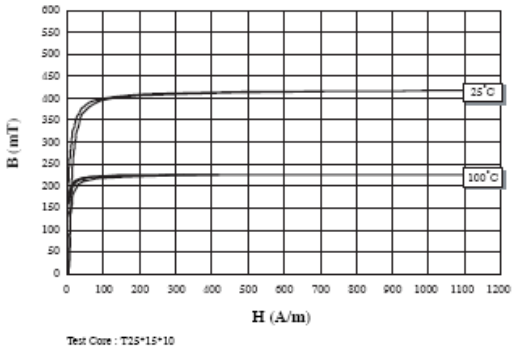
MaterialCharacteristics- HC-10

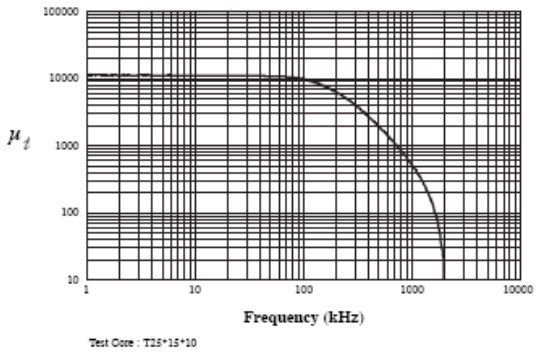
Initial Permeability V.S. Temperature



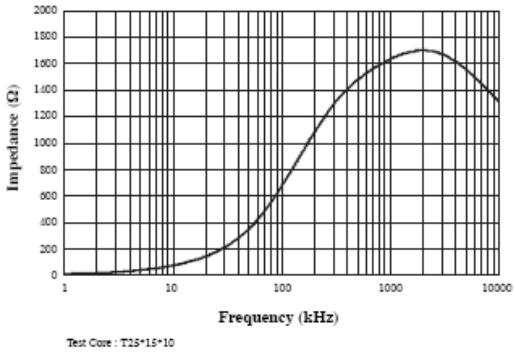
Saturation Flux Density V.S. Magnetic Field



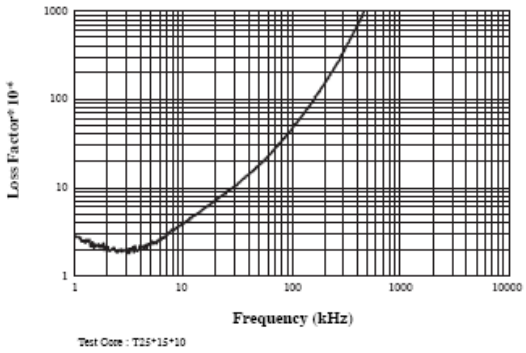
Initial Permeability V.S. Frequency



Impedance V.S. Frequency



Loss Factor V.S. Frequency



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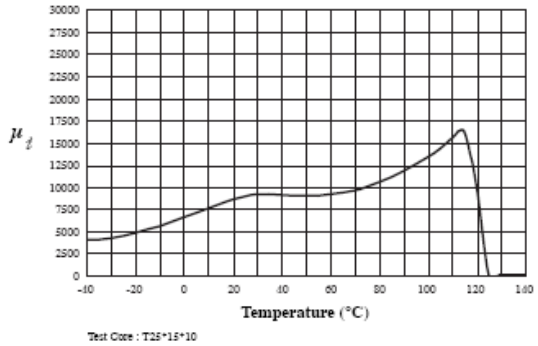
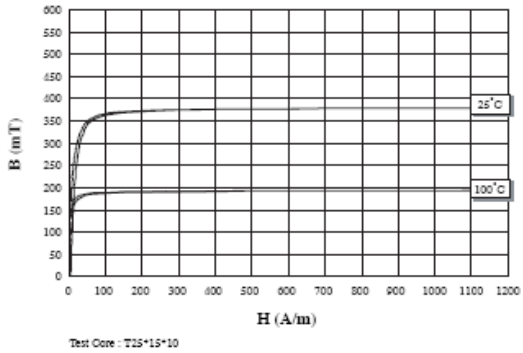
MaterialCharacteristics- HC-1A

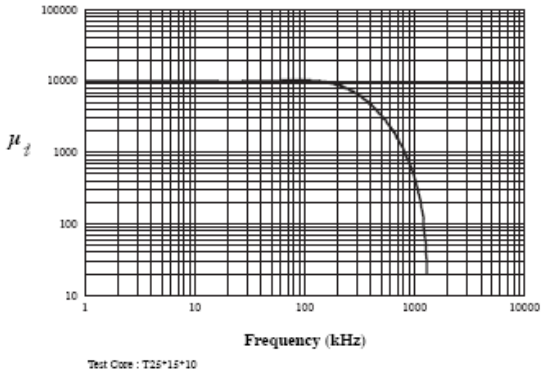
Initial Permeability V.S. Temperature



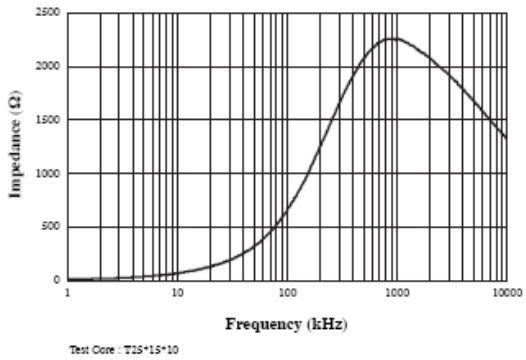
Saturation Flux Density V.S. Magnetic Field



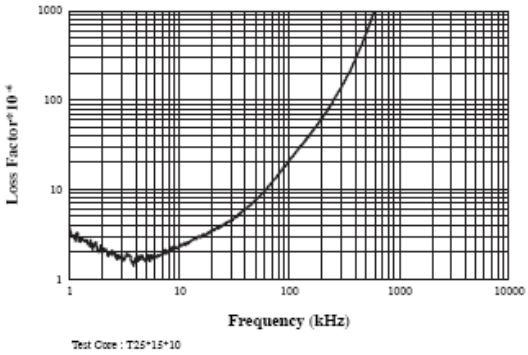
Initial Permeability V.S. Frequency



Impedance V.S. Frequency



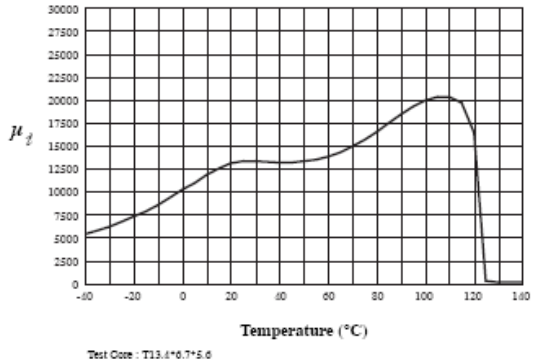
Loss Factor V.S. Frequency



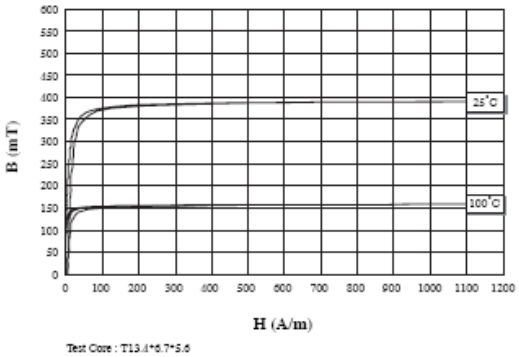
东莞市石碣昊磁电子厂 Hao Ci Electronics co.,ltd TEL：0769-23200392 FAX0769-86287151 13310813681 肖生

MaterialCharacteristics- HC-12

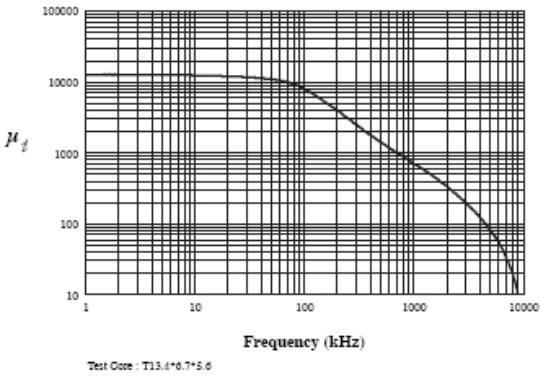
Initial Permeability V.S. Temperature



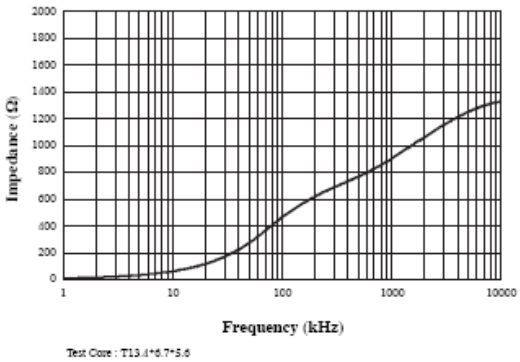
Saturation Flux Density V.S. Magnetic Field



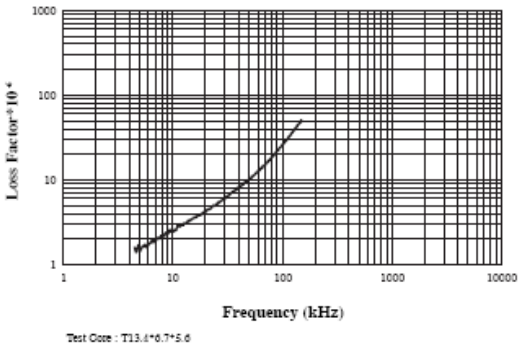
Initial Permeability V.S. Frequency



Impedance V.S. Frequency



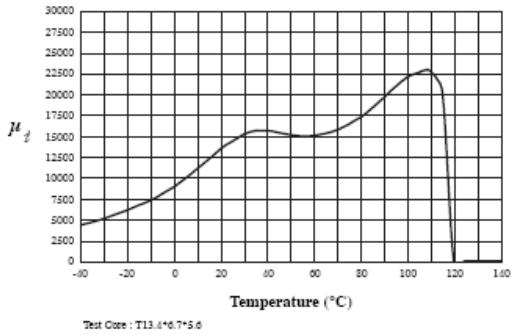
Loss Factor V.S. Frequency



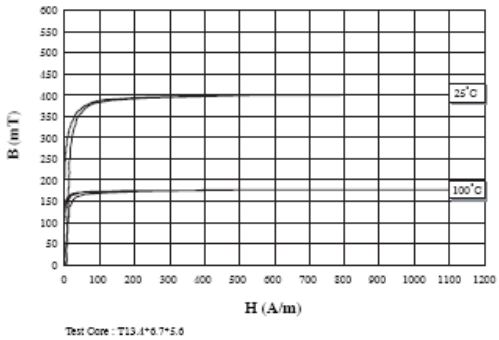
东莞市石碣昊磁电子厂 Hao Ci Electronics co.,ltd TEL：0769-23200392 FAX0769-86287151 13310813681 肖生

MaterialCharacteristics- HC-15

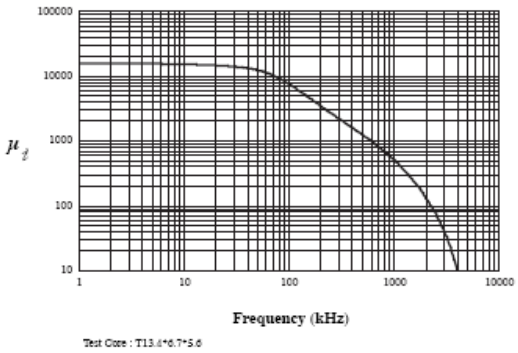
Initial Permeability V.S. Temperature



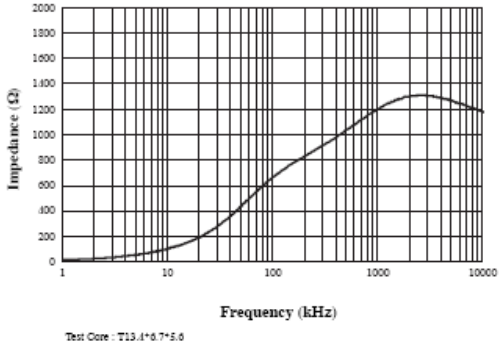
Saturation Flux Density V.S. Magnetic Field



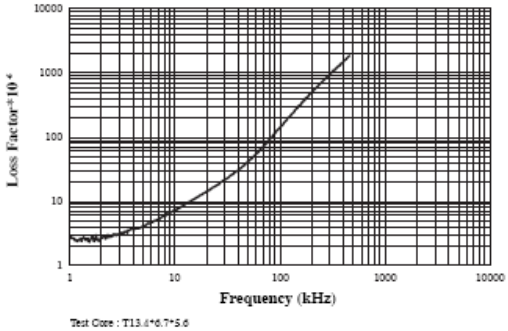
Initial Permeability V.S. Frequency



Impedance V.S. Frequency



Loss Factor V.S. Frequency



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EE、EF、EI 型磁芯　EE、EF&EI CORES

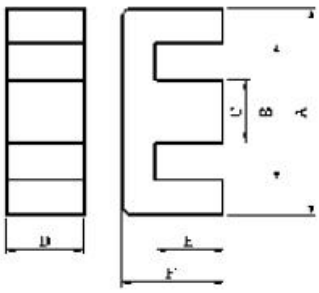

图 1 Fig.1

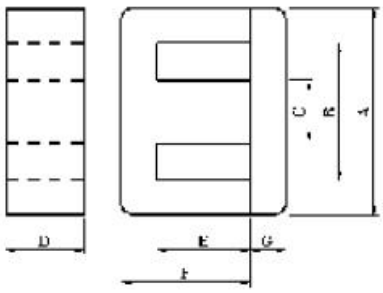

图 2 Fig.2

尺寸 Dimensions

型号 Type	形状 Shape	尺寸 Dimensions（mm）							重量 (克/付) W(g/set)
		A	B min.	C	D	E	F		
EE10	1	10.20±0.30	7.60	2.40±0.15	4.65±0.20	4.30±0.15	5.50±0.15		1.6
EE13	1	13.00±0.30	10.00	2.75±0.15	6.15±0.15	4.60±0.10	6.00±0.15		2.7
EE13A	1	13.00+0.50/-0.30	10.40	2.75+0.10/-0.15	6.15+0.05/-0.15	4.6+0.20/-0	6.00±0.15		2.7
EE13D	1	13.00±0.30	8.90	3.50±0.20	9.80±0.20	4.70±0.10	6.50±0.15		5.3
EE16D	1	16.00±0.30	11.70	4.00±0.20	4.60±0.20	5.30±0.20	7.30±0.20		3.2
EE16	1	16.00±0.30	11.70	4.00±0.20	4.90±0.20	5.30±0.20	7.30±0.20		3.5
EE16L	1	16.00±0.30	11.60	4.00±0.20	4.90±0.20	10.20±0.20	12.25±0.20		5.3
EE19	1	19.10±0.40	14.10	4.85±0.25	4.85±0.25	5.75±0.15	8.00±0.20		4.7
EE19L	1	20.00±0.30	14.40	4.55±0.15	4.85±0.15	11.20±0.20	13.55±0.25		8.0
EE22	1	22.00±0.40	13.70	6.00+0/-0.60	6.00+0/-0.60	5.30±0.20	9.30±0.20		8.7
EE22B	1	22.00±0.40	15.60	5.75±0.25	5.75±0.25	5.60±0.20	9.70±0.20		8.7
EE25	1	25.30±0.50	19.00	6.25±0.20	6.20±0.25	6.75±0.25	9.90±0.25		10
EE25L	1	25.30+0.50/-0.30	19.30	6.50±0.25	6.35±0.25	12.7+0.40/-0.20	15.95±0.25		15
EE35	1	34.90±0.40	25.50	9.40±0.20	12.15±0.25	9.70±0.20	14.25±0.20		43
EE41	1	40.60±0.60	28.60	12.50±	12.50±	10.50±	16.50±		60.5

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				0.25	0.25	0.30	0.25		
EE50	1	50.00±0.70	34.20	14.60±0.40	14.60±0.40	13.10±0.30	21.55±0.30		116
EE55	1	55.15±1.05	37.50	16.90±0.25	20.70±0.55	18.90±0.40	27.50±0.30		216
EE65	1	65.20±1.3	44.20	19.65±0.35	27.00±0.40	22.55±0.35	32.50±0.30		390
EE70	1	70.50±1.50	48.00	16.70±0.50	24.50±0.60	24.65±0.65	35.50±0.50		370
EE70B	1	70.50±1.50	48.00	21.50±0.50	30.50±0.60	22.00±0.60	33.20±0.40		500
EE85	1	85.00±2.0	55.00	27.20+0/-0.6	26.50±0.50	28.75±0.50	44.00±1.00		675
EE85B	1	85.00±2.0	55.00	27.20+0/-0.6	31.50±0.50	28.75±0.50	44.00±1.00		810
EE110	1	110.00+2.5/-1.0	74.20	36.00±1.00	36.00±1.00	37.20+1.4/0	56.00+0/-1.0		1560
EF20	1	20.00±0.40	14.10	5.65±0.25	5.70±0.20	7.20±0.20	10.00±0.20		7.5
EF25	1	25.05±0.75	17.50	7.25±0.25	7.20±0.30	8.95±0.25	12.55±0.25		15
EF20N	1	20.30±0.40	14.80	5.70±0.20	5.60±0.20	7.30±0.20	10.00±0.20		7.2
EF25/7	1	25.05±0.75	17.50	7.25±0.25	7.20±0.30	8.95±0.25	12.55±0.25		15
EF25/11	2	25.05±0.75	17.50	7.25±0.25	11.00±0.30	8.95±0.25	12.55±0.25		23.0
EI22	1	22.00±0.40	15.60	6.00+0/-0.5	6.00+0/-0.5	10.80+0.4 0/-0	15.00 ± 0.40	4.00 ± 0.20	8.4
EI28	2	28.00±0.50	18.60	7.20±0.30	10.70±0.30	12.50±0.30	17.00±0.30	3.50 ± 0.20	20
EI33	2	33.00±0.60	23.60	9.70±0.30	12.70±0.30	19.250±030	23.75±0.25	5.00 ± 0.30	40
EI33L	2	33.00±0.60	23.60	9.70±0.30	12.70±0.30	19.55±0.30	24.05±0.25	5.00 ± 0.30	40

有效参数及磁特性 **Effective Parameter & Magnetic Characteristics**

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型号 Type	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz,100Ts, 25℃		Pc max (W) 100kHz,200mT, 100℃
	C_1 (mm^{-1})	Le(mm)	Ae(mm^2)	Ve(mm^3)	HC-7	HCP4	HCP4
EE10	2.16	26.1	12.0	313		870	0.16
EE13	1.77	30.2	17.1	517		1130	0.26
EE13A	1.76	30.6	17.3	547.9		1000min	0.30
EE13D	0.839	30.1	35.8	1080		2100	0.54
EE16	1.81	35.5	19.6	695	2000	1040	0.35
EE16D	1.93	35.5	18.4	667		970	0.34
EE16L	2.84	55.0	19.4	1067		760	0.54
EE19	1.75	39.8	22.7	903	2400	1150	0.45
EE19L	2.59	62.1	23.9	1486		800	0.75
EE22	1.02	40.2	39.5	1590	4850	2100	0.80
EE22B	1.15	42.9	37.2	1600		1800	0.80
EE25	1.32	49.9	37.9	1890		1650	0.95
EE25L	1.87	73.5	39.4	2890	3100	1150	1.45
EE35	0.621	69.5	112.0	7770		3420	3.89
EE41	0.514	77.1	150.0	11570		4130	5.80
EE50	0.425	96	226	21700		5000	10.9
EE55	0.355	124	349	43200		6000	21.6
EE65	0.274	147	535	78700		7800	8.0*
EE70	0.344	159	461	73200		6500	7.30*
EE70B	0.226	150	665	99800		9000	10.0*
EE85	0.264	188	714	134000		8300	2.7**
EE85B	0.220	189	859	162000		10000	3.24**
EE110	0.191	244	1280	312000		11500	6.24**
EF20	1.431	46.1	32.2	1480		1500	0.74
EF25	1.114	57.8	51.8	2990		2000	1.50
EF20N	1.55	47	30.4	1430		1350	0.71
EF25/7	1.114	57.8	51.8	2990	4900	2000	1.50
EF25/11	0.73	57.8	79.2	4570		2950	2.28
EI22	1.148	42.5	37.0	1570		1950	0.80

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PEE、PEI 型磁芯　PEE&EIF CORES

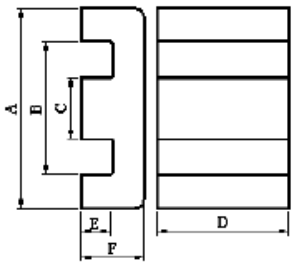

图 1 **Fig.1**

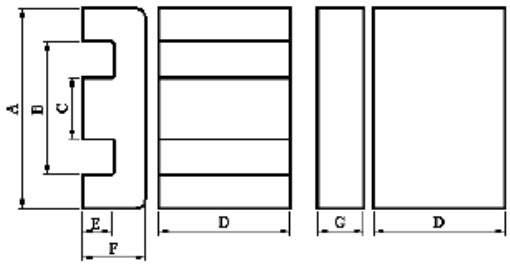

图 2 **Fig.2**

尺寸 Dimensions

型号 Type	形状 Shape	尺寸 Dimensions（mm）							重量 (克/付) W(g/set)
		A	B	C	D	E	F	G	
PEE14	1	14.00±0.30	11.00±0.25	3.00±0.10	5.00±0.20	1.75±0.10	3.25±0.10		1.2
PEE18	1	18.00±0.35	14.00±0.30	4.00±0.10	10.00±0.20	2.20±0.10	4.20±0.10		4.8
PEI22	2	21.80±0.20	16.80±0.40	5.00±0.10	15.80±0.30	3.60±0.10	6.10±0.10	2.50±0.10	10.0
PEE22	2	21.80±0.20	16.80±0.40	5.00±0.10	15.80±0.30	1.10±0.10	3.60±0.10		9.0

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz, 100Ts, 25℃		Pc max (W) 100kHz,200mT, 100℃	
	C_1（mm^{-1}）	Le(mm)	Ae(mm^2)	Ve(mm^3)	HCP4	HCP4A	HCP4	HCP4A
PEE14	1.31	19.7	15.0	296	1500	1500	0.15	0.12
PEE18	0.627	25.1	40.0	1000	2700	3100	0.50	0.40
PEI22	0.34	26.8	79.0	2120	5000	5700	1.06	0.85
PEE22	0.304	24	79	1900	5700	6200	0.95	0.77

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EER、ETD 型磁芯　　EER&ETD CORES

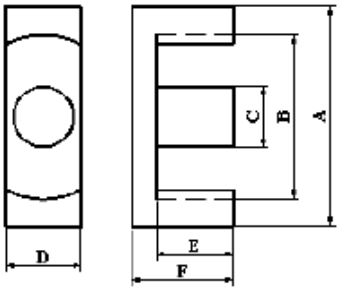

图 1 Fig.1

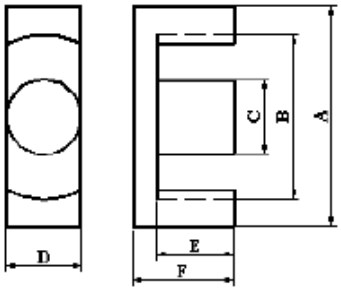

图 2 Fig.2

尺寸 Dimensions

型号 Type	形状 Shape	尺寸 Dimensions（mm）						重量 (克/付) W(g/set)
		A	B min.	C	D	E	F	
EER28/20	1	28.55±0.55	21.40	9.90±0.25	11.40±0.25	6.60±0.2	10.00±0.20	21
EER28/28	1	28.55±0.55	21.20	9.90±0.25	11.40±0.25	9.65±0.25	14.00±0.20	29
EER29/28	1	29.30±0.40	22.5	9.90±0.20	11.40±0.20	10.00±0.20	14.20±0.20	28
EER28/34	1	28.55±0.55	21.20	9.90±0.25	11.40±0.25	12.50±0.25	16.90±0.25	33
EER35/30	2	35.00±0.70	25.30	11.30±0.30	11.30±0.40	10.00±0.20	15.00±0.20	39
EER35/42	2	35.00±0.70	25.60	11.30±0.30	11.30±0.40	15.40±0.30	21.40±0.25	53
EER36/43	2	36.00±0.70	27.8	11.30±0.30	11.30±0.30	15.60±0.20	21.60±0.20	51
EER40/45	2	40.00±1.00	28.75	13.30±0.40	13.30±0.40	15.40±0.30	22.40±0.30	80
EER40/45L	2	40.00±1.00	28.75	13.30±0.40	13.30±0.40	16.00±0.20	23.00±0.30	82
ETD34/26	2	34.20±0.80	25.60	10.80±0.30	10.80±0.30	7.80±0.30	13.00±0.20	32
ETD34/35	2	34.20±0.80	25.60	10.80±0.30	10.80±0.30	12.10±0.30	17.30±0.20	39
ETD39/36	2	39.10±0.90	29.30	12.50±0.30	12.50±0.30	12.60±0.40	17.80±0.20	54

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ETD39/40	2	39.10±0.90	29.30	12.50±0.30	12.50±0.30	14.60±0.40	19.80±0.20	58
ETD39/42	2	39.10±0.09	29.30	12.50±0.30	12.50±0.30	15.80±0.40	21.00±0.20	61
ETD49/49	2	48.70±1.10	36.10	16.30±0.40	16.40±0.40	18.10±0.40	24.70±0.20	123
ETD59/62	2	59.80±1.30	43.60	21.65±0.45	21.65±0.45	22.50±0.40	31.00±0.20	260

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz,100Ts, 25℃	Pc max (W) 100kHz,200mT, 100℃
	$C_1(mm^{-1})$	Le(mm)	$Ae(mm^2)$	$Ve(mm^3)$	HCP4	HCP4
EER28/20	0.611	49.5	81.0	4010	3430	2.01
EER28/28	0.732	63.0	86.0	5410	2730	2.75
EER28/34	0.87	74.4	85.4	6360	2400	3.20
EER29/28	0.792	66.1	83.5	5510	2500	2.70
EER35/42	0.850	93.0	109	10160	2500	5.10
EER35/30	0.655	70.3	107	7550	3000	3.78
EER36/43	0.919	95.5	104	9920	2400	4.9
EER40/45	0.651	98.5	151	14900	3300	7.50
EER40/45L	0.666	101	151	15200	3250	7.6
ETD34/26	0.629	61.9	98.4	6080	3000	3.05
ETD34/35	0.815	79.0	97.0	7660	2500	3.85
ETD39/36	0.676	84.6	125	10570	3100	5.30
ETD39/40	0.741	92.6	124	11560	2900	5.80
ETD39/42	0.780	97.4	124	12150	2700	6.08

ETD49/49	0.542	114	211	24140	4000	12.10
ETD59/62	0.383	141	367	51630	5700	25.90

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EFD 型磁芯 EED CORES

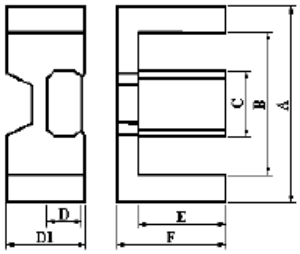

图 1 Fig.1

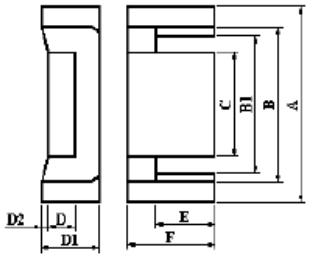

图 2 Fig.2

尺寸 Dimensions

型号 Type	形状 Shape	尺寸 Dimensions（mm）									重量 (克/付) W(g/set)
		A	B	B1	C	D	D1	D2	E	F	
EFD12.8	2	12.80±0.30	9.90 +0.35	8.95 +0.40	6. 80 – 0.30	1.80– 0.25	3.80 +0.10/-0.20	0.43 ± 0.05	3.95±0.15	5.80±0.15	1.52
EFD15	1	15.00±0.30	11.00±0.25	------- --	5.30±0.15	2.40±0.10	4.60±0.15	------	5.50±0.25	7.50±0.20	2.8
EFD15.3	2	15.30±0.40	11.80 +0.50	11.20 +0.50	8.00-0.20	1.70 – 0.20	3.80 +0.10/-0.20	0.43 ± 0.05	4.55±0.15	6.55±0.15	2.02
EFD20	1	20.00±0.55	15.40±0.50	------- --	8.90±0.20	3.60±0.15	6.70±0.15	------	7.70±0.25	10.00±0.15	7.0
EFD20L	1	20.00±0.55	15.40±0.50	------- --	8.90±0.20	3.60±0.15	5.60±0.10	------	9.30±0.15	11.50±0.15	7.2
EFD25	1	25.00±0.65	18.70±0.60	------- --	11.40±0.20	5.20±0.15	9.10±0.20	------	9.30±0.25	12.50±0.15	16.7
EFD30	1	30.00±0.80	22.40±0.80	------- --	14.60±0.25	4.90±0.15	9.10±0.20	------	11.20±0.30	15.00±0.20	24.0

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz, 100Ts, 25℃	Pc max (W) 100kHz,200mT, 100℃	
	C_1（mm^{-1}）	Le(mm)	Ae(mm^2)	Ve(mm^3)	HCP4/HCP4A	HCP4	HCP4A
EFD12.8	2.23	25.4	11.4	289	yuu	0.15	0.12
EFD15	2.27	34.0	15.0	510	890	0.26	0.21

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EFD15.3	2.15	29.3	13.6	399	950	0.20	0.17
EFD20	1.52	47.0	31.0	1460	1330	0.73	0.59
EFD20L	1.93	52.1	27.0	1408	1050	0.70	0.56
EFD25	0.98	57.0	58.0	3300	2150	1.65	1.32
EFD30	0.98	68.0	69.0	4700	2200	2.35	1.88

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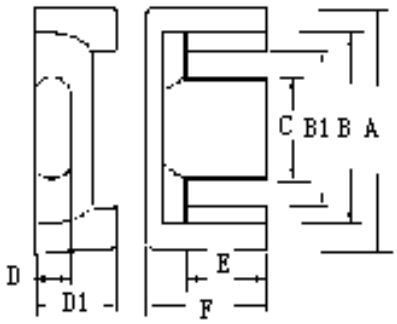
EPC 型磁芯 EPC CORES



尺寸 Dimensions

型号 Type	尺寸 Dimensions（mm）								重量 (克/付) W(g/set)
	A	B min.	B1	C	D	D1	E	F	
EPC13	13.20±0.30	10.50	8.20 min	5.60±0.15	2.10±0.10	4.60±0.15	4.60±0.20	6.60±0.20	2.1
EPC17	17.60±0.40	14.30	12.00±0.50	7.70±0.20	2.80±0.15	6.00±0.20	6.05±0.20	8.55±0.20	4.5
EPC19	19.60±0.50	15.90	13.40±0.50	8.20±0.20	2.40±0.15	6.00±0.20	7.25±0.20	9.75±0.20	5.5
EPC25	25.10±0.50	20.65	17.50±0.50	11.50±0.20	4.00±0.10	8.00±0.20	9.00±0.30	12.50±0.20	13.0

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L（nH/N²±25%） 1kHz，100T₃， 25℃	Pc max （W） 100kHz，200mT， 100℃	
	C_1(mm⁻¹)	Le(mm)	Ae(mm²)	Ve(mm³)	HCP4/HCP4A	HCP4	HCP4A
EPC13	2.45	30.6	12.5	383	870	0.192	0.155
EPC17	1.76	40.2	22.8	917	1200	0.460	0.37
EPC19	1.89	43.3	23.0	996	1200	0.500	0.40
EPC25	1.28	59.2	46.4	2748	1600	1.400	1.12

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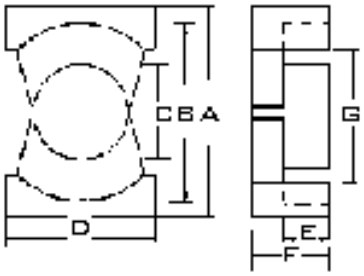
PQ 型磁芯 PQ CORES



尺寸 Dimensions

型号 Type	尺寸 Dimensions（mm）							重量 (克/付) W(g/set)
	A	B	C	D	E	F	G min	
PQ20/16	20.50±0.40	18.00±0.40	8.80±0.20	14.00±0.40	5.15±0.10	8.10±0.10	12.00	13.0
PQ20/20	20.50±0.40	18.00±0.40	8.80±0.15	14.00±0.40	7.15±0.15	10.10±0.10	12.00	15.0
PQ26/15	26.50±0.45	22.50±0.45	12.00±0.20	19.00±0.45	2.55±0.10	7.40±0.10	15.50	25.0
PQ26/20	26.50±0.45	22.50±0.45	12.00±0.20	19.00±0.45	5.75±0.15	10.10±0.15	15.50	31.0
PQ26/25	26.50±0.45	22.50±0.45	12.00±0.20	19.00±0.45	8.05±0.15	12.40±0.20	15.50	36.0
PQ30/20	30.00±0.50	25.50+0/-0.50	13.30±0.30	20.50±0.50	6.45±0.10	9.75±0.15		32.0
PQ32/20	32.00±0.50	27.50±0.50	13.45±0.25	22.00±0.50	5.75±0.15	10.30±0.15	19.00	42.0
PQ32/30	32.00±0.50	27.50±0.50	13.45±0.25	22.00±0.50	10.65±0.15	15.20±0.20	19.00	55.0

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz, 100Ts, 25℃	Pc max (W) 100kHz, 200mT, 100℃	
	C_1(mm⁻¹)	Le(mm)	Ae(mm²)	Ve(mm³)	HCP4/HCP4A	HCP4	HCP4A
PQ20/16	0.605	37.4	62.0	2310	3500	1.16	0.93
PQ20/20	0.738	45.4	62.0	2790	3000	1.40	1.12
PQ26/15	0.296	36.2	122.0	4416	7200	2.21	1.77
PQ26/20	0.391	46.3	119.0	5490	5500	2.75	2.20
PQ30/20	0.338	49.3	145.8	7183	6500	3.60	2.95
PQ26/25	0.472	55.5	118.0	6530	4500	3.30	2.62

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RM 型磁芯　RM CORES

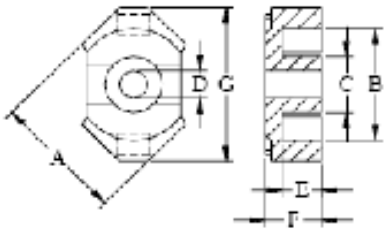

图 1 Fig.1

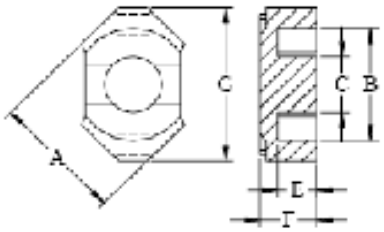

图 2 Fig.2

尺寸 Dimensions

型号 Type	形状 Shape	尺寸 Dimensions（mm）							重量 (克/付) W(g/set)
		A	B	C	D	E	F	G	
RM6	1	14.40± 030	12.65± 0.25	6.30± 0.10	3.00 +0.1/-0	4.30± 0.10	6.20± 0.10	17.60± 0.30	4.7
RM6	2	14.40± 0.20	12.65± 0.25	6.30± 0.10		4.30± 0.10	6.20± 0.10	17.60± 0.30	5.3
RM8	1	19.30± 0.40	17.30± 0.30	8.40± 0.15	4.50± 0.10	5.50± 0.10	8.20± 0.10	22.75± 0.45	10.9
RM8	2	19.30± 0.40	17.30± 0.30	8.40± 0.15		5.50± 0.10	8.20± 0.10	22.75± 0.45	12.0
RM10	2	24.15± 0.55	21.65± 0.45	10.70± 0.20		6.35± 0.15	9.30± 0.10	27.85± 0.65	22.0
RM12	2	29.20± 0.60	25.45± 0.55	12.60± 0.20		8.55± 0.15	12.25± 0.10	36.85± 0.75	42.0
RM14	2	34.15± 0.65	29.50± 0.50	14.75± 0.25		10.55± 0.15	15.05± 0.10	41.60± 0.60	70.0

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	形状 Shape	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz,100Ts, 25℃		Pc max (W) 100kHz,200mT, 100℃	
		C_1(mm⁻¹)	Le(mm)	Ae(mm²)	Ve(mm³)	HC-10	HCP4/ HCP4A	HCP4	HCP4A
RM6	1	0.86	26.9	31.3	840	8200	2400	0.42	0.34
RM6	2	0.78	28.6	36.6	1050	9000	2600	0.53	0.42
RM8	1	0.67	35.1	52.0	1840	12000	3000	0.93	0.74
RM8	2	0.59	38.0	64.0	2430	13000	3300	1.22	0.98

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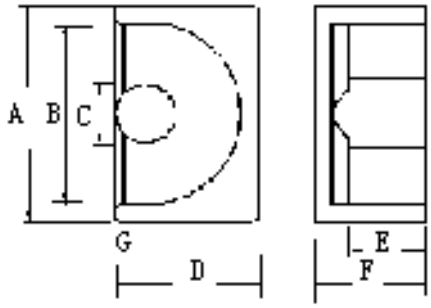
EP 型磁芯　EP CORES



尺寸 Dimensions

型号 Type	尺寸 Dimensions（mm）							重量 (克/付) W(g/set)
	A	B	C	D	E	F	G	
EP7	9.2±0.2	7.4±0.2	3.3±0.1	6.35±0.15	2.6±0.1	3.7±0.1	1.80	1.4
EP10	11.5±0.3	9.4±0.2	3.3±0.15	7.65±0.2	3.7±0.1	5.1±0.15	1.85	2.8
EP13	12.5±0.3	10.0±0.3	4.35±0.15	8.80±0.2	4.6±0.1	6.42±0.15	2.4	5.1
EP17	18.0±0.4	12.0±0.4	5.68±0.18	11.0±0.25	5.65±0.15	8.40±0.15	3.34	12

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L（nH/N²±25%） 1kHz，100Ts， 25℃				Pc max（W） 100kHz，200mT， 100℃	
	C_1(mm-1)	Le(mm)	Ae(mm²)	Ve(mm³)	HC-5	HC-7	HC-10	HCP4/ HCP4A	HCP4	HCP4A
EP7	1.52	15.7	10.3	162	2700	4000	5500	1100	0.081	0.065
EP10	1.70	19.2	11.3	217	2600	3600	4900	1000	0.11	0.088
EP13	1.24	24.2	19.5	472	3500	5000	7000	1370	0.24	0.191
EP17	0.84	28.5	33.9	966	5100	7100	10200	2220	0.48	0.39

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ET、 FT 型磁芯 ET&FT CORES

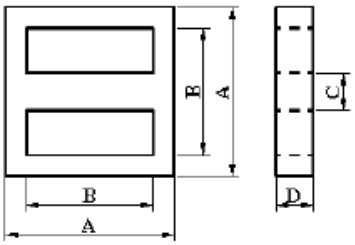

图 1 **Fig.1**

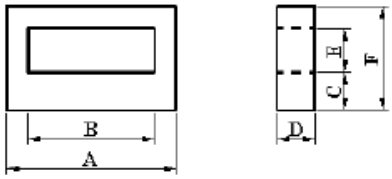

图 2 **Fig.2**

尺寸 Dimensions

型号 Type	形状 Shape	尺寸 Dimensions（mm）						重量 (克/付) W(g/set)
		A	B min	C	D	E min	F	
ET24	1	24.20±0.50	19.00	4.00±0.30	4.00±0.30			5.6
ET24B	1	24.20±0.50	19.00	4.00±0.30	4.50±0.30			6.0
ET28	1	28.45±0.55	22.20	5.00±0.30	5.00±0.30			9.6
ET35	1	35.30±0.60	26.80	7.50±0.30	7.50±0.30			25.0
FT20	2	20.60±0.30	15.70	4.20±0.20	4.60±0.20	7.35	14.10±0.30	3.8

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L (nH/N²±25%) 1kHz, 100Ts, 25℃		
	C_1（mm^{-1}）	Le(mm)	Ae(mm^2)	Ve(mm^3)	HC-7	HC-10	HC-15
ET24	3.46	60.8	17.5	1060	2500	3600	5400
ET24B	3.09	61.4	19.8	1220	2800	4000	6000
ET28	2.67	71.1	26.6	1890	3200	4700	7000
ET35	1.494	86.6	57.9	5020	5800	8300	12500
FT20	4.41	53.1	12.0	639	2100	2800	4200

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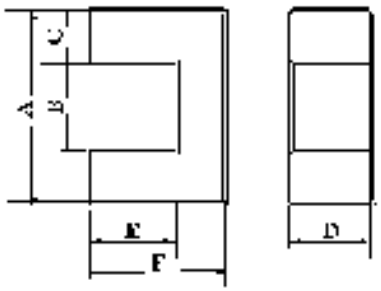
UF 型磁芯 UF CORES



尺寸 Dimensions

型号 Type	尺寸 Dimensions（mm）						重量 (克/付) W(g/set)
	A	B min	C	D	E	F	
UF9.8	9.80±0.20	4.00	2.80±0.15	2.75±0.20	4.25±0.15	7.10±0.15	1.3
UF10.5	10.50±0.30	5.20	2.50±0.20	5.00±0.30	5.40±0.20	7.90±0.20	2.5
UF16	16.00±0.30	6.70	4.60±0.20	6.00±0.20	6.00±0.15	10.00±0.20	6.5

有效参数及磁特性 Effective Parameter & Magnetic Characteristics

型号 Type	有效参数 Effective Parameter				A_L（nH/N²±25%） 1kHz，100Ts，25℃				Pc max (W) 100kHz, 200mT, 100℃	
	C_1（mm^{-1}）	le（mm）	Ae（mm^2）	Ve（mm^3）	HCP4/ HCP4A	HC-7	HC-10	HC-15	HCP4	HCP4A
UF9.8	4.50	34.3	7.61	261	480	1200	1600	2400	0.131	0.105
UF10.5	3.24	40.5	12.4	505	680	1600	2200	3300	0.253	0.203
UF16	1.98	51.3	26.0	1330	1100	2800	3600	5400	0.666	0.533

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环型磁芯 TOROIDAL CORES

尺寸及有效参数 Dimensions & Effective Parameter

型号 Type	尺寸 Dimensions（mm）			有效参数 Effective Parameter				重量 (克/付) W(g/set)
	A	B	C	$C_1(mm^{-1})$	Le(mm)	$Ae(mm^2)$	$Ve(mm^3)$	
H8/4/4	8.00±0.30	4.00± 0.30	4.00± 0.30	2.27	17.4	7.68	133	0.72
H9/5/5	9.10±0.30	5.10± 0.20	5.00± 0.20	2.14	20.8	9.7	202	1.0
H9.53/5.59/4.9	9.53±0.3	5.59± 0.25	4.9±0.25	2.4	22.	9.43	214	1.1
H10/6/5	10.00± 0.50	6.00± 0.40	5.00± 0.40	2.51	24.1	9.59	230	1.2
H12/6/4	12.00± 0.30	6.00± 0.30	4.00± 0.25	2.27	26.1	11.5	301	1.5
H12.7/7.9/7.5	12.70± 0.25	7.92± 0.25	7.50± 0.15	1.77	31.2	17.6	549	2.7
H14/7.5/7	14.00± 0.30	7.50± 0.30	7.00± 0.30	1.44	31.7	22.0	697	3.6
H14/7.5/7A	13.70± 0.30	7.90± 0.30	6.80± 0.30	1.68	32.8	19.2	620	3.2
H14/8/7	14.00± 0.40	8.00± 0.30	7.00± 0.30	1.62	32.8	20.3	665	3.5
H14/9/5	14.00± 0.40	9.00± 0.30	5.00± 0.30	2.89	35.0	12.1	423	2
H15.8/12/8	15.80± 0.20	12.00± 0.20	8.00± 0.20	2.85	43.1	15.1	651	3.3
H16/12/8	16.00± 0.20	12.00± 0.20	8.00± 0.20	2.77	43.4	15.7	680	3.4
H16/9/7	16.0±0.30	9.00± 0.30	7.00± 0.30	1.56	37.2	23.8	964	4.2

东莞市石碣昊磁电子厂 Hao Ci Electronics co.,ltd TEL：0769-23200392 FAX0769-86287151 13310813681 肖生

H16/9.6/8	16.00±0.30	9.60±0.30	8.00±0.30	1.54	38.5	25.1	964	4.6
H18/8/5	18.00±0.50	8.00±0.40	5.00±0.40	1.56	36.7	23.5	861	4.9
H18/10/10	18.00±0.50	10.00±0.40	10.00±0.40	1.07	41.5	38.9	1610	8.6
H18/12/8	18.00±0.50	12.00±0.40	8.00±0.30	1.94	45.8	23.7	1090	5.8
H20/10/10	20.0±0.40	10.0±0.30	10.0±0.30	0.91	43.5	48.0	2090	11
H22/14/10	22.00±0.40	14.00±0.40	10.00±0.30	1.39	54.7	39.3	2150	11
H25/15/10	25.00±0.50	15.00±0.50	10.00±0.30	1.23	60.2	48.9	2944	15
H25/15/12	25.00±0.50	15.00±0.50	12.00±0.30	1.03	60.2	58.5	3520	18
H28/19/12	28.0±0.50	19.0±0.50	12.0±0.30	1.35	72	53.3	3840	19.2
H29/19/15	29.00±0.60	19.00±0.40	15.00±0.50	0.99	73.2	73.9	5409	27
H31/19/15	31.00±0.60	19.00±0.40	15.00±0.50	0.86	75.5	88.2	6660	34
H36/23/15	36.0±0.6	23.0±0.5	15.0±0.4	0.94	90.0	95.6	8590	42
H38/22/14	38.00±1.00	22.00±0.80	14.00±0.50	0.82	89.7	109.3	9802	50
H47/27/13	47.00±1.10	27.00±0.80	13.00±0.50	0.87	110.5	126.7	14002	72
H50/25/15	50.0±1.1	25.0±0.8	15.0±0.6	0.45	109	240	26100	101
H58/32/18	58.3±1.1	32.0±0.8	18.0±0.6	0.58	134	230	30700	155
H60/40/25	60.0±1.1	40.0±0.8	25.0±0.5	0.62	153	247	37700	190
H68/44/15	68.00±1.50	44.00±1.00	15.00±0.50	0.96	170.5	177.2	30209	152
H124/60/40	122.50±2.50	60.00±2.00	40.00±2.50	0.226	289	1280	370000	1520

东莞市石碣昊磁电子厂 Hao Ci Electronics co.,ltd TEL：0769-23200392 FAX0769-86287151 13310813681 肖生

磁特性 Magnetic Characteristics

型号 Type	A_L (nH/N²±25) 1kHz,100Ts, 25℃					Pc max (W) 100kHz,200mT, 100℃	
	HC-5	HC-7	HC-10	HC-15	HCP4/HCP4A	HCP4	HCP4A
H8/4/4	2770	4150	5550	8000	1350	0.07	0.055
H9/5/5	3000	4000	5700	8500	1300	0.10	0.08
H9.53/5.59/4.9	2610	3660	5230	7840	1200	0.11	0.09
H10/6/5	2550	3500	5100	7600	1100	0.12	0.096
H12/6/4	2750	3850	5500	8200	1200	0.15	0.12
H12.7/7.9/7.5	3570	4800	6900	10300	1500	0.28	0.224
H14/7.5/7	4360	6540	8720	13000	1900	0.35	0.28
H14/7.5/7A	3740	5240	7490	11230	1720	0.31	0.25
H14/8/7	3900	5500	7800	11700	1700	0.34	0.27
H14/9/5	2170	3060	4340	6400	960	0.20	0.16
H15.8/12/8	2200	3080	4400	6600	1010	0.33	0.26
H16/12/8	2270	3200	4540	6700	1010	0.34	0.272
H16/9/7	4030	5640	8060	12080	1850	0.48	0.39
H16/9.6/8	4000	5600	8100	12000	1800	0.48	0.384
H18/8/5	4050	5700	8100	12000	1800	0.44	0.352
H18/10/10	5880	8200	11000	16000	2600	0.80	0.64
H18/12/8	3240	4540	6490	9730	1490	0.55	0.44
H20/10/10	6930	9700	13860	20790	3190	1.05	0.84
H22/14/10	4500	6300	9000	13500	2000	1.1	0.88
H25/15/10	5100	7100	10200	15000	2200	1.5	1.2
H25/15/12	6100	8600	12300	18000	2700	1.76	1.4
H28/19/12	4650	6510	9300	13960	2140	1.92	1.536
H29/19/15	6340	8900	12700	19000	2800	2.7	2.16
H31/19/15	7300	10300	14700	22000	3200	3.4	2.72
H36/23/15	6720	9400	13440	20160	3090	4.30	3.44

东莞市石碣昊磁电子厂 Hao Ci Electronics co.,ltd TEL：0769-23200392 FAX0769-86287151 13310813681 肖生

H38/22/14	7650	10700	15300	22900	3400	4.9	3.9
H47/27/13	7200	10100	14400	21000	3200	7.0	5.6
H50/25/15	10400	14550	20790	31190	4780	13.05	10.44
H58/32/18	10700	14990	21400	32110	4920	15.35	12.28
H60/40/25	10140	14200	20270	30410	4660	18.85	15.08
H68/44/15	6500	9100	13000	19000	2900	15.1	12.1
H124/60/40					12800	7.4*	

Pcv_{max}：25kHz，100mT，100℃（*）

材料牌号对照表 Material brands Comparision Table

与我公司 CP、CH 材料系列性能和用途相对应的国外主要厂商材料牌号参见下表。
Shown below are the material brands of main international manufacturers,which characteristic and application scope correspond to those of our CP and series.

厂商 Manufacturers	材料牌号 Material Brands							
HAOCI	HCP4	HCP4A	HC-5D	HC-5	HC-7	HC-10	HC-12	HC-15
TDK	PC40	PC44	DN50	H5B / HS52	H5B2 / HS72	H5C2 / HS10	H5C4	H5C3
FDK	6H20	6H40		2H06	2H07	2H10		2H15
TOKIN	BH2	BH1	5000B	6000H	7000H		12001H	
HITACHI	ML24D	ML25D		MQ53D	MP70D	MP10T		MP15T
NICERA	NC-2H	2HM5		NC-5Y	NC-7	NC-10H		
KAWATETSU	MB3	MB4		MA055	MA07A	MA100		
SAMWHA	PL-7	PL-9		SM-50	SM-70S	SM-100 / SM-100T		SM-150
FERROXCUBE	3C90 / 3C94	3C96 / 3F3		3E4	3E25 / 3E27	3E5 / 3E55	3E6	3E7
EPCOS	N67 / N87	N97		T35	T37	T38	T42	T46
AVX/TPC	F1	F2		A4 / A5	A3	A2	A1	A0

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