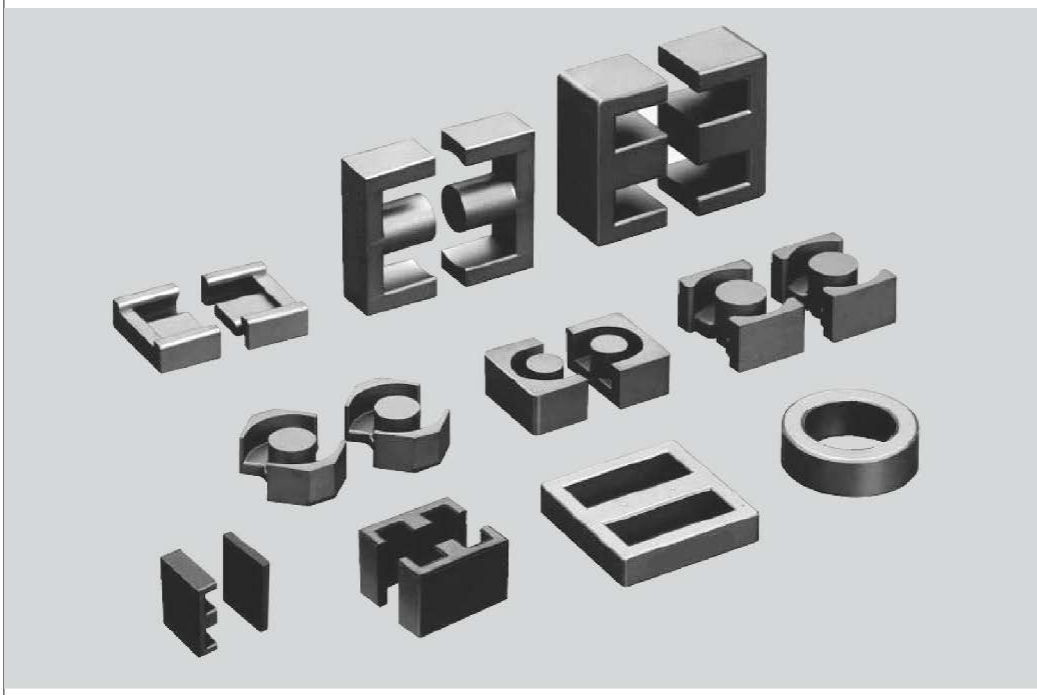
JSF

锰锌软磁铁氧体

Mn-Zn Soft Ferrite



南京海天金宁三环电子有限公司

NANJING HAITIAN JINNING SANHUAN CO., LTD

南京海天金宁三环电子有限公司(HJS)，是由中钢天源股份有限公司、南京金宁电子集团有限公司（前身为国营第八九八厂）、北京中科三环高技术股份有限公司合资成立的软磁铁氧体专业制造厂商。HJS继承了金宁近四十年的软磁铁氧体生产经验积淀和人才资源，借助了中科三环雄厚的资金实力和业界声誉，特别是全面引入了中钢天源先进的研发、制造技术及科学的管理模式，成为现时中国大陆规模较大、实力较强的软磁铁氧体制造厂商之一。

“JSF”品牌产品涵盖了软磁铁氧体的所有主要材料品种－Mg-Zn、Mn-Zn及Ni-Cu-Zn系列，计几十种材料牌号和上千种磁芯规格。这些产品制成的各种电子变压器和线圈，被广泛应用于电脑及其 外部设备、移动通信、互联网、汽车、绿色能源、OA设备、LCD、HID等家用视听装置、电磁兼容、绿色照明、工业和医疗仪器及汽车、新能源等领域。除了磁芯产品外，HJS还向顾客提供可直接用于成型的铁氧体颗粒料。

本产品目录汇编了HJS的铁氧体材料及磁芯的产品数据，供您在选用时参考。

Nanjing Haitian Jinning Sanhuan Co., Ltd.(HJS) is a large scale manufacture of soft ferrites, which is a joint venture of Sinosteel Tianyuan Co., Ltd，Jingning Electronic Group., Ltd (former state-owned No.898 Factory), Beijing Zhongke Sanhuan Hi-tech Co., Ltd. HJS has inherited Jingning's nearly 40 years' rich experiences on soft ferrite manufacturing and its superiority on human resources, with the backup of Zhongke Sanhuan's abundant capital and good prestige in industry, especially after the fully introduction of Sinosteel Tianyuan's strong R&D support, advanced manufacturing technology and scientific management system, HJS is now one of the largest and strongest soft ferrite manufacture in Chinese mainland.

“JSF” production has covered almost all series of soft ferrite materials: Mg-Zn, Mn-Zn and Ni-Cu-Zn, with dozens of material brands and hundreds of core specifications available. Varieties of transformers and windings made of our products are widely used in areas of computer and its periphery device, communication, internet, automobile，green energy sources，office automation, LCD、HID etc. domestic AV devices, EMC, green lighting, industries, medical treatment instruments, automobile electronics，new energy sources and so on. Besides ferrite cores, HJS also provides its customers ferrite pellets which can be directly used to be formed into ferrite cores.

This manual is a corpus of data of soft ferrite products manufactured by HJS. Take your time to refer to it when selecting our products. Your inquires about related technical and commercial questions are always welcome.

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)

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. 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)

2. Effective permeability, μe

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

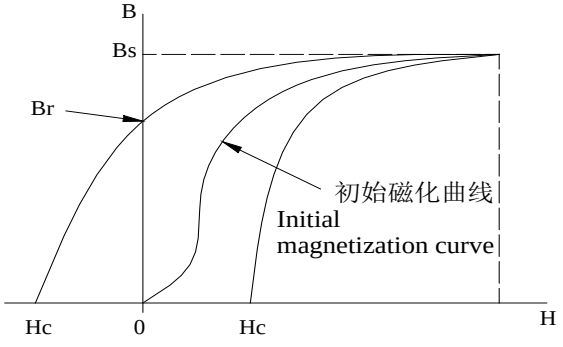
Le: effective magnetic path length (m)

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

3. 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）



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. 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 l。

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)

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：

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

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 $\alpha_{\mu r}$ (1/K)

温度系数和磁导率之比，即：

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

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:

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

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:

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

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。

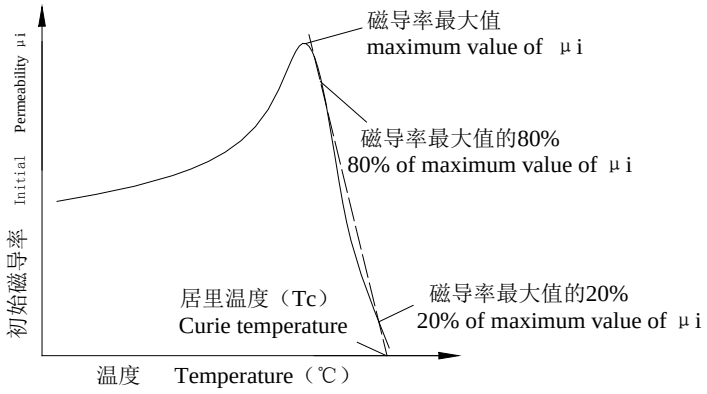


图 2（Fig 2）

11. Curie temperature, Tc

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

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. 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

13. Electrical resistivity , ρ (Ω/m)

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

14. 密度 d (kg/m^3)

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)

14. Density, d (kg/m^3)

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. 功率损耗 Pc (kW/ m^3、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)

f ：为频率 (Hz)

N ：为线圈匝数

Ae ：为有效截面积 (m^2)

15. Power loss Pc (kW/ m^3、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.

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

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

17. 磁滞损耗常数 η B

磁滞损耗常数 η B 是材料在单位磁滞回路中的功率损耗,不受磁路中的气隙量的变化的影响.可用下式计算:

$$\eta B = \tan\delta\ h / (u_e \cdot \triangle B)$$

17. Hysteresis material constant η B

For the hysteresis material constant η B we obtain:

$$\eta B = \tan\delta\ h / (u_e \cdot \triangle B)$$

The hysteresis material constant, η B ,characterizes the material-specific hysteresis losses and is a quantity independent of the air gap in a magnetic circuit.

材料介绍：

HJS猛锌铁氧体材料共包括下列四大类：

6H系列：用作各类开关电源变压器及扼流圆磁芯材料。

7H系列：用作500kHz以上频率的开关电源变压器及扼流捆磁芯材料。

4H系列：用作照明、汽车电子及LCD背光电源变压器磁芯材料。

2H系列：用作共模噪声滤波器及通信设备用脉冲变压器磁芯材料。

Introduction of HJS Ferrite materials:

HJS Ferrite materials are classified into the following four kinds:

6H series : Core materials for various switching power supply transformers and chokes.

7H series : Core materials for switching power supply transformers and chokes with frequency above 500kHz.

4H series : Core materials for lighting and automobile electronic components and LCD backlight inverters.

2H series : Core materials for common-mode filter and pulse transformers used in communication devices.

标准材质6H系列

6H系列功率材质，具有低磁芯损耗、高饱和磁通密度的特点，广泛应用千各类开关电源变压器以及 扼流圈中。6H20材质性能优、价格低、应用广，是出色的标准材质。与6H20相比，6H10在室温下具有更高磁导率，主要适用千开关频率在100KHz以内的各类电源变压器和扼流圈。

近年来HJS根据市场对数字化、便携化的需求，成功的开发了磁芯损耗低千6H20的材质的高饱和磁通密度的新材质6H40。6H40材质磁芯损耗比6H20低约25%，适用千对温升控制严格的薄型小型电子设备（如笔记本电脑电源、AC/DC适配器等）用变压器、扼流圈。

工作温度在80°C的低损耗材料6H41及50°C的6H42(6H40在100°C)，该类材料最低损耗点与变压器的工作温度相一致，可将变压器有效控制在较低温度状态下工作，从而可提高变压器的工作效率，减小变压器的体积，被广泛用千各类小型化的便携式电子设备领域。

用于汽车电子材料的6H45材料相比6H40材料磁芯损耗减小了10%，现已开始量产。

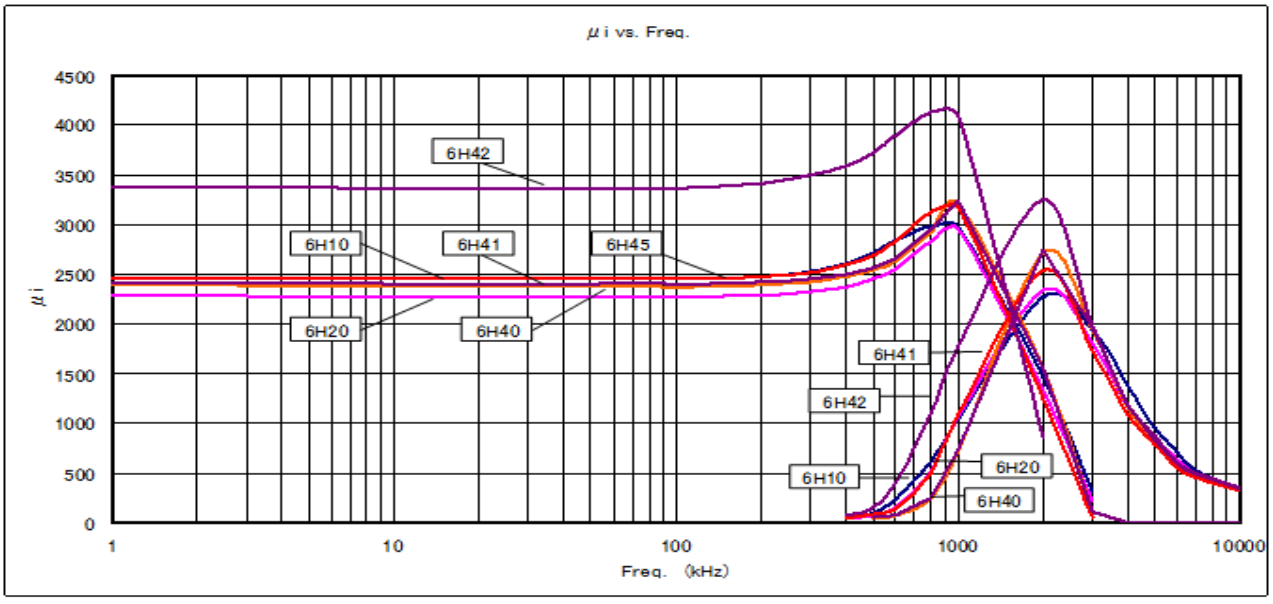
Standard materials: 6 H series

6H series are JSF's standard power material with low core loss and high saturation flux density, and are suitable for wide range of transformers and choke coils for switching power supply.6H20 is standard material with superior characteristics and high performance-cost ratio. 6Hl O has higher permeability than 6H20 in room temperature, and is suitable for switch-mode transformers and chokes with working frequency below 100kHz.

Additionally, HJS has developed new materials with lower core loss and higher magnetic flux density, which satisfies latest requirements of digital and mobile electronics.Core loss of new 6H40 material is around 25% lower than that of standard 6H20, and is suitable for transfom记rs and choke coils for flat, low profile power supplies and AC/DC adaptors of electronic equipments(such as notebook PC), which strictly require low temperature rise.

For transformers and choke coils of mobile electronic equipments, JSF has developed 6H41 material (bottom temperature of core loss curve 80°C) and 6H42(bottom temperature 50°C), which enables low operation temperature of transformers while reducing the volume of transformers and improving the efficiency of transformers.

What's more, 6H45 material with core loss 10% lower than that of 6H40 is also in lineup of HJS.



- 低损耗铁氧体材料 1　Low loss ferrite materials 1

特性 **Characteristics**	符号 **Symbol**	单位 **Unit**		**6H10**	**6H20**	**6H40**
初始磁导率 Initial permeability	μi			2500±25%	2300±25%	2400±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$		< 5	—	< 3
饱和磁通密度 Saturation flux density	Bs	mT	25℃	510	510	530
			100℃	390	390	430
				(1000A/m)	(1000A/m)	(1000A/m)
剩磁 Remanence	Br	mT		130	130	110
矫顽力 Coercivity	Hc	A/m		13	13	10
功率损耗 Power loss (f=25kHz,B=200mT)	Pc	kW/m^3	25℃	—	—	90
			40℃	—	—	75
			60℃	65	80	60
			80℃	55	65	50
			100℃	80	55	40
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	kW/m^3	25℃	—	—	650
			40℃	—	—	550
			60℃	450	550	450
			80℃	400	450	350
			100℃	500	400	300
			120℃	—	—	325
居里温度 Curie temperature	Tc	℃		＞200	＞200	＞200
电阻 Resistivity	ρ	Ω • m		3	3	2
密度 Density	d	$kg/m^3 \times10^3$		4.8	4.8	4.9

注：如无说明，各项数值均系用环型磁芯在室温下测得。

Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

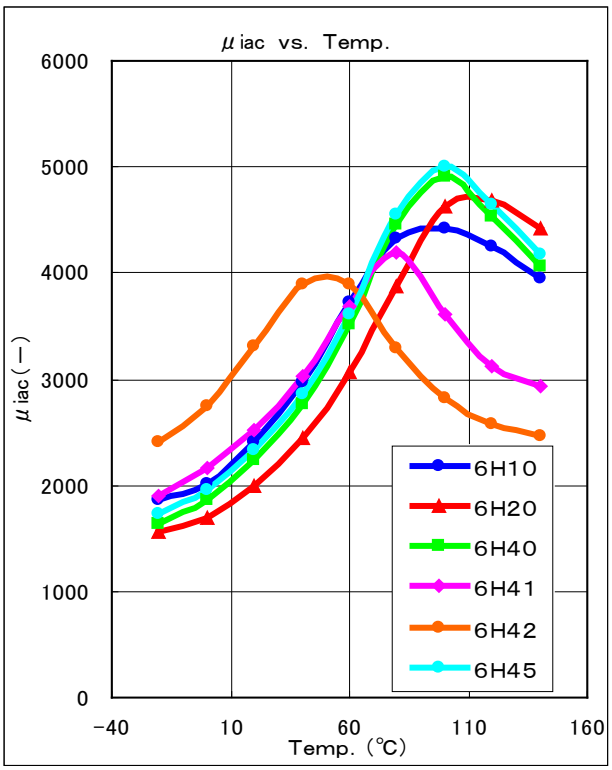
- 低损耗铁氧体材料 2 Low loss ferrite materials 2

特性 Characteristics	符号 Symbol	单位 Unit		6H41	6H42	6H45
初始磁导率 Initial permeability	μi			2500±25%	3400±25%	2400±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$		< 3	< 3	< 3
饱和磁通密度 Saturation flux density	Bs	mT	25℃	530	530	530
			100℃	430	430	430
				(1000A/m)	(1000A/m)	(1000A/m)
剩磁 Remanence	Br	mT		110	110	105
矫顽力 Coercivity	Hc	A/m		10	10	9
功率损耗 Power loss (f=25kHz,B=200mT)	Pc	kW/m^3	25℃	75	60	85
			40℃	60	50	70
			60℃	50	40	55
			80℃	40	45	45
			100℃	45	55	35
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	kW/m^3	25℃	550	450	550
			40℃	450	350	500
			60℃	350	300	400
			80℃	300	325	300
			100℃	325	375	270
			120℃	—	—	320
居里温度 Curie temperature	Tc	℃		＞200	＞200	＞200
电阻 Resistivity	ρ	Ω • m		2	2	2
密度 Density	d	$kg/m^3\times10^3$		4.9	4.9	4.9

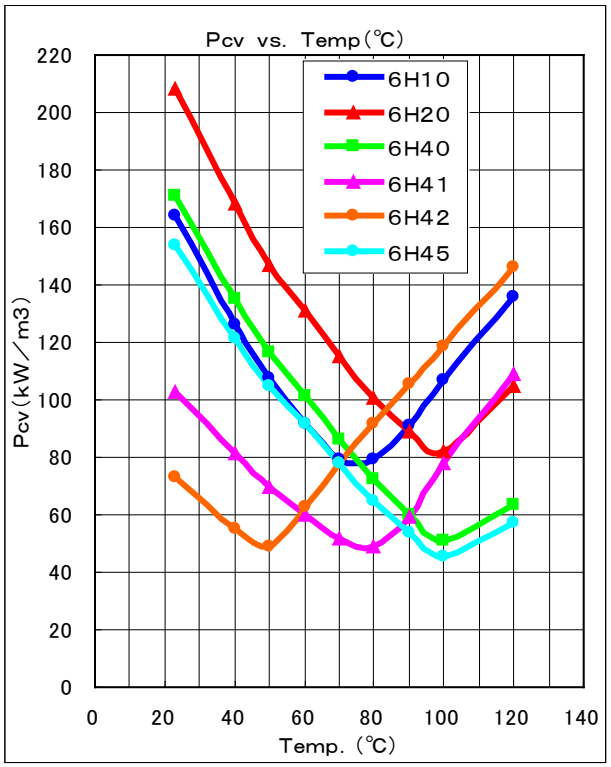
注：如无说明，各项数值均系用环型磁芯在室温下测得。

Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

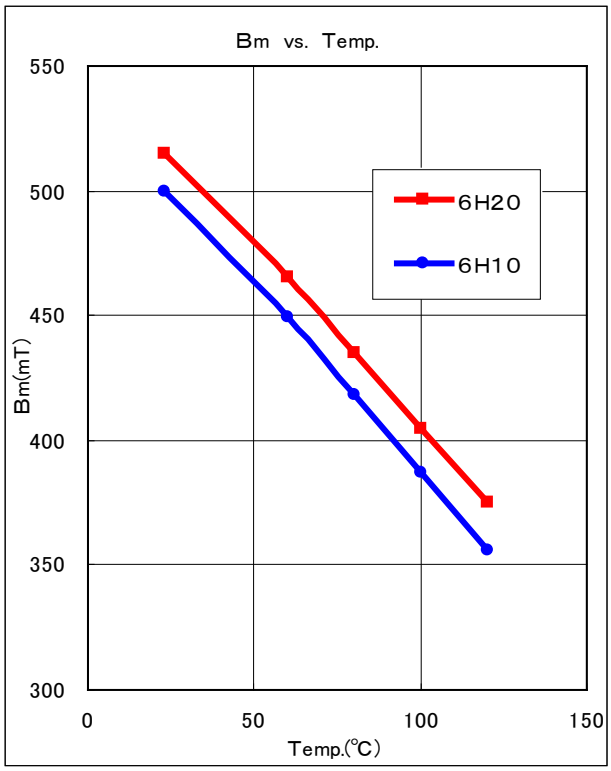
μ iac vs. Temp



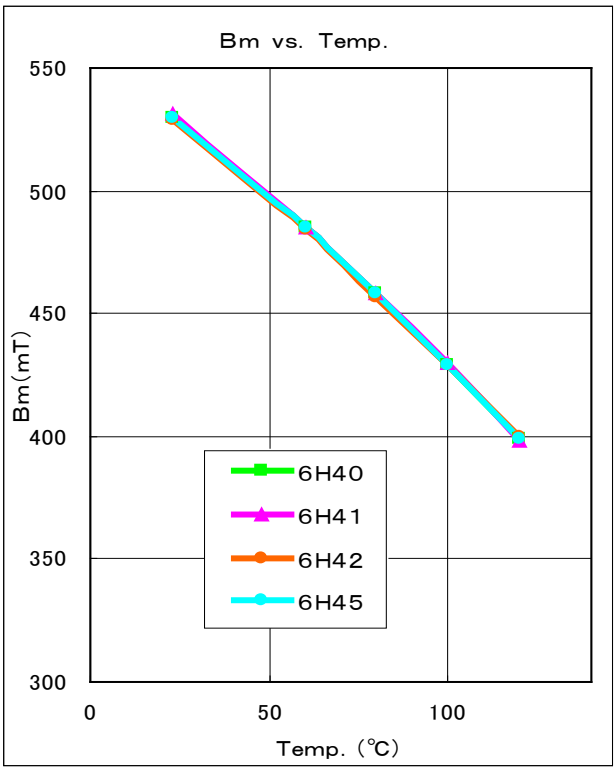
Pcv vs. Temp



Bm vs. Temp

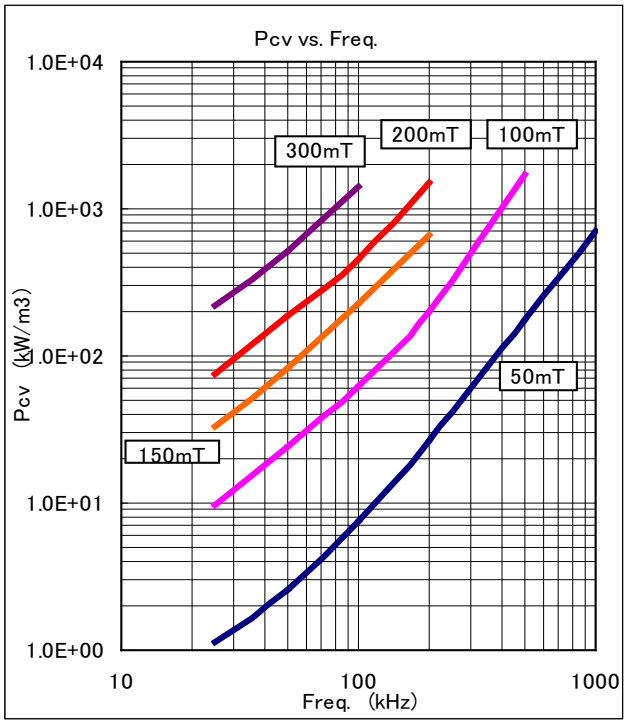


Bm vs. Temp

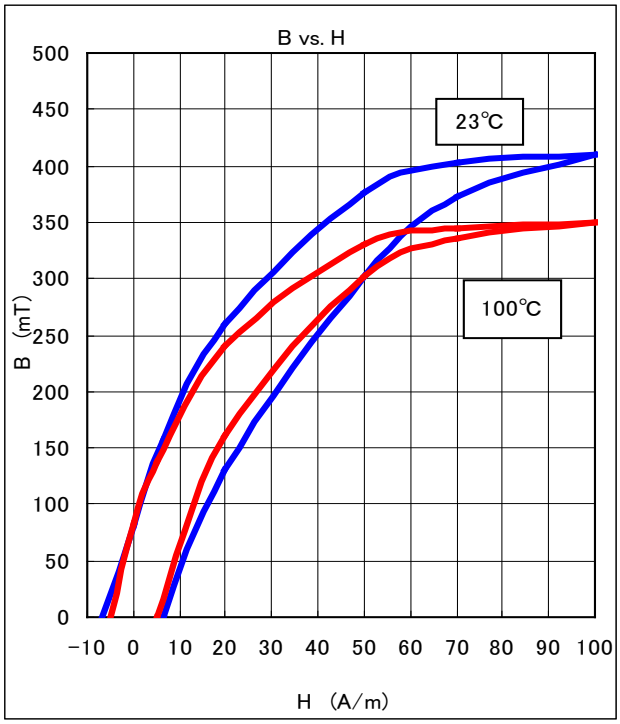


＜6H10＞

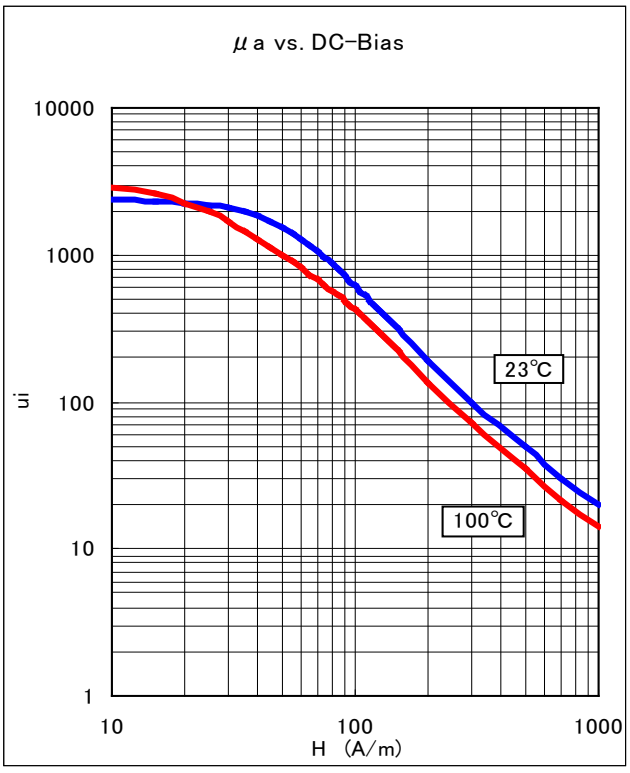
Pcv vs. Freq



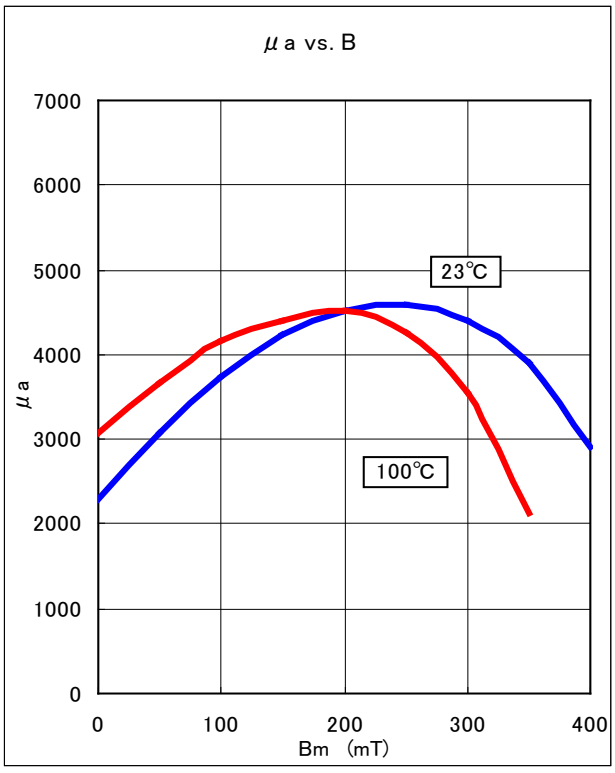
B vs.H



μa vs.DC-Bias

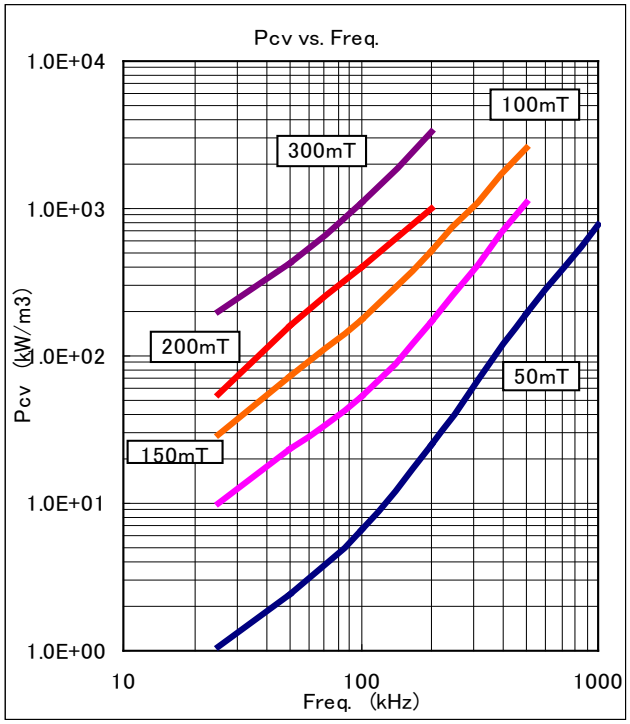


μa vs. B

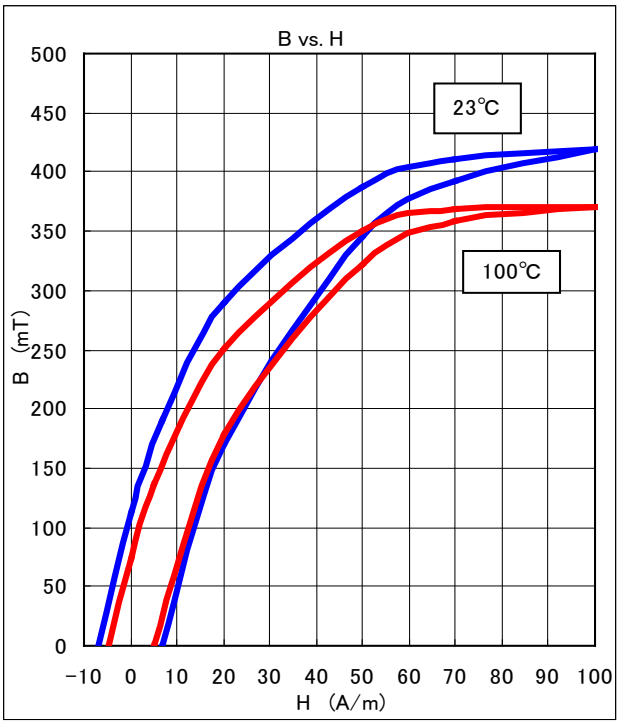


＜6H20＞

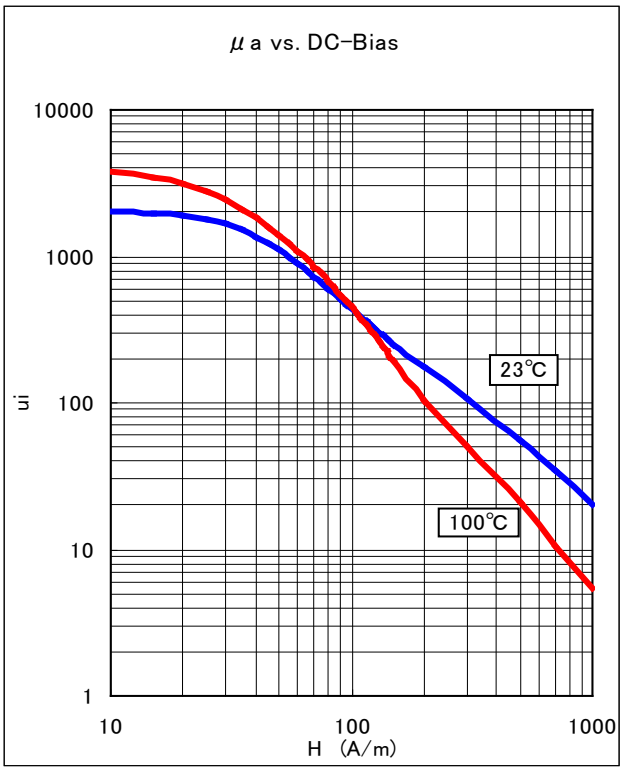
Pcv vs. Freq



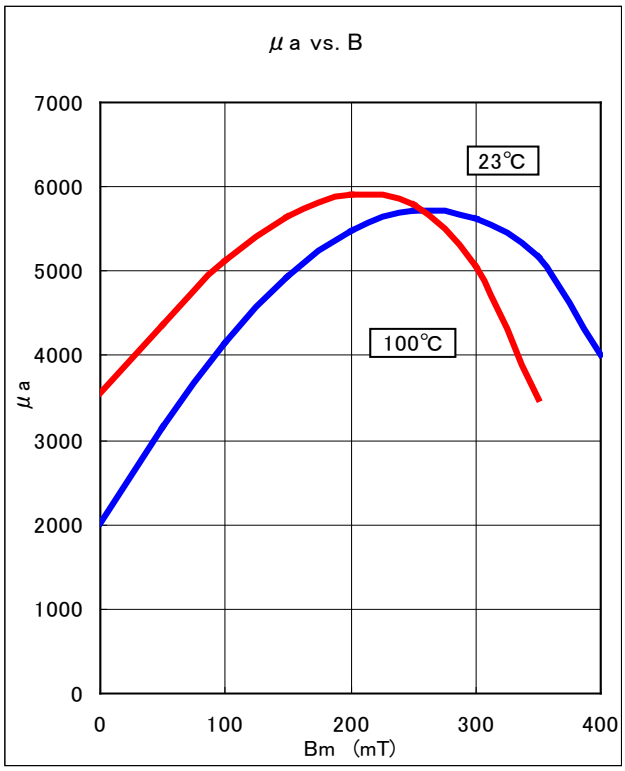
B vs.H



μa vs.DC-Bias

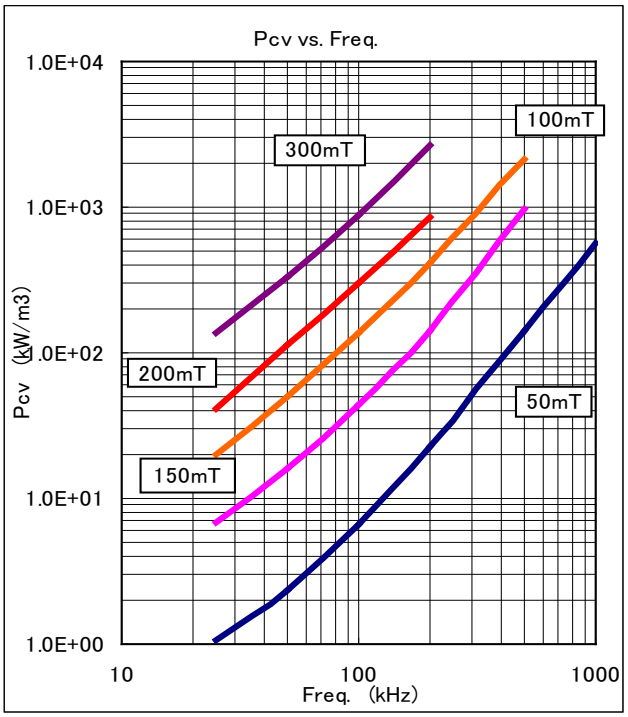


μa vs. B

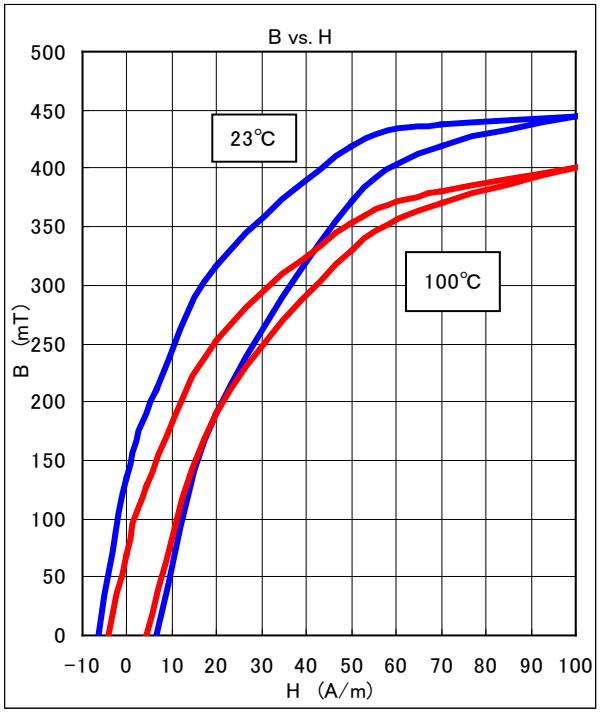


＜6H40＞

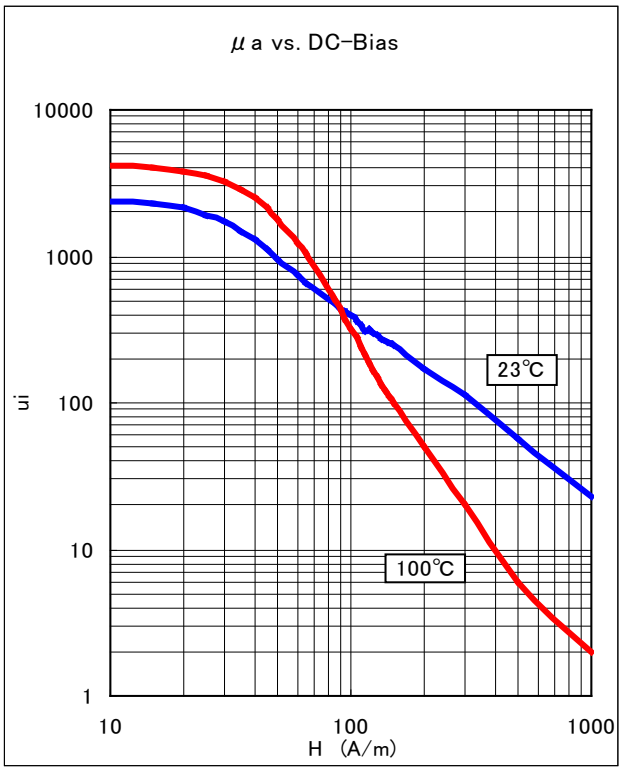
Pcv vs. Freq



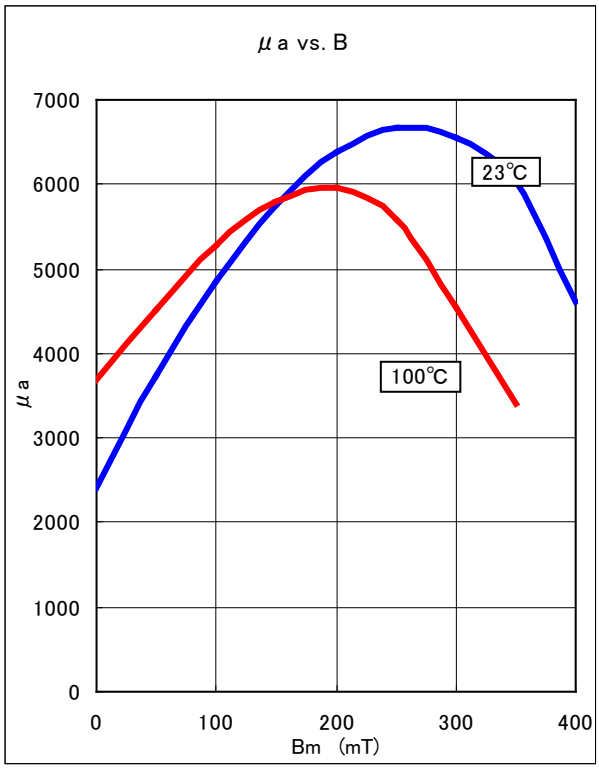
B vs.H



μa vs.DC-Bias

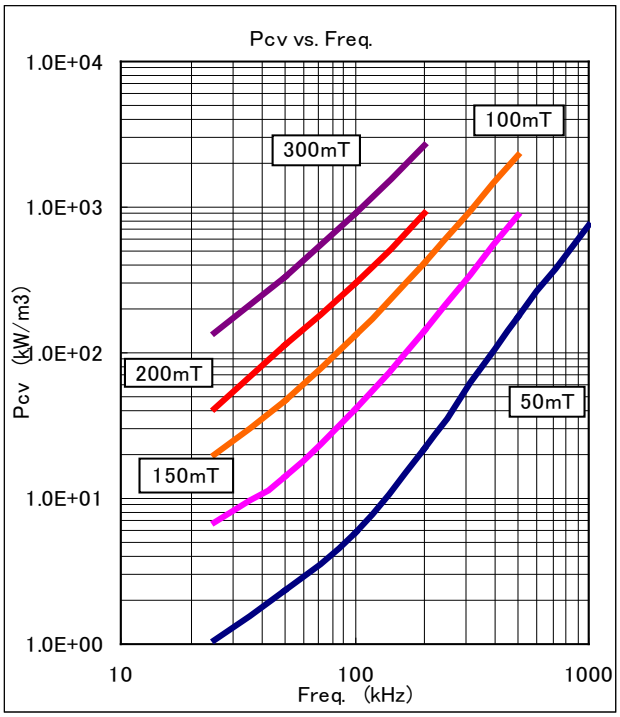


μa vs. B

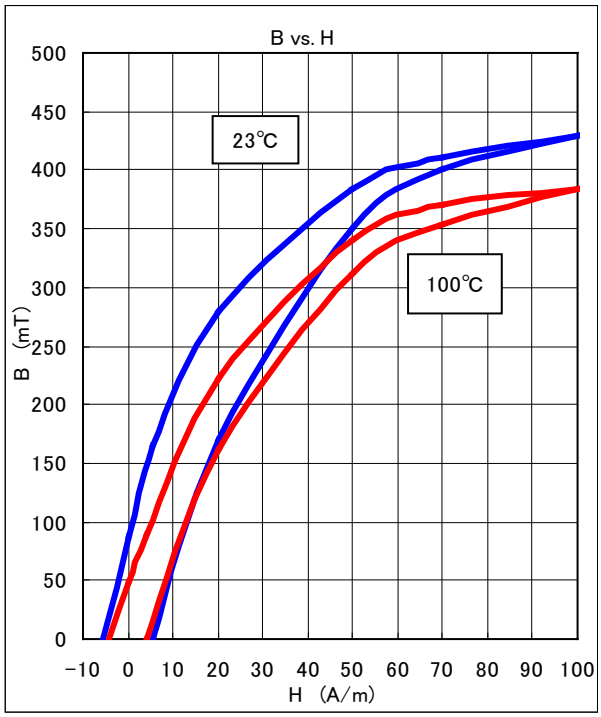


＜6H41＞

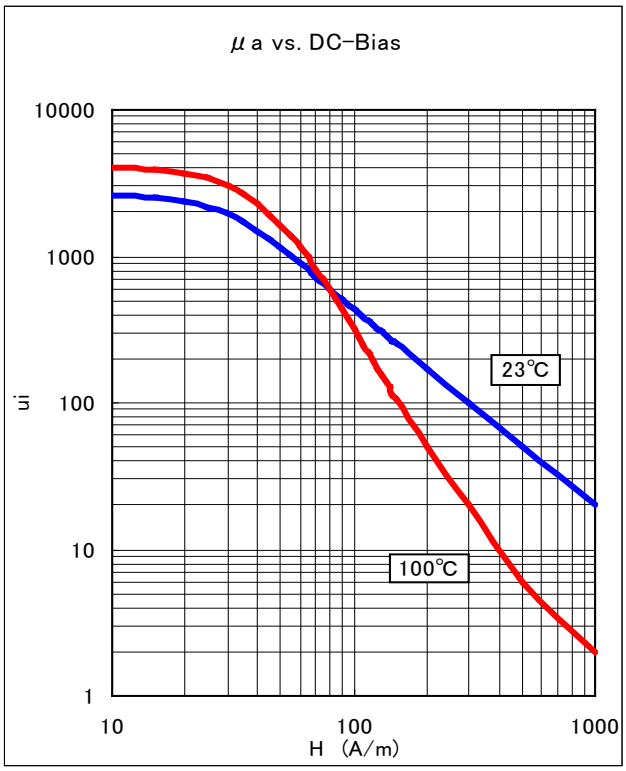
Pcv vs. Freq



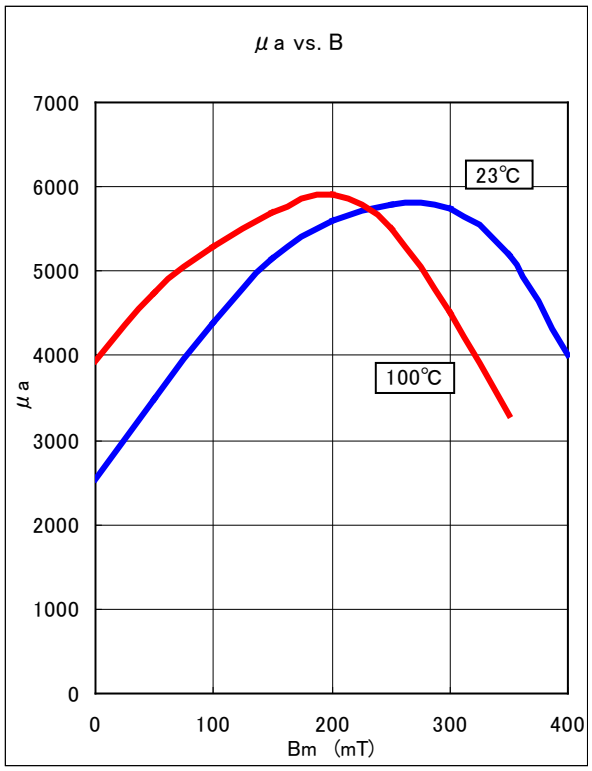
B vs.H



μa vs.DC-Bias

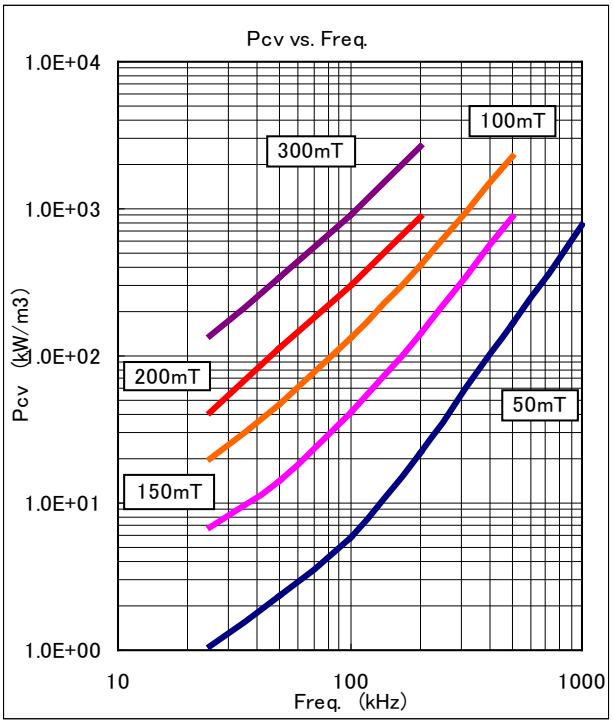


μa vs. B

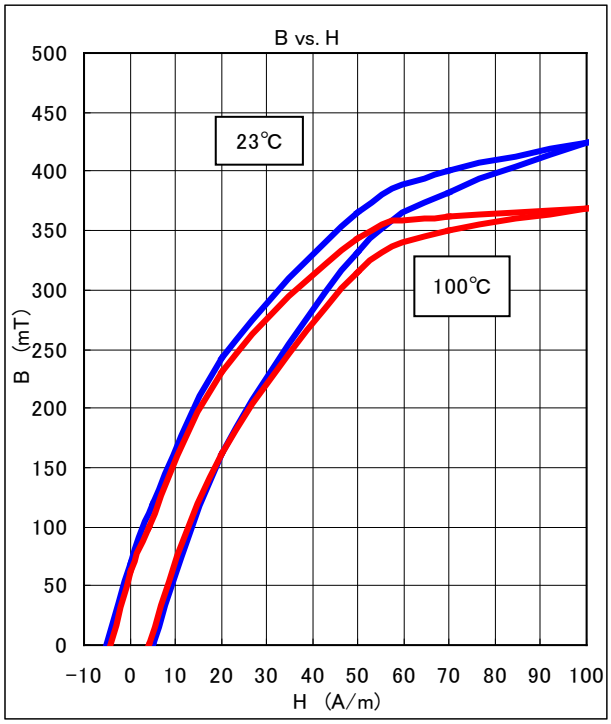


＜6H42＞

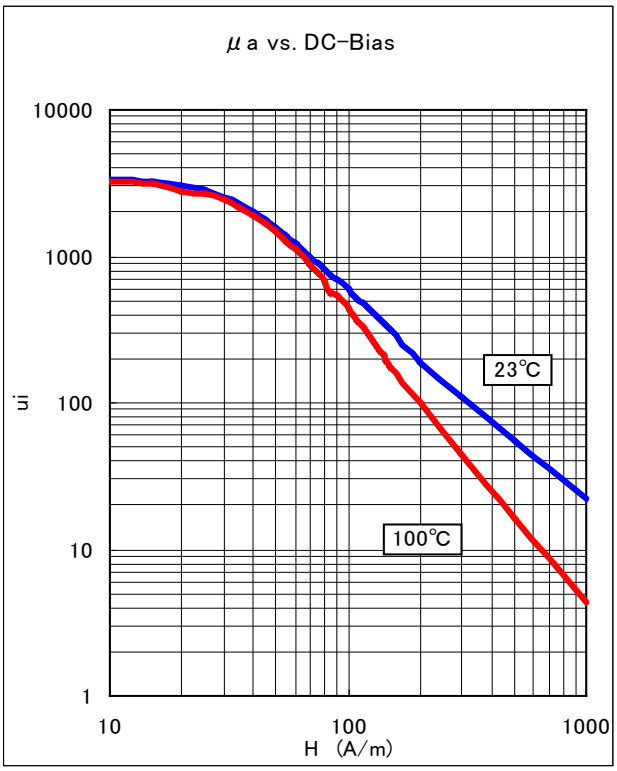
Pcv vs. Freq



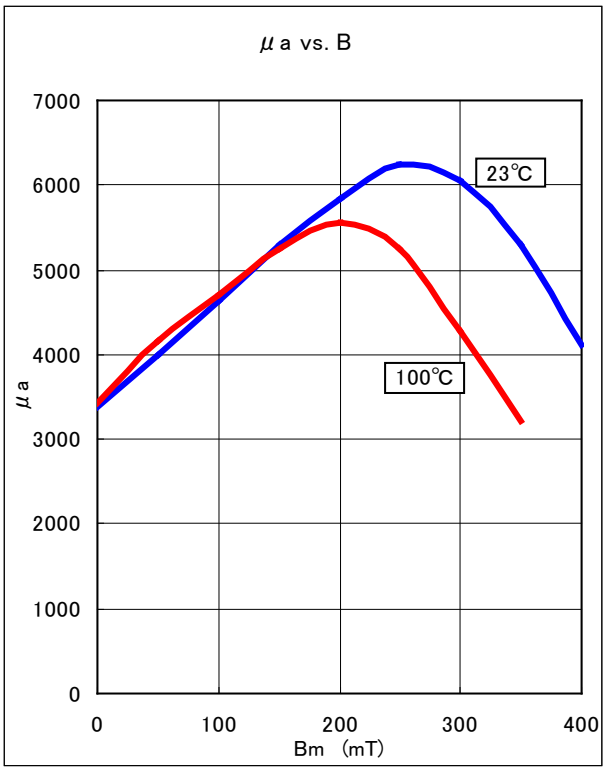
B vs.H



μa vs.DC-Bias

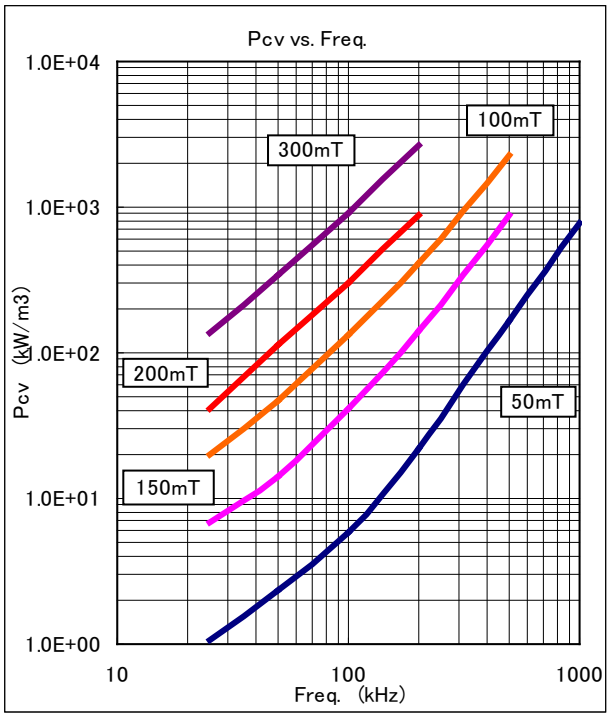


μa vs. B

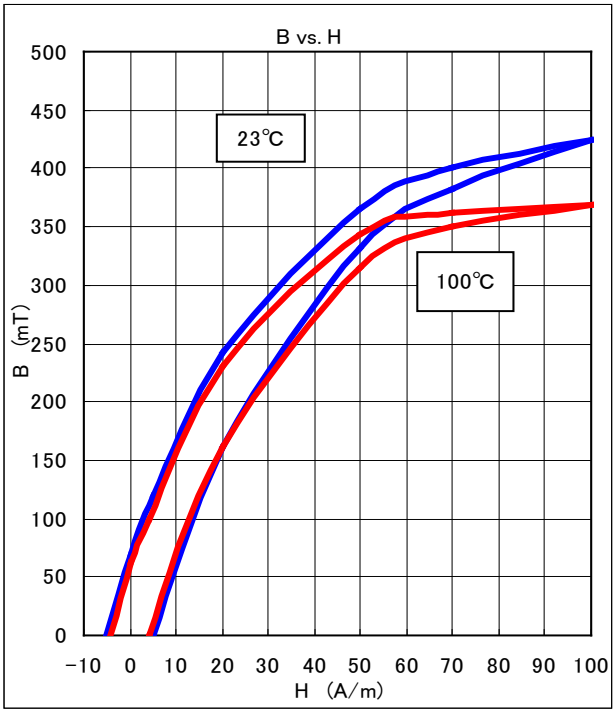


＜6H45＞

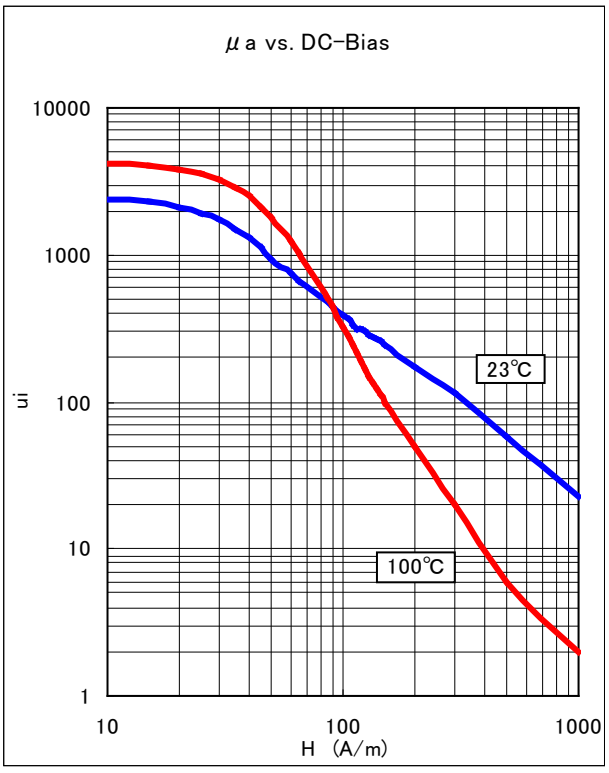
Pcv vs. Freq



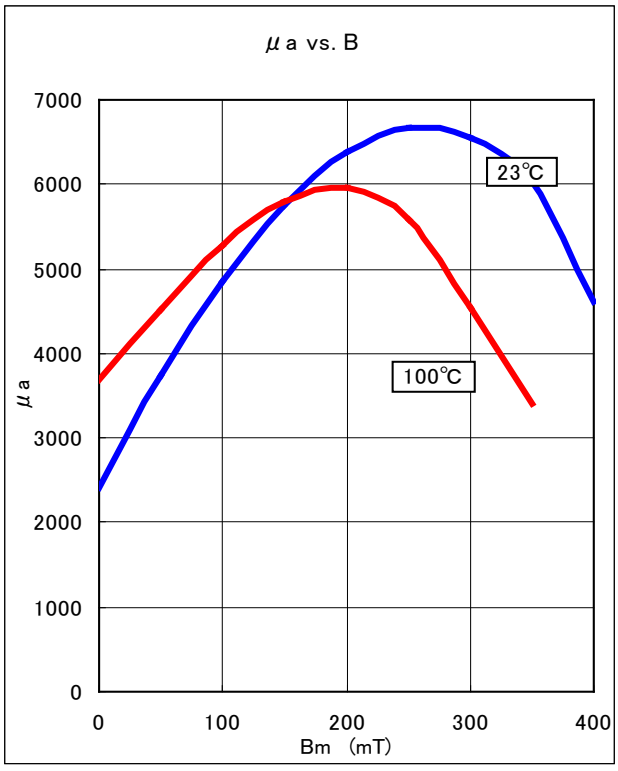
B vs.H



μa vs.DC-Bias



μa vs. B



宽温、低损耗铁氧体材料 6H60

在汽车装载用电源、屋外设置电源等的运用中，为了使其可以在多种多样的温度条件下使用，就要求对材质 在宽温度范围内综合效率的方面进行改善。

为了应对上述要求，开发了宽温度范围低损耗材料 "6H60" 。

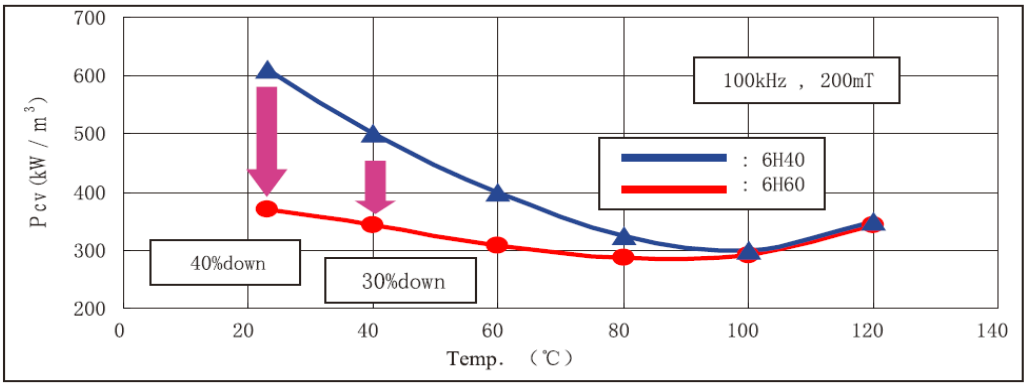
Wide temperature / low loss ferrite materials 6H60

In the usages such power supplies for car and the outdoor installation power supplies, the transformer is used under various temperature conditions, so the integrated efficiency improvement in the wide temperature range is demanded.

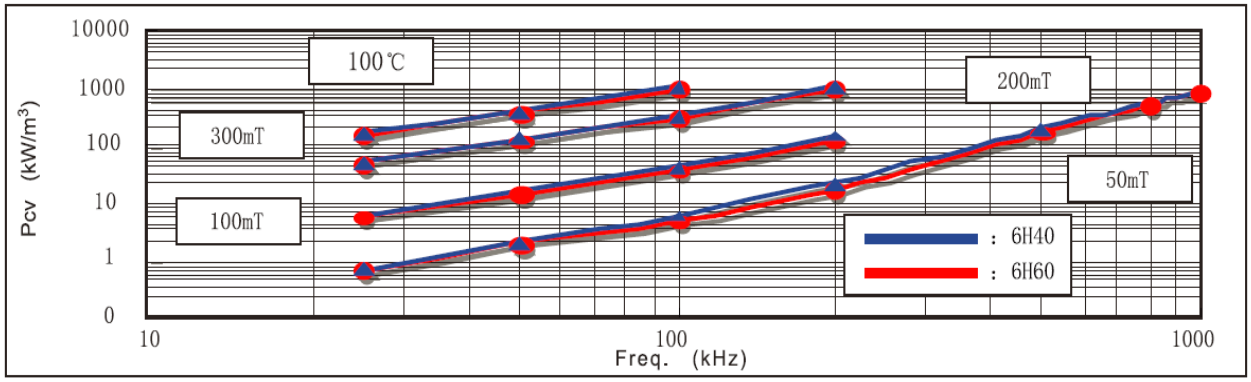
To satisfy above demand, we develop the new Mn-Zn ferrite material which the temperature change of core loss is small by the wide temperature range.

特性	符号	条件	单位	6H20	6H40	6H45	6H60
初始磁导率	μ iac	0. 1MHz	—	2300	2400	2400	3000
饱和磁通密度	Bs	23℃	mT	510	530	530	540
	(1000A/m)	100℃		390	430	430	430
剩磁	Br	23℃	mT	130	110	105	90
矫顽力	Hc	23℃	A/m	13	10	9	8
相对损耗因数	tanδ/μ iac	0. 1MHz	$\times10^{-6}$	＜5	＜3	＜3	＜3
功率损耗	Pcv (100KHz—200mT	23℃	kW/m³	—	650	550	350
		40℃		—	550	500	320
		60℃		550	450	400	300
		80℃		450	350	300	280
		100℃		400	300	270	290
温度因数	α μ r	20~80℃	$\times10^{-6}$	8	8	7	1
居里温度	Tc	—	℃	＞200	＞200	＞200	＞200
电阻	ρ	—	Ω·m	3	2	2	2
密度	d	—	$kg/m^3\times10^{-3}$	4. 8	4.9	4.9	4.9

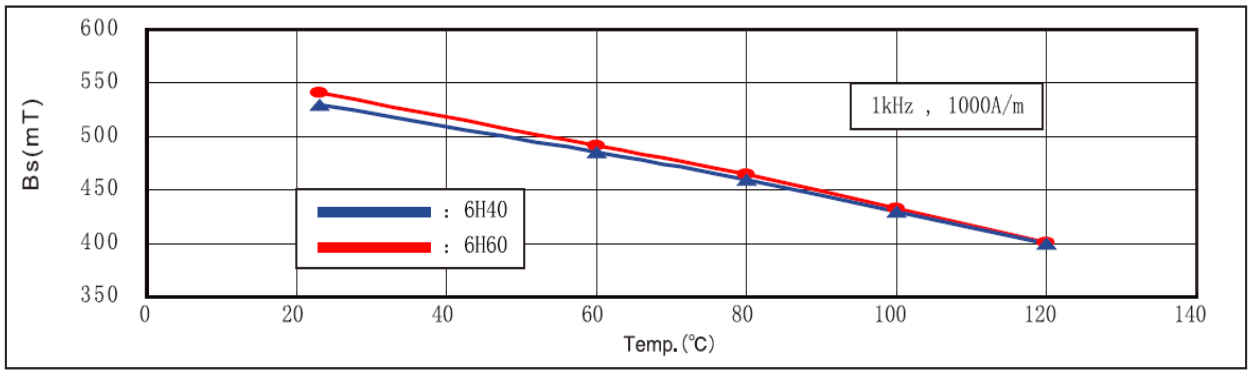
Pcv vs. Temp.



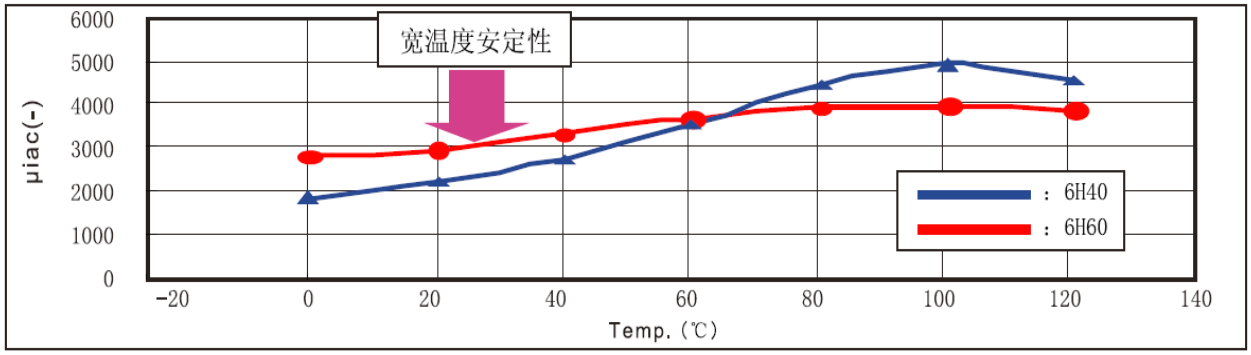
Pcv vs. Freq.



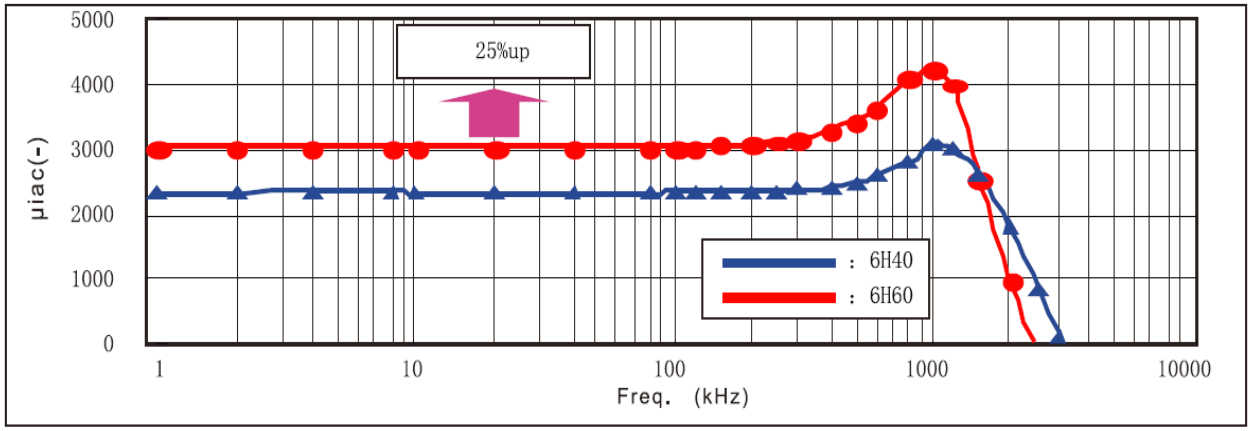
Bm vs. Temp



μ iac vs.Temp



μ iac vs.Freq.



高温向宽温、低损耗铁氧体材料 6H45T＆6H60T

为拓宽功率铁氧体的温度范围，我们开发了新材料6H45T & 6H60T。这两款新材料不但有高的能量密度、较小的体积，同时在更高温宽温范围内具有较低的功率损耗和高的效率。

与传统的6H45 ＆ 6H60材料相比，新材料6H45T ＆ 6H60T的功率损耗谷点温度提高了20℃，因而其适于在更高的环境温度和大的温度起伏等恶劣条件下工作。

基于以上特点，新材料6H45T & 6H60T可广泛用于工作温度范围宽的汽车装载用电源、太阳能转换电源、绿色照明及工业设备中。

High temperature direction wide temperature / low loss ferrite materials

HJS extends its temperature range of power ferrite with new material: 6H45 & 6H60T. These two new materials not only have high energy density and smaller volume, but also have lower power loss and high efficiency in a higher temperature and wide temperature range.

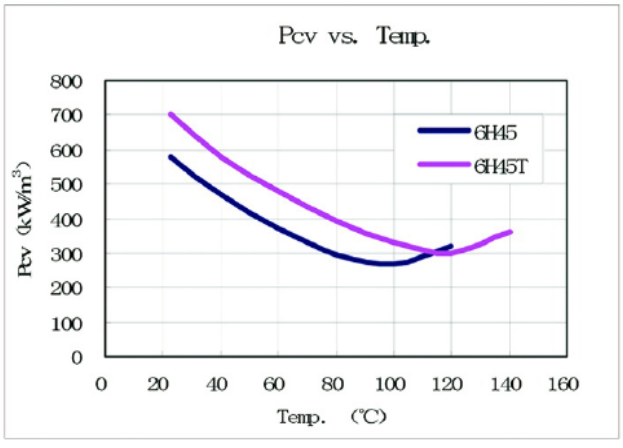
Compared with the traditional 6H45 & 6H60 materials, the new materials 6H45T & 6H60T have 20°C higher power loss valley point temperature, so they are suitable for working under harsh conditions such as higher ambient temperature and large temperature fluctuations.

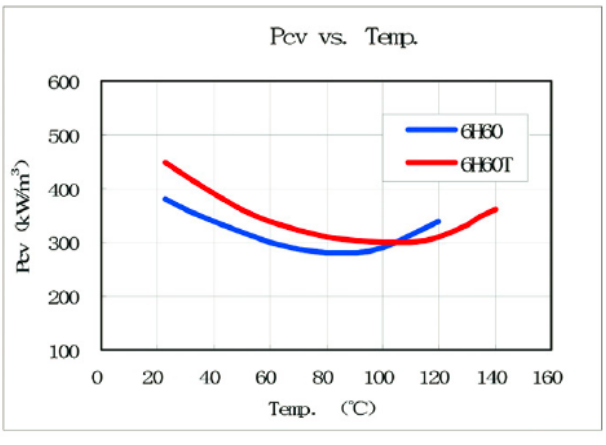
Based on these characters, 6H45T & 6H60T can be applied in the converters with wide temperature range, such as power supplies for car, solar battery, green lighting, and industrial equipments.

高温向宽温、低损耗铁氧体材料 6H45T & 6H60T

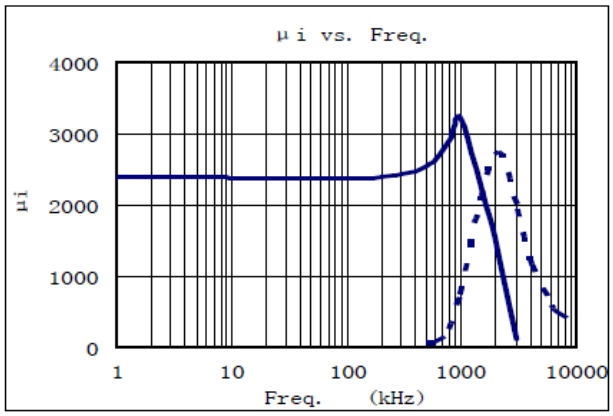
High temperature direction wide temperature / low loss ferrite materials

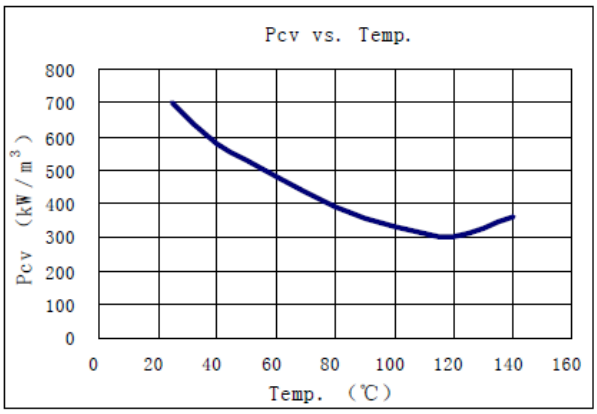
特性 Characteristics	符号 Symbol	单位 Unit		6H45	6H45T	6H60	6H60T
初始磁导率 Initial permeability	μi			2400±25%	2400±25%	3000±25%	2700±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$		< 3	< 3	< 3	< 3
饱和磁通密度 Saturation flux density	Bs	mT	25℃	530	530	540	540
			100℃	430	430	430	430
				(1000A/m)	(1000A/m)	(1000A/m)	(1000A/m)
剩磁 Remanence	Br	mT		105	105	90	90
矫顽力 Coercivity	Hc	A/m		9	9	8	8
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	kW/m^3	25℃	550	700	350	450
			40℃	500	580	320	390
			60℃	400	480	300	340
			80℃	300	390	280	310
			100℃	270	330	290	300
			120℃	320	300	340	310
			140℃	-	360	-	360
居里温度 Curie temperature	Tc	℃		>200	>200	>200	>200
电阻 Resistivity	ρ	Ω • m		2	2	2	2
密度 Density	d	$kg/m^3\times10^3$		4.9	4.9	4.9	4.9

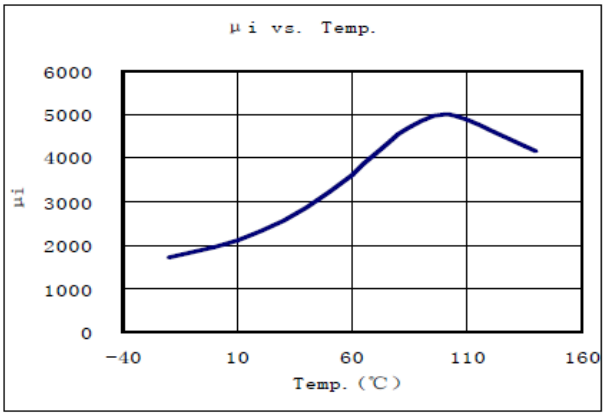


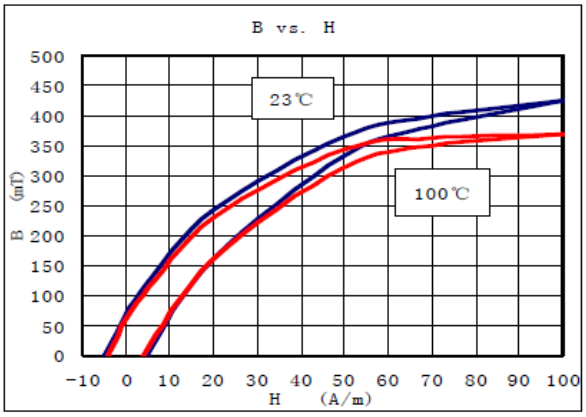


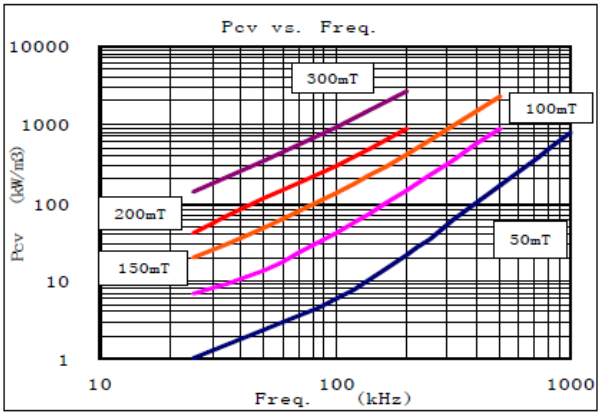
< 6H45T >

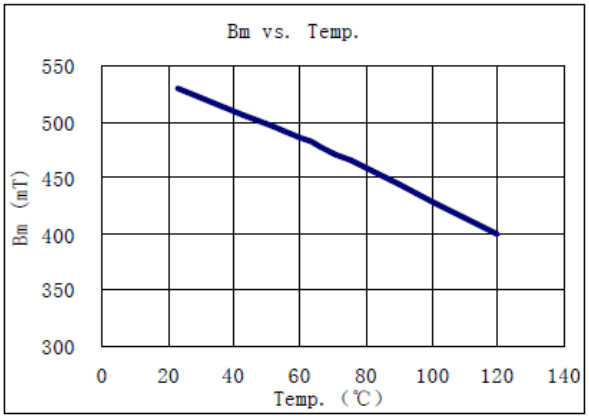

μi vs. Freq.
μi
4000
3000
2000
1000
0
1
10
100
1000
10000
Freq. (kHz)

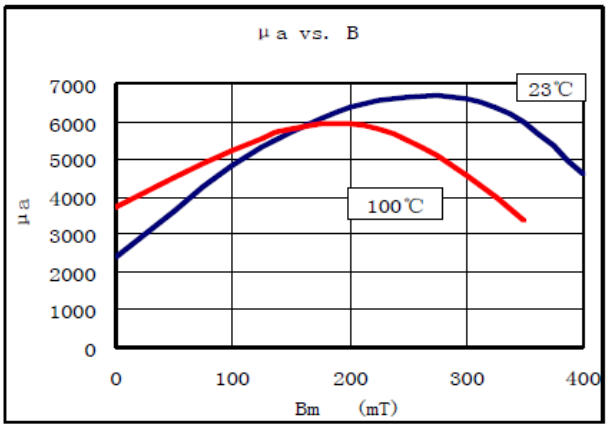

Pcv vs. Temp.
Pcv (kW/m³)
800
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
Temp. (℃)

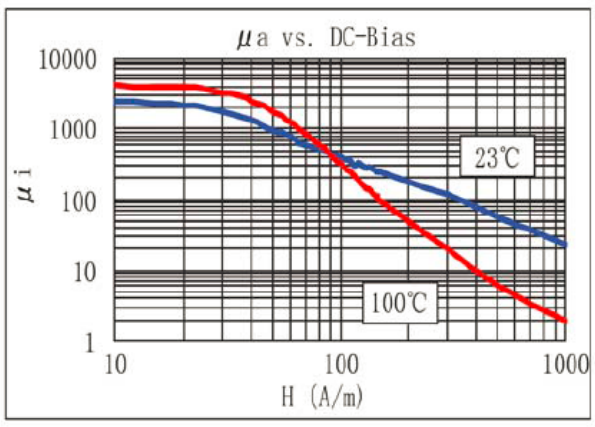

μi vs. Temp.
μi
6000
5000
4000
3000
2000
1000
0
-40
10
60
110
160
Temp. (℃)


B vs. H
B (mT)
500
450
400
350
300
250
200
150
100
50
0
-10
0
10
20
30
40
50
60
70
80
90
100
H (A/m)
23℃
100℃

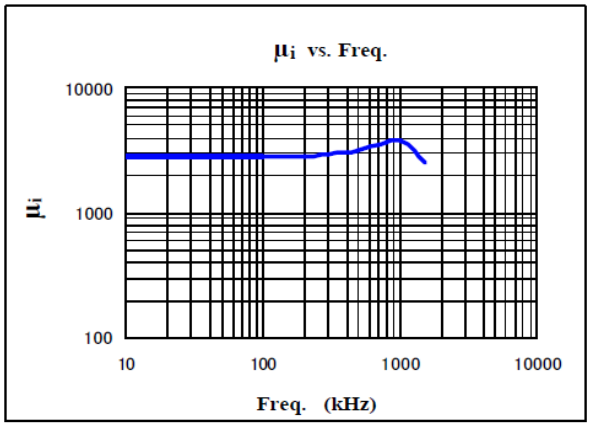

Pcv vs. Freq.
Pcv (kW/m3)
10000
1000
100
10
1
10
100
1000
Freq. (kHz)
300mT
100mT
200mT
50mT
150mT

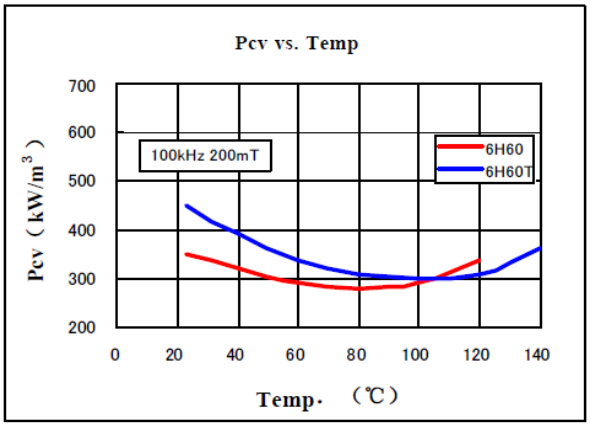

Bm vs. Temp.
Bm (mT)
550
500
450
400
350
300
0
20
40
60
80
100
120
140
Temp. (℃)

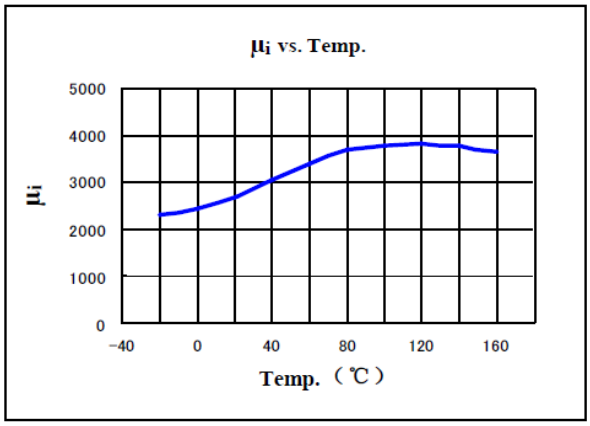

μa vs. B
μa
7000
6000
5000
4000
3000
2000
1000
0
0
100
200
300
400
Bm (mT)
23℃
100℃

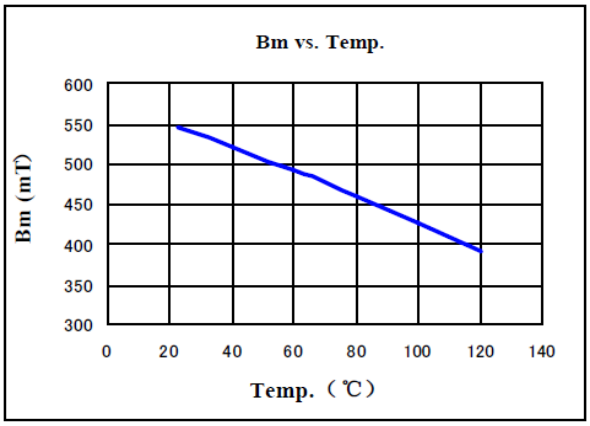

μa vs. DC-Bias
μi
10000
1000
100
10
1
10
100
1000
H (A/m)
23℃
100℃

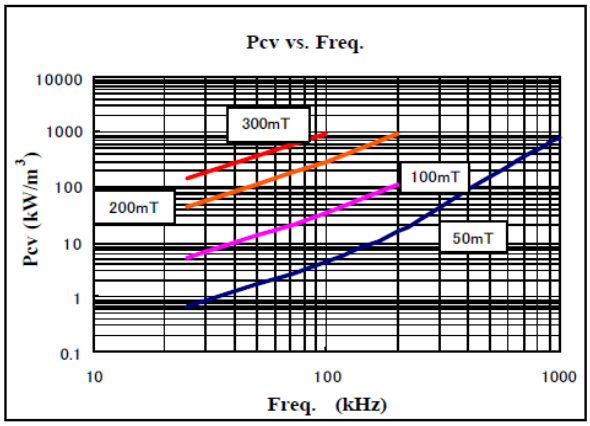
< 6H60T >

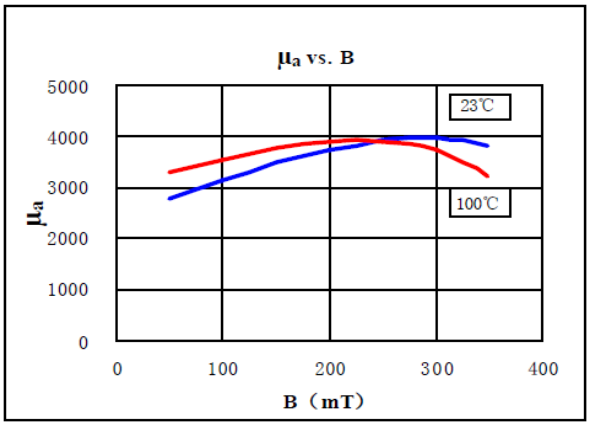

μi vs. Freq.
μi
10000
1000
100
10
100
1000
10000
Freq. (kHz)

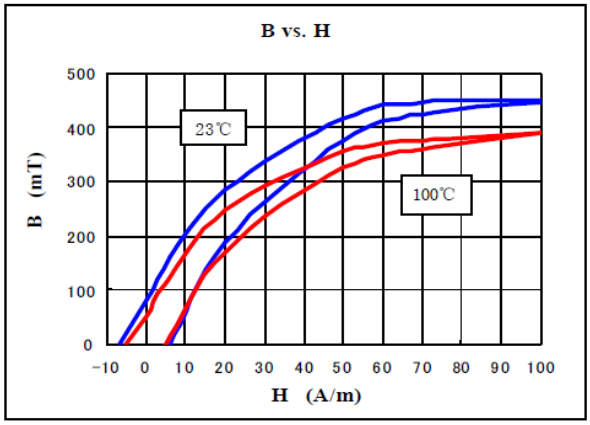

Pcv vs. Temp
Pcv (kW/m3)
700
600
500
400
300
200
100kHz 200mT
6H60
6H60T
0
20
40
60
80
100
120
140
Temp. (℃)

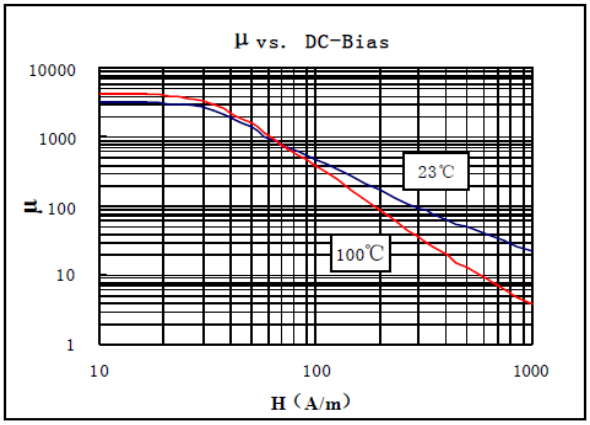

μi vs. Temp.
μi
5000
4000
3000
2000
1000
0
-40
0
40
80
120
160
Temp. (℃)


Bm vs. Temp.
Bm (mT)
600
550
500
450
400
350
300
0
20
40
60
80
100
120
140
Temp. (℃)


Pcv vs. Freq.
Pcv (kW/m3)
10000
1000
100
10
1
0.1
300mT
200mT
100mT
50mT
10
100
1000
Freq. (kHz)


μa vs. B
μa
5000
4000
3000
2000
1000
0
23℃
100℃
0
100
200
300
400
B (mT)


B vs. H
B (mT)
500
400
300
200
100
0
23℃
100℃
-10
0
10
20
30
40
50
60
70
80
90
100
H (A/m)


μ vs. DC-Bias
μ
10000
1000
100
10
1
23℃
100℃
10
100
1000
H (A/m)

高饱和磁通密度材质 4H 系列

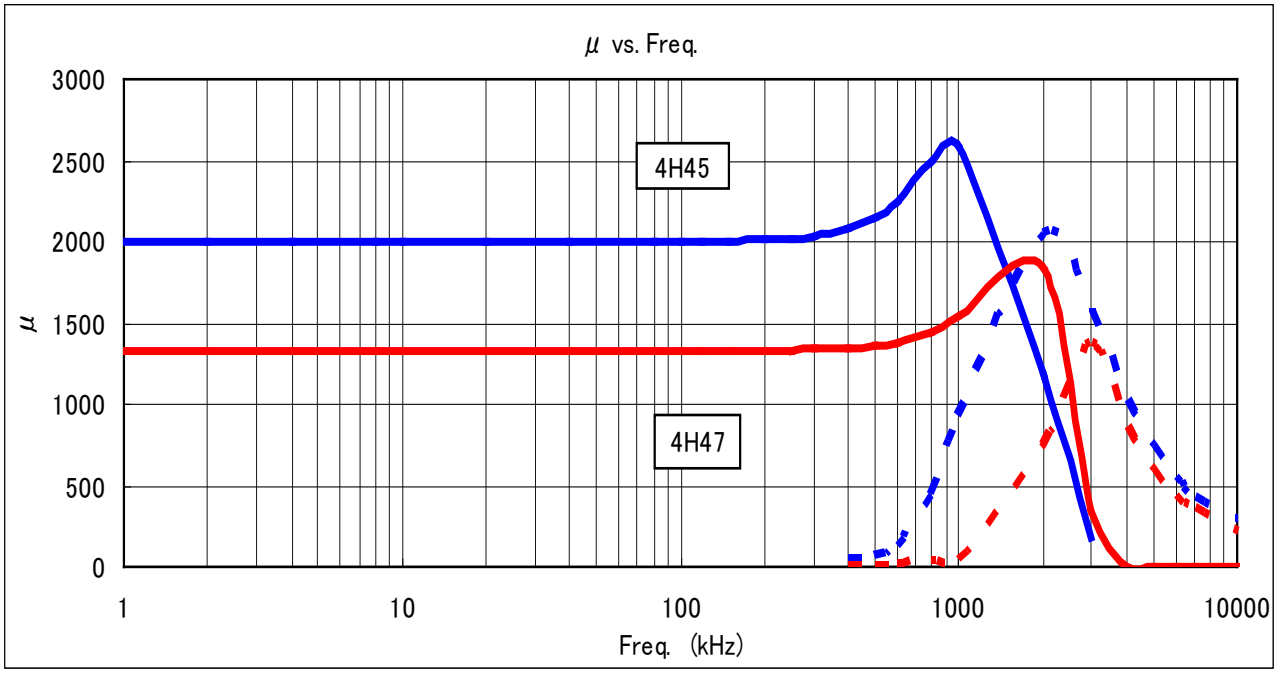
4H 系列功率材质，其特点在 100℃高温区域具有高的饱和磁通密度，适用于照明、车载用各类变压器、扼流圈以及液晶显示器的背光电源用变压器。

由于 4H45 材质在 100 时饱和磁通密度为 450mT，高于其他类型的材质，可有效的抑制电气、电子设备因自身发热会造成材质的磁通密度降低的现象，通常被用于发热的马达处以及在高温条件下工作的车载设备中。它与 6H20 材质产品相比体积可缩小 15～20%，可使器件进一步小型化。

High saturation flux density: 4 H series

4H series materials are characterized by their high saturation flux density at temperature as high as 100℃, and are suitable for varieties of transformers and chokes used in areas such as green lighting and electronic components, also suitable for LCD back light inverter.

4H45 material has high saturation flux density of 450mT at 100℃ which is higher than that of any other materials, so it can be used to effectively suppress the phenomena that material saturation flux density decline as electrical and electronic devices' temperature is rising. For these reasons, 4H45 material is usually used in automobile component which works under hot circumstance such as near a heating motor and so on. Compared to 6H20, 4H45 can reduce component's volume by 15-20%, so can further minimize component.



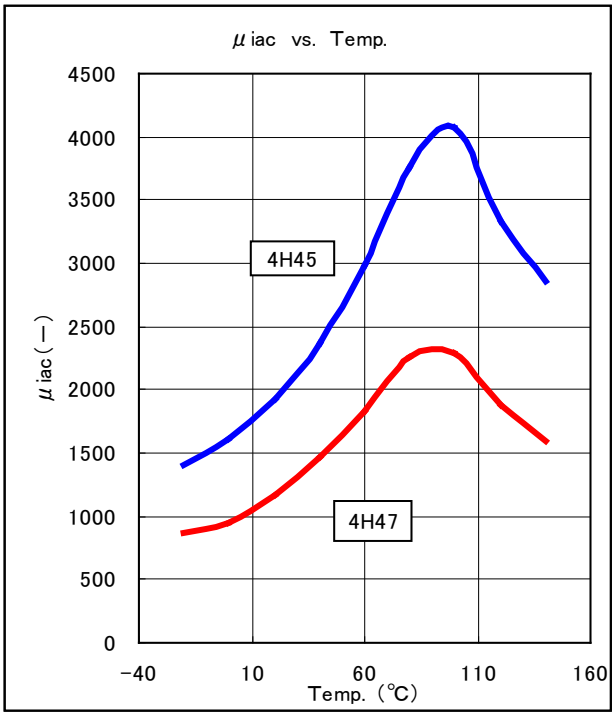
- **高饱和磁通密度材料　High saturation flux density materials**

特性 **Characteristics**	**符号** **Symbol**	**单位** **Unit**		**4H45**	**4H47**
初始磁导率 Initial permeability	μi			2000±25%	1200±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$		< 5	< 4
饱和磁通密度 Saturation flux density	Bs	mT	25℃	540	550
			100℃	450	470
				(1000A/m)	(1000A/m)
剩磁 Remanence	Br	mT		130	200
矫顽力 Coercivity	Hc	A/m		13	15
功率损耗 Power loss (f=25kHz,B=200mT)	Pc	kW/m^3	60℃	90	130
			80℃	75	110
			100℃	60	85
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	kW/m^3	60℃	600	800
			80℃	500	700
			100℃	450	650
居里温度 Curie temperature	Tc	℃		＞230	＞230
电阻 Resistivity	ρ	Ω・m		2	2
密度 Density	d	$kg/m^3\times10^3$		4.9	4.9

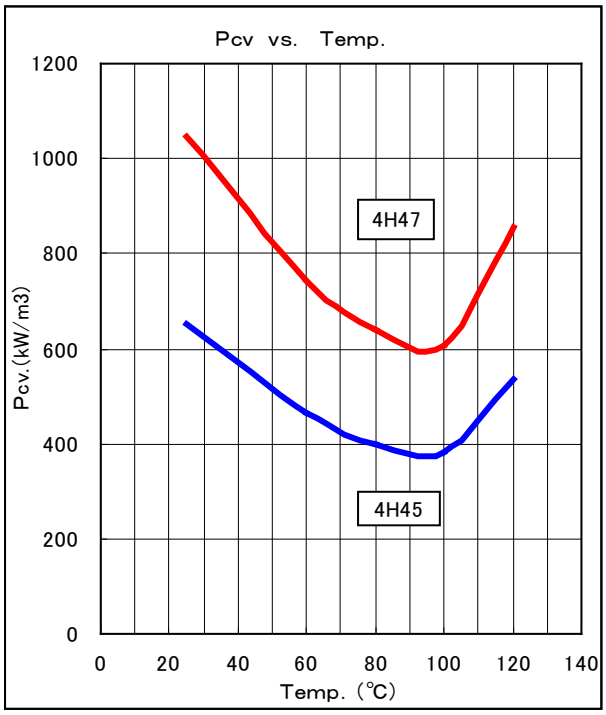
注：如无说明，各项数值均系用环型磁芯在室温下测得。

Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

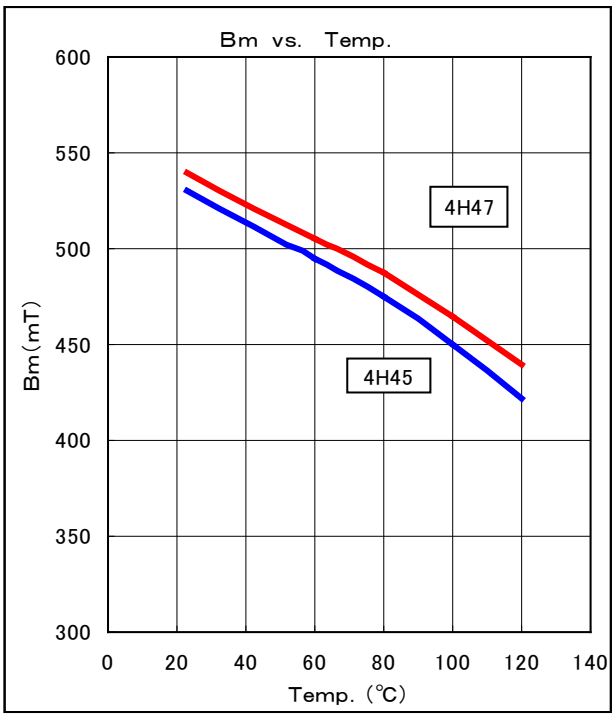
μiac vs. Temp



Pcv vs. Temp

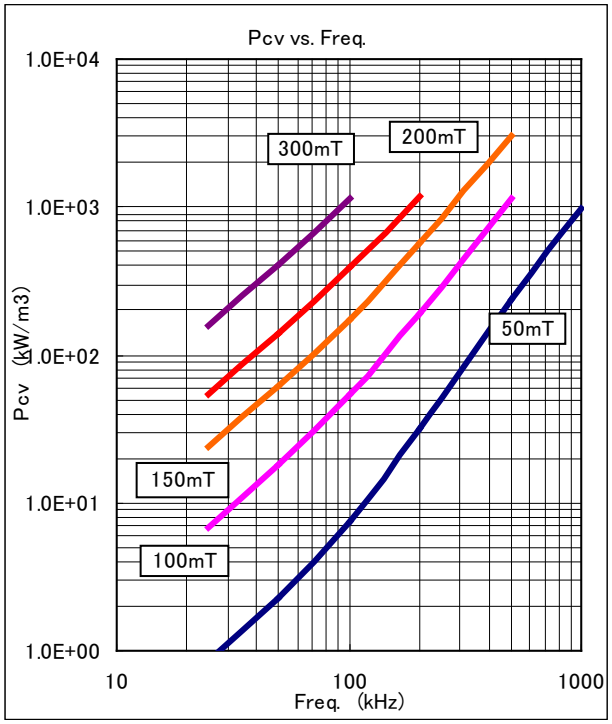


Bm vs. Temp

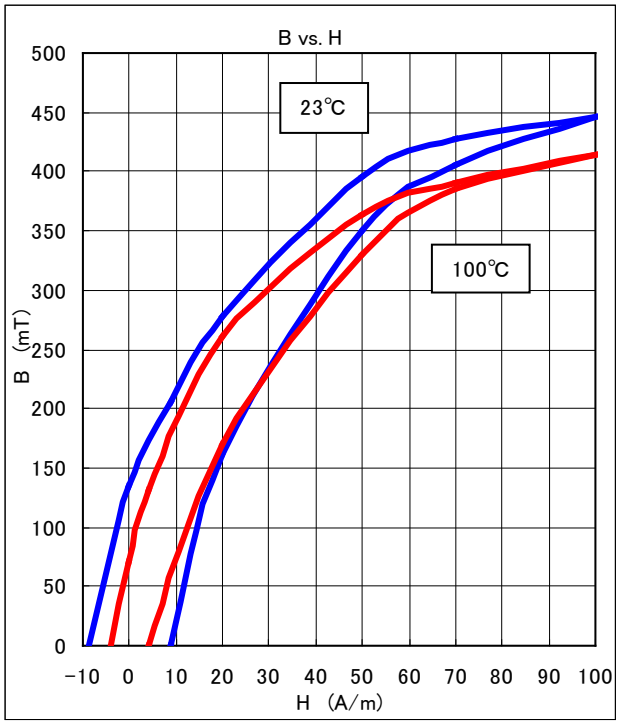


＜4H45＞

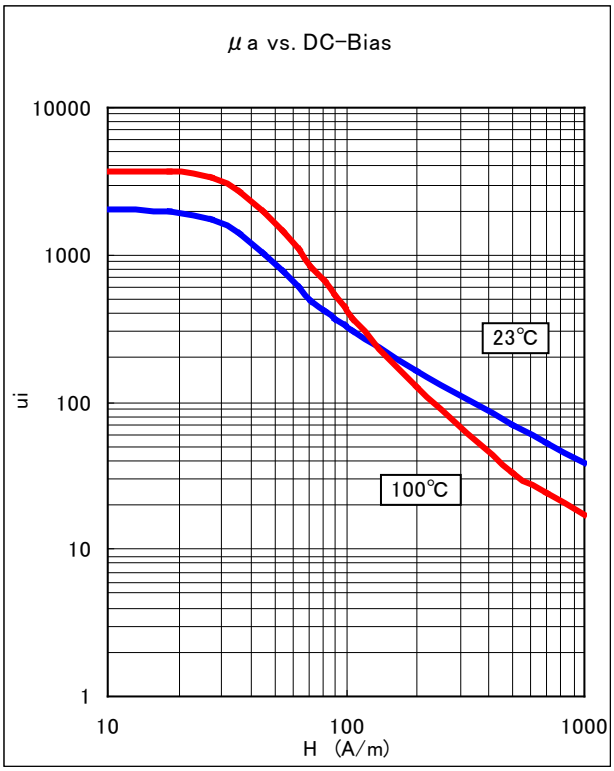
Pcv vs. Freq



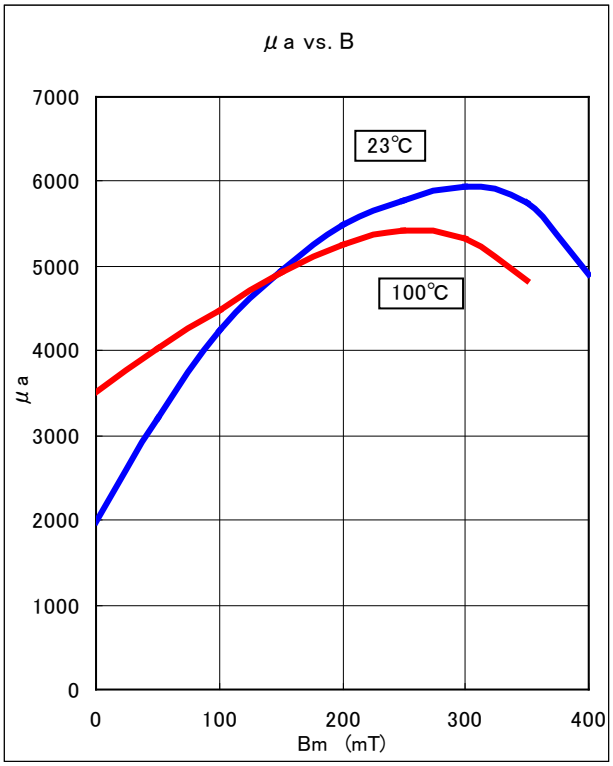
B vs. H



μa vs. DC-bias

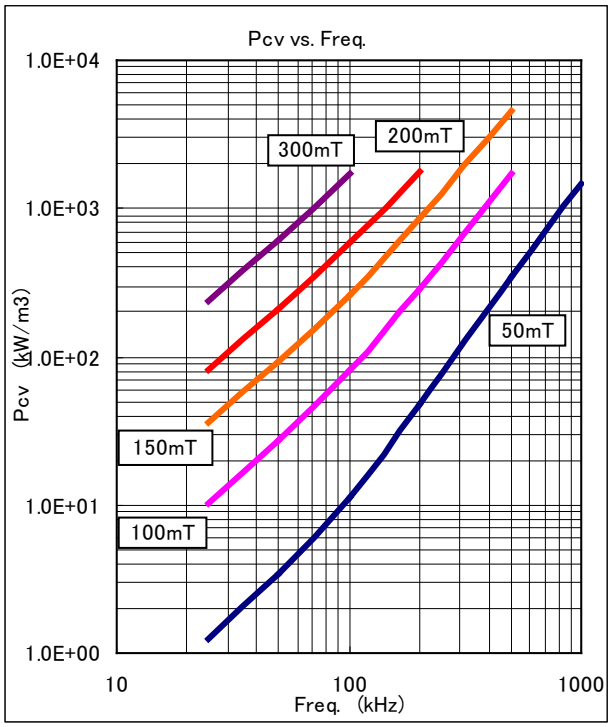


μa vs. B

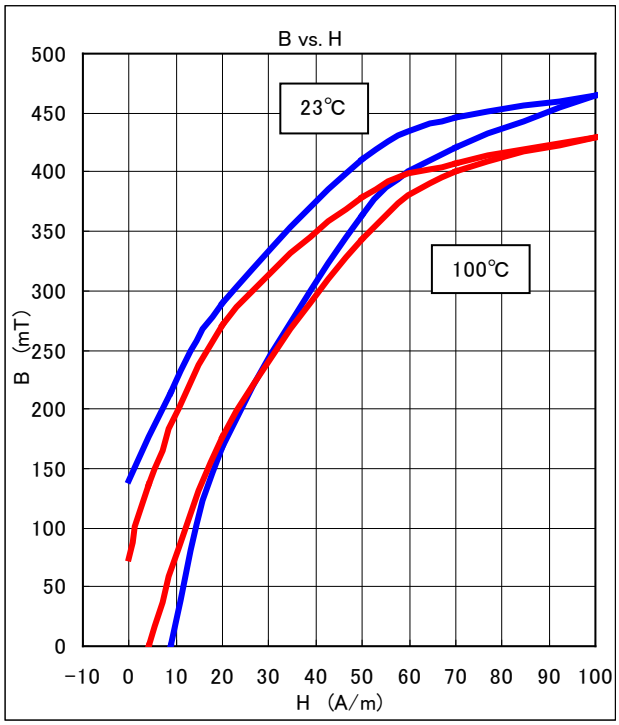


＜4H47＞

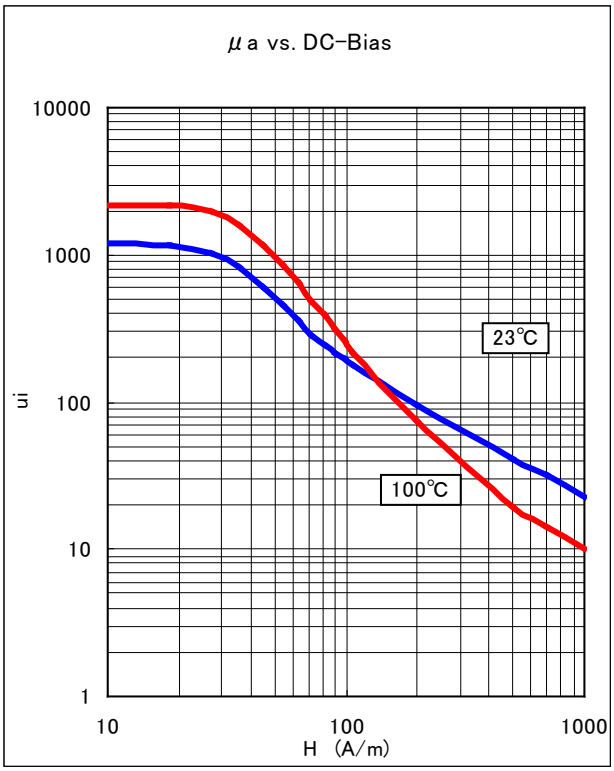
Pcv vs. Freq



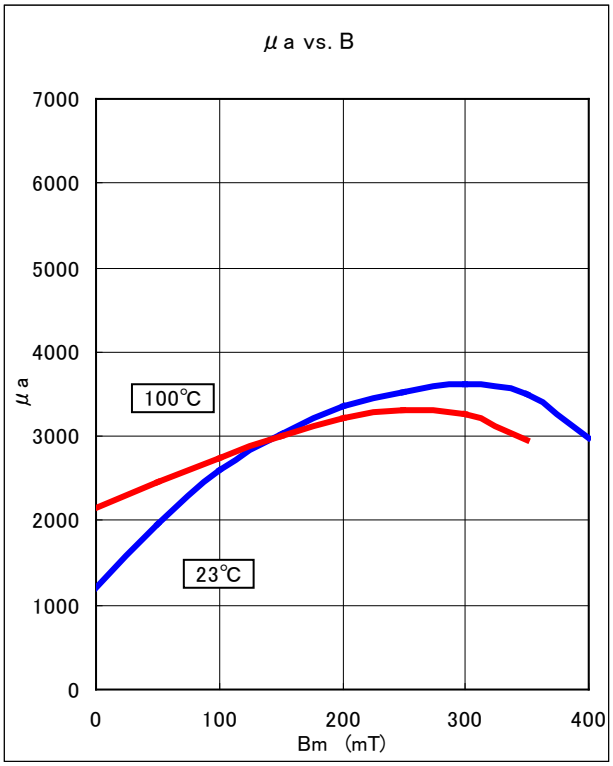
B vs. H



μa vs. DC-bias



μa vs. B



高磁导率、高饱和磁通密度铁氧体材料 4H45B

4H45B 材料具有高 μ、高 Bs、高居里温度 Tc、低损耗、高稳定性等特点，是一种新的应用在高直流迭加场合下滤波具有较高的 Bs 和较高的磁导率的材料。

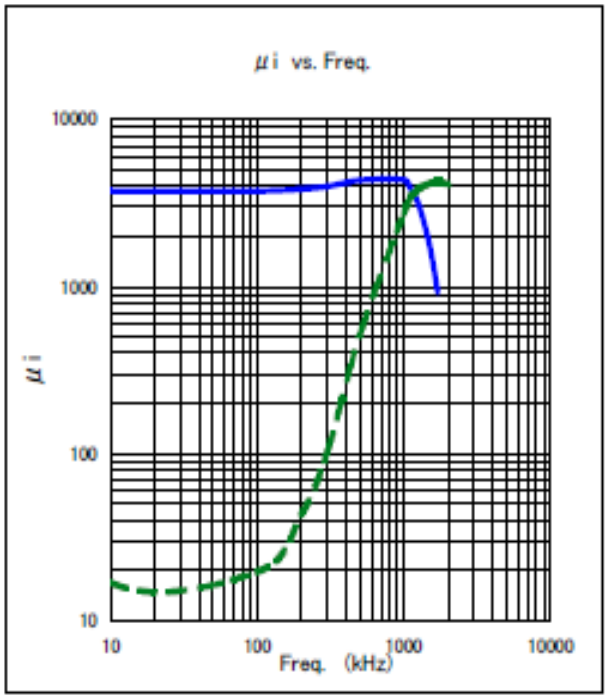
High μi / high Bs ferrite materials 4H45B

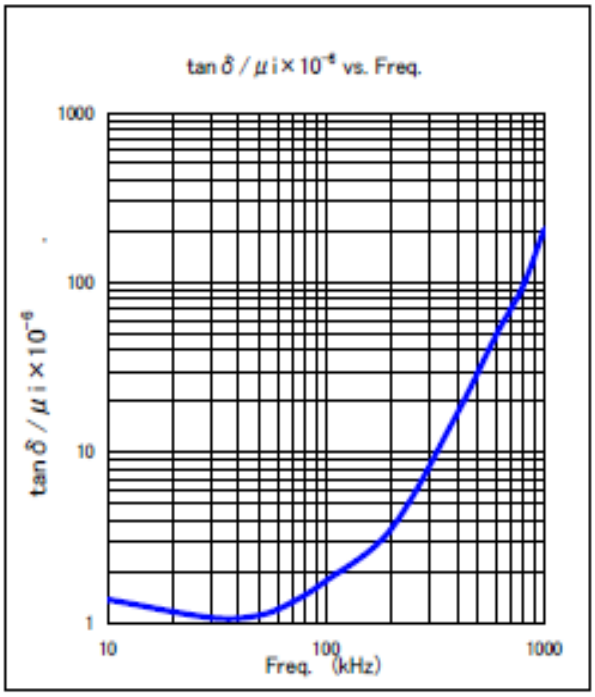
A new kind of power ferrite material with highμ,high Bs,high Tc,low loss and high stability is invented. It can be used for filtering in high DC-bias field with high Bs and high permeability.

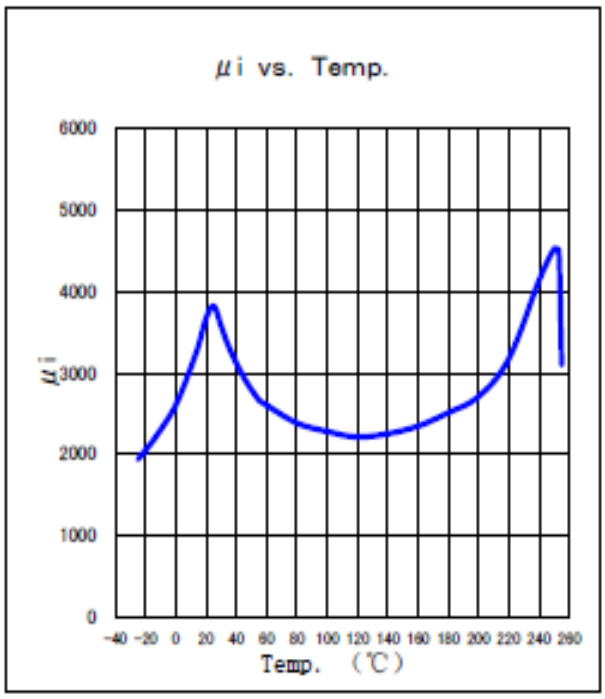
特性 Characteristics	单位 Symbol	单位 Unit		4H45B
初始磁导率 Initial permeability	μi	—		3800±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$	10kHz 0.25mT	＜1.5
			100kHz 0.25mT	＜2.5
饱和磁通密度 Saturation flux density (1194A/m)	Bs	mT	25℃	540
			100℃	430
矫顽力 Coercivity	Hc	A/m	25℃	10
			100℃	15
比温度系数 Relative Temperature	αF	$\times10^{-6}$	5～25℃	3～6
			25～55℃	-6～-2
比磁滞损耗系数 Hysteresis Material Constant	η	$\times10^{-6}$	25℃ 10kHz 1.5～3.0mT	＜0.3
居里温度 Curie temperature	Tc	℃		＞250
电阻率 Resistivity	ρ	Ω·m		5
密度 Density	d	$kg/m^3\times10^3$		4.9

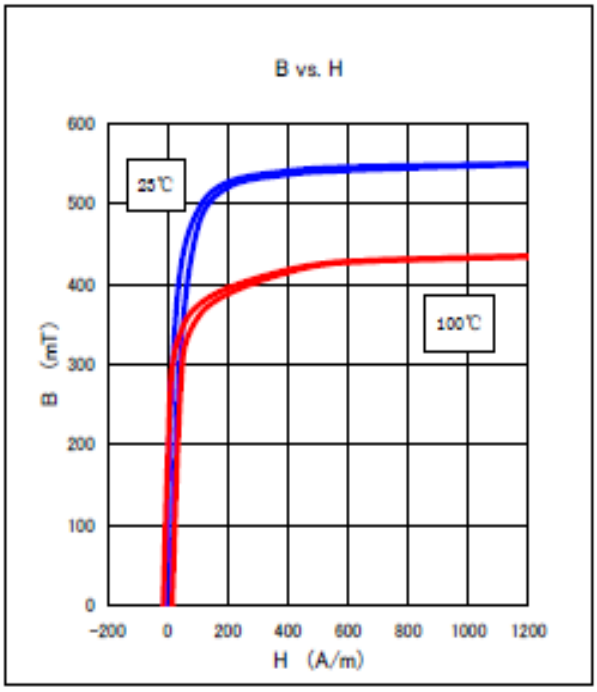
注：如无说明，各项数值均系用环型磁心在室温下测得。
Note:The walues were obtained with toroidal cores at room teperature unless otherwise shown.

< 4H45B >


μi vs. Freq.
μi
10000
1000
100
10
10
100
1000
10000
Freq. (kHz)


tan δ / μi × 10⁻⁶ vs. Freq.
tan δ / μi × 10⁻⁶
1000
100
10
1
10
100
1000
Freq. (kHz)


μi vs. Temp.
μi
6000
5000
4000
3000
2000
1000
0
-40 -20 0 20 40 60 80 100 120 140 160 180 200 220 240 260
Temp. (℃)


B vs. H
B (mT)
600
500
400
300
200
100
0
25℃
100℃
-200
0
200
400
600
800
1000
1200
H (A/m)

高频材质 7H 系列

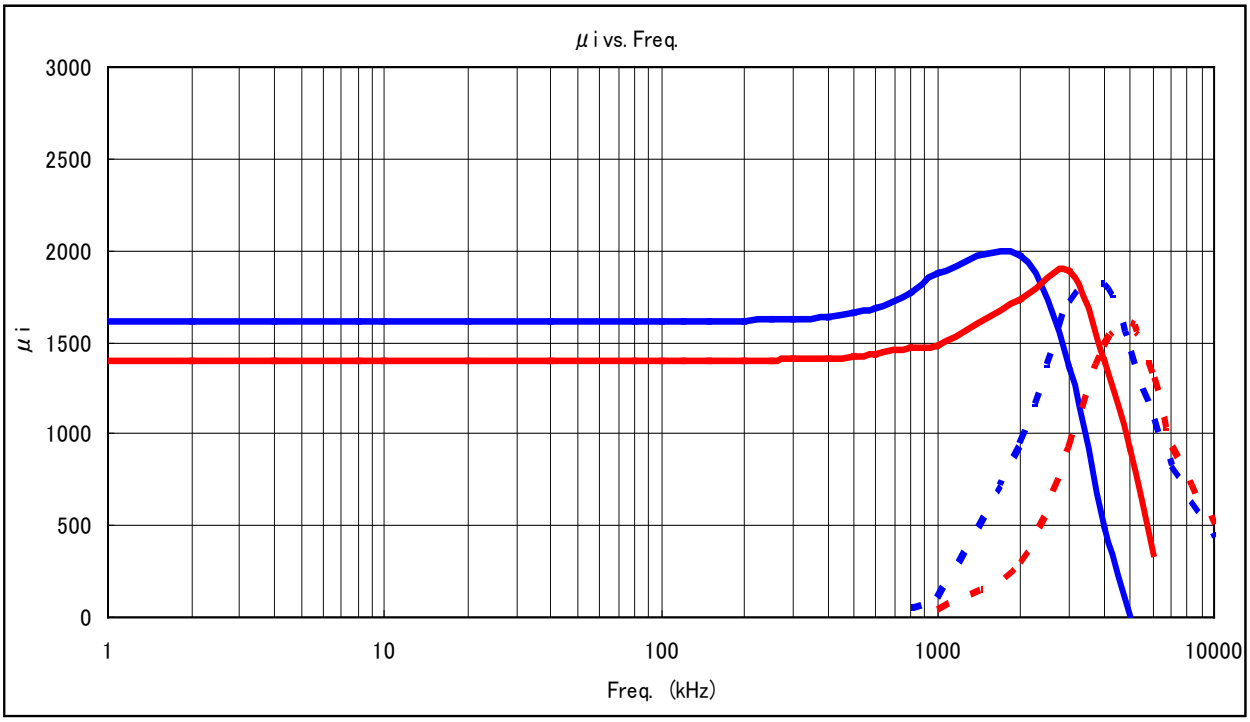
7H 系列是一种高频功率材质，其特点在 500KHz 以上高频领域具有低的磁损耗，适合于 500KHz 以上高频开关电源用变压器和扼流圈。

JSF 很早以前就成功的开发适用高频开关电源用材质。7H10 材质就是其中的一种，它适用于 500KHz 以上高频领域。目前正在开发的 7H20 材质，比 7H10 的磁损降低了 50%，其使用频率比 7H10 还高，它适用于 1000KHz 以上高频领域。

High frequency material 7H series

7H series are power material with advantage of low core loss in high frequency range, and suitable for transformers and choke coils of high frequency switching power supply.

7H10 is suitable for switching frequency over 500 kHz. Latest material 7H20 is suitable for higher frequency over 1000kHz, and its core loss is around 50% lower than that of 7H10.



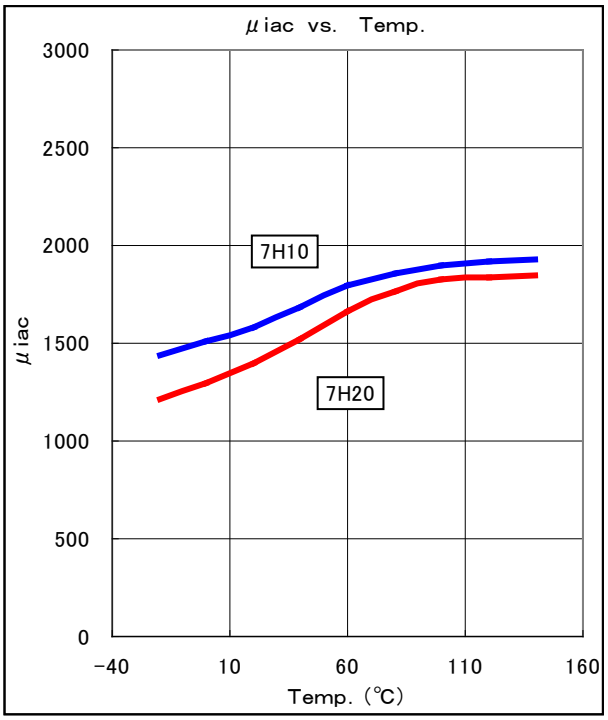
- 高频、低损耗铁氧体材料 High Frequency / Low loss ferrite materials

特性 **Characteristics**	符号 **Symbol**	单位 **Unit**		**7H10**	**7H20**
初始磁导率 Initial permeability	μi			1600±25%	1400±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$		< 5	< 4
饱和磁通密度 Saturation flux density	Bs	mT	25℃	490	490
			100℃	390	390
				(1000A/m)	(1000A/m)
剩磁 Remanence	Br	mT		130	110
矫顽力 Coercivity	Hc	A/m		25	20
功率损耗 Power loss (f=500kHz,B=50mT)	Pc	kW/m^3	60℃	100	50
			80℃	80	40
			100℃	100	50
功率损耗 Power loss (f=1MHz,B=50mT)	Pc	kW/m^3	60℃	400	200
			80℃	400	200
			100℃	500	250
居里温度 Curie temperature	Tc	℃		＞230	＞230
电阻 Resistivity	ρ	Ω • m		6.5	5
密度 Density	d	$kg/m^3 \times10^3$		4.8	4.8

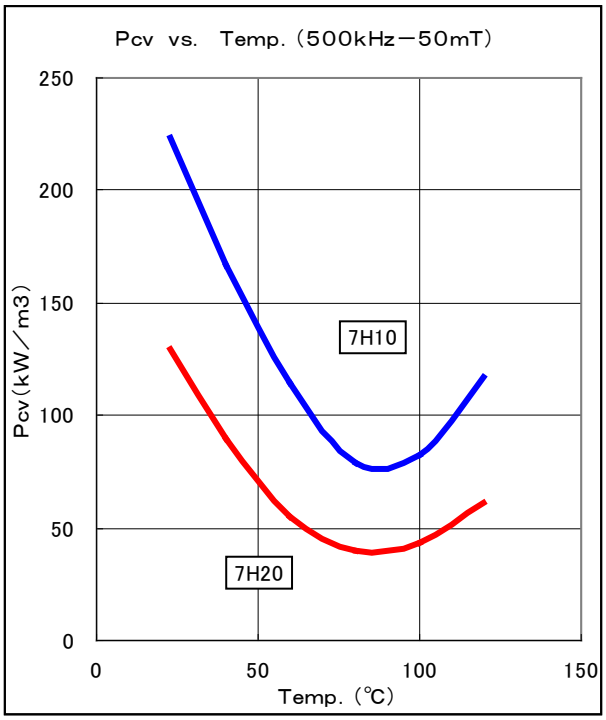
注：如无说明，各项数值均系用环型磁芯在室温下测得。

Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

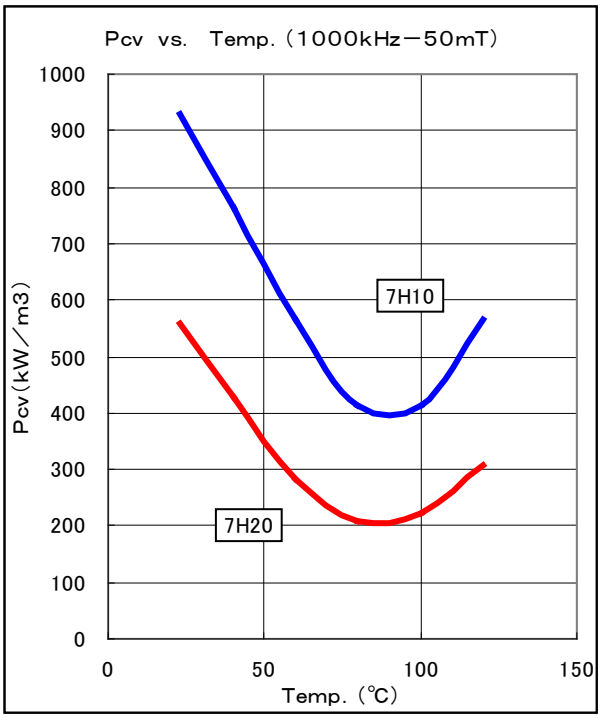
μ iac vs. Temp



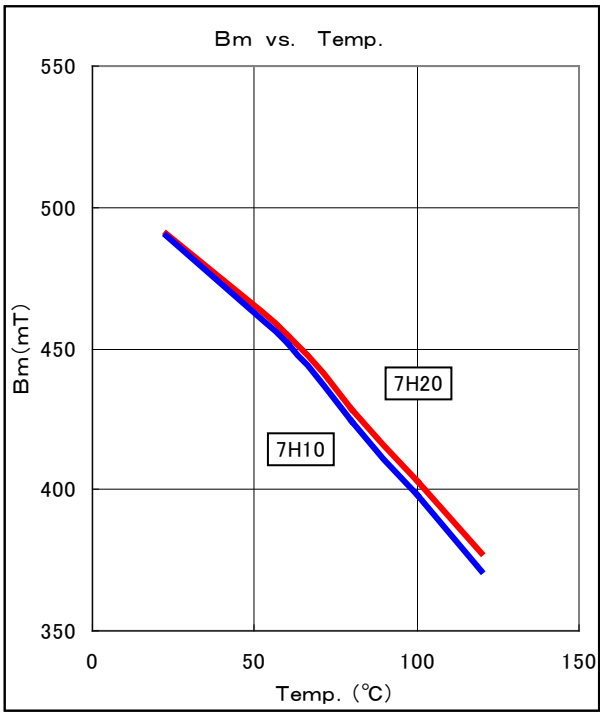
Pcv vs. Temp



Pvc vs. Temp

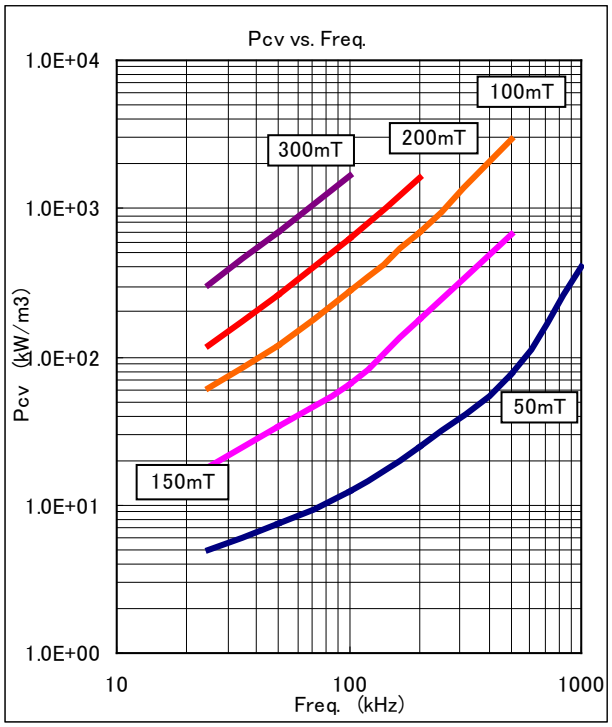


Bm vs. Temp

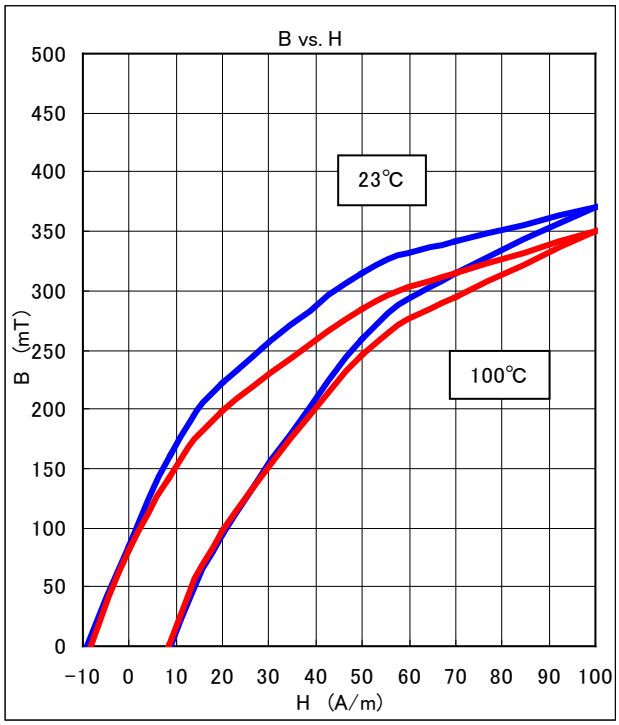


＜7H10＞

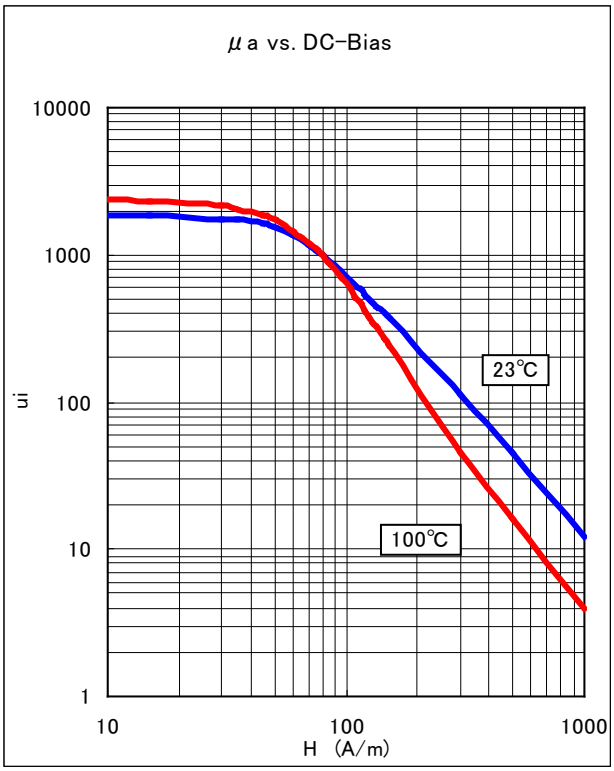
Pvc vs. Freq



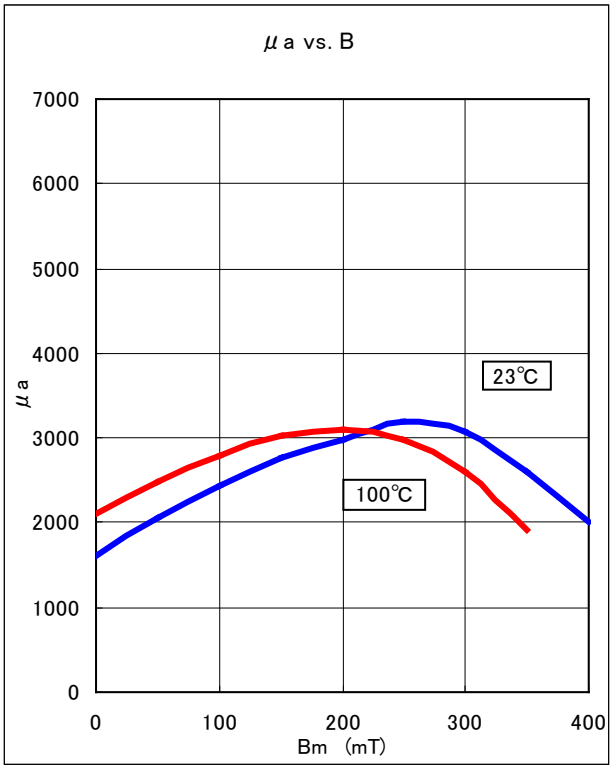
B vs. H



μa vs. DC-bias

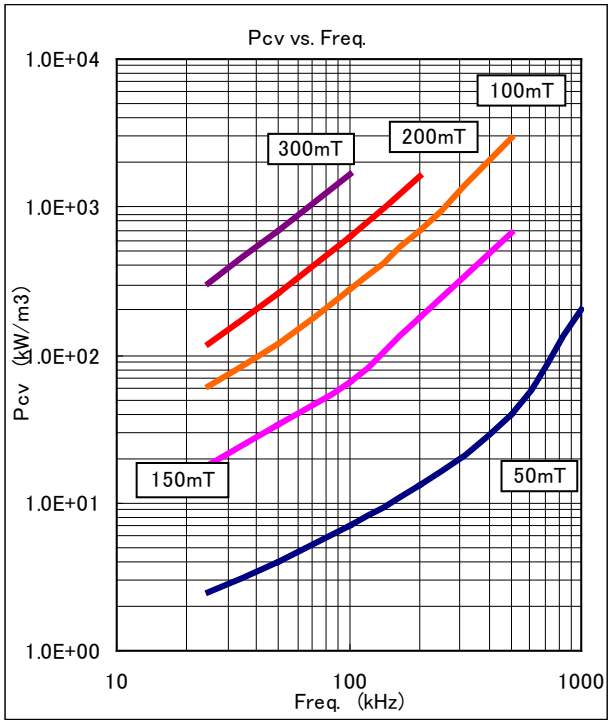


μa vs. B

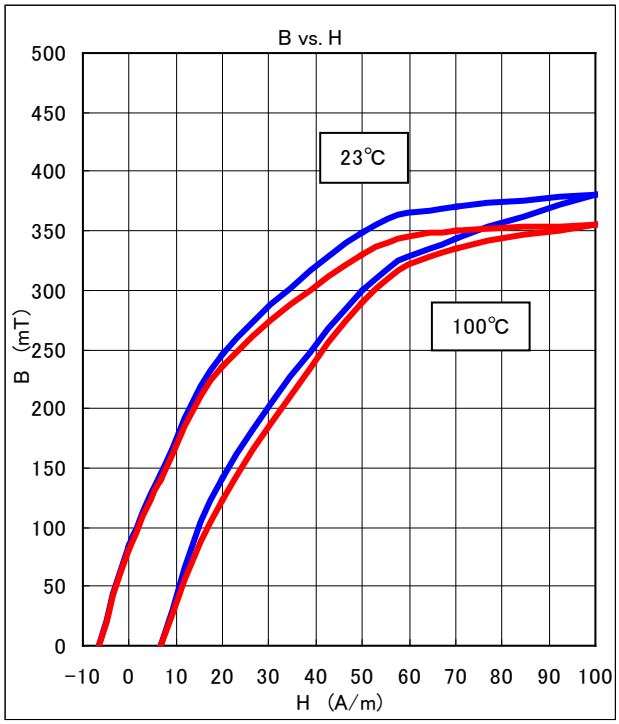


＜7H20＞

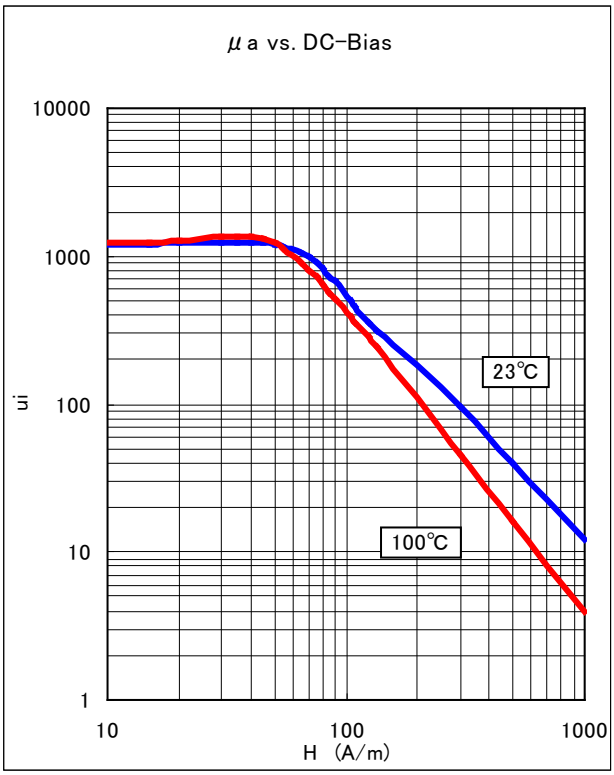
Pvc vs. Freq



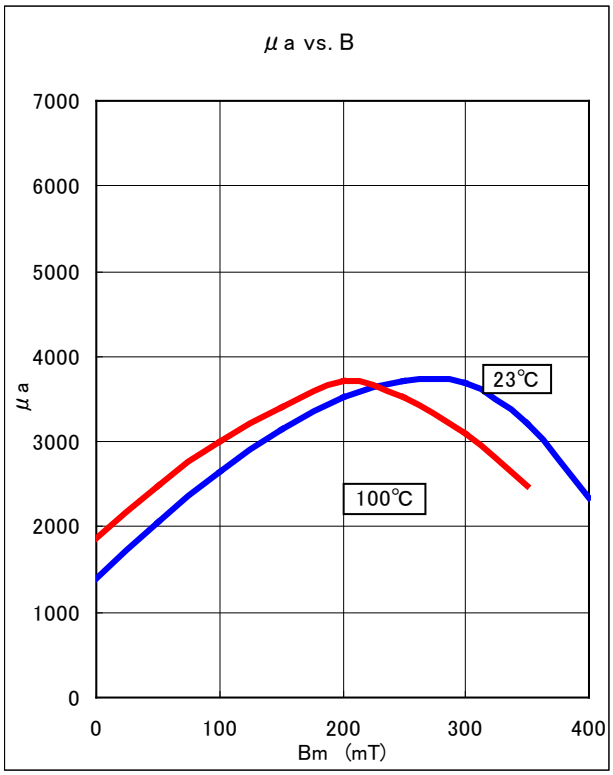
B vs. H



μa vs. DC-bias



μa vs. B



更高频、低损耗铁氧体材料 7H30

7H30 材料工作频率从 500kHz～3MHz，具有高频、大磁场、低损耗的优良特性。适用于氮化镓（GaN）或碳化硅（SiC）下一代功率半导体的广泛应用，制成的变压器和电感器件有着比以往更高的效率和可靠性，更低的尺寸和重量。

High frequence / low loss ferrite materials 7H30

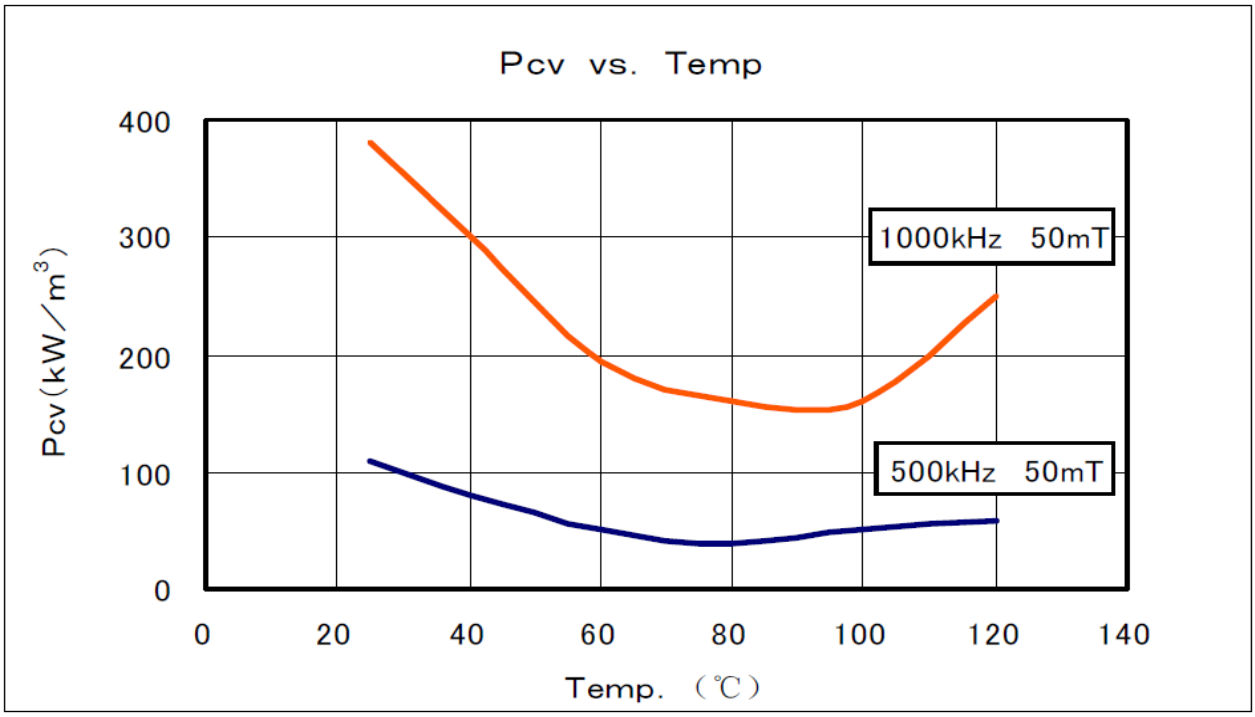
7H30 material operate in the frequency range of 500kHz～3MHz, and it has excellent characteristics of high frequency, large magnetic field and low loss. It is suitable for the wide application of gallium nitride (GaN) or silicon carbide (SiC) next-generation power semiconductors. Transformers and inductors made of it have higher efficiency and reliability, lower size and weight than ever.

特性 Characteristics		**符号 Symbol**	**单位 Unit**		**7H30**
初始磁导率 Initial permeability		μi	—		1000±25%
饱和磁通密度 Saturation flux density (1000A/m)		Bs	mT	25℃	480
				100℃	410
剩磁 Remanence		Br	mT		120
矫顽力 Coercivity		Hc	A/m		40
功率损耗 Power loss	500kHz,50mT,100℃	Pc	kW/m^3		50
	1MHz, 50mT,100℃				160
	2MHz, 50mT,100℃				700
	3MHz, 30mT,100℃				900
居里温度 Curie temperature		Tc	℃		＞280
电阻率 Resistivity		ρ	Ω·m		10
密度 Density		d	$kg/m^3 \times 10^3$		4.75

注：如无说明，各项数值均系用环型磁心在室温下测得。

Note:The values were obtained with toroidal cores at room temperature unless otherwise shown.

< 7H30 >


Pcv vs. Temp
400
300
200
100
0
Pcv(kW／m3)
0
20
40
60
80
100
120
140
Temp. (℃)
1000kHz 50mT
500kHz 50mT

2H 高磁导率材质系列

2H 系列具有高磁导率特点，其磁导率范围：2500～15000。主要用于制作共模噪声滤波器、数字传输变压器，也可用于 FCC、VDE、VCCI 等标准对噪声有一定限制的产品之中。随数字通信网络的快速发展，传输变压器（脉冲变压器）已成为不可缺少的器件。

2H07 材质（μ_i=7500）以及 2H10 材质（μ_i=10000）是共模噪声滤波器的首选的材质，因其价格低廉，适用范围广而成为优秀的标准铁氧体材质。2H07 材质、2H10 材质被广泛用于 500KHz 以下的低频噪声抑制领域。

正在开发的 2H15 材质（μ_i=15000）以及 2H15B 材质（μ_i=10000），因具有高磁导率特性，更适合制作通信设备中的传输变压器（脉冲变压器）。2H15 材质通常用于室内通信设备用脉冲变压器。2H15B 材质在-30℃～85℃内具有小的温度系数和平坦的μ-T 曲线，适用于室外作业的通信设备用脉冲变压器。

2H High permeability material Series

2H series are high permeability material with μ 2500-15000, which are suitable for common mode noise suppressor (conforming FCC, VDE, VCCI regulation) and for interface (pulse) transformers of digital telecommunication network systems. With the quick development of network system, transportation (pulse) transformer has become a kind of indispensable component.

2H07(μ=7500）and 2H10（μ=10000）are JSF's standard high permeability materials with superior characteristics and high performance-cost ratio, and suitable for common mode noise suppressors with frequency below 500kHz.

2H15(μ=15000) and 2H15B (μ=10000) are the latest superior permeability materials for interface (pulse) transformers. 2H15 is suitable for pulse transformers of telecommunication equipments for indoor use. 2H15B has special stable temperature characteristics, and its permeability curve remains flat in temperature range from -30℃ up to +85℃, thus makes it suitable for pulse transformers of telecommunication equipments of outdoor use.

● **高磁导率铁氧体材料 1　High permeability ferrite materials 1**

特性 Characteristics	**符号 Symbol**	**单位 Unit**	**2H03**	**2H04**	**2H05**	**2H06**	**2H07**
初始磁导率 Initial permeability	μi		2500±20%	4500±20%	5000±20%	6500±20%	7500±20%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$	<4 (100kHz)	<10 (100kHz)	≤15 (100kHz)	< 30 (100kHz)	<5 (10kHz)
相对温度系数 Relative temperature coefficient	$\alpha_{\mu r}$	$\times10^{-6}$ 1/K	—	0～2.0 (-30～20℃)	–	0～2.0 (-30～20℃)	0～1.5 (-30～20℃)
				0～2.0 (20～70℃)		0～2.0 (20～70℃)	-0.5～1.5 (20～70℃)
饱和磁通密度 Saturation flux density	Bs	mT	470 (1000A/m)	420 (1000A/m)	500 (1194 A/m)	420 (1000A/m)	410 (800A/m)
剩磁 Remanence	Br	mT	100	80	120	80	60
矫顽力 Coercivity	Hc	A/m	12.8	8	11	8	4
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	W/kg 25℃	—	—	650	—	—
		W/kg 60℃	—	—	500	—	—
		W/kg 100℃	—	—	800	—	—
减落因数 Disaccommodation factor	D_F	$\times10^{-6}$	_	<3	—	<3	<3
居里温度 Curie temperature	Tc	℃	＞200	＞140	≥180	＞140	＞130
电阻率 Resistivity	ρ	Ω・m	1	1		0.2	0.1
密度 Density	d	$kg/m^3\times10^3$	4.8	4.8	4.8	4.8	4.9

注：如无说明，各项数值均系用环型磁芯在室温下测得。

Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

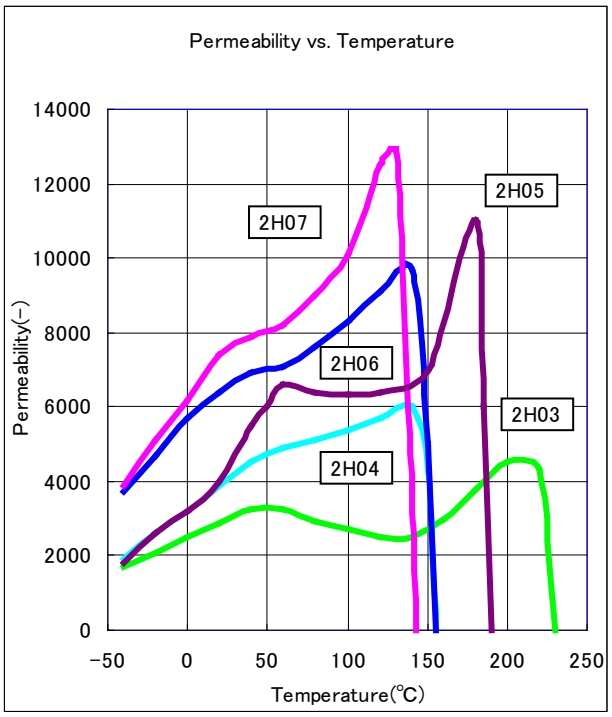
● **高磁导率铁氧体材料 2　High permeability ferrite materials 2**

特性 Characteristics	**符号 Symbol**	**单位 Unit**	**2H10**	**2H15**	**2H15B**
初始磁导率 Initial permeability	μi		10000±20%	15000±20%	10000±20%
相对损耗因数 Relative loss factor	tanδ/μi	$\times10^{-6}$	< 7 (10kHz)	< 10 (10kHz)	<5 (10kHz)
相对温度系数 Relative temperature coefficient	$\alpha_{\mu r}$	$\times10^{-6}$ 1/K	0～1.5 (-30～20℃)	0.5～2.5 (-30～20℃)	-1～1 (-30～20℃)
			-0.5～1.5 (20～70℃)	-0.5～1.5 (20～70℃)	-0.5～2.0 (20～70℃)
饱和磁通密度 Saturation flux density	Bs	mT	410 (1000A/m)	370 (1000A/m)	370 (1000A/m)
剩磁 Remanence	Br	mT	60	50	50
矫顽力 Coercivity	Hc	A/m	3	2	2
减落因数 Disaccommodation factor	D_F	$\times10^{-6}$	<1	<2.0	<2
居里温度 Curie temperature	Tc	℃	＞120	＞100	＞100
电阻率 Resistivity	ρ	Ω・m	0.01	0.01	0.01
密度 Density	d	$kg/m^3\times10^3$	4.9	5	5

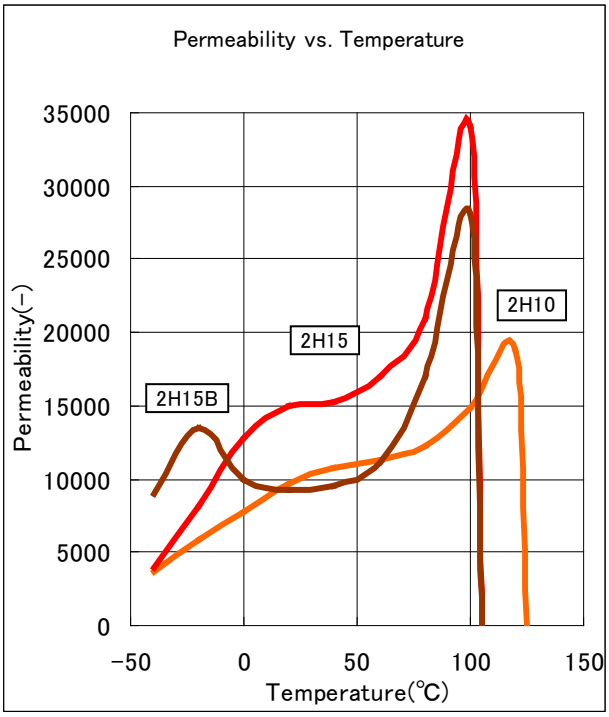
注：如无说明，各项数值均系用环型磁芯在室温下测得。

Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

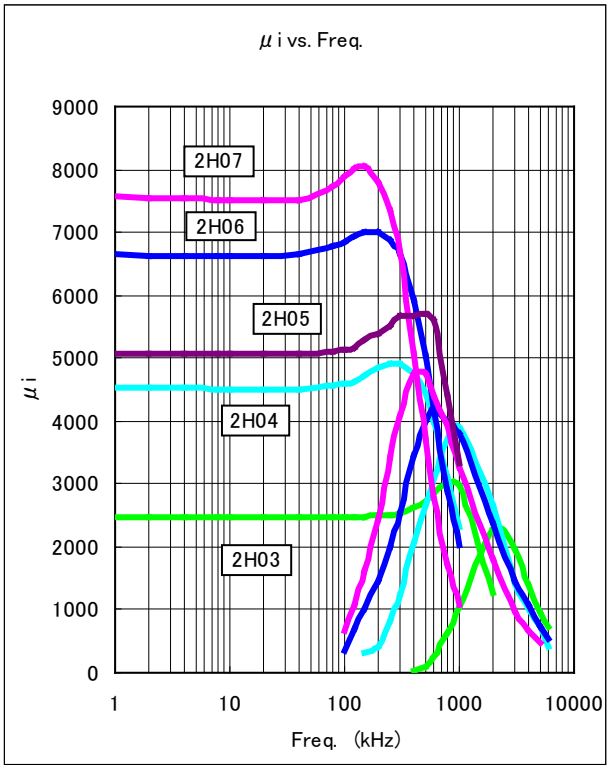
μi vs. Temp



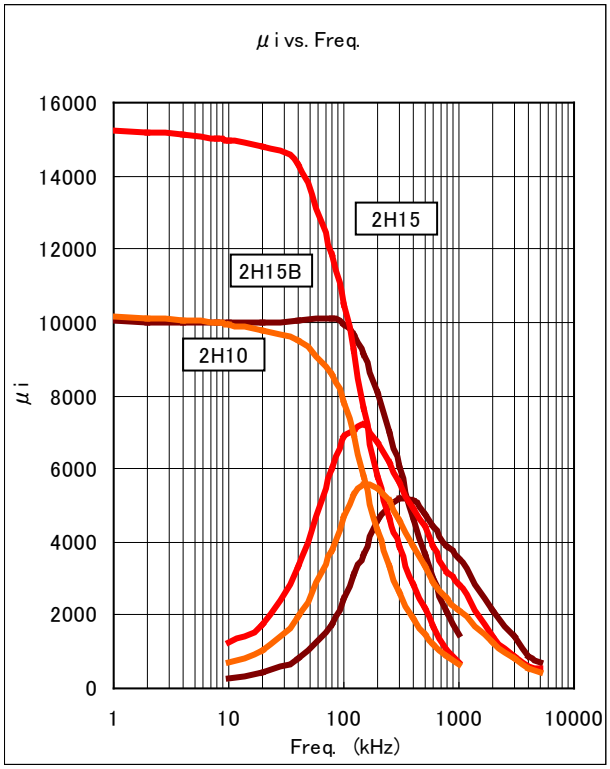
μi vs. Temp



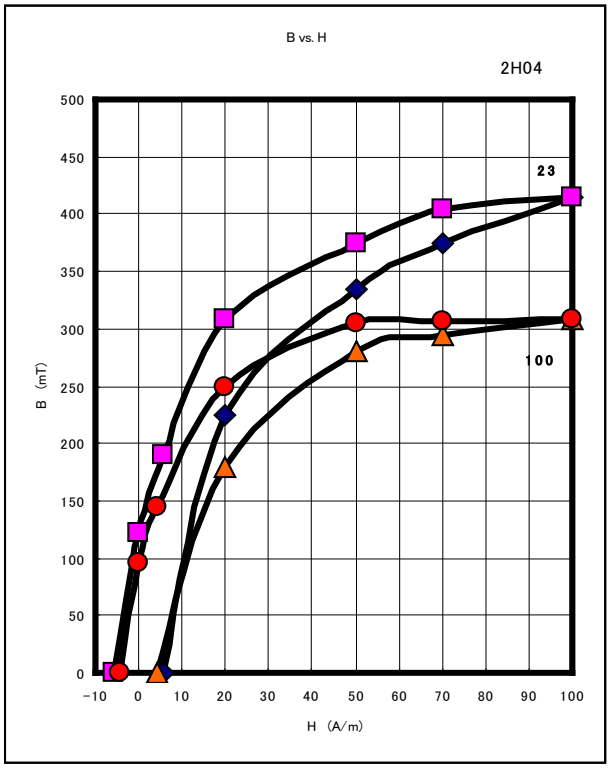
μi vs. Freq



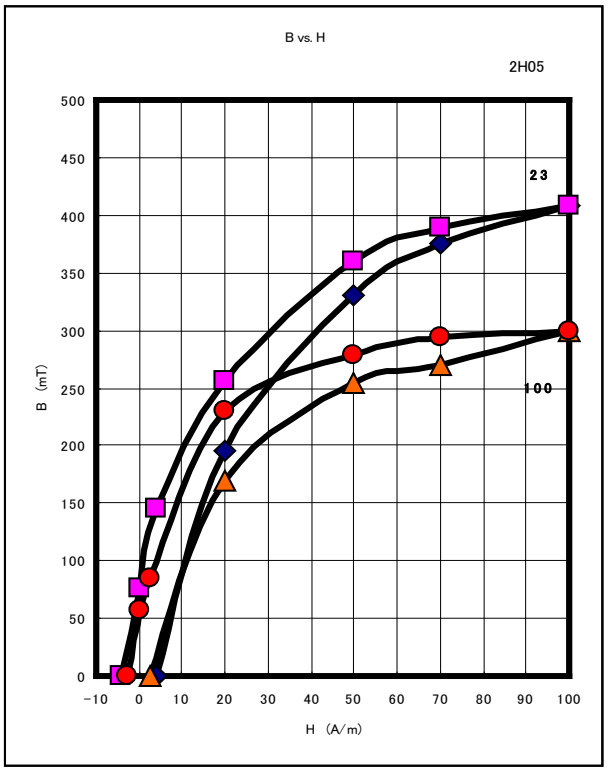
μi vs. Freq



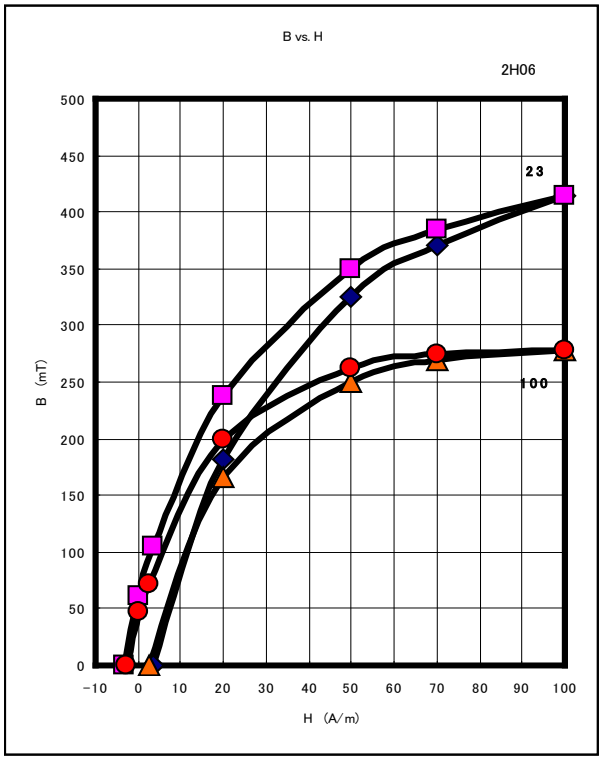
2H04



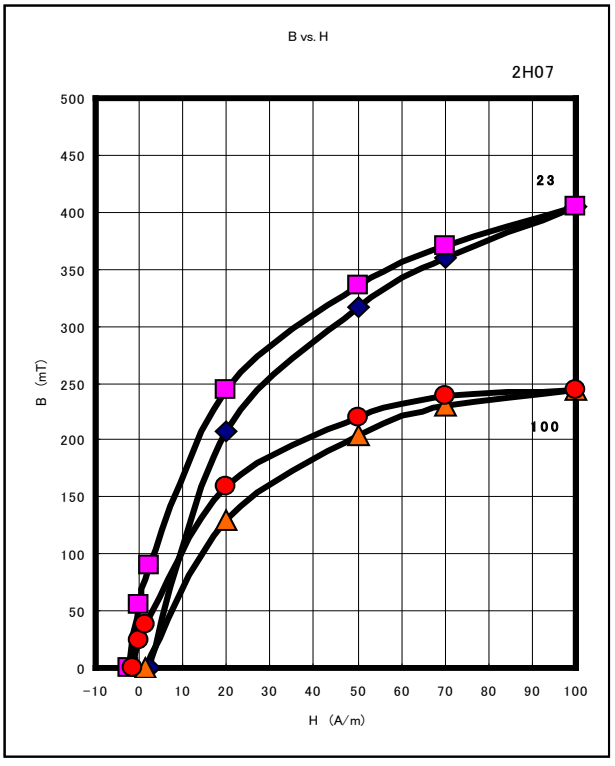
2H05



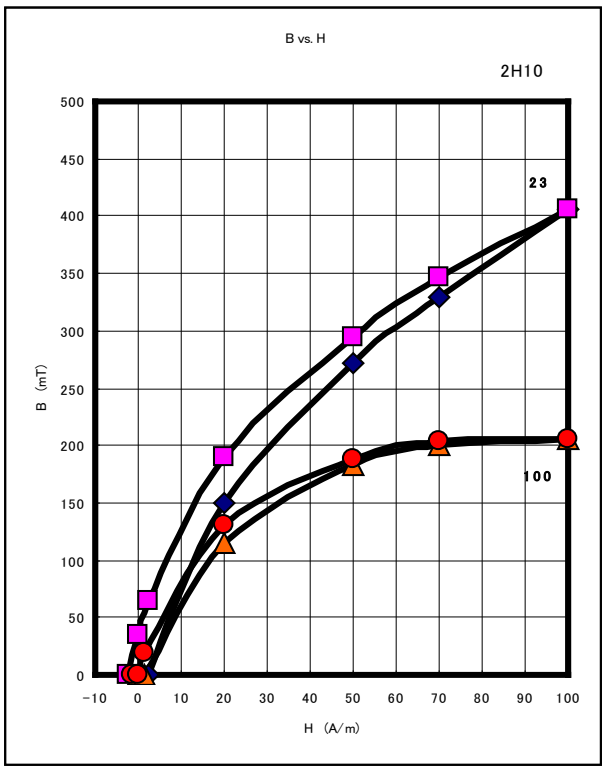
2H06



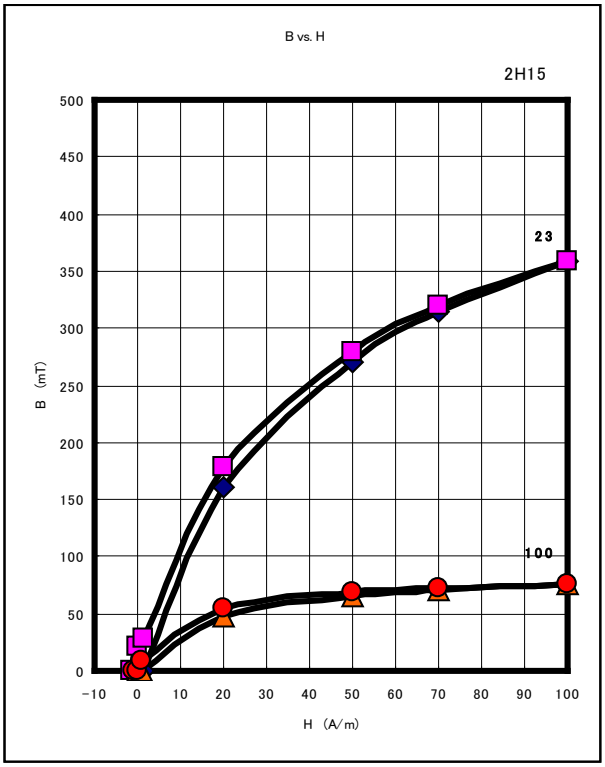
2H07



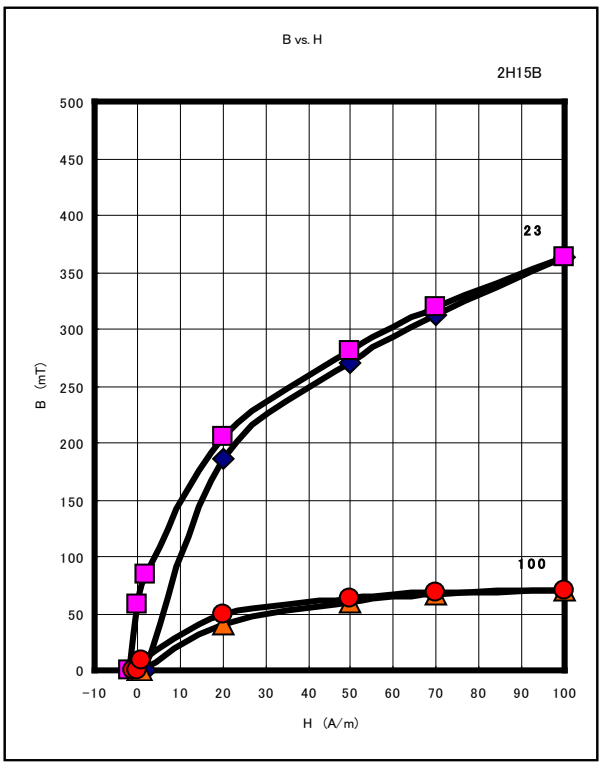
2H10



2H15



2H15B



宽频、高阻抗铁氧体材料 2H03Z & 2H04Z

2H03Z & 2H04Z 材料是具有宽频高阻抗特性的新型材料，可以覆盖 10kHz～300MHz 的频率范围，从低频到高频比一般 NiZn 铁氧体具有更优的阻抗特性，用其制成的抗 EMI 产品可以广泛应用于通信、汽车、电子数据中心、家用电器等领域。

Wide-band / high-impedance ferrite materials 2H03Z & 2H04Z

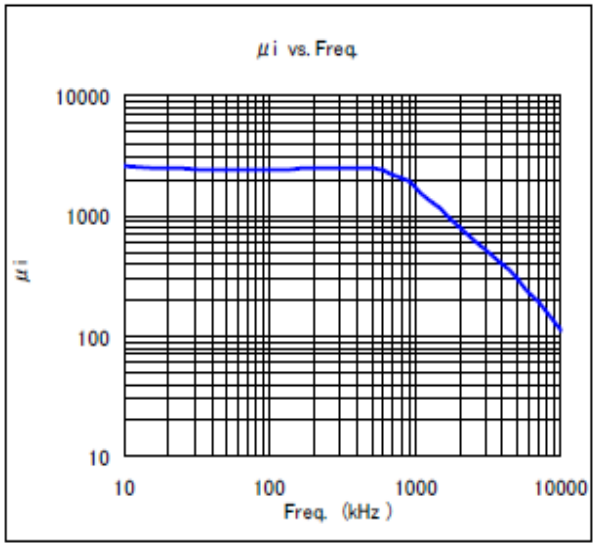
2H03Z & 2H04Z material are new type of materials with broadband and high impedance characteristics, which can cover the frequency range from 10kHz to 300MHz. From low frequency to high frequency, they has better impedance characteristics than ordinary NiZn ferrite. The anti-EMI products made with them can be widely used in communications, automobiles, electronic data centers, household appliances and other fields.

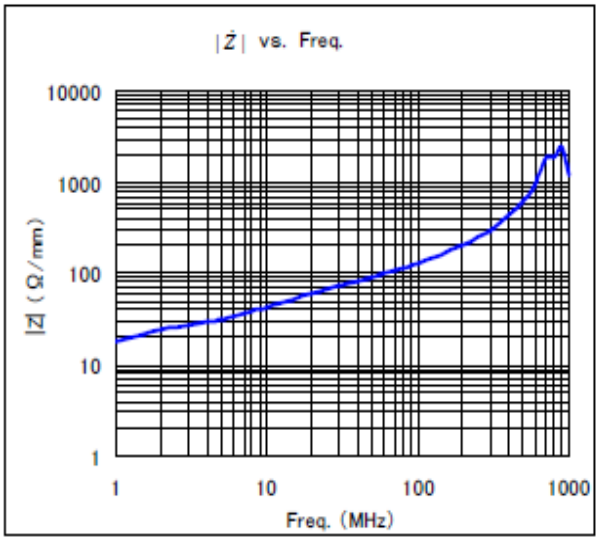
特性	单位	测量条件	2H03Z	2H04Z
初始磁导率 μi		25℃,10KHz	2600±25%	4000±25%
相对损耗因数 tanδ/μi	×10-6	25℃,10KHz	＜20	＜15
温度系数 αμr	×10-6	20℃～60℃	0～2.5	0～2
饱和磁通密度 Bs	mT	25℃,1194A/m	360	360
阻抗丨Z丨	Ω	25℃,1MHz	15	17
		25℃,25MHz	50	50
		25℃,100MHz	100	100
居里温度 Tc	℃		＞125	＞120
电阻率 ρ	Ωm		10^2	10^2
密度 d	kg/m3		4.85×103	4.90×103

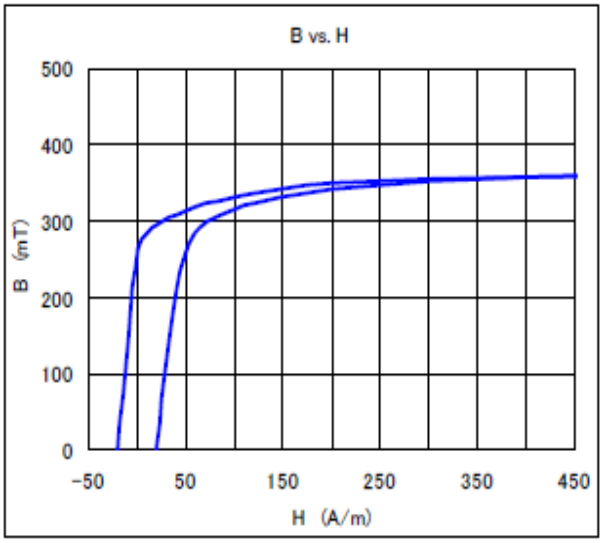
注：如无说明，各项数值均系用环型磁芯在室温下测得。

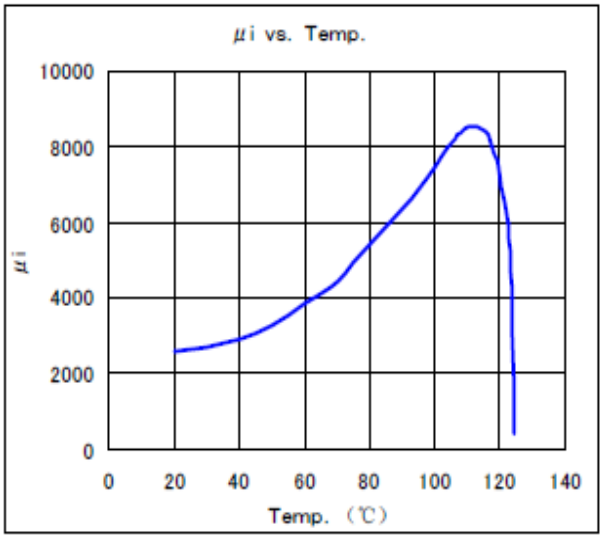
Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

< 2H03Z >

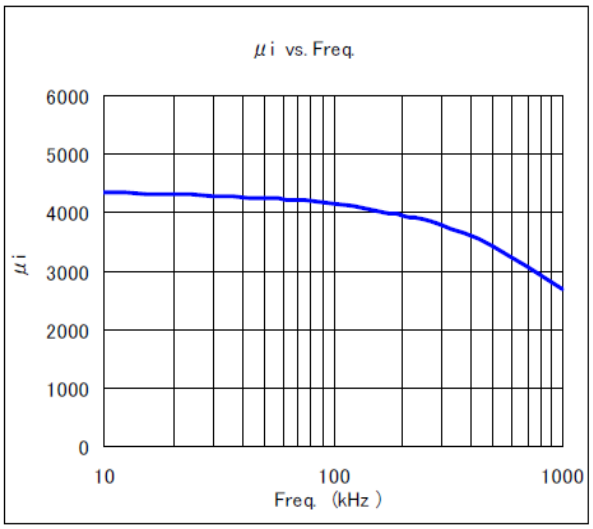

μi vs. Freq.
10000
1000
100
10
μi
10
100
1000
10000
Freq. (kHz)

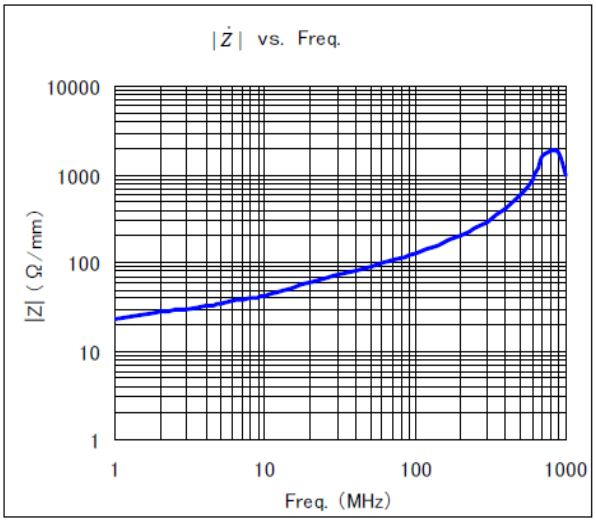

|Ż| vs. Freq.
10000
1000
100
10
1
|Ż| (Ω/mm)
1
10
100
1000
Freq. (MHz)

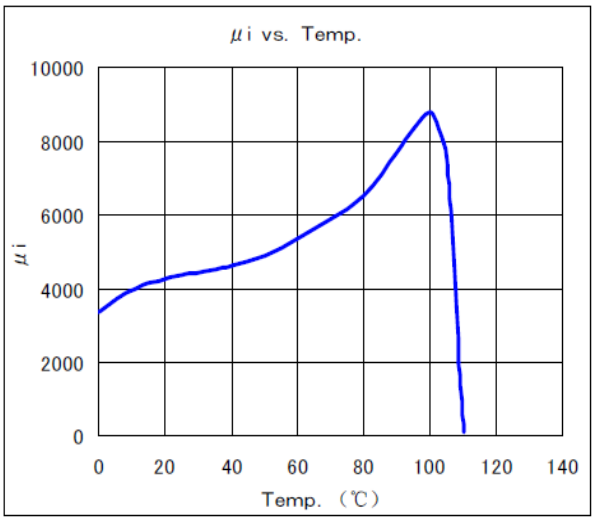

B vs. H
500
400
300
200
100
0
B (mT)
-50
50
150
250
350
450
H (A/m)

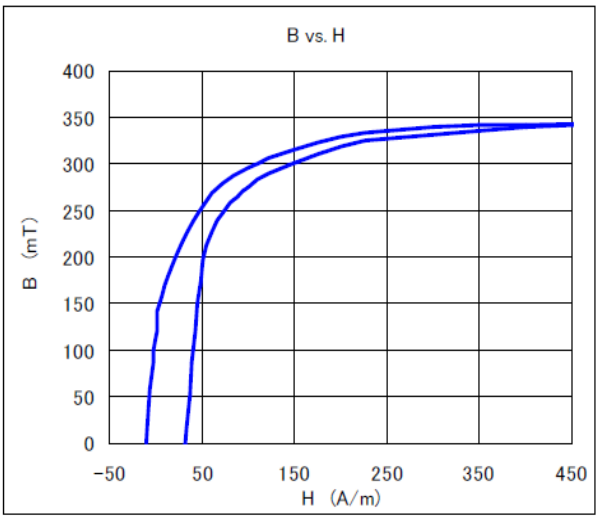

μi vs. Temp.
10000
8000
6000
4000
2000
0
μi
0
20
40
60
80
100
120
140
Temp. (℃)

< 2H04Z >


μi vs. Freq.
μi
6000
5000
4000
3000
2000
1000
0
10
100
1000
Freq. (kHz)


|Ż| vs. Freq.
|Z| (Ω/mm)
10000
1000
100
10
1
1
10
100
1000
Freq. (MHz)


μi vs. Temp.
μi
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
Temp. (℃)


B vs. H
B (mT)
400
350
300
250
200
150
100
50
0
-50
50
150
250
350
450
H (A/m)

高磁导率、高居里温度铁氧体材料 2H07T

本材料比传统高磁导率材料居里温度（Tc）提高了 20℃，达到了 150℃以上，能够满足汽车电子对环境温度-40℃～+150℃的要求。同时还具有很好的宽频和高阻抗特性

High μi / high Tc ferrite materials 2H07T

Compared with the traditional high-permeability material, the Curie temperature（Tc） of this material has increased by 20°C, reaching above 150°C, which can meet the requirements of automotive electronics for the ambient temperature of -40°C to +150°C. At the same time, it also has good broadband and high impedance characteristics.

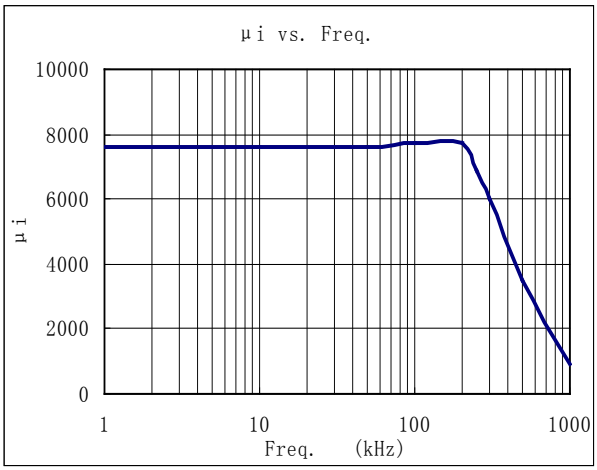
特性 Characteristics	符号 Symbol	单位 Unit	2H07T
初始磁导率 Initial permeability	μi		7000±25%
相对损耗因数 Relative loss factor	tanδ/μi	$\times 10^{-6}$	2.5 (10kHz)
相对温度系数 Relative temperature coefficient	α μr 20～70℃	$\times 10^{-6}$/K	0～1.5
饱和磁通密度 Saturation flux density	Bs	mT	445 (1000A/m)
剩磁 Remanence	Br	mT	90
矫顽力 Coercivity	Hc	A/m	6
居里温度 Curie temperature	Tc	℃	＞150
电阻率 Resistivity	ρ	Ω・m	0.2
密度 Density	d	$kg/m^3 \times 10^3$	4.85

注：如无说明，各项数值均系用环型磁芯在室温下测得。

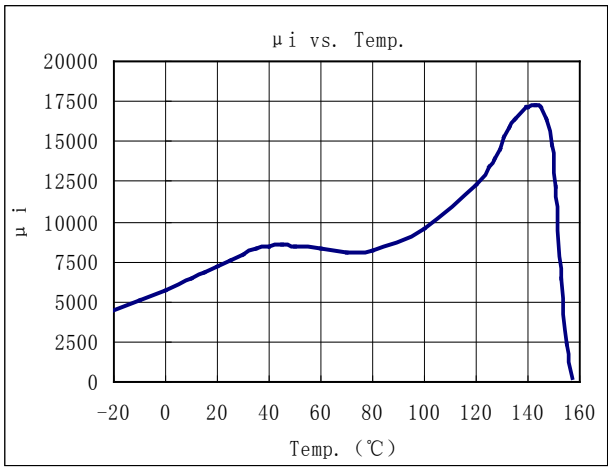
Note: The values were obtained with toroidal cores at room temperature unless otherwise shown

< 2H07T >

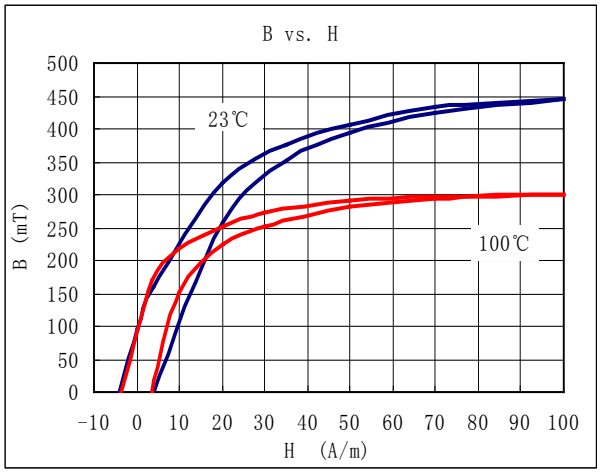
μi vs. Freq



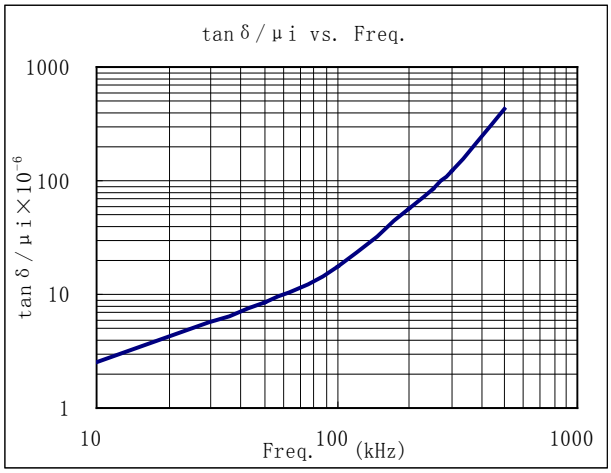
μi vs. Temp



B vs. H



tan δ / μi vs. Freq



材质参数对比参照 Materiai Comparison Reference

与本公司各材料系列性能和用途相对应的国内外主要同行厂商材料牌号参照表:
Shown below are the material brands of main international manufacturers, which characteristics and application scopes correspond to those of our material series.

HJS	TDK	HITACHI	TOKIN	NICERA	JFE	FERRO XCUBE	TOMITA	EPCOS	TDG (天通)	DMEGC (东磁)
4H45	PC33/PC90	MB19D	BH3	BM27/BM30	MB1	3C92		N92	TP4E/TP4G	DMR24
4H45B						3B46		N45		DMR71
4H47				MB40	MB1H	3C92			TP4F	DMR1.2KH
6H10	PC30		2500B	2HM4		3C81		N72	TP3	DMR30
6H20	PC40	ML24D	BH2	NC-2H	MB3	3C90	2F8	N87	TP4	DMR40
6H40	PC44		BH1	2HM5	MB4	3C94	2G8	N97	TP4A/TP4S	DMR44
6H41	PC45	ML25D					2N4	N41	TP4B	DMR45
6H42	PC46	ML32D				3C91	2N8	N51	TP4C	DMR46
6H45	PC47					3C96	2N2		TP4D	DMR47
6H45T						3C93	2N9			
6H60	PC95				MBT1	3C95	2N7	N06	TPW33	DMR95
6H60T	PCH95	ML29D			MBT2	3C97				DMR96
7H10	PC50	ML14D	BH5	5M	MC1	3F35	2N5	N49	TP5	DMR50
7H20		ML12D	BH7/B40			3F45	2H8		TP5A/TP5E	DMR51
7H30	PC200	ML95S ML91S				3F46		N59	TP5F	DMR51W DMR52
2H03		MQ25D		NC-1L	3B7		2E6	N48	TD3	
2H03Z	HF60					3S4			Ti1	DMR31
2H04	H5A	MQ40D		NC-4Y		3E28	2H5	N30/T57		R4K
2H04Z					MR04					
2H06	HS52	MQ53D	5H	NC-5Y	MA055	3E25/3E27	2G4	T35/T37	TS5	R5K
2H07	H5B2/HS72	MT70D	7H	NC-7	MA070	3E26	2G1	T36	TS7	R7K
2H07T					MAS07				TL7KC	
2H10	H5C2 HS10	MP10T MQ10T	10H	NC-10	MA100	3E6 3E10	2E2D 2H2C	T38	TS10	R10K
2H15	H5C3	MP15D	15H	15H	MA150	3E15	2H1	T46	TL15	R15K
2H15B	H5C4	MT10D		WT-10			2H1T			

常规类型 EER磁芯

特点：

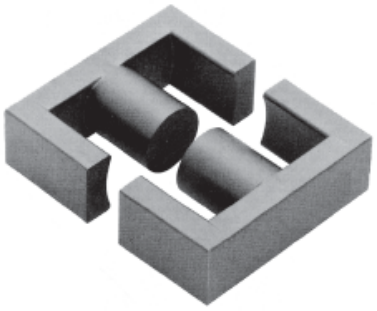
① 绕线更加容易。

② 可绕线面积增大。

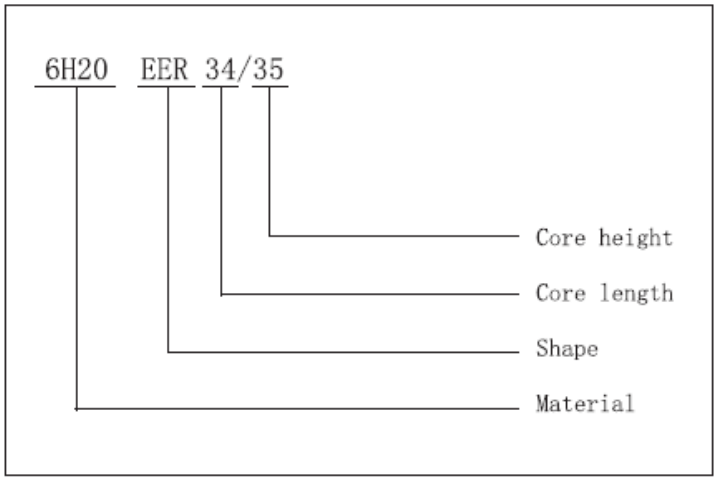
③ 有对应于ETD的规格供选择。

用途：

各种开关电源变压器，扼流圈等。



型号说明(Designation)：



品名 Product code	尺寸 Dimension					
	A	B	C	D	E	F
EER24/18	24.0±0.5	8.9±0.15	11.0±0.3	9.5±0.2	18.5min.	5.65±0.1
EER25/19	25.0±0.5	9.3±0.2	11.0±0.2	9.5±0.15	19.3min.	6.1±0.2
EER26/10B	25.5±0.5	5.05±0.15	7.5±0.2	7.5±0.15	19.8 min.	2.05±0.15
EER26/31B	25.5±0.6	15.5±0.3	7.5±0.25	7.5±0.25	19.7 min.	12.4±0.3
EER26/19B	25.5±0.5	9.3+0.3/-0.2	7.5±0.2	7.5±0.15	19.8 min.	6.2±0.2
EER28/28	28.6±0.5	14.0±0.2	11.4±0.25	9.9±0.15	21.2 min.	9.6+0.3/-0.2
EER28/34	28.6±0.5	16.9±0.25	11.4±0.25	9.9±0.25	21.2 min.	12.6±0.3
EER29/17	28.8±0.5	8.7±0.15	12.5±0.25	9.9+0.2/-0.15	22.8±0.45	5.45±0.1
EER29/20A	30.6+0/-1.4	10.1±0.2	9.8+0/-0.6	9.8+0/-0.6	22.4+1.0/-0	6.1±0.2
EER29/28A	29.3±0.5	14.0±0.25	11.4±0.25	9.9±0.25	22.1 min.	9.6±0.3
EER29/32	30.6+0/-1.6	16.0+0/-0.4	9.8+0/-0.6	9.8+0/-0.6	22.0+1.4/-0	10.7+0.6/-0
EER30/29	30.15±0.5	14.3±0.3	11.4±0.25	9.9±0.25	23.0 min.	9.9±0.2
EER32/17	31.5±0.5	8.7±0.4	11.4±0.25	9.8±0.2	26.0 min.	5.6±0.2
EER33/34.6	33.0±0.5	17.3±0.3	13.8±0.25	12.5±0.25	24.7 min.	12.8±0.3
EER34/35	35.0+0/-1.6	17.3±0.2	11.1+0/-0.6	11.1+0/-0.6	25.6+1.4/-0	11.8+0.6/-0
EER35/26	35.0±0.5	13.0±0.3	11.3±0.3	11.3±0.3	25.6 min.	8.0±0.3

Regular Type EER Core

Characteristics:

① Easier for winding.

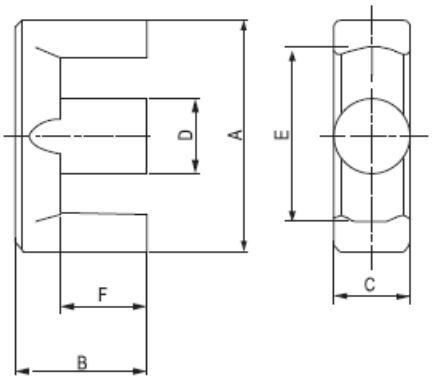
② Available area for winding is increased.

③ ETD series is also available.

Uses:

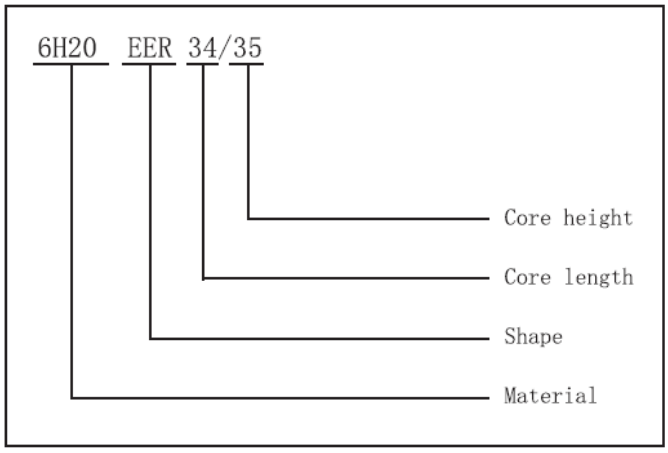
Varieties of switching power supply transformers, choke coils and so on.

产品图例(Summary):



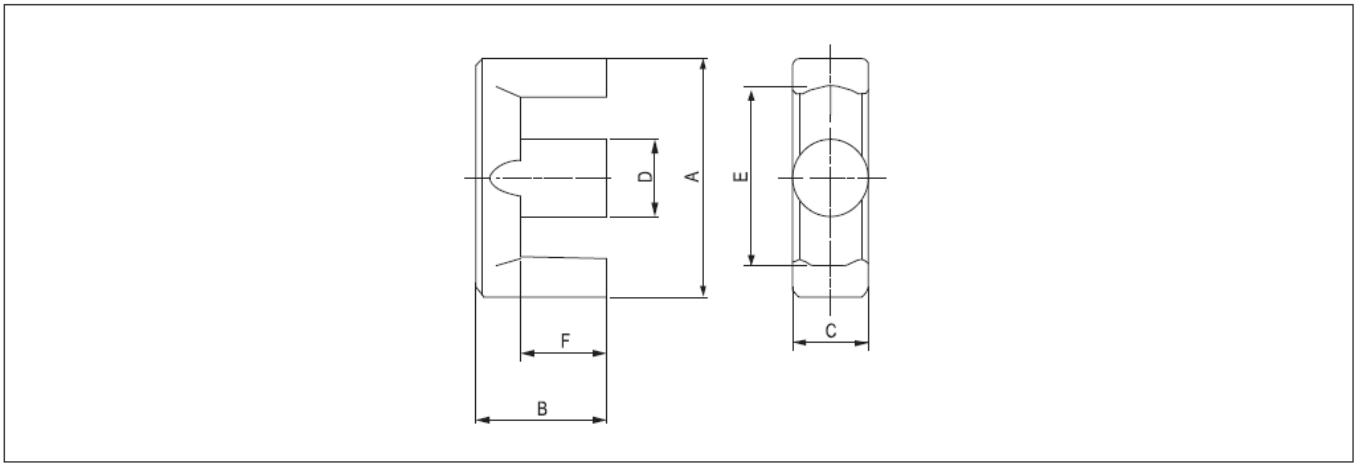
品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)			
	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	W (g)	4H45	6H40	6H45	6H60
EER24/18	42.6	69.6	2964.3	70.9	15.9	2800±25%			
EER25/19									
EER26/10B									
EER26/31B									
EER26/19B	48,2	44.8	2160	44.2	11				
EER28/28	62.9	86.3	5430	77	27.8	2600±25%	3000±25%		3500±25%
EER28/34	74.3	85.6	6360	77	32.4		2600±25%	2800±25%	3370±25%
EER29/17	45.56	79.7	3631	76.98	19.3				
EER29/20A	51.2	73.7	3773	70.9	18.9				
EER29/28A	66.6	71.6	4771		26				
EER29/32	72	76	5470	70.9	28.2		2300±25%		
EER30/29	65.92	84.65	5579.8		28				
EER32/17	49.7	69.4	3450	75.4	18.2				
EER33/34.6	77	124.1	9553.1		49				
EER34/35	79	97	7670	91.6	38	2400±25%	2800±25%	2800±25%	3700±25%
EER35/26	61.5	107.7	6623.5	100	35				

型号说明（Designation）：



品名 Product code	尺寸 Dimension					
	A	B	C	D	E	F
EER35/37	35.0±0.5	18.7±0.2	11.3±0.2	11.3±0.2	25.6min.	12.7±0.3
EER35/41	35.0±0.5	20.7±0.3	11.3±0.3	11.3±0.3	25.6min.	14.7±0.3
EER36/43A	36+0.5/-0.7	21.5±0.2	11.3±0.3	11.3±0.3	26.5min.	15.5±0.3
EER39/40	40+0/-1.8	19.8±0.2	12.8+0/-0.6	12.8+0/-0.6	29.3+1.6/-0	14.2+0.8/-0
EER39/45	39.0±0.4	22.7±0.2	12.8±0.25	12.8+0.2/-0.25	28.6min.	17.0+0.3/-0.1
EER42/42	42.0±0.5	21.2±0.2	15.2±0.25	15.2±0.25	28.0±0.5	15.0+0.5/-0
EER42/45	42.0±0.6	22.4±0.2	15.5+0.25/-0.5	15.5+0.25/-0.5	29.4min.	15.4±0.3
EER40/45	40.0±0.7	22.4±0.3	13.3±0.3	13.3±0.3	28.8min.	15.4±0.3
EER41/42	40.5±0.5	21.2±0.2	15.0±0.25	14.0±0.25	29.0min.	15.0+0.5/-0
EER42/43D	42.5±0.7	21.5±0.3	19.8±0.4	17.4±0.25	32.0min.	15.8±0.2
EER44/45	45.0+0/-2.0	22.3±0.2	15.2+0/-0.6	15.2+0/-0.6	32.5+1.6/-0	16.1+0.8/-0
EER49/49	49.8+0/-2.2	24.9+0/-0.4	16.7+0/-0.6	16.7+0/-0.6	36.1+1.8/-0	17.7+0.8/-0
EER49/54	49.0±0.5	26.8+0.4/-0	17.2±0.25	17.2±0.25	36.3min.	18.3+0.4/-0
EER55/57	55.0±0.5	28.4±0.4	24.7±0.4	20.6±0.3	42.2±0.5	19.0±0.3
EER59/35	59.0+0.8/-0.6	17.55±0.2	50.6+0.1/-0.6	23.2±0.3	50.4±0.5	8.8±0.15
EER90/90	90.0±1.8	45.0±0.65	30.0±1.0	30.0±1.0	68.5min.	35.5±0.5

产品图例（Summary）：



品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)			
	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	W (g)	4H45	6H40	6H45	6H60
EER35/37	82.3	111	9102	100.3	46				
EER35/41	90.1	110	9930	100	52.7		2800±25%		
EER36/43A	94.17	110.09	10367	110.28	51.8		2500±25%		
EER39/40	92.6	125	11600	123	57.2				
EER39/45	102	136	13900	129	69.7				
EER42/42	96.3	183	17600	181	92.5		4400±25%		
EER42/45	97.3	202	19600	189	95				
EER40/45	97.2	153	14900	139	75.9		3600±25%		
EER41/42	96.73	159.27	15405	153	80.3				
EER42/43D	100.7	234.6	23627	235.1	117				
EER44/45	104	175	18000		90.8		4000±25%		5500±25%
EER49/49	115	211	24200	209	128		4400±25%		
EER49/54	123	234	28800	232	152		4400±25%		
EER55/57									
EER59/35	75	423	31815		357.4				
EER90/90	221	626	138270	707	635				

平面型 EER 磁芯

特点：

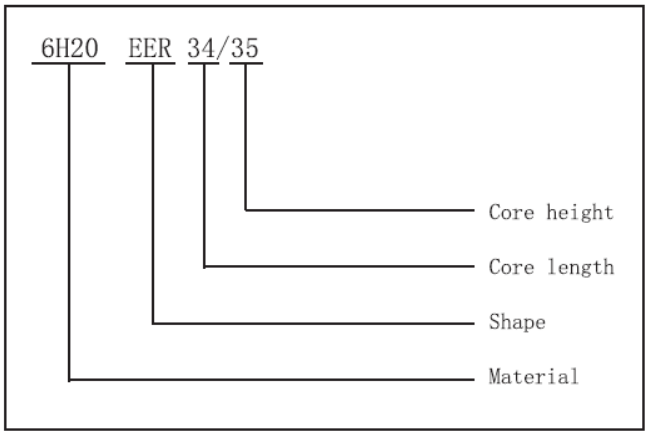
① 适合于变压器的平面化。

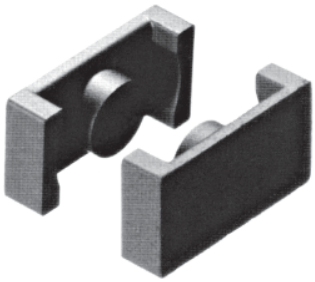
② 根据客户需要可提供各种各样磁芯规格。

用途：

DC-DC转换器（平面型变压器）。

型号说明(Designation)：





品名 Product code	尺寸 Dimension					
	A	B	C	D	E	F
EER11/05C	10.8±0.2	2.65±0.15	5.9±0.1	4.1±0.15	8.7min.	1.65±0.2
EER16/06	15.5±0.2	3.2+0/-0.15	7.0+0.1/-0.3	5.2+0/-0.2	11.7+0.4/-0	1.85+0.3/-0
EER19/12	19.0±0.35	6.2±0.2	17.0±0.2	5.5±0.2	14.6±0.35	3.6±0.2
EER26.7/13.4	26.7±0.5	6.7±0.15	18.0±0.3	11.05±0.2	23.5min.	4.2±0.2
EER30/16	30.0±0.4	8.2±0.15	16.0±0.2	11.1±0.2	25.6min.	5.2±0.15
EER32/24	31.8±0.5	12.0±0.2	20.2±0.3	13.2±0.2	26.6min.	9.2±0.2
EER77/57	77.0±1.2	29.5±0.3	47.5±0.7	36.0±0.5	61.4±0.9	18.3±0.3

Planar Type EER Core

Characteristics：

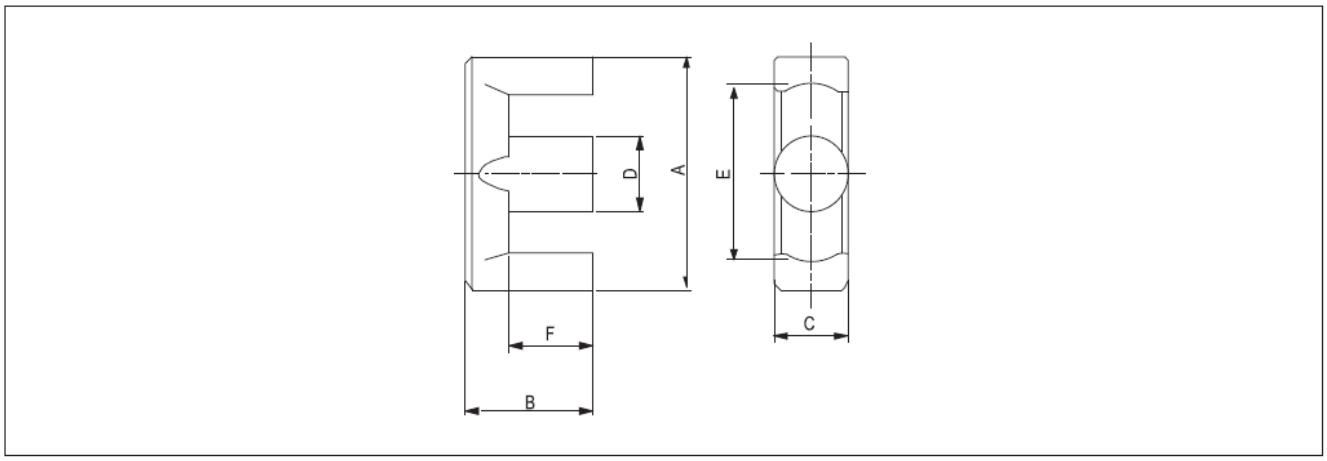
①Suitable for making planar transformer.

②Varieties of core types are available according to customers' needs.

Uses：

DC-DC converter (planar type transformer）

产品图例（Summary）：



品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)			
	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	W (g)	4H45	6H40	6H45	6H60
EER11/05C	14.35	12.26	176	13.2	1.1				
EER16/06									
EER19/12	31.36	83.91	2631.2	87.01	13.9	4700±25%			
EER26.7/13.4	34.4	91	3130.4		18.94				
EER30/16	45.76	94.03	4302.8	96.77	22.66				
EER32/24	59.8	132.8	7946	136.8	42.3				
EER77/57									

常规类型 EE 磁芯

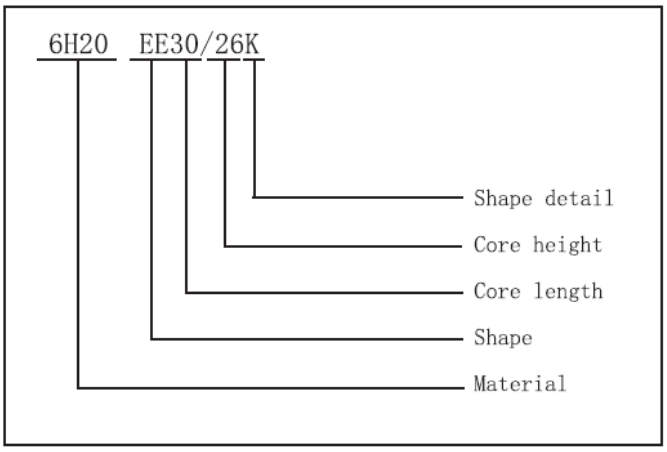
特点：

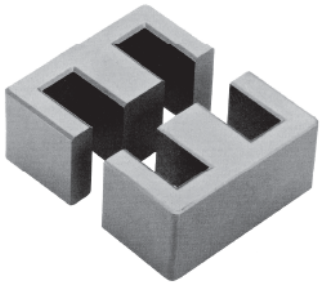
根据客户需要可提供各种各样磁芯规格。

用途：

开关电源用变压器，扼流圈，逆变器，转换器，脉冲变压器等。

型号说明(Designation)：





品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EE10/10-4.5W			10.0±0.3	5.05±0.1	4.45+0/-0.3	2.45±0.1	7.0min.	3.6+0.2/-0
EE10/11D		FEEl0.2	10.2±0.3	5.5±0.1	4.75±0.2	2.4±0.20	7.6min.	4.3+0.15/-0
EE12.6/13	E13/4	FEE12.7A	12.6+0.5/-0.4	6.5+0/-0.2	3.7+0/-0.3	3.7+0/-0.3	8.9+0.6/-0	4.5+0.3/-0
EE13/11			13.0±0.3	5.6+0.3/-0	6.5±0.2	3.8±0.15	9.8±0.3	4.1+0.3/-0
EE13/12C			13.0±0.2	6.0±0.15	6.15±0.15	2.75±0.15	10.2±0.2	4.6±0.1
EE16/14K			16.0±0.3	7.1+0.2/-0	5.0+0/-0.4	4.0+0/-0.4	12.0±0.3	5.1+0.25/-0
EE16/14C		FEE16A	16.0±0.3	7.2±0.3	5.0+0/-0.4	4.0±0.2	11.7min.	5.2±0.2
EE16/15			16.0±0.3	7.3±0.2	10.0±0.3	4.0±0.2	11.7min.	5.2±0.2
EE16/16			16.0+0.7/-0.5	8.2+0/-0.3	4.7+0/-0.4	4.7+0/-0.3	11.3+0.6/-0	5.7+0.4/-0
EE16/24B		FEE16B	16.4+0.6/-0.2	12.25±0.2	4.75±0.25	4.0±0.2	12.15min.	10.25±0.25
EE19/16H			19.3±0.3	8.2±0.2	9.6±0.2	4.55±0.15	14.3min.	5.95±0.15
EE19/16K		FEE19A	19.1±0.3	7.8+0.3/-0	5.2+0/-0.4	4.7+0/-0.3	14.2min.	5.5+0.4/-0
EE19/16N			19.3±0.3	8.2±0.2	5.2+0/-0.4	4.7+0/-0.3	14.3min.	5.95±0.2
EE20/20A	E20/6	FEE20.1	20.0±0.4	9.9±0.2	5.65±0.25	5.7±0.2	14.1min.	7.2±0.2

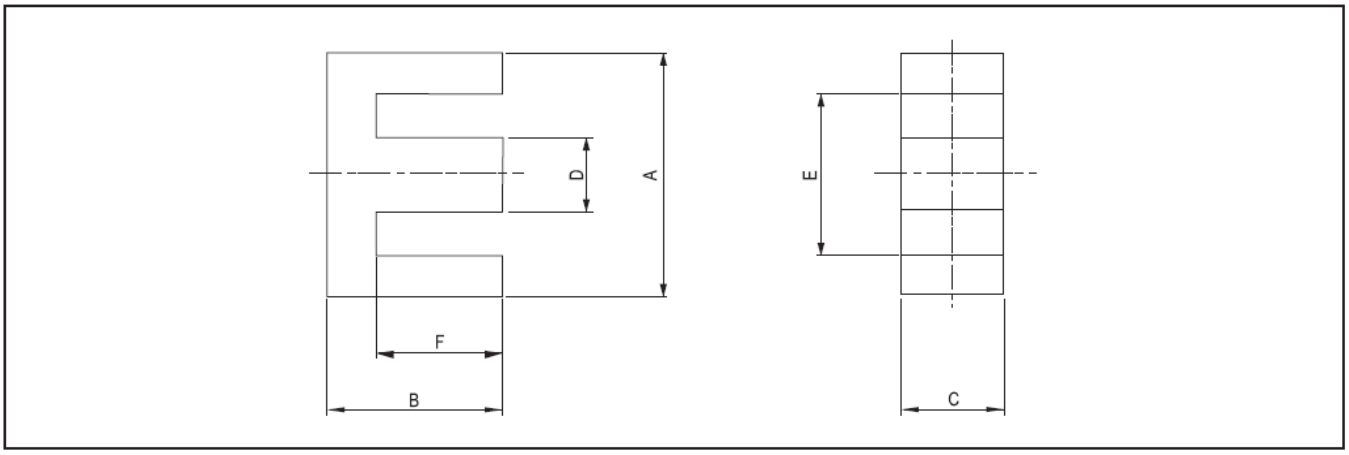
Regular Type EE Core

Characteristics：

Varieties of core types are available according to customers' needs.

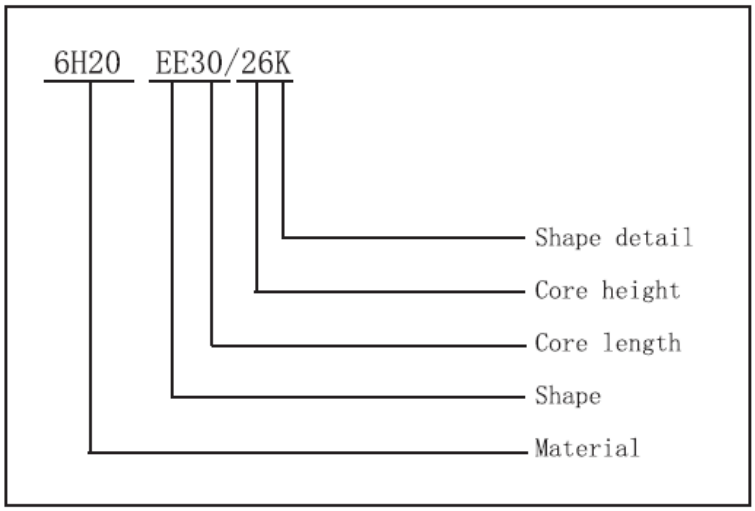
Usages: Switching power supply transformers, choke coils, inverters, converters, pulse transformers and so on.

产品图例(Summary)：



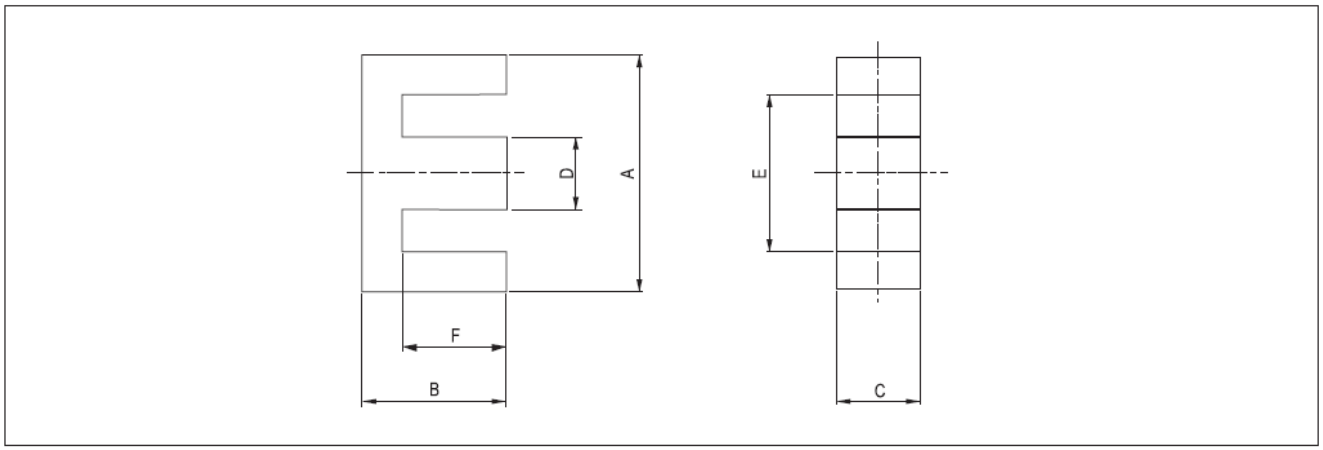
品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H10
EE10/10-4.5W	2.03	23.7	11.7	277				1.4		
EE10/11D	2.5	26.42	10.57	279.2				1.4	850±25%	
EE12.6/13	2.41	29.7	12.4	369	12.6	12.2L	26.3	1.9	800±25%	3500±25%
EE13/11	1.33	27.9	21.0	586	24.7	19.5B	25.5	3.1	1400±25%	
EE13/12C	1.77	30.2	17.1	517	16.9	16.9C	34.3	2.5	1100±25%	
EE16/14K	1.87	35.2	18.9	663	18.2	18.2C	42.6	3.2	1100±25%	
EE16/14C	1.83	35.1	19.2	674	19.2	19.2LBC	41.6	3.4	1100±25%	
EE16/15	0.87	35 2	40.6	1430				7.2		
EE16/16	1.87	37.6	20.1	756	20.5	19.4B	41.6	3.6	1100±25%	
EE16/24B	3.01	55.6	18.5	1030	19.0			5.2	800±25%	
EE19/16H	0.93	41	44	1802	43.7			9.1		
EE19/16K	1.72	39.6	23.1	915	22.8	22.8C	55.7	4.6	1200±25%	
EE19/16N	1.75	39.6	23.1	916	22.8	22.SC	56	4.6	1200±25%	
EE20/20A	1.45	46	32	1490	32.2	31.6B	62.6	7.5	1550±25%	

型号说明（Designation）：



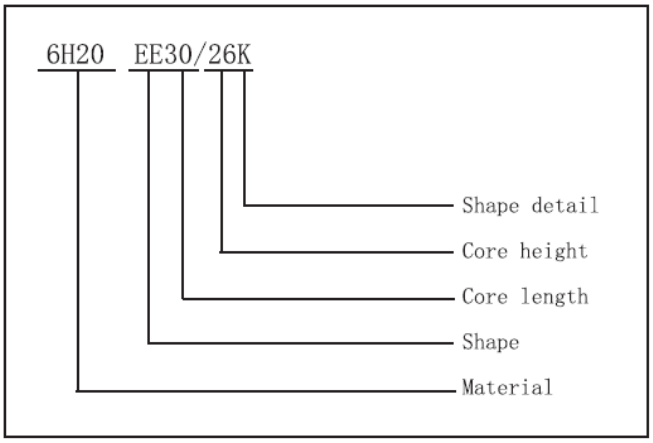
品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EE20/20D			20.4±0.4	10.15±0.15	5.65±0.25	5.7±0.2	14.5min.	7.45±0.2
EE20/20E			20.4±0.4	10.15±0.15	8.75±0.15	5.7±0.2	14.5min.	7.45±0.2
EE20/28			20. 0±0.3	13.95±0.25	5.0±0.2	4.55±0.2	14.3min.	11.45±0.15
EE22/19		FEE22A	22.0+0/-0.6	9.55±0.25	6.0+0/-0.5	6.0+0/-0.5	15.5min.	5.3+0.4/-0
EE22/29		FEE22B	22.0±0.5	14.5+0.5/-0	6.0+0/-0.5	6.0+0/-0.5	16.0±0.5	10.5+0.5/-0
EE22/30C			21.8±0.4	14.9±0.2	5.7±0.25	5.7±0.25	16.0min.	11.9±0.2
EE23/25			22.6±0.3	12.3±0.2	21.8±0.3	6.6±0.2	14.8min.	8.0±0.2
EE24/16			24.0±0.5	8.0±0.2	7.7+0.15/-0.25	6.6+0.15/-0.25	17.1min.	4.7+0.15/-0.25
EE24/31A			24.5+0.4/-0.3	15.3±0.3	9.4±0.15	7.8±0.15	16.7min.	11.4±0.25
EE25/14			25.0±0.5	6.95±0.2	15.0±0.2	7.5±0.2	17.8min.	3.55±0.2
EE25/20			25.0±0.3	10.0+0.3/-0	6.4±0.3	6.4±0.3	18.2min.	6.0+0.3/-0
EE25/20N			25.4±0.5	10.0±0.3	12.6±0.2	6.35±0.25	19.1±0.4	7.0±0.2
EE25/33			25.0±0.3	16.3+0.5/-0	6.5±0.25	6.5±0.25	18.15min.	13.0+0.4/-0
EE25/25B	E25/7	FEE25.1	25.05±0.75	12.55±0.25	7.25±0.25	7.25±0.25	17.5min.	8.95±0.25
EE25/25C			25.05±0.75	12.55±0.25	10.75±0.25	7.25±0.25	17.5min.	8.95±0.25
EE25/25H			25.05±0.6	12.55±0.25	8.85±0.2	7.25±0.25	17.5min.	8.95±0.25
EE25/25L			25.0±0.5	12.50±0.30	11.0±0.3	7.2±0. 3	17.5min.	9.0±0.30
EE25/19D			25.3±0.4	9.6±0.2	7.0±0.2	6. 5±0.25	18.5min.	6.6±0.2

产品图例（Summary）：



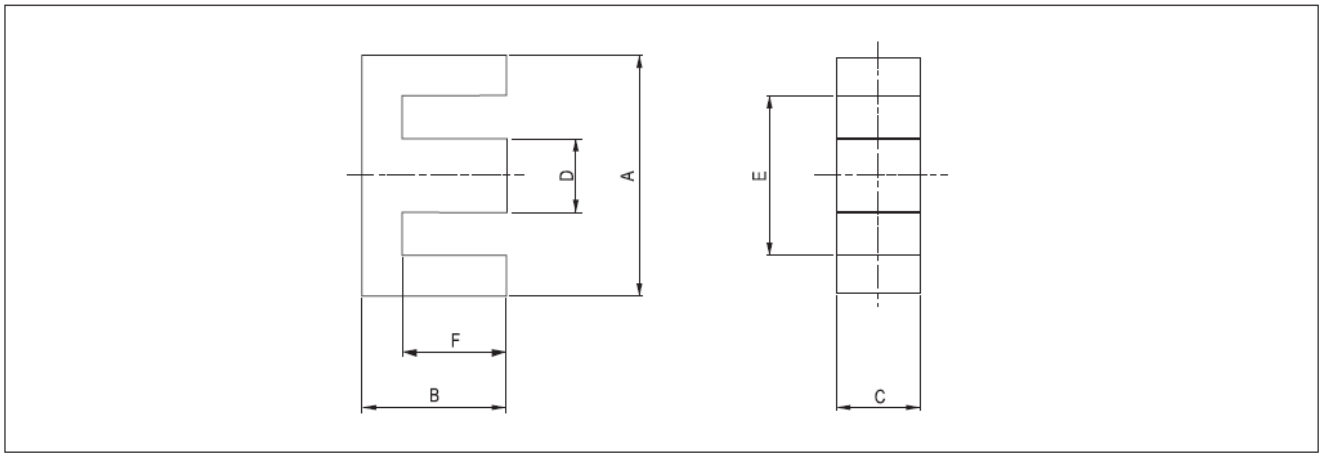
品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H10
EE20/20D	1.45	47.7	32	1490	32.2	31.6B	69.7	7.5	1550±25%	
EE20/20E	0.916	47.7	47.78	2282	49.9	49.1B	69.3	11.5	2200±25%	
EE20/28	2.61	63.5	24.3	1543				7.6	868±25%	
EE22/19	1. 15	42.5	37.0	1570	33.1	33.1C	54.7	8	1850±25%	
EE22/29	1.73	63.4	36.0	2280	33.0	33.0C	108	11.6	1200±25%	
EE22/30C	2.08	67.25	32.38	2177.3				11		
EE23/25	0.33	52.4	161	143.9	8431			44.5		
EE24/16	0.79	39.98	50.6	2018				10.1	2350±25%	
EE24/31A	0.909	66.6	73.3	4880	73.3	70.5L	105	24.5	2550±25%	
EE25/14	0.35	35.85	101.34	3632. 6	99.5	104.14		18.68	5900±25%	
EE25/20	1.16	49.3	42	2070	40.8	40.8C	80.5	10.5	1600±25%	
EE25/20N	0.64	50.3	78.2	3940				20	3300±25%	
EE25/33	1.79	75.2	42	3160	42.2	41.6L	160	15.8	1300±25%	
EE25/25B	1.11	57.7	51.7	2990	52.2	51.0L	95.8	15.0	2000±25%	
EE25/25C	0.75	57.8	77.3	4470	77.9			22.5	2800±25%	
EE25/25H	0.91	57.7	63.2	3651	64.2			18.5	2500±25%	
EE25/25L	0.74	57.86	77.75	4499				22.9		
EE25/19D	1.20	51.6	43	2232	45.5	42.0LB	84.5	10.6	1800±25%	

型号说明（Designation）：



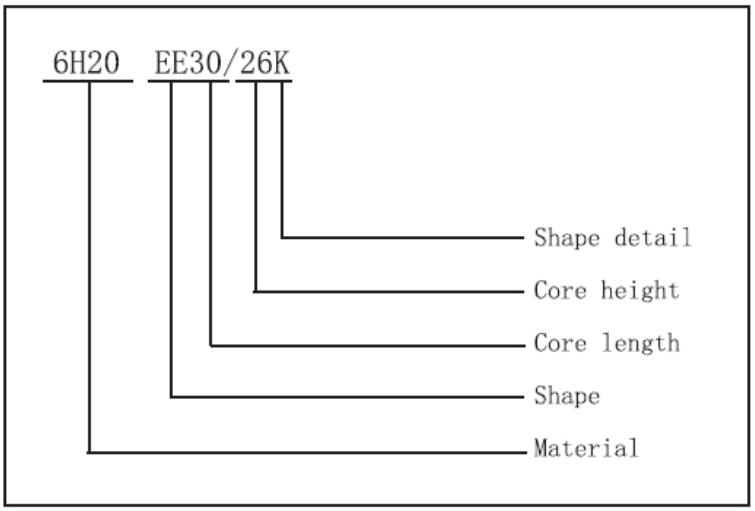
品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EE25/20B			25.3±0.4	9.95±0.2	6.6±0.25	6.4±0.2	19.0min.	6.75±0.15
EE25/23B			25.3±0.4	11.5±0.2	6.6±0.25	6.4±0.2	19.0min.	8.3±0.15
EE25/19Z		FEE25.4A	25.4±0.38	9.53±0.25	6.35±0.25	6.35±0.25	18.7min.	6.38±0.17
EE25/32Z		FEE25.4B	25.4±0.4	16.0±0.3	6.35±0.3	6.35±0.3	18.67min.	12.83±0.3
EE26/29A			26.0±0.3	14.35+0.4/-0	8.0±0.15	7.3±0.2	18.6min.	10.7±0.15
EE26/33A			26.0±0.3	16.35+0.4/-0	8.0±0.15	7.3±0.2	18.6min.	12.7±0.15
EE27/26			27.3±0.4	13.1±0.3	11.65±0.25	7.7+0.15/-0.2	19.3min	9.2±0.25
EE27/31			27.3±0.4	15.3±0.3	11.7+0.15/-0.2	7.7+0.15/-0.2	19.3min.	11.4±0.25
EE28/20			28.0±0.4	10.0+0.25/-0	11.0+0/-0.6	7.5+0/-0.5	18.6mm.	6.0+0.25/-0
EE28/20B			28.0±0.5	10.7+0.15/-0.1	12.0±0.3	7.2±0.3	18.6min.	6.2+0.15/-0.1
EE28/25A			28.0±0.3	12.5+0.35/-0.15	8.0±0.3	8.0+0.1/-0.3	19.6min.	8.5+0.25/-0.05
EE28/33		FEE28	28.0±0.4	16.5+0.5/-0	11.0+0/-0.6	7.5+0/-0.5	18.6min.	12.0+0.5/-0
EE28/28A			28.2±0.3	14.0+0.4/-0	8.0±0.15	7.3±0.2	20.8min.	10.35±0.15
EE30/26K		FEE30A	30.0±0.5	13.0+0.3/-0	11.0+0/-0.6	11.0+0/-0.6	19.5min.	8.0+0.3/-0
EE30/30A			30.0±0.5	14.9±0.25	6.9±0.3	6.9±0.2	19.5min.	10.15±0.2
EE30/31			30.0+0.5/-0.2	15.6±0.2	7.5±0.2	10.5±0.2	20.0min.	10.6±0.15
EE30/31A			30.0+0.5/-0.2	15.6±0.2	10.5±0.2	10.5±0.2	20.0min.	10.6±0.15
EE30/42K		FEE30B	30.0±0.4	21.0+0.5/-0	11.0+0/-0.6	11.0+0/-0.6	19.5min.	16.0+0.5/-0

产品图例（Summary）：



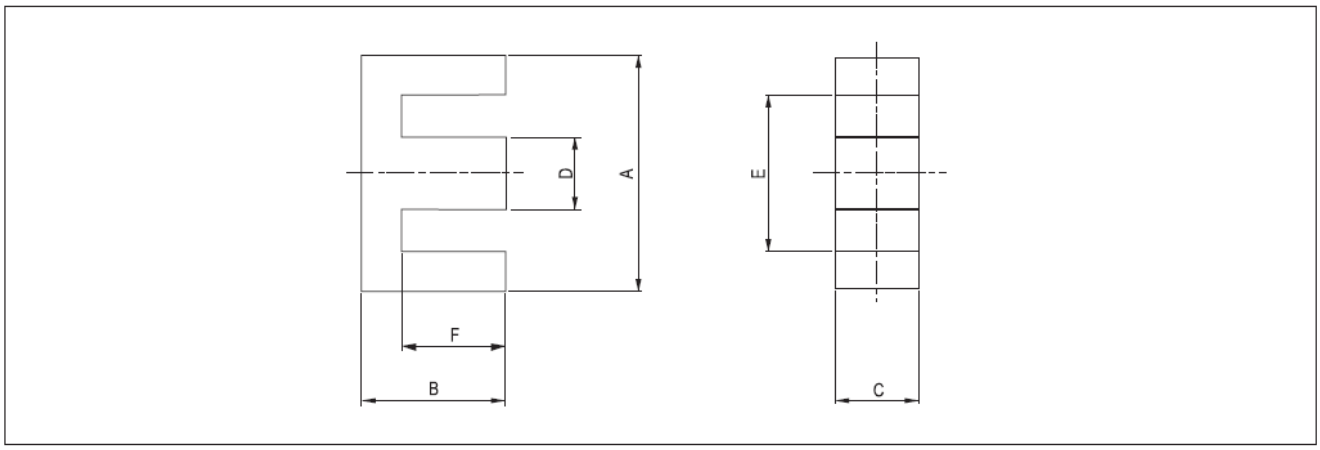
品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H10
EE25/20B	1.21	49.8	41.3	2060	42.2	39.6L	87.1	10.3	1800±25%	
EE25/23B	1.37	56	41	2300	42.2	39.6L	107	11.5	1650±25%	
EE25/19Z	1.20	48.1	40.2	1940	40.3	40.0B	81.0	10.3	1800±25%	9000+35%/-25%
EE25/32Z	1.84	74	40.3	2970	40.3	40.3LBC	163	14.8	1350±25%	
EE26/29A	1.33	76	57	4330	58.4	56.0L	203	19.1	1800±25%	
EE26/33A	1.48	84	56.9	4780	58.4	56.0L	241	21.3	1650±25%	
EE27/26	0.68	60.89	89.12	5425.22	88.91			27.6		
EE27/31	0.78	69.69	89.27	6221.16	89.11			31.4	2750±25%	
EE28/20	0.559	48.2	86.2	4160	77.6	77.6C	72	23	4000±25%	
EE28/20B	0.508	49.9	98.2	4910	86.4	86.4C	73.2	25.6	4500±25%	
EE28/25A	0.931	59	63.4	3740	63.2	63.2C	104	19.1	2400±25%	
EE28/33	0.844	73.6	87.2	6420	77	77.0C	145	32.1	2800±25%	
EE28/28A	1.48	84.2	56.9	4790	58.4	56.0L	144	19	1650±25%	
EE30/26K	0.528	57.9	110	6360	114	107L	75.8	32.2	4200±25%	
EE30/30A	1.15	66.1	57.3	3790	47.6	47.6C	134	20.7	1900±25%	
EE30/31	0.907	68.1	75.1	5110	78.8	72.0L	107	23.7	2600±25%	
EE30/31A	0.64	68	106.4	7181	110			36.3		
EE30/42K	0.823	90.2	110	9920	114	107LB	152	49.8	3000±25%	

型号说明（Designation）：



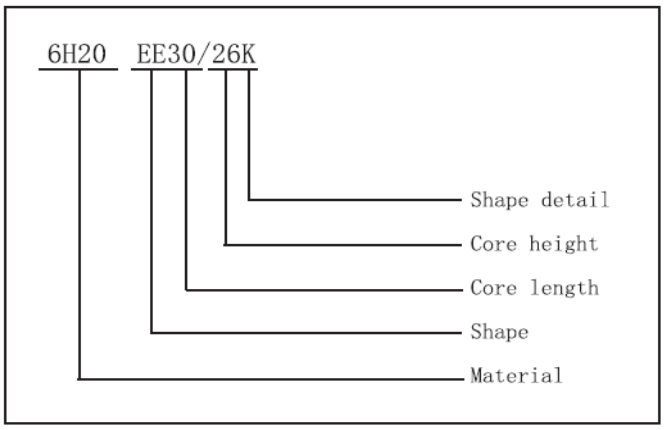
品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EE30/26B			30.1±0.3	13.13±0.12	10.69±0.3	10.69±0.27	20.0min.	8.13±0.12
EE31/26B			30.5±0.5	13.1±0.15	9.4±0.3	9.4±0.3	22.2min.	8.6+0.3/−0.1
EE31/27			30.7+0.8/−0.6	13.4±0.2	9.4±0.3	9.4±0.25	21.8min.	8.9±0.3
EE31/37			30.7±0.6	18.5±0.2	9.4±0.3	9.4±0.3	21.6min.	14.2+0.3/−0.1
EE32/32A	E32/9	FEE32.1	32.0+0.9/−0.7	16.1±0.3	9.15±0.35	9.2±0.3	22.7min.	11.6+0.3/−0.1
EE33/28B			33.2±0. 5	14.15±0.15	12.7±0.3	9.8±0. 3	23.7min.	9.65±0.15
EE33/33A			33.1±0.4	16.5±0.2	9.0+0/−0.4	9.0+0/−0.4	24.2min.	12.2±0.2
EE33/48			33.0±0.5	23.75±0.25	12.7±0.3	9.7±0.3	24.0±0.5	19.25±0.25
EE34/28A			34.6±0.45	14.2±0.2	9.27±0.25	9.27±0.25	25.4min.	9.9±0.25
EE35/22B			35.0±0.5	11.4±0.25	10.0±0.2	10.0±0.3	24.5min..	6.4±0.25
EE35/22E			35.0±0.5	11.4±0.25	30.0±0.3	10.0±0.3	24.5min.	6.4±0.25
EE35/22F			35.0±0.5	11.4±0.25	40.0±0.3	10.0±0.3	24.5min.	6.4±0.25
EE35/29A			34.93±0.5	14.43±0.25	9.53±0.25	9.53±0.25	25.04min.	9.68±0.25
EE35/35A			35.0±0.5	17.5±0.25	10.0±0.3	10.0±0.3	24.5min..	12.5±0.25
EE35/37			35.0+0.7/−0.5	18.3±0.2	10.0±0.3	10.0±0.3	24.5min..	13.3±0.2
EE35/48		FEE35B	35.0±0.5	24.2±0.4	10.3+0/−0.5	10.3+0/−0.5	25.0±0.5	18.2±0.3
EE35/48C		FEE35C	35.0+0.7/−0.5	24.2±0.4	11.7±0.3	10.0±0.3	24.5min.	18.2±0.3
EE40/34B			40.0±0.6	16.75±0.35	12.0+0/−0.7	12.0+0/−0.7	26.8min.	10.55+0.2/−0

产品图例（Summary）：



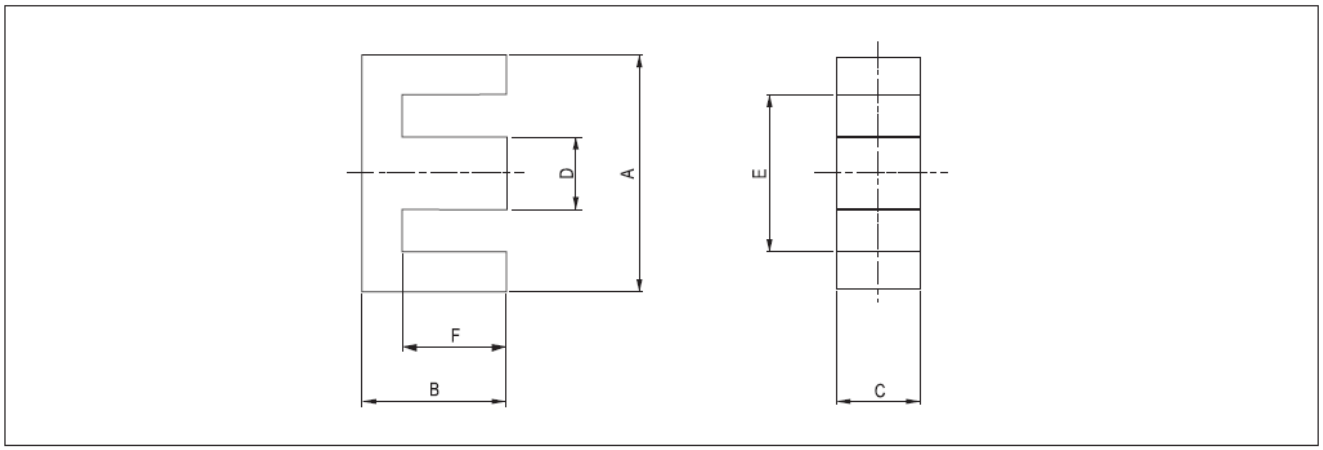
品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H10
EE30/26B	0.621	61.3	97.6	5980	114	107LB	76.4	32	4200±25%	
EE31/26B	0.723	61.0	84.4	5150	88.4	79.9L	110	25.8	3150±25%	
EE31/27	0.76	62.5	82.7	5169				26	2900±25%	
EE31/37	1.01	83.5	82.5	6874				35.0	2100±25%	
EE32/32A	0.886	74.8	84.4	6310	84.2	78.7L	167	31.0	2700±25%	
EE33/28B	0.561	65.6	117	7680	123	114LB	138	39	4150±25%	
EE33/33A	1.02	78.1	76.3	5960	77.4	75.7LB	299	29.5	2600±25%	
EE33/48	0.9	105.6	117	12337	123.2			62	2600±25%	
EE34/28A	0.852	69.9	82.1	5750	85.9	79. 7B	164	29.5	2500±25%	
EE35/22B	0.562	56.2	100	5624.3				29.1		
EE35/22E	0.19	56.2	300	16885.9				87.2		
EE35/22F	0.14	56.4	401.4	22641				112		
EE35/29A	0.768	69.6	90.6	6300	90.8	90.5LB	154	32.2	2750±25%	
EE35/35A	0.807	80.7	100	8070	100	100LBC	188	40.6	3000±25%	
EE35/37	0.839	83.9	100	8390	100	100LBC	200	42.5	2600±25%	
EE35/48	1.01	105	104	10800	100	100LC	273	54	2500±25%	
EE35/48C	0.863	105	121	12700	117	117LC	273	63.5	2900±25%	
EE40/34B	0.544	77.5	142	11000	137	137C	167	52	4200±25%	

型号说明（Designation）：



品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EE40/34A			40.0±0.5	16.7+0.6/-0	12.0+0/-0.7	11.0+0/-0.6	27.4min.	10.0+0.5/-0
EE40/34K		FEE40A	40.0±0.5	16.7+0.6/-0	11.0+0/-0.6	11.0+0/-0.6	27.4min .	10.0+0.5/-0
EE40/35A			40.8±0.55	16.6±0.25	12.4±0.3	12.5±0.3	28.6min .	10.7±0.28
EE41/33			41.28±0.8	16.76±0.13	12.7±0.25	12.7±0.25	28.01min.	10.54±0.13
EE42/42-15W	E42/15	FEE42.2A	42.0+1.0/-0.7	21.2+0/-0.4	15.2+0/-0.5	12.2+0/-0.5	29.5+1.2/-0	14.9+0.6/-0
EE42/42-20W	E42/20	FEE42.2B	42.0+1.0/-0.7	21.2+0/-0.4	20.0+0/-0.8	12.2+0/-0.5	29.5+1.2/-0	14.9+0.6/-0
EE50/40-16W			49.5±0.95	19.75±0.25	16.1±0.3	15.1±0. 3	34.38±0.65	12.2±0.3
EE50/40-32W			49. 5±0.95	19.75±0.25	32.2±0.3	15.1±0.3	34.38±0.65	12.2±0.3
EE55/55A	E55/21	FEE55.2A	55.0+1.2/-0.9	27.8+0/-0.6	21.0+0/-0.6	17.2+0/-0.5	37.5+1.5/-0	18.5+0.8/-0
EE55/55B	E55/25	FEE55.2B	55.0+1.2/-0.9	27.8+0/-0.6	25.0+0/-0.8	17.2+0/-0.5	37.5+1.5/-0	18.5+0.8/-0
EE56/47A			56.6±0.55	23.6±0. 25	18.7±0.3	18.7±0. 3	38.1min.	14.8±0.3
EE65/65			65.2±1.4	32.5±0. 5	26.9±0.5	19.6±0. 5	44.2min.	22.6±0.5
EE70/108-20W			70.0±1.3	54.0±0.3	20+0.3/-0.5	22.2±0.4	46.3min.	42.8±0.3
EE71/66			70.5±0.15	33.2±1.0	32+0/-0.8	22+0/-0.7	4.8+1.5/-0	21.9+0.7/-0
EE80/76			80.0±1.0	38.1±0.4	19.8±0.4	19.8±0.4		28.2±0.3

产品图例（Summary）：



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H10
EE40/34A	0.557	77.4	139	10800	125	125C	177	56.4	4500±25%	
EE40/34K	0.608	77.4	127	9860	114	114C	178	52	3800±25%	
EE40/35A	0.526	78.1	149	11600	155	145L	178	58.8	4250±25%	
EE41/33	0.483	77.3	160	12400	161	158LB	169	63	4950±25%	
EE42/42-15W	0.542	97.8	180	17600	180	180BC	276	87	4400±25%	
EE42/42-20W	0.415	97.8	236	23000	235	235BC	276	118	5600±25%	
EE50/40-16W	0.38	91.92	243.53	22386.3				112		
EE50/40-32W	0.19	91.34	483.95	44204.1				224		
EE55/55A	0.350	124	353	43700	352	352C	400	218	6700±25%	
EE55/55B	0.295	124	420	52000	417	417C	400	260	8650±25%	
EE56/47A	0.316	107	345	36700	352	329B	292	189	6500±25%	
EE65/65	0.27	147	535	78600				394	7900+30%/-20%	
EE70/108-20W	0.52	231.8	444.3	10300				515	5100±25%	
EE71/66	0.22	150	687	103333				527	9600±25%	
EE80/76	0.491	185	377	69800	392	352L	1480	350	4800±25%	

平面型 EE 磁芯

特点：

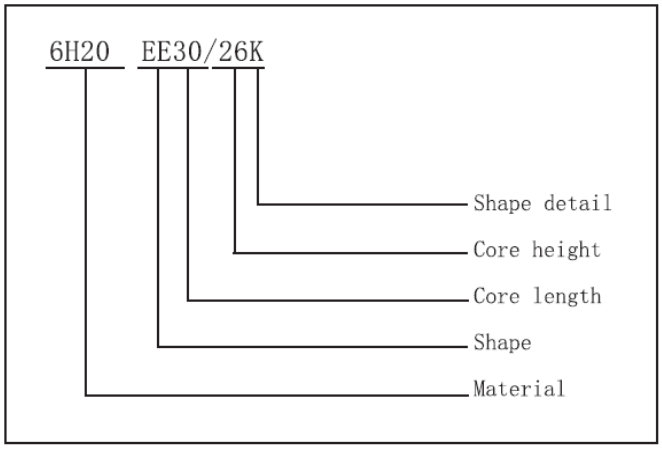
① 适合于变压器的扁平化。

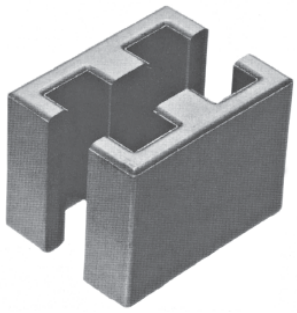
② 根据客户需要可提供各种各样磁芯规格。

用途：

DC-DC转换器（平面型变压器）。

型号说明(Designation)：





品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EE05/05	E5.3/2	FEE5.25	5.25±0.05	2.65±0.05	1.95±0.05	1.35±0.05	3.85typ.	2typ.
EE08/08			8.3±0.2	4.0±0.1	3.9±0.15	1.85±0.2	6.0+0.3/-0	3.0+0.2/-0.05
EE09/08	ES.8/2	FEE9	9.017typ.	3.937±0.127	1.905±0.102	1.905±0.127	5.207±0.127	2.159±0.127
E10/10A			10.2±0.3	4.75±0.2	12.0±0.3	2.4±0.2	7.6min.	3.75±0.15
EEI0/11			10.2±0.3	5.5±0.2	9.9±0.2	2.4±0.2	7.6min.	4.3±0.2
EE13/13B			12.9±0.4	6.5±0.2	9.8±0.2	3.5±0.2	9.0min.	4.8±0.2
EE14/04			14.2±0.2	2.05±0.05	6.7±0.1	2.8±0.1	11.0min.	0.7±0.1
EE14/06			14.2±0.2	2.85±0.05	10.0±0.2	3.4±0.1	12.2±0.1	1.2±0.1
EE14/07	E/E14		14.0±0.3	3.5±0.1	5.0±0.1	3.0±0.1	11.0±0.25	2.0±0.1
EE15/08			15.0±0.3	3.5±0.2	10.2+0.2/-0.4	3.15±0.15	11.7min.	2.4±0.15
EE17/17			16.5+0.4/-0.3	8.4+0/-0.3	8.4+0/-0.3	4.7+0/-0.3	11.7min.	5.7+0.4/-0
EE18/08	E/EI8		18.0±0.35	4.0±0.1	10.0±0.2	4.0±0.1	14.0±0.3	2.0±0.1
EE19/16L			19.3+0.5/-0.3	7.9±0.25	9.5±0.2	4.6±0.15	14.4min.	5.6±0.15
EE20/19D			20.0±0.4	9.6±0.2	12.0±0.2	5.8±0.2	13.5min.	6.9±0.2
EE20/20E			20.4±0.4	10.15±0.15	8.75±0.15	5.7±0.2	14.5min.	7.45±0.2
EE20/20F			20.4±0.4	10.15±0.15	10.95±0.2	5.7±0.2	14.5min.	7.45±0.2
EE22/10			21.8±0.4	4.8±0.15	15.8±0.3	5.0±0.1	16.8±0.4	1.65±0.15
EE22/11A	E/E22		21.8±0.4	5.7±0.1	15.8±0.3	5.0±0.1	16.8±0.4	3.2±0.1
EE25/18			25.0+0/-0.5	9.0+0/-0.25	10.5+0/-0.4	7.8±0.2	17.0min.	5.0+0/-0.25
EE25/20D			25.4±0.5	9.7±0.2	25.0±0.3	6.35±0.25	19.1±0.4	6.7±0.2
EE25/20N			25.4±0.5	10.0±0.3	12.6±0.2	6.35±0.25	19.1±0.4	7.0±0.2

Planar Type EE Core

Characteristic:

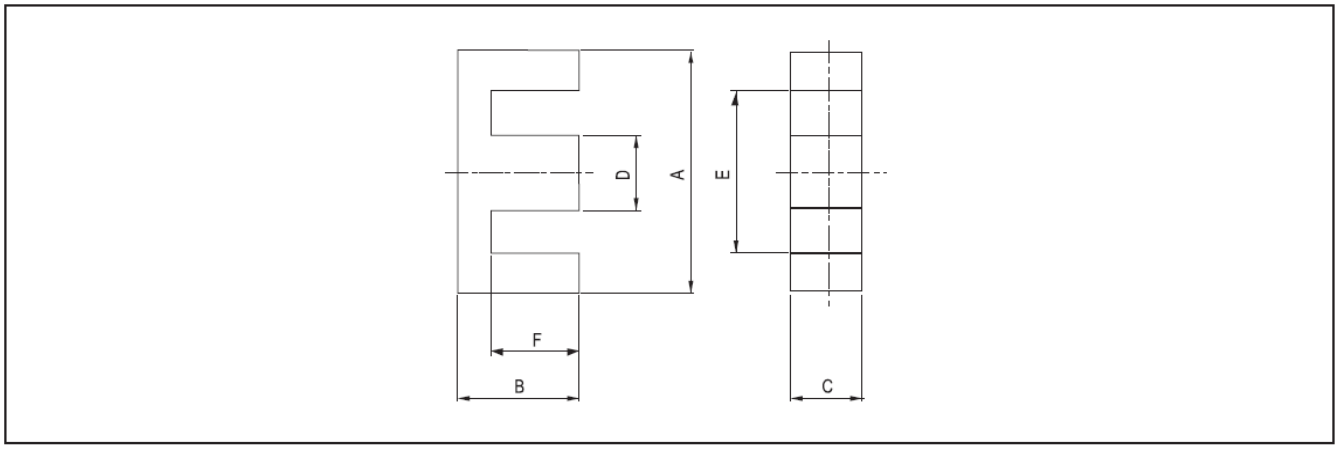
① Suitable for making planar transformers.

② Varieties of core types are available for customers to choose.

Uses:

DC-DC converter (planar type transformer)

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H10
EE05/05	4.77	12.6	2.64	33.2	2.63	2.54B	5.00	0.17	200min.	980min.
EE08/08	2.51	19.4	7.74	150				0.8	675+35%/-15%	
EE09/08	3.13	22.9	8.4	78.0	3.61	3.61C	7.23	0.40	450min.	1800min.
E10/10A	0.88	23.7	27	641				3.28	2500±25%	
EE10/11	1.07	26.2	24.4	640				3.2		
EE13/13B	0.89	30.4	34.3	1046				5.4	2250±25%	
EE14/04	0.9	15.7	17.4	273	18.3			1.56		
EE14/06	0.65	16.48	25.29	416.84	18.56	18.56		2.71		
EE14/07	1.45	20.7	14.3	296	15	13.9L	16.0	1.5		
EE15/08	0.86	22.08	25.58	564.98	31.82			1.65	2100±25%	
EE17/17	1.03	38.26	37.29	1426.7	37.32	36.62		7.0		
EE18/08	0.618	24.3	39.3	955	40	38.9L	20.0	4.8		
EE19/16L	0.9	39.65	44	1745	43.8			8.9		
EE20/19D	0.645	44.2	68.5	3026				15.5		
EE20/20E	1.0	47.7	47.88	2282				11.5	2200±25%	
EE20/20F	0.79	47.7	60.3	2872				15.0	2700±25%	
EE22/10	0.45	27.0	89.4	2415.7	79.0			12.9		
EE22/11A	0.414	32.5	78.3	2540	79.0	77.9L	37.8	12.7		
EE25/18	0.52	41.3	79.7	3290	80.34			16.8		
EE25/20D	0.33	50.44	155	7817.25				39.1		
EE25/20N	0.64	50.3	78.2	3940				20.0		

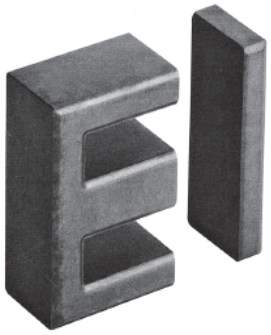
常规类型 EI 磁芯

特点：

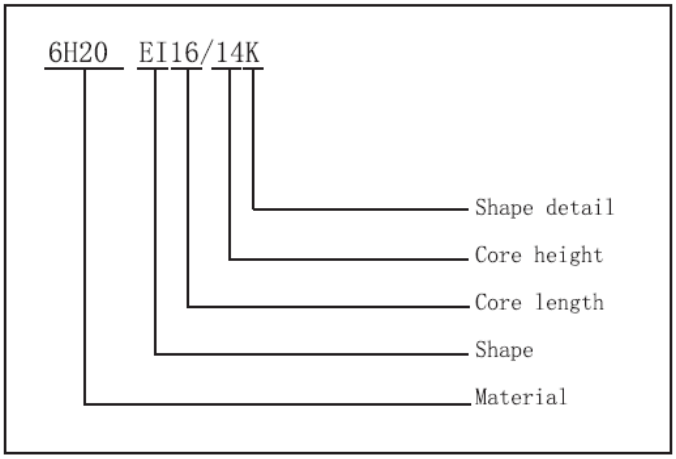
① 根据客户需要可提供各种各样磁芯规格。

用途：

开关电源用变压器，扼流圈，逆变器，转换器，脉冲变压器等。



型号说明(Designation)：



品名 Product code	规格 General standard		尺寸 Dimension (mm)						
	IEC	JIS	A	B	C	D	E	F	I
EI12.5/09		FEI12.5	12.5±0.3	7.6+0/-0.4	5.0±0.2	2.6+0/-0.4	9.0min.	4.9+0.4/-0	1.5±0.15
EI16/14K		FEI16	16.0±0.3	12.0+0.4/-0	5.0+0/-0.4	4.0±0.2	11.8min.	10.0+0.4/-0	2.0±0.2
EI19/16		FEI19	19.0+0.4/-0.3	13.4±0.3	5.0±0.2	4.5±0.2	14.2min.	11.0±0.3	2.4±0.2
EI22/18		FEI22	22.0±0.5	14.5+0.5/-0	6.0+0/-0.5	6.0+0/-0.5	16.0±0.5	10.5+0.5/-0	4.0±0.2
EI25/19			25.0±0.3	16.3+0.5/-0	6.5±0.25	6.5±0.25	18.15min.	13.0+0.4/-0	3.0±0.2
EI25/19Z		FEI25.4	25.4+0.5/-0.4	16.0±0.3	6.35±0.3	6.35±0.3	18.6min.	12.9±0.3	3.2±0.2
EI28/20		FEI28	28.0±0.4	16.5+0.5/-0	11.0+0/-0.6	7.5+0/-0.5	18.6min.	12.0+0.5/-0	3.5±0.2
EI30/26K		FEI30	30.0±0.4	21.0+0.5/-0	11.0+0/-0.6	11.0+0/-0.6	19.5min.	16.0+0.5/-0	5.5±0.2
EI33/29			33.0±0.5	23.75±0.25	12.7±0.3	9.7±0.3	24.0±0.5	19.25±0.25	5.0±0.3
EI35/29		FEI35A	35.0±0.5	24.2±0.4	10.3+0/-0.5	10.3+0/-0.5	25.0±0.5	18.2±0.3	5.0±0.2
EI40/35K		FEI40	40.2±0.5	27.0+0.5/-0	12.0+0/-0.7	12.0+0/-0.7	27.3min.	20.0+0.5/-0	7.5±0.3
EI50/42K		FEI50	50.0±0.7	33.0+0.7/-0	15.0+0/-0.8	15.0+0/-0.8	33.5min.	24.5+0.7/-0	9.0±0.3

Regular Type EI Core

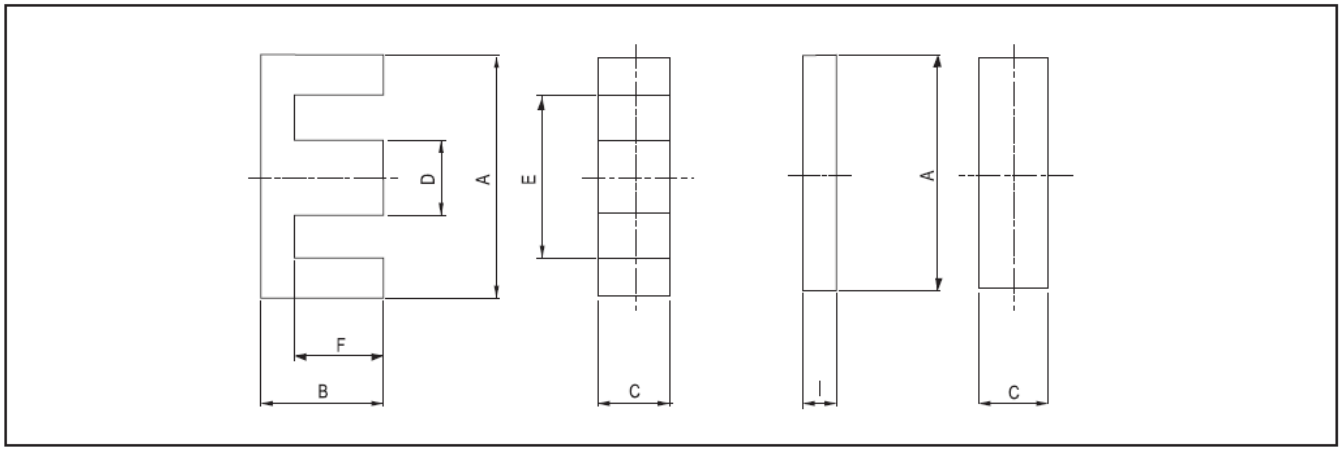
Characteristics:

Varieties of core types are available for customers to choose.

Uses:

Switching power supply transformers, choke coils, inverters, converters, pulse transformers and so on.

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	7H10
EI12.5/09	1.42	21.6	15	324	12	12.0C	35.2	1.9	1000±25%	
EI16/14K	1.81	34.6	19	657	19.2	18.7L	82.6	3.3	1000±25%	
EI19/16	1.71	39.3	23	903	22.5	22.5LC	55.0	4.5	1100±25%	
EI22/18	1.11	41.9	37	1550	33.1	33.1C	110	8.3	1700±25%	
EI25/19	1.17	48.5	42	2040	42.3	41. 6L	160	10.1	1750±25%	
EI25/19Z	1.20	48.3	40.2	1940	40.3	39.4B	81.7	9.7	1700±25%	
EI28/20	0.569	48.4	84	4070	77.6	77.6C	144	22	3400±25%	
EI30/26K	0.524	58.1	111	6450	114	107LB	151	32.3	4000±25%	
EI33/29	0.567	67.6	119.3	8067.4				41	4200±25%	
EI35/29	0.66	67.3	102	6870	101	101LC	272	36.3	3000±25%	
EI40/35K	0.522	76.8	148	11400	136	136C	323	59.2	4200±25%	
EI50/42K	0.412	94.7	230	21800	213	213C	497	114	5000±25%	

平面型EI磁芯

特点：

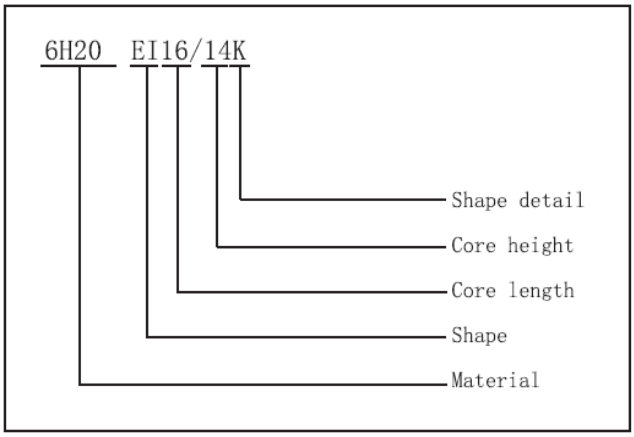
① 适用于变压器的扁平化。

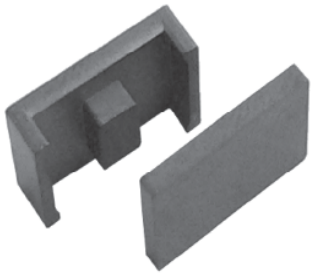
② 根据客户需要可提供各种各样磁芯规格。

用途：

DC-DC转换器（平面型变压器）。

型号说明(Designation)：





品名 Product code	规格 General standard		尺寸 Dimension (mm)							
	IEC	JIS	A	B	C	C1	D	E	F	I
EI11/03		*	10.83±0.18	2.3±0.05	5.9±0.1	4.2±0.1	2.90±0.1	8.80±0.15	1.3±0.1	0.95±0.05
EI14/05	E/PLT14		14.0±0.3	3.5±0.1	5.0±0.1		3.0±0.1	11.0±0.25	2.0±0.1	1.5±0.1
EI18/06	E/PLT18		18.0±0.35	4.0±0.1	10.0±0.2		4.1±0.1	14.0±0.3	2.0±0.1	2.0±0.1
EI22/08			21.6±0.25	5.72±0.07	10.9±0.25		5.08±0.12	16.1min	3.18±0.1	2.54±0.12
EI22/08A	E/PLT22		21.8±0.4	5.7±0.1	15.8±0.3		5.0±0.1	16.8±0.4	3.2±0.1	2.5±0.1
EI22/09			21.6±0.25	5.72±0.07	15.9±0.25		5.08±0.12	16.1min	3.18±0.1	2.54±0.12
EI24/07A			23.55±0.4	5.6+0.1/-0	16.2±0.2		6.4±0.1	17.15±0.25	3.7+0.15/-0	1.80±0.05

Planar Type EI Core

Characteristics:

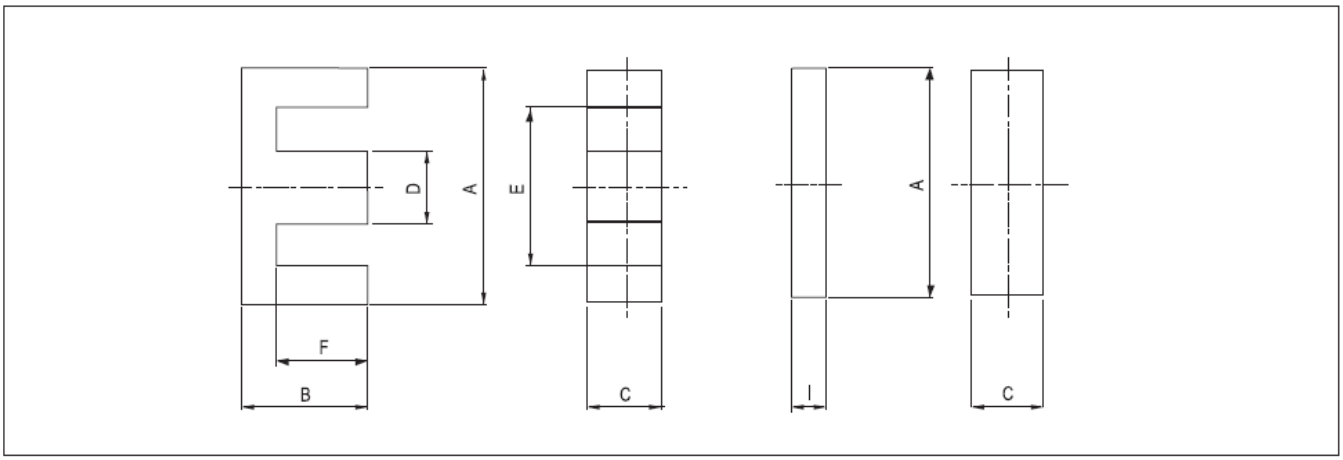
① Suitable for making planar transformers.

② Varieties of core types are available for customers to choose.

Uses:

DC-DC converter (planar type transformer)

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	6H40
EI11/03	1.17	11.82	10.14	119.85	11.97	9.30		0.79		
EI14/05	1.15	16.7	14.5	242	15	13.9L	8.0	1.2	1270±25%	
EI18/06	0.513	20.3	39.5	802	40	38.9L	10.0	4.0	3080±25%	
EI22/08	0.32	25.8	80.5	2080	80.5	80.5LBC	15.0	15.0	5350±25%	
EI22/08A	0.332	26.1	78.5	2050	79	77.9L	18.9	18.9	6000±25%	
EI22/09	0.32	25.8	80.5	2080				10.8		
EI24/07A	0.38	25.48	67.52	1720.21	88.32			9.63		

常规类型 RM 磁芯

特点：

① RM磁芯按IEC标准形状设计。

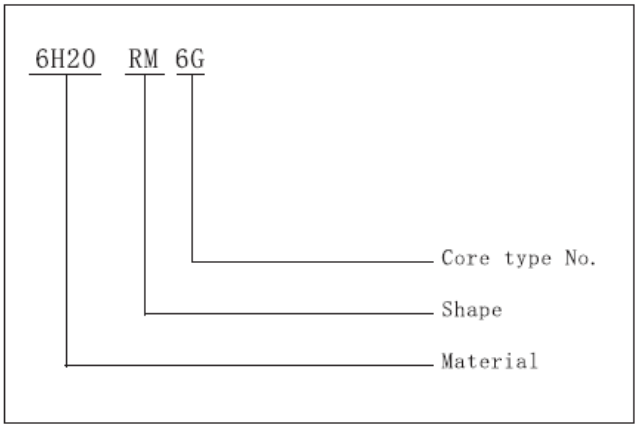
② 适合于高密度安装。

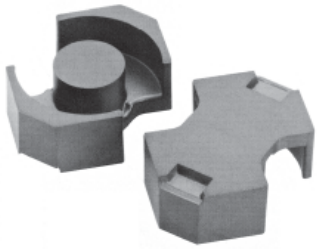
③ 磁芯电感可调节。

用途：

各种开关电源用变压器，扼流圈，滤波器，电感等。

型号说明(Designation)：





品名 Product code	类型	规格 General standard		尺寸 Dimension (mm)							
		IEC	JIS	A1	A2	B	C	D1	E	F	G
RM4G	1	RM4-φ		9.8+0/-0.4	11.0+0/-0.4	5.25+0/-0.1	4.6+0/-0.2	3.9+0/-0.2	8.0+0/-0.3	3.5+0.2/-0	5.8min.
RM5G	1	RM5-φ	RM5-J	12.3+0/-0.4	14.9+0/-0.8	5.25+0/-0.1	6.8+0/-0.4	4.9+0/-0.2	10.2+0.4/-0	3.15+0.2/-0	6.0min.
RM6G	2	RM6-A-φ	RM6-S-J	14.7+0/-0.6	17.9+0/-0.6	6.25+0/-0.1	8.2+0/-0.4	6.4+0/-0.2	12.4+0.5/-0	4.0+0.2/-0	8.4min.
RM7G	2			17.2+0/-0.7	20.3+0/-0.8	6.75+0/-0.1		7.25+0/-0.3	14.75+0.65/-0	4.2+0.25/-0	9.3min.
RM8G	1	RM8-φ	RM8-J	19.7+0/-0.7	23.2+0/-0.9	8.25+0/-0.1	11.0+0/-0.4	8.55+0/-0.3	17.0+0.6/-0	5.4+0.2/-0	10.5min.
RM10G	1	RM10-φ	RM10-J	24.7+0/-1.1	28.5+0/-1.3	9.35+0/-0.1	13.5+0/-0.5	10.9+0/-0.4	21.2+0.9/-0	6.2+0.3/-0	11.3min.
RM10B	1			24.15±0.55	27.85±0.65	9.4±0.15	13.25±0.25	10.7±0.2	21.65±0.45	6.455±0.15	13.7min.
RM12G	1	RM12-φ	RM12-J	29.8+0/-1.2	37.6+0/-1.5	12.3+0/-0.1		12.8+0/-0.4	24.9+1.1/-0	8.4+0.3/-0	12.9min.
RM14G	1	RM14-φ	RM14-J	34.8+0/-1.3	42.2+0/-1.2	15.1+0/-0.1	19+0/-0.6	15+0/-0.5	29+1/-0	10.4+0.3/-0	17min.

Regular Type RM core

Characteristics:

① RM core is designed according to IEC standard core types.

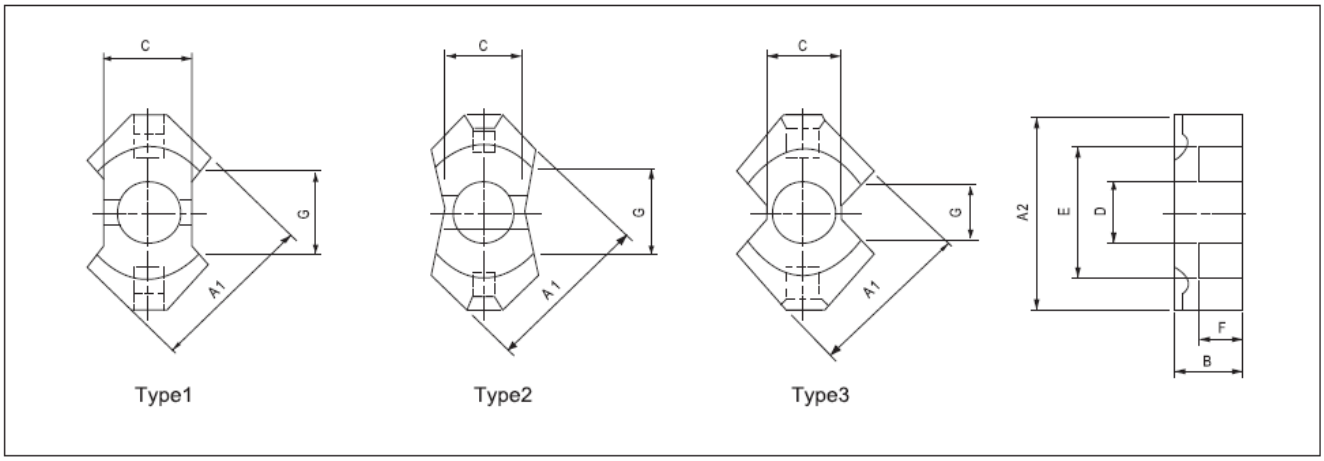
② Suitable for high-dense mount.

③ Core inductance is adjustable.

Uses:

Varieties of switching power supply transformers, choke coils, filters, inductors and so on.

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)		
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H07	2H10
RM4G	1.7	22	13	286	11.3	11.3	14.6	1.65	950+30%/-20%	1800±30%	3700+40%/-30%
RM5G	0.938	22.3	23.8	530	18.1	18.1C	18.2	3.2	2000+30%/-20%	3500±30%	6700+40%/-30%
RM6G	0.799	28.5	35.7	1020	31.2	30.7B	26	5.3	2400+30%/-20%	4300±30%	8600+40%/-30%
RM7G	0.700	30.4	43	1340	39.6	39	68.98	7.2	2600+30%/-20%	5500±30%	9900+40%/-30%
RM8G	0.59	38	64	2400	55.4	55.0B	52.2	12.2	3300+30%/-20%	6000±30%	12500+40%/-30%
RM10G	0.453	45	99	4500	90	90.0C	69.5	22	4200+30%/-20%		
RM10B	0.445	44.19	99.31	4388.23	89.92			20.66	4800±25%		
RM12G	0.374	56	150	8400	125	125C	113	44.1	5300+30%/-20%		
RM14G	0.35	70	200	14000	170.9	170	155.6	74	6000+30%/-20%		

平面型RM磁芯

特点：

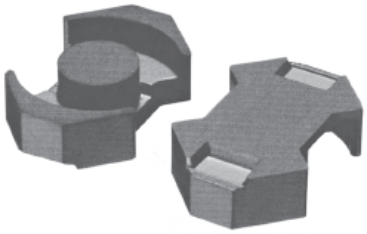
① 适合于变压器的扁平化。

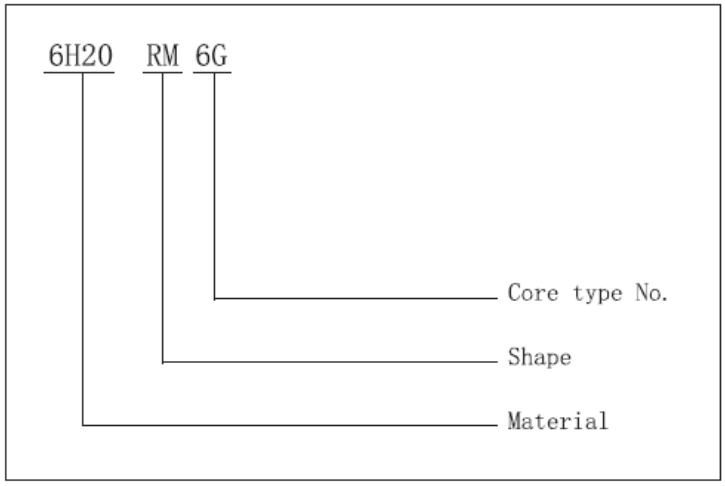
② 根据客户需要可提供各种磁芯规格。

用途：

DC-DC转变器（平面型变压器）

型号说明(Designation)：





品名 Product code	类型	规格 General standard		尺寸 Dimension (mm)							
		IEC	JIS	A1	A2	B	C	D1	E	F	G
RM5GA	1			12.3+0/-0.4	14.9+0/-0.8	3.56±0.05	6.8+0/-0.4	4.9+0/-0.2	10.2+0.4/-0	1.6±0.1	6.0min.
RM5GP	1	RM5/8		12.3+0/-0.4	14.9+0/-0.8	3.9+0/-0.1	6.8+0/-0.4	4.9+0/-0.2	10.2+0.4/-0	1.8+0.2/-0	6.0min.
RM6GL	2			14.7+0/-0.6	17.9+0/-0.6	3.55+0/-0.1	8.2+0/-0.4	6.4+0/-0.2	12.4+0.5/-0	1.35+0.2/-0	8.4min.
RM6GP	2	RM6/9		14.7+0/-0.6	17.9+0/-0.6	4.5+0/-0.1	8.2+0/-0.4	6.4+0/-0.2	12.4+0.5/-0	2.25+0.2/-0	8.4min.
RM8GP	1	RMS/11		19.7+0/-0.7	23.2+0/-0.9	5.8+0/-0.1	11.0+0/-0.4	8.55+0/-0.3	17.0+0.6/-0	2.95+0.2/-0	10.5min.
RM10GL	1			24.7+0/-1.1	28.5+0/-1.3	4.75±0.1	13.5+0/-0.5	10.9+0/-0.4	21.2+0.9/-0	1.98±0.1	11.3+1.3/-0
RM10GP	1	RMl0/13		24.7+0/-1.1	28.5+0/-1.3	6.5+0/-0.1	13.5+0/-0.5	10.9+0/-0.4	21.2+0.9/-0	3.35+0.2/-0	11.3min.
RM12GB	1			29.8+0/-1.2	37.6+0/-1.5	8.5±0.2	(15.79)	12.8+0/-0.4	24.9+1.1/-0	5.35±0.15	12.9min.
RM12GP	1	RM12/17		29.8+0/-1.2	37.6+0/-1.5	8.4+0/-0.1	(15.79)	12.8+0/-0.4	24.9+1.1/-0	4.5+0.25/-0	12.9min.

Planar Type RM Core

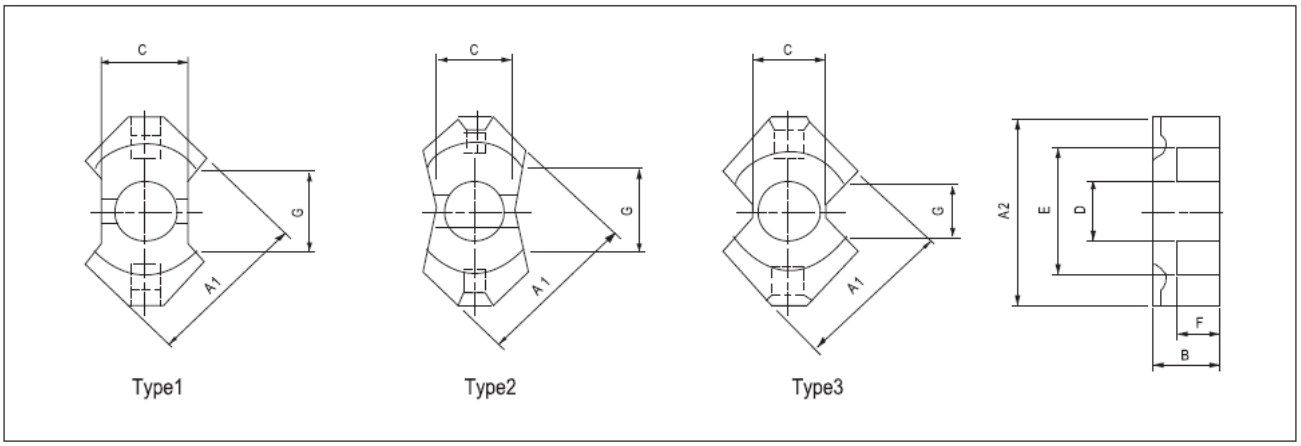
① Suitable for making planar transformers.

② Varieties of core types are available for customers to choose.

Uses:

DC-DC converter (planar transformers)

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)		
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	7H20	2H10
RM5GA	0.794	18.9	23.8	450	18.1	18.1C	8.3	2.4	2070±25%		
RM5GP	0.704	17.4	24.7	430	18.1	18.1C	9.5	2.6	2270±25%		
RM6GL	0.496	17.7	35.7	632	31.2	30.7B	8.1	3.4	3020±25%		
RM6GP	0.611	22	36	791	31.2	30.7B	13.5	4	2660±25%		
RM8GP	0.409	27.7	67.6	1870	55.4	55B	24.9	9.2	4075±25%		
RM10GL	0.271	26.8	99	2650	90	90C	20.3	13.2	6100±25%	4300±25%	
RM10GP	0.334	33.4	100	3340	90	90C	34.5	17.2	5300±25%		
RM12GB	0.271	26.8	99	2653	125	125C	20.4	13.2	6100±25%		
RM12GP	0.279	41.3	148	6120	125	125C	54.5	33.6	6730±25%		

常规类型 EP 磁芯

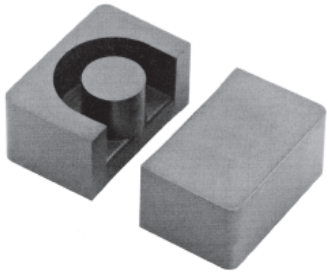
特点：

① 为高密度安装而设计的磁芯形状，可有效减小变压器的体积。

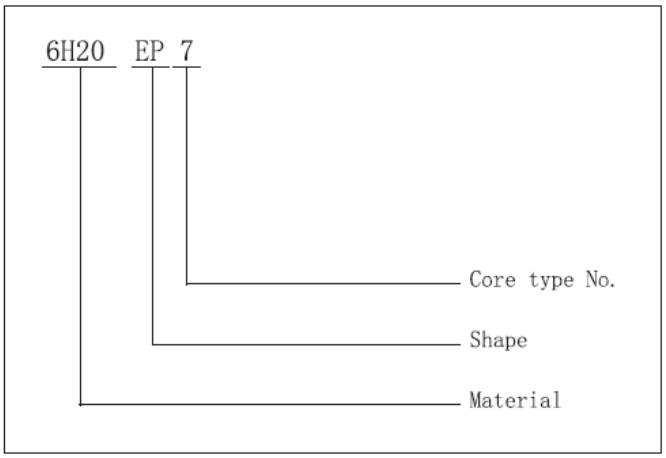
② 具有良好的屏蔽功能。

用途：

宽频带变压器，开关电源变压器，线圈等。



型号说明(Designation)：



品名 Product code	规格 General standard		尺寸 Dimension (mm)					
	IEC	JIS	A	B	C	D	E	F
EP5	EP5		6.15+0/-0.3	2.85+0/-0.1	3.9+0/-0.2	1.8+0/-0.2	4.25+0.3/-0	1.9+0.2/-0
EP7	EP7	EP7	9.2±0.2	3.75+0/-0.1	6.5+0/-0.3	3.4+0/-0.2	7.4±0.2	2.5+0.2/-0
EP10	EP10	EP10	11.5±0.3	5.2+0/-0.2	7.85+0/-0.4	3.45+0/-0.3	9.4±0.2	3.6+0.2/-0
EP13	EP13	EP13	12.5±0.3	6.5+0/-0.15	9.0+0/-0.4	4.5+0/-0.3	10.0±0.3	4.5+0.2/-0
EP13B			12.5±0.4	6.5±0.15	9.0+0/-0.4	4.5+0/-0.4	9.9min.	4.7+0.2/-0.1
EP17	EP17	EP17	18.0±0.4	8.5+0/-0.3	11.25+0/-0.5	5.85+0/-0.35	12.0±0.4	5.5+0.3/-0
EP20	EP20	EP20	24.0±0.5	10.8+0/-0.2	15.3+0/-0.7	9.0+0/-0.5	16.5±0.4	7.0+0.3/-0
EOP7			9.4+0/-0.4	3.75+0/-0.1	9+0/-0.4	3.4+0/-0.2	7.2+0.4/-0	2.3+0.2/-0
EPM13			12.8+0/-0.6	6.5+0/-0.15	7.4+0/-0.4	4.5+0/-0.3	9.7+0.6/-0	4.5+0.2/-0
EPM24/13			23.9±0.4	6.75+0/-0.2	19.9±0.4	9.5+0/-0.4	19.9±0.4	3.35+0.3/-0

Regular Type EP Core

Characteristic:

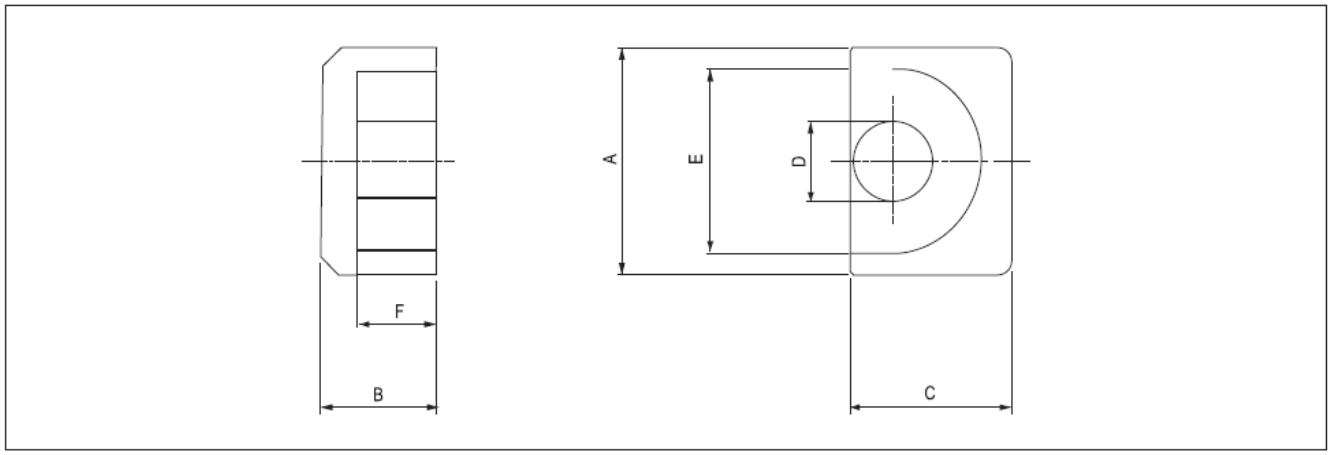
① This core type is designed specially for high-dense mount and can effectively reduce the volume of transformers.

② Superior electromagnetic shielding effect.

Usages:

Wide frequency transformers, switching power supply transformers, coils and so on.

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)			
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H07	2H10	2H15
EP5	3.15	9.73	3.09	30	2.27	2.27	5.4	0.5	350+30%/-20%	530+30%/-20%	2000+40%/-30%	2300+40%/-30%
EP7	1 52	15.7	10.3	163	8.55	8.55C	10.7	1.3	1100+30%/-20%	2000+-30%	5200+40%/-30%	
EP10	1.70	19.2	11.3	218	8.55	8.55C	22.6	2.8	1100+30%/-20%	2000+-30%	4800+40%/-30%	
EP13	1 24	24.2	19.6	476	14.9	14.9C	26.0	4.8	1600+30%/-20%	3000+-30%	7000+40%/-30%	8500+40%/-30%
EP13B	1.24	24.2	19.6	476	14.9	14.9C	26.0	4.8	-			7800min.
EP17	0.84	28.5	33.9	964	25.3	25.3C	35.7	11.8	2400+30%/-20%			
EP20	0.508	39.8	78.3	3110	60.1	60.IC	55.4	29.2	4000+30%/-20%			
EOP7	0.88	15.6	17.7	276	16.1	13.9	9.84	2.8	1600+30%/-20%	2750+30%/-20%	9000+40%/-30%	10500+40%/-30%
EPM13	1.34	25.8	19.3	498	14.9	14.9	26.0	3	1250+30%/-20%	2550+30%/-20%	6600+40%/-30%	8500+40%/-30%
EPM24/13	0.38	34.32	91.36	3135.5				20.26	5000±25%			

常规类型 PM 磁芯

特点：

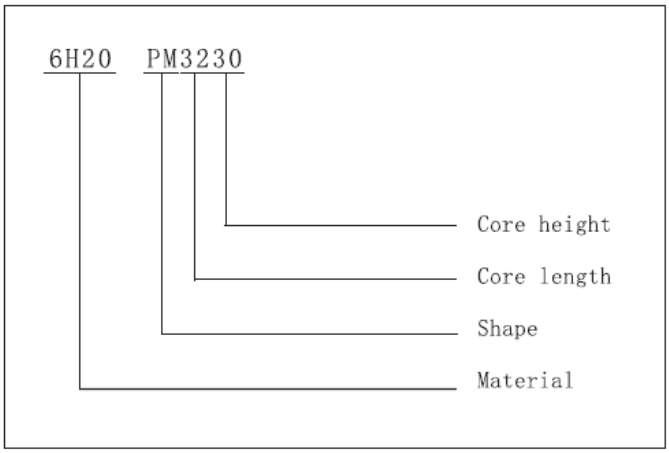
① 有10种形状构成系列供选用。

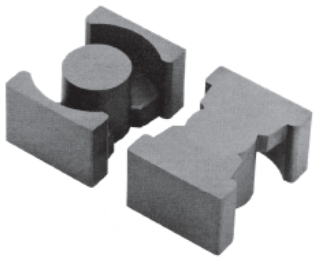
② 为高密度安装而设计的磁芯形状。

用途：

开关电源用变压器，扼流圈等。

型号说明(Designation) ：





品名 Product code	类型	尺寸 Dimension (mm)						
		A	B	C	D	E	F	G
PM1720A		16.6±0.3	10.1+0/-0.3	15.4±0.3	6.9±0.15	13.9min.	7.3+0.1/-0.2	11.4min.
PM2020	1	20.5±0.4	10.2+0/-0.2	14.0±0.4	9.0+0/-0.4	18.0±0.4	7.0+0.3/-0	12.0min.
PM2620	1	26.5±0.45	10.2+0/-0.25	19.0±0.45	12.2+0/-0.4	22.5±0.45	5.6+0.3/-0	15.5min.
PM2616	1	26.5±0.5	8.0+0/-0.25	19.0±0.5	12.2+0/-0.4	22.5±0.5	3.4+0.5/-0	15.5min.
PM2625	1	26.5±0.5	12.5+0/-0.25	19.0±0.5	12.2+0/-0.4	22.5±0.5	7.9+0.3/-0	15.5min.
PM27/25/19	1	27.3±0.46	12.35±0.125	19.0±0.45	12.0±0.2	22.5±0.46	8.05±0.15	15.5min.
PM27/30/19	1	27.3±0.46	15.0±0.125	19.0±0.45	12.0±0.2	22.5±0.46	10.7±0.15	15.5min.
PM3218H	1	32.0±0.5	9.05±0.25	22.0±0.5	13.7+0/-0.5	27.5±0.5	4.5±0.3	19.0min.
PM3225	1	32.0±0.5	12.45±0.15	22.0±0.5	13.45±0.25	27.5±0.5	8.25±0.2	19.0min.
PM3220	1	32.0±0.5	10.4+0/-0.25	22.0±0.5	13.7+0/-0.5	27.5±0.5	5.6+0.5/-0	19.0min.
PM3230	1	32.0±0.5	15.3+0/-0.25	22.0±0.5	13.7+0/-0.5	27.5±0.5	10.5+0.5/-0	19.0min.
PM3525	1	35+0.7/-0.5	12.5±0.15	26.0±0.5	14.6+0/-0.5	32.0±0.5	7.6±0.2	23.5min.
PM3530	1	35+0.7/-0.5	15+0/-0.25	26.0±0.5	14.6+0/-0.5	32.0±0.5	9.85+0.5/-0	23.5min.
PM3535	1	35+0.7/-0.5	17.5+0/-0.25	26.0±0.5	14.6+0/-0.5	32.0±0.5	12.35+0.5/-0	23.5min.
PM36/42/26	1	36.1±0.6	21.0±0.125	26.0±0.5	14.2±0.25	32.0±0.5	16.15±0.15	23.5min.
PM4029	1	40.5±0.9	14.5±0.25	28.0±0.6	15.2+0/-0.6	37.0±0.6	9.4±0.25	27.5min.

Regular Type PM core

Characteristics:

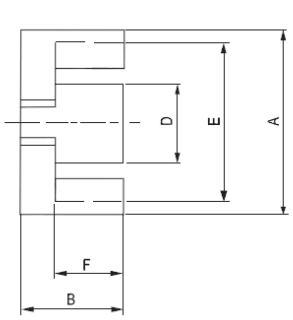
① 10 kinds of core types which form a complete series available.

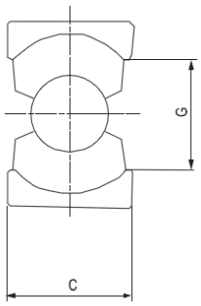
② Suitable for high-dense mount.

Usages:

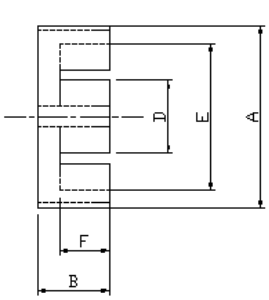
Switching power supply transformers, choke coils and so on.

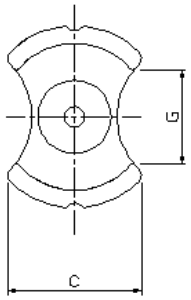
产品图例(Summary)：





Type 1

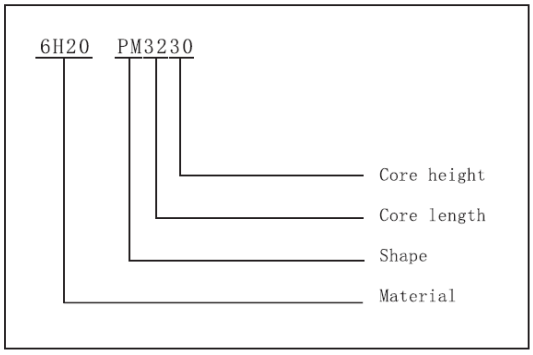




Type 2

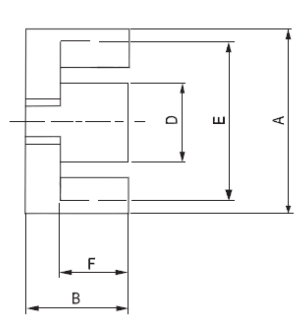
品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)			
	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	W (g)	4H45	6H40	6H45	6H60
PM1720A	43.5	54.8	2410	51.9	12.1		2500±25%		
PM2020	45.4	62	2790		15		2900±25%	2900±25%	
PM2620	46.3	119	5490		31		5500±25%	5530±25%	7020±25%
PM2616	37.5	118	4425	113	12.4		6300±25%		
PM2625	55.5	118	6530	113	34.8		4650±25%		
PM27/25/19	54.3	120	6530		36.8				5900±25%
PM27/30/19	63.8	120	7670		41.5				5300±25%
PM3218H	44.15	156.9	6930	142	39.1		6400±25%		
PM3225	58.3	145	8460.6	142.1	48.8		4800±25%		6800±25%
PM3220	55.5	170	9420	142	41.2		6750±25%		8200±25%
PM3230	74.6	161	12000	142.8	56.6		4900±25%	5040±25%	6100±25%
PM3525	66.73	182.83	12201	162	28		6000±25%		8700±25%
PM3530	77.9	196	15300	162	31.3		5000±25%		6200±25%
PM3535	87.9	196	17300	162	71.4	3590±25%	5135±25%		5500±25%
PM36/42/26	100.7	189	19000		87				5744±25%
PM4029	71.32	192.6	13737	174.37	76.8				

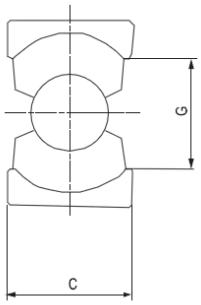
型号说明（Designation）：



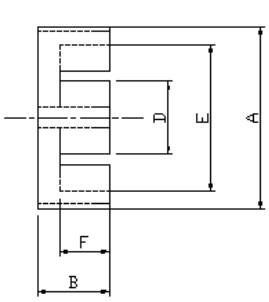
品名 Product code	类型	尺寸 Dimension (mm)						
		A	B	C	D	E	F	G
PM4033A	1	40.5±0.5	16.5+0/-0.4	28.0±0.4	14.9±0.3	36.5min.	11.25±0.2	27.5min.
PM4040	1	40.5±0.9	20.0+0/-0.25	28.0±0.6	15.2+0/-0.6	37.0±0.6	14.6+0.3/-0	27.5min.
PM6249	2	62+0/-2	24.65+0.3/-0.1	47.2MAX.	25.5+0/-0.8	48.8+1.5/-0	17.25±0.2	29.0min.
PM5039B	2	50+0/-1.7	19.4±0.2	36.5MAX.	20.0+0/-0.6	39+1.3/-0	13.4±0.2	23.4min.
PM5039C	1	50±0.9	19.5+0.2/-0.15	32.0±0.6	20.0±0.35	44.0±0.7	12.65+0.25/-0.1	31.5min.
PM5044C	1	50±0.9	22.25±0.2	32.0±0.6	20.0±0.35	44.0±0.7	15.35±0.3	31.5min.
PM5032C	1	50±0.7	16.0±0.2	32.0±0.6	20.0±0.35	44.0±0.7	9.05±0.25	32.0min.
PM5035C	1	50±0.7	17.5±0.25	32.0±0.6	20.0±0.35	44.0±0.7	10.55±0.25	32.0min.
PM4850		48±0.7	25.0±0.15	32.0±0.6	18.0±0.4	42.0±0.7	18.05±0.2	32.0±0.7
PM5050C	1	50±0.7	25.0±0.2	32.0±0.6	20.0±0.35	44.0±0.7	18.05±0.25	32.0min.
PM8632		86.5±1.2	16.2±0.2	52.0±0.8	38.75±0.6	70.75	6.2±0.25	52.5
PM10336		103±1.2	18.0±0.2	60.0±0.7	52.0±0.8	88	8.0±0.25	60
PM6542	1	65±1.0	21.0±0.45	40.0±0.8	26+0.45/-0.55	53.0±1.0	12.0±0.5	40.0±0.8
PM6554	1	65±0.8	27.0±0.45	40.0±0.7	26.0±0.45	53.0±0.7	18.0±0.5	40.0±0.7
PM6560H	1	65±1.0	30.0±0.45	40.0±0.8	26+0.45/-0.55	53.0±1.0	21.2±0.2	40.0±0.8

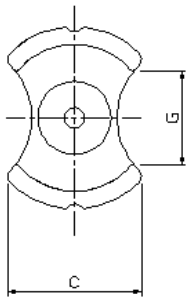
产品图例(Summary)：





Type 1





Type 2

品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)			
	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	W (g)	4H45	6H40	6H45	6H60
PM4033A	77.94	204.82	15963.1	174.37	86.2				
PM4040	102	201	20450	174	95		4300±25%		4900±25%
PM6249	110	570	62700	470	324				13400±25%
PM5039B	84	370	31000	280	158				11000±25%
PM5039C	91	328	29848	314.2	162				
PM5044C	102	332	33864	314.2	180				9000±25%
PM5032C	82.3	362.1	29800	314.2	146.7		9000±25%		
PM5035C	83.2	330.39	27490	314.15	152.6				11000±25%
PM4850	113.75	339.17	38582						
PM5050C	113	330	37270	290	190		6720±25%		8610±25%
PM8632	107.06	1045.1	111880	1045	528.3				22000±25%
PM10336	118.75	1287.8	152930	1287.8	730				26000±25%
PM6542	100.1	574.8	57526.4	530.9	305				16000±25%
PM6554	123.78	592.97	73397.8	530.93	392.5		10000±25%		
PM6560H	136.3	558.6	530.9	76110	430.4				

常规类型 PMI 磁芯

特点：

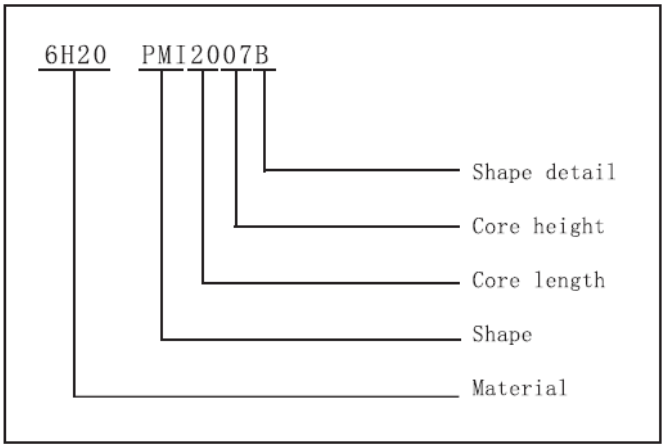
① 适用于变压器的扁平化。

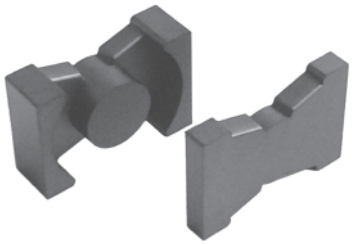
② 根据客户需要可提供各种各样磁芯规格。

用途：

DC-DC 转换器（平面型变压器）。

型号说明（Designation）：





品名 Product code	尺寸 Dimension (mm)							
	A	B	C	D	E	F	G	I
PMI2007	20.5±0.4	4.85±0.05	14.0±0.4	9.0+0/-0.4	18.0±0.3	2.15+0.1/-0.05	12.0min.	2.25±0.1
PMI2007B	20.5±0.4	4. 45±0.05	14.0±0.4	9.0+0/-0.4	18.0±0.4	1.53±0.13	12.0min.	2.75±0.1
PMI2612	26.5±0.5	8.0+0/-0.25	19.0±0.25	12.2+0/-0.6	22.5±0.5	3.4+0.5/-0	15.5min.	4.35±0.1
PMI2613	26.5±0.45	10.2+0/-0.25	19.0±0.45	12.2+0/-0.4	22.5±0.45	5.6+0.3/-0	15.5min.	2.8±0.15
PMI2615	26.5±0.45	12.5+0/-0.25	19.0±0.45	12.2+0/-0.5	22.5±0.45	7.9+0.3/-0	15.5min.	2.8±0.15
PMI2617	26.5±0.45	13.2+0/-0.25	19.0±0.45	11.9±0.3	22.5±0.45	8.75±0.15	15.5min.	4.35±0.1
PMI3517	35.0+0.7/-0.5	12.5±0.15	26.0±0.5	14.6+0/-0.5	32.0±0.5	7.6±0.2	23.5min.	4.85±0.15
PMI4019	40.0+1.4/-0.4	14.33±0.15	28+0.45/-0.6	15.2+0/-0.6	36.4min.	9.18±0.15	27.2min.	5.0±0.1
PMI5027	50.0±0.7	19.65±0.15	32.0±0.6	20.0±0.35	44.0±0.7	12.7±0.2	32.0min.	6.72±0.12

Regular Type PMI core

Characteristics:

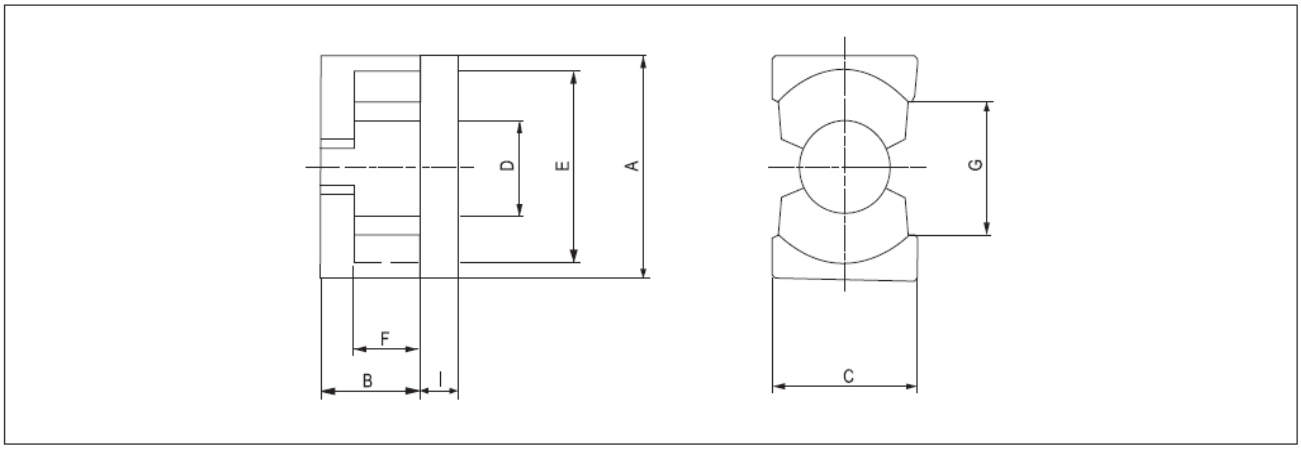
① Suitable for making planar transformers.

② Varieties of core types are available for customers to choose.

Uses:

DC-DC converter (planar type transformer)

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)		
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	7H10	6H40
PMI2007	0.43	25.3	59.4	1500	60.8	56.7		7.64			
PMI2007B								8		4000±25%	
PMI2612	0.23	28.8	123.6	3570	113			20.9			7800±25%
PMI2613	0.28	33.6	118.4	3979				20	6600±25%		
PMI2615	0.32	38.2	118.6	4528				22.7	6100±25%		
PMI2617	0.32	39.1	123.5	4830	113			27			6500±25%
PMI3517											5200±25%
PMI4019	0.27	52.4	193.5	10130	176.6			60			6500±25%
PMI5027	0.19	71.7	368.8	26454	314.2			130.8			9500±25%

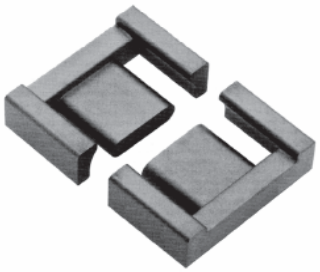
常规类型 EED 磁芯

① 适合于变压器的小型化。

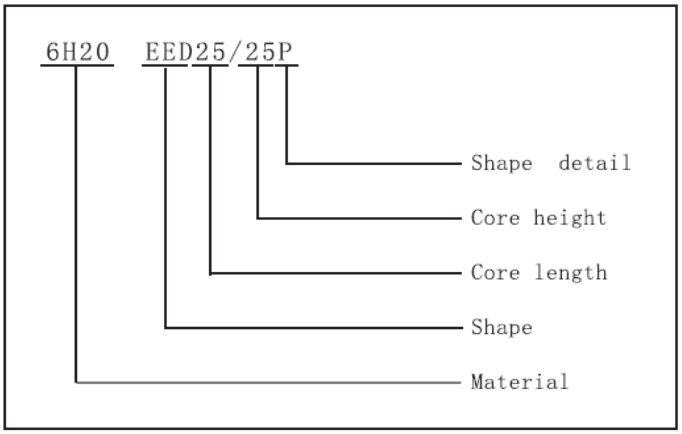
② 可根据客户需要提供各种磁芯规格。

用途：

各种开关电源用变压器，扼流圈等。



型号说明（Designation）：



品名 Product code	类型	规格 General standard		尺寸 Dimension (mm)							
		IEC	JIS	A	B	C	D1	D2	E1	E2	F
EED12/11A				12.5+0/-0.4	5.7+0/-0.2	5.5+0/-0.3	3.45+0/-0.2		7.4+0.4/-0	5.0min.	3.8+0.2/-0
EED12/12A				12.34±0.3	6.15±0.15	6.58±0.15	5.74±0.15	4.95±0.15		7.25min.	3.17±0.15
EED12/12B				11.63±0.23	5.82±0.13	4.43±0.11	5.96±0.12	3.19±0.11		7.19±0.18	3.24±0.14
EED12/12D	1			12.5±0.3	6.2±0.1	3.5±0.1	5.4±0.15	2.0±0.1	9.0±0.25		4.55±0.15
EED12/15D	1			11.9±0.2	7.6±0.15	3.5±0.15	3.2±0.1	1.5+0/-0.15	9.35+0.4/-0		6.2±0.15
EED13/13P	2		FEEPC13	13.2±0.25	6.6±0.2	4.6±0.15	5.6±0.15	2.05±0.1	10.7±0.2	8.3min.	4.5±0.2
EED15/12P	2			15.0±0.3	6.05±0.2	5.5±0.2	5.1±0.15	3.5±0.1	11.7min.	10.2min.	4.5±0.2
EED15/15D	1			15.0±0.4	7.5±0.15	4.65±0.15	5.3±0.15	2.4±0.1	11.0±0.35		5.5±0.25
EED16/15	2			16.0+0.4/-0.2	7.5+0.3/-0	7.5+0.3/-0	6.5+0/-0.2	5.0+0/-0.2	12.7+0.6/-0	10.5+0.4/-0.2	5.6+0.25/-0
EED16/15B	2			16.0+0.4/-0.2	7.5+0.3/-0	7.5+0.2/-0.1	6.5+0/-0.2	5.0+0/-0.2	12.7+0.4/-0	10.5±0.2	5.6+0.25/-0
EED16/20D	1			16.3±0.25	10.2+0.15/-0.2	4.5±0.15	6.7±0.15	2.35±0.1	12.5min.		8.3±0.15
EED17/17P	2		FEEPC17	17.5±0.3	8.55±0.2	6.0±0.15	7.7±0.15	2.8±0.1	14.5±0.3	12.0±0.5	6.05±0.2
EED18/17P	2			17.9±0.38	8.55±0.2	6.0+0.3/-0.2	7.7±0.15	2.8±0.1	14.8min.	11.8min.	6.05±0.2
EED18/22D	1			17.6±0.3	11.0±0.2	5.6±0.15	7.5±0.15	3.4±0.1	13.1min.		8.6±0.2
EED19/19P	2		FEEPC19	19.0±0.3	9.75±0.2	6.0±0.15	8.5±0.15	2.5±0.1	16.0±0.3	13.6±0.5	7.25±0.2
EED20/18P	2			20.0±0.3	9.0±0.2	6.0±0.15	6.75±0.15	2.8±0.1	16.2min.	14	6.7±0.2
EED20/20D				20.0±0.55	10.0±0.15	6.65±0.15	8.9±0.2	3.6±0.15	15.4±0.5		7.7±0.25
EED20/23D				20.0±0.4	11.5±0.15	5.4±0.1	8.9±0.2	3.6±0.15	15.4±0.5		9.3±0.15

Regular Type EED Core

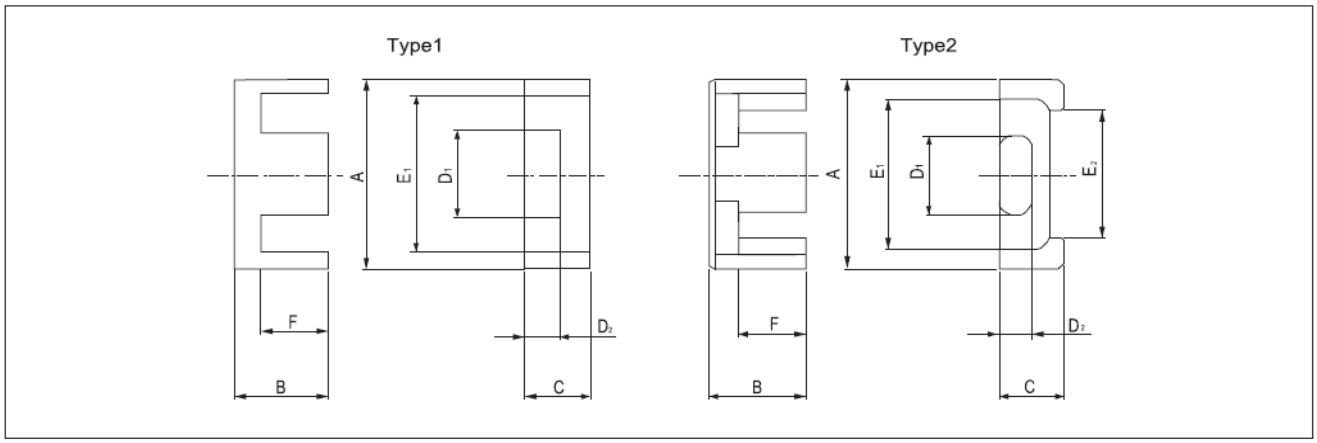
① Suitable for making planar transformers.

② Varieties of core types are available for customers to choose.

Usages:

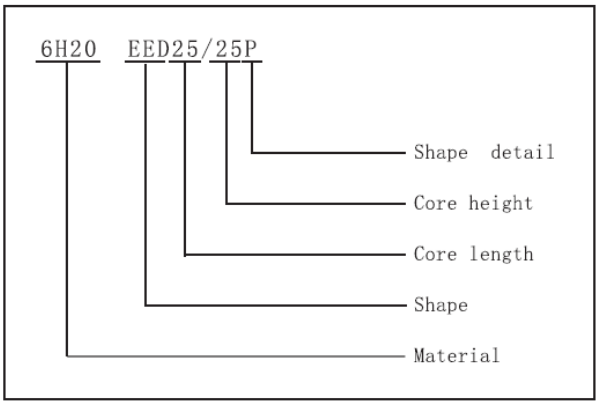
Varieties of switching power supply transformers, choke coils and so on.

产品图例(Summary)：



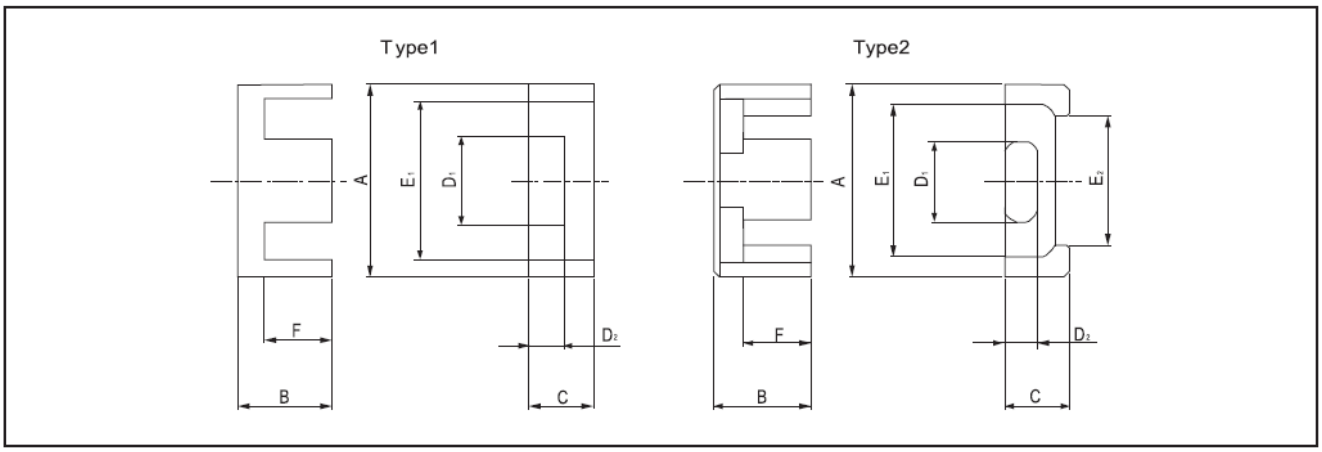
品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)		
	C1 (mm⁻¹)	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	Amin (mm²)	Aw (mm²)	W (g)	6H20	7H10	6H40
EED12/11A	1.69	20.3	12	243				2.52			
EED12/12A	0.79	23.25	29.41	683.8	28.0			3.8			
EED12/12B	1.27	22.6	17.8	402.3				5.2			
EED12/12D	2.50	28.5	11.4	325	10.7	10.7C	16.4	1.7	800±25%		
EED12/15D	5.24	32.76	6.25	205				1.44			
EED13/13P	2.46	30.6	12.5	382	10.6	10.6C	23.0	2.1	870±25%		
EED15/12P	1.70	29.4	17.3	507.64	15.22			2.92			
EED15/15D	2.27	34	15	510	12.2	12.2C	31.4	2.8	880±25%		
EED16/15	1.28	36.5	28.6	1040	27.9	27.9C	37.8	5.1	1400±25%		
EED16/15B	1.28	36.5	28.6	1043.9				5.1	1500±25%		
EED16/20D	2.96	47.0	15.9	749	15.6			4.04			
EED17/17P	1.76	40.2	22.8	917	19.9	19.9C	41.1	4.5	1150±25%		
EED18/I 7P	1.80	40.7	22.6	920				4.7	1150±25%		
EED8/22D	1.99	48.57	24.4	1185	25.48			6.18			
EED19/19P	2.03	46.1	22.7	1050	19.9	19.9C	54.4	5.3	940±25%		
EED20/18P	2.12	44.6	21.0	940	17.2			5.2			
EED20/20D	1.52	47.0	31.0	1460	31.0	31.0C	50.1	7.1	1500±25%		
EED20/23D	2.01	51.64	25.64	1319.43				8.3	1100±25%		

型号说明（Designation）：



品名 Product code	类型	规格 General standard		尺寸 Dimension (mm)							
		IEC	JIS	A	B	C	D1	D2	E1	E2	F
EED21/18D	1			21.4±0.4	9.0±0.2	6.2±0.2	10.2±0.2	2.5±0.1	17.4+0.5/-0.3		7.0±0.2
EED21/20	1			20.5±0.6	10.2±0.25	6.55±0.15	8.9±0.2	3.7±0.2	16.2min.		7.9±0.25
EED21/25D	1			21.2±0.5	12.5±0.2	5.9±0.2	9.4±0.2	3.3±0.1	15.5min.		9.9±0.2
EED23/27D	1			22.8±0.4	13.5±0.2	9.9+0.3/-0.1	7.2±0.2	6.8±0.2	16.5min.		9.9±0.2
EED25/23P	2			25.1±0.5	11.43±0.15	6.5±0.2	13.8±0.2	2.5±0.15	20.4min.	16.5min.	8.78±0.15
EED25/25D	1			25.0±0.65	12.5±0.15	9.1±0.2	11.4±0.2	5. 2±0.15	18.7±0.6		9.3±0.25
EED25/25DN	1			25.0±0.4	13.0+0/-0.4	12.7+0/-0.5	8.8±0.25	8.6+0/-0.6	18.8+0.95/-0		9.6+0.4/-0
EED25/25P	2		FEEPC25	25.0±0.4	12.5±0.2	8.0±0.2	11.5±0.2	4.0±0.1	21.0±0.35	17.5±0.5	9.0±0.3
EED25/36CN	1			25.0±0.65	18.4±0.2	9.5±0. 3	5.8±0.2	7.4±0.2	18. 5min.		13.9±0.25
EED25/36DN	1			25.0±0.6	17.7±0. 25	12.0±0.25	9.0±0.2	7.0±0.2	19.0+1.0/-0		14.7±0.25
EED30/30D	1			30.2±0.6	15.2±0.15	9.1±0.2	14. 6	4.9±0.15	22.6min.		11.4±0.3
EED31/30D	1			31.15max.	15.2±0.3	9.0±0.2	14. 6	4.9±0.2	24.0min.		11.4±0.2
EED33/23D	1			32.5±0.5	11.4±0.2	7.0+0.2/-0.15	15.8±0.2	3.2±0.15	24.1min.		7.1±0.2
EED37/40D	1			36.8+0.6/-0.4	19.8±0.2	6.6±0.3	18.7±0.25	3.8±0.2	25.7min.		14.4+0.4/-0
EED39/40P	2			39.1±0.7	19.9±0.2	15.5±0.3	17.6±0.2	9.7±0.2	30.5 min.	24.7min.	14.4±0.2
EED46/48P	2			46.0±0.8	24.2±0.2	19.4±0.3	20.85±0.3	11.9±0.2	35.7min.	28.6min.	18.2±0.2
EED51/51D	1			50.5±0.7	25.6±0.3	9.0±0.3	23.5±0.4	5.0±0.3	37. 6min.		18.5±0.3
EED52/48P	2			52.0±0.5	23.9±0.3	18.0±0.2	26.0±0.3	9.5±0.2	42.8±0.5	31.0min.	15.4±0.25
EED52/52D	1			51.5±0.7	26.0±0.3	10.0±0.3	23.5±0.3	5.0+0.1/-0.2	38.0min.		19.0±0.3
EED55/58P	2			54.5±0.85	29.0±0.3	28.3±0.45	23.2±0.4	20.0±0.35	39.7min.	29.8min.	18.35±0.3
EED66/51P	2			65.8±1.0	25.7±0.3	26.8±0.45	38.4±0.4	13.3±0.25	51.9±0.8		15.2±0.3

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)		
	C1 (mm⁻¹)	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	Amin (mm²)	Aw (mm²)	W (g)	6H20	6H40	6H45
EED21/18D	1.75	45.2	25.9	1170.68				5.8			
EED21/20	1.64	47.4	28.9	1367				7.0	1500±25%		
EED21/25D	1.88	55.8	29.7	1660				9.1	1200±25%		
EED23/27D	1.20	66.8	55.7	3718				17.8	1700±25%		
EED25/23P	1.39	46.2	33.3	1540				11		1560±25%	
EED25/25D	0.98	57	58.0	3310	57.5	57.0L	67.9	16.6	2100±25%		
EED25/25DN	0.81	59.8	74.0	4426	73.4			22.5	2500+30%/-20%		
EED25/25P	1.28	59.2	46.4	2750	42.6	42.6C	85.5	13	1600±25%		
EED25/36CN	1.41	75.3	53.3	4033				24.2			
EED25/36DN	1.22	79.6	65.4	5205.4	62.9			27			
EED30/30D	0.9	62.9	70	4403				22	2050±25%		
EED31/30D	1.09	69.02	63.35	4372.3	69.54			24			
EED33/23D	0.969	53.1	54.8	2907				15	2200±25%		
EED37/40D	1.14	85	72	6170				31	1900±25%		
EED39/40P	0.60	88	147	12960				72.5		5100±25%	
EED46/48P	0.49	113	230	25990				127.5	4350±25%		
EED51/51D	1.08	121.4	112.4	13640				69	2000±25%		
EED52/48P	0.47	109.92	232.3	25550	227.6			142.9			
EED52/52D	0.78	109	140	15260				77	2600±25%		
EED55/58P	0.26	121.29	468.45	56817.74	421.94			311.8			6944±25%
EED66/51P	0.22	103	473	48900				290			10726±25%

常规类型 FR 磁芯

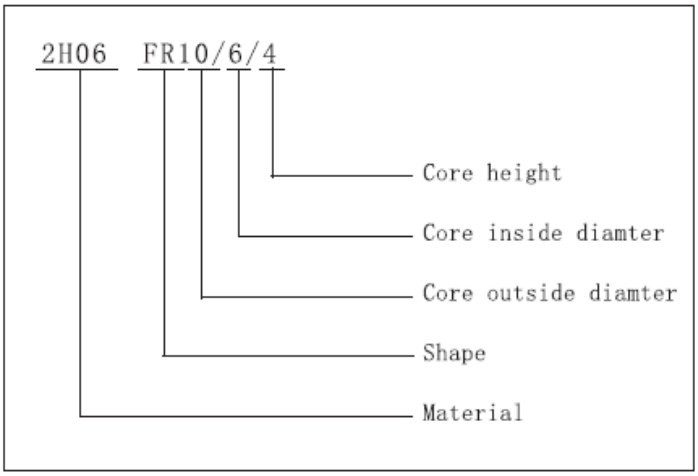
特点：

① 根据客户需要可提供各种磁芯规格。

用途：

线性滤波器，脉冲变压器，扼流圈等。

型号说明(Designation)：



品名 Product code	规格 General standard		尺寸 Dimension (mm)		
	IEC	JIS	A	B	C
FR10/6/4			10.0±0.3	6.0±0.3	4.0±0.2
FR11/5/3			11.0±0.3	5.0±0.2	3.0±0.2
FR12/6/4			12.0±0.4	6.0±0.3	4.0±0.3
FR12.5/8/8			12.5±0.3	8.0±0.3	8.0±0.3
FR12.7/8/6			12.7±0.3	7.9±0.3	6.35±0.3
FR13/7/5			13.0±0.4	7.0±0.3	5.0±0.3
FR14/7.5/7			13.9±0.25	7.57+0.3/-0.12	6.95±0.15
FR14/7/4			14.0±0.3	7.0±0.2	4.0±0.2
FR14/7/7			14.0±0.3	7.0±0.2	7.0±0.2
FR16/10/7			16.0±0.3	10.0±0.3	7.0±0.3
FR16/10/8			16.0±0.3	10.0±0.3	8.0±0.3
FR19/10/10			18.45±0.3	9.75±0.3	10.25±0.3
FR20/12/4			19.95±0.3	12.05±0.3	4.15±0.3
FR20/12/8			19.95±0.3	12.05±0.3	8.0±0.3
FR20/14.5/7.5			20.0±0.4	14.5±0.3	7.5±0.5
FR22/10/9			22.0+0.3/-0.2	10.0+0.2/-0.1	9.2±0.15

Regular type FR core

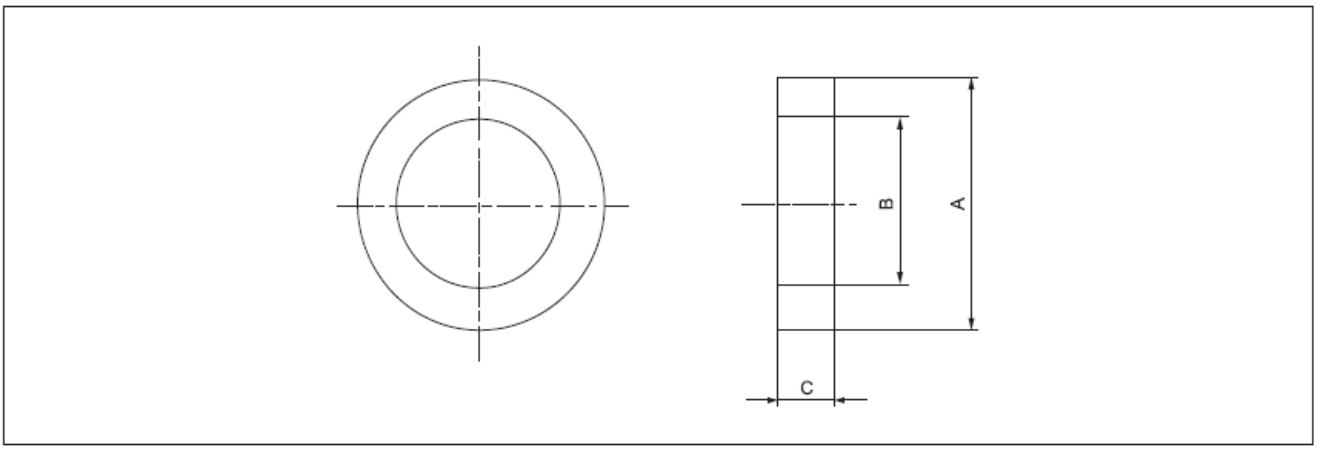
Characteristics:

Varieties of core types are available according to customers' need.

Usage:

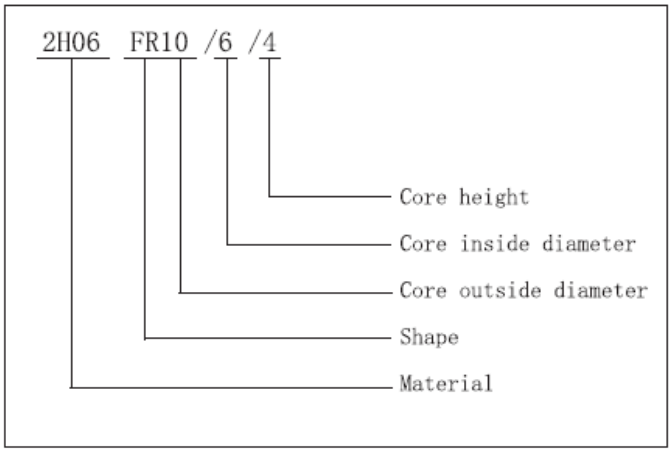
Line filters, pulse transformers, choke coils and so on.

产品图例(Summary):



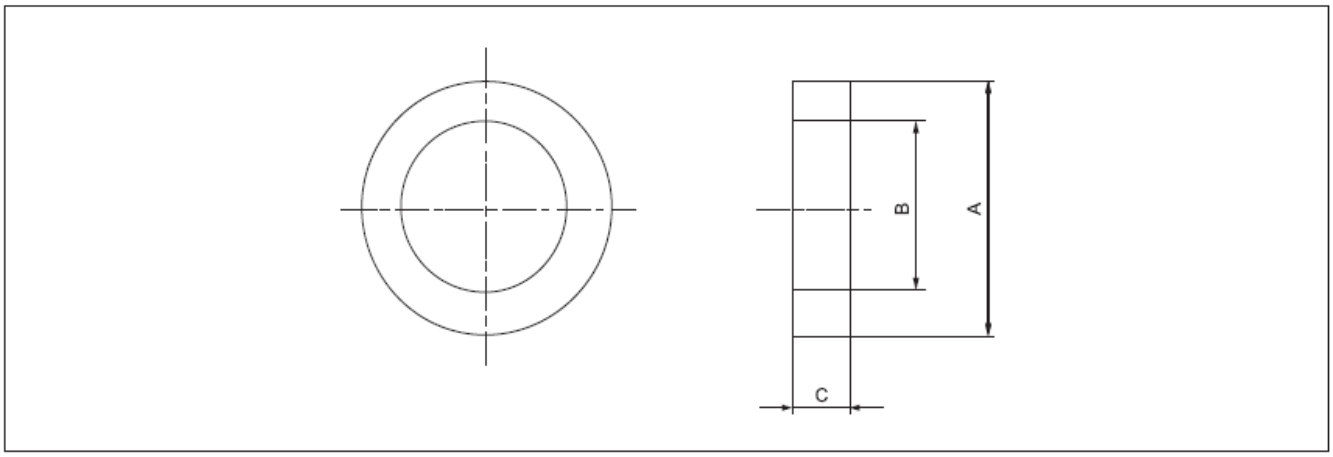
品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)				
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	W (g)	6H20	2H06	2H07	2H10	2H15
FR10/6/4	3.07	24	7.8	187	1		2500+25%/-40%	2800±25%	4000±30%	-
FR11/5/3	2.67	22.7	8.54	194	1.1		2400±25%	3300±25%	4500±30%	-
FR12/6/4	2.26	26.1	11.5	301	1.5		3500+25%/-40%	3750±25%	5300±30%	-
FR12.5/8/8	1.76	31.2	17.7	552	2.8		2800+100%/-0%	4700±25%	-	-
FR12.7/8/6	2.1	31.2	14.9	465	2.3		3000±25%	4200±30%	5500±30%	-
FR13/7/5	2.05	29.5	14.4	423	2.1		3200±25%	4400±25%	5900±30%	-
FR14/7.5/7	1.52	31.9	21.1	673	3.8		4250+30%/-15%	-	-	-
FR14/7/4	2.27	30.5	13.5	410	2		3000±25%	4100±25%	5500±30%	-
FR14/7/7	1.29	30.5	23.5	717	3.9		4625min.	-	-	-
FR16/10/7	1.9	38.9	20.5	857	4		2800+40%/-20%	4800±25%	6400±25%	-
FR16/10/8	1.67	39.4	23.6	928	4.6		3500+25%/-40%	5600±25%	7500±30%	-
FR19/10/10	1.02	41.4	42.1	1740	9.2		6900±25%	9400±30%	12600±30%	-
FR20/12/4	3	48.1	16	770	3.9		2100+40%/-20%	3000+40%/-20%	-	
FR20/12/8	1.55	48.2	30.9	1490	7.6		4500±25%	5600±25%	8100±25%	
FR20/14.5/7.5	2.6	53.3	20.4	1080	5.5					
FR22/10/9	0.866	45.4	52.4	2380	12					

型号说明（Designation）：



品名 Product code	规格 General standard		尺寸 Dimension (mm)		
	IEC	JIS	A	B	C
FR22/14/8			22.0±0.5	14.0±0.4	8.0±0.3
FR22/14/10	FOR22	FOR22	22.0±0.3	14.0±0.3	10.0±0.3
FR22/14/12.7			22.0+0.25/-0.4	14.0±0.25	12.7±0.25
FR25/15/10	R25		25.0±0.5	15.0±0.5	10.0±0.5
FR25/15/12	FOR25	FOR25	25.0±0.5	15.0±0.5	12.0±0.3
FR27/15/19			26.8±0.5	14.7±0.4	18.5±0.3
FR28/16/16			28.0±0.7	16.0±0.5	16.0±0.5
FR29/16/12			29.0±0.5	16.0±0.5	12.0±0.5
FR31/19/8			31.0±0.5	19.0±0.5	8.0±0.5
FR31/20/10			31.0+0/-0.8	20.0+0.5/-0	10.0+0/-0.6
FR31/20/16			31.0+0/-0.8	20.0+0.5/-0	16.0±0.3
FR38/19/13	FOR38	FOR38	38.0±0.7	19.0±0.5	13.0±0.4
FR38/19/6	T38.1		38.0±0.7	19.0±0.5	6.35±0.35
FR40/20/12			40.0+0/-1.0	20.0+0.5/-0	12.0+0.6/-0
FR49/32/19			49.1±0.6	31.8±0.6	19.0±0.3
FR50/25/10			50.0+0/-1.2	25.0+0.6/-0	10.0+0.6/-0
FR50/25/20A			51.0max.	24.0min.	21.1max.
FR51/31/13A			51.0±1.0	31.0±0.6	13.0±0.5
FR56/32/15			56.0±0.8	32.0±0.8	15.0±0.5
FR60/36/20			60.0±0.7	36.0±0.5	20.0+0.3/-0.5
FR102/65/20			102±1.5	65.0±1.0	10.0±0.5

产品图例（Summary）：



品名 Product code	磁芯参数 Magnetic parameter					AL (nH/N²)				
	C1 (mm⁻¹)	Le (mm)	Ae (mm²)	Ve (mm³)	W (g)	6H20	2H06	2H07	2H10	2H15
FR22/14/8	1.76	54.7	31	1694	8.7	1500±25%	3900±25%	5300±25%	7100±30%	
FR22/14/10	1.41	54.7	38.8	2120	11.1	1900±25%	4900±25%	6700+40%/-25%	8900±30%	
FR22/14/12.7	1.1	54.7	49.9	2730	14.3		6250+30%/-15%	-	-	
FR25/15/10	1.23	60.2	48.9	2940	15	2000±25%	5500±25%	7500±25%	10000±30%	
FR25/15/12	1.03	60.2	58.7	3530	18	2800±25%	6500±30%	9000±25%	12000±25%	
FR27/15/9	0.55	61.4	110.9	6810	36	4800±25%				
FR28/16/16	0.704	65.64	93.3	6130	33				9800±25%	
FR29/16/12	0.88	66.7	75.7	5050	26.5		7800±25%	-	-	
FR31/19/8	1.6	75.5	47.1	3550	17	1950±25%				
FR31/20/10	1.63	77.7	47.5	3690	18.5		4400±30%	5900±30%	-	
FR31/20/16	0.953	77.7	81.5	6330	31.7		7000+40%/-20%	9900+40%/-25%	-	
FR38/19/13	0.697	82.7	119	9820	53.1		9300±25%	8600min.	-	
FR38/19/6	1.43	82.7	57.8	4780	25.9		4400±25%	6000±25%	-	
FR40/20/12	0.809	93.9	116	9780	53.3		8000+40%/-20%	11500±25%	-	
FR49/32/19	0.77	123	160	1920	101					
FR50/25/10	0.959	117	122	14300	69.9		6600+40%/-20%	9900±25%	-	
FR50/25/20A	4.79		231.7	25262	136.1		13000+40%/-20%			
FR51/31/13A	0.98	124	127	15740	80	5100±25%				
FR56/32/15	0.75	131.3	175.4	23022	121.7			11300±30%	16360±30%	
FR60/36/20	0.62	144	232		174					
FR102/65/20	1.4	254	181	46000	233		-	3540+50%/-10%	-	

常规类型 FUR 磁芯

特点：

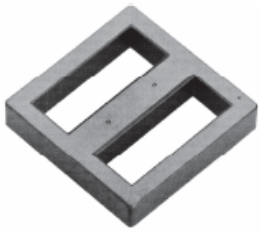
① 磁芯体积小，但电感值较高。

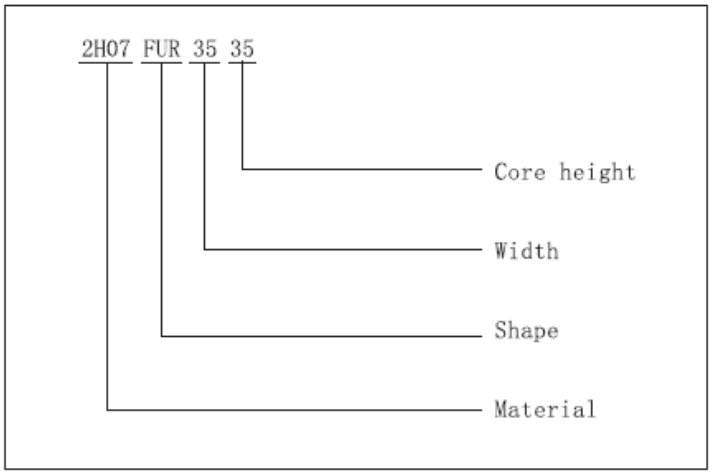
② 有3种磁芯规格供客户选用。

用途：

线性变压器

型号说明(Designation)：





品名 Product code	规格 General standard		尺寸 Dimension (mm)							
	IEC	JIS	A	B	C	D	E	F	G	H
FUR2424			24.0+0.7/0.3	24.0+0.7/0.3	4.0±0.3	4.0±0.2	19.0min.	19.0min.	2.4±0.15	2.4±0.15
FUR2828			28.2+0.8/-0.3	28.2+0.8/-0.3	5.0±0.3	5.0±0.2	22.2min.	22.2min.	2.4±0.15	2.9±0.15
FUR3535			35.0+0.9/-0.3	35.0+0.9/-0.3	7.5±0.3	7.5±0.25	26.8min.	26.8min.	4.0±0.2	4.0±0.2

Regular type FUR core

Characteristics:

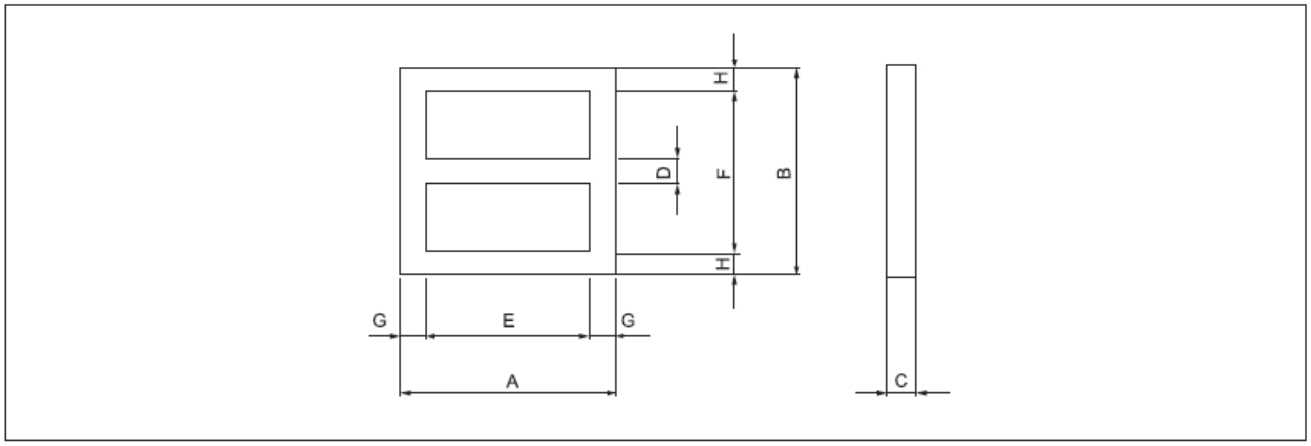
① High inductance can be achieved on small cores.

② Three kinds of core types are available for customers to choose.

Usages:

Line transformer

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	2H07	2H10
FUR2424	3.44	60.3	17.5	1050	16.0	16.0C	149	5.6	2600+40%/-25%	3600+40%/-25%
FUR2828	2.70	70.0	27.0	1890	25.0	25.0C	200	10.2	3550+40%/-25%	4690+40%/-25%
FUR3535	1.46	85.2	58.3	4960	56.3	56.3C	271	25.8	6000+40%/-25%	

常规类型 FU 磁芯

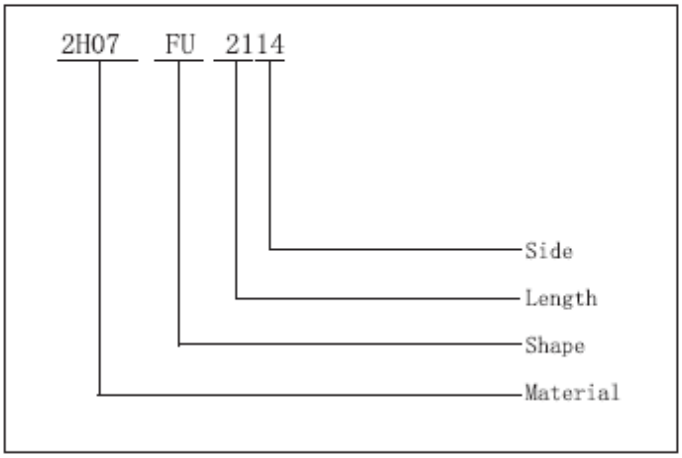
特点：

① 根据客户需要可提供各种的磁芯规格。

用途：

线性滤波器等。

型号说明(Designation)：



品名 Product code	尺寸 Dimension (mm)								
	A	B	C	D1	D2	E	F	H1	H2
FU2014	20.5max.	14.0max.	4.1±0.2	3.2+0.25/−0	3.2+0.25/−0	13.0+0.6/−0	6.7+0.4/−0	3.2+0.25/−0	3.2+0.25/−0
FU2114	20.6±0.3	14.1±0.25	4.6±0.2	4.2±0.2	2.4±0.15	15.7min.	7.35min.	2.3±0.15	2.3±0.15
FU2216	21.5±0.3	15.6±0.2	3.75±0.2	3.7typ.	5.0typ.	15.5±0.2	6.9±0.2		
FU2316	24.0max.	16.2max.	4.6+0.3/−0.2	3.6+0.25/−0	3.6+0.25/−0	15.6+0.7/−0	8.1+0.4/−0	3.6+0.25/−0	3.6+0.25/−0
FU2618	25.6±0.4	17.6±0.3	5.2±0.25	5.2±0.15	3.4±0.15	19.5min.	8.7min.	2.9±0.15	2.9±0.15
FU3222	31.5±0.8	22.1±0.5	8.0max.	6.0+0.3/−0	6.0+0.3/−0	18.5+0.9/−0	9.6+0.4/−0	6.3±0.15	6.3±0.15

Regular type FU core

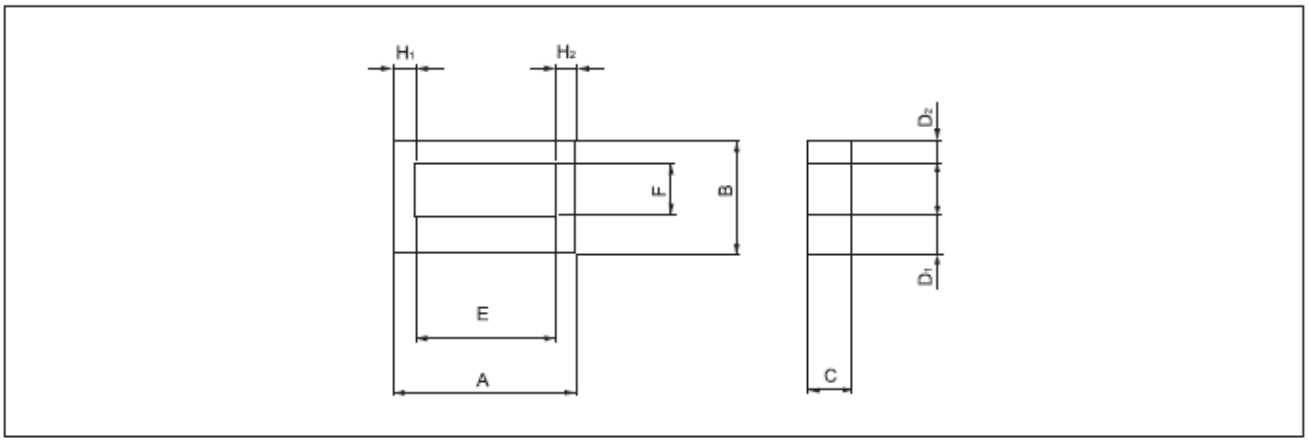
Characteristics:

Varieties of core types are available for customers to choose.

Usages:

Line filters and so on.

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	2H07	2H10
FU2014	4.07	51.2	12.6	645	12.6	12.6	91.8	3.2	1950±30%	
FU2114	4.37	52.9	12.1	638	19.3	10.6	120	3.8	2200+40%/-30%	2900+40%/-25%
FU2216	4.30	55.0	12.8	704	13.5	10.8	107	3.7	2500+30%/-15%	
FU2316	3.88	62.1	15.5	963	15.5	15.5	132	4.7	2350±30%	
FU2618	3.89	68.4	17.6	1200	22.4	15.1	178	6.5	2500+30%/-25%	3090+30%/-25%
FU3222	1.73	76.88	44.07	3388				17.4	5450±30%	

常规类型 EIR 磁芯

特点：

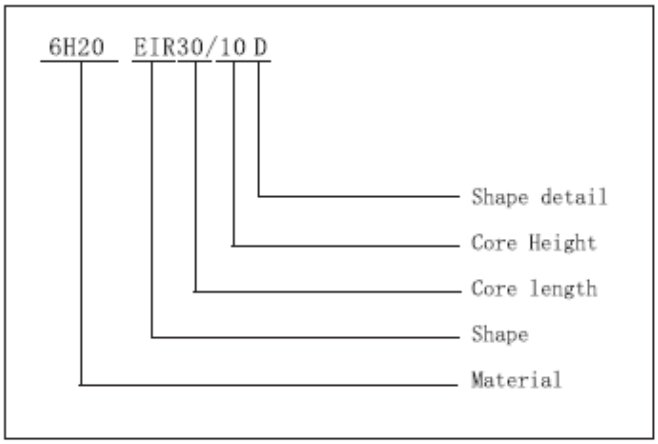
① 适用于变压器的扁平化。

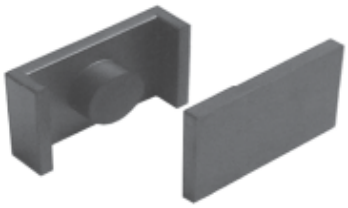
② 根据客户需要可提供各种各样磁芯规格。

用途：

DC-DC转换器（平面型变压器）。

型号说明(Designation) ：





品名 Product code	尺寸 Dimension (mm)						
	A	B	C	D	E	F	I
EIR11/03	10.8±0.2	2.25±0.05	5.9±0.1	4.1±0.15	8.85±0.15	1.15±0.1	1.0±0.05
EIR18/06C	18.0±0.35	4.35±0.1	9.7±0.2	6.2±0.15	15.6±0.3	2.7±0.1	1.65±0.1
EIR20/07	20.0±0.35	5.2±0.1	14.0±0.3	8.8±0.15	18.0±0.35	3.0±0.1	2.3±0.1
EIR23/07	23.2±0.45	5.1±0.1	12.5±0.25	8.0±0.2	20.2±0.4	3.1±0.1	2.1±0.1
EIR25/08	25.0±0.5	5.5±0.1	14.8±0.3	9.4±0.2	21.7±0.4	3.1±0.1	2.5±0.1
EIR30/10D	30.0±0.6	7.4±0.15	20.0±0.3	11.3±0.25	24.5min.	4.9±0.15	2.7±0.15

Regular type EIR core

Characteristics:

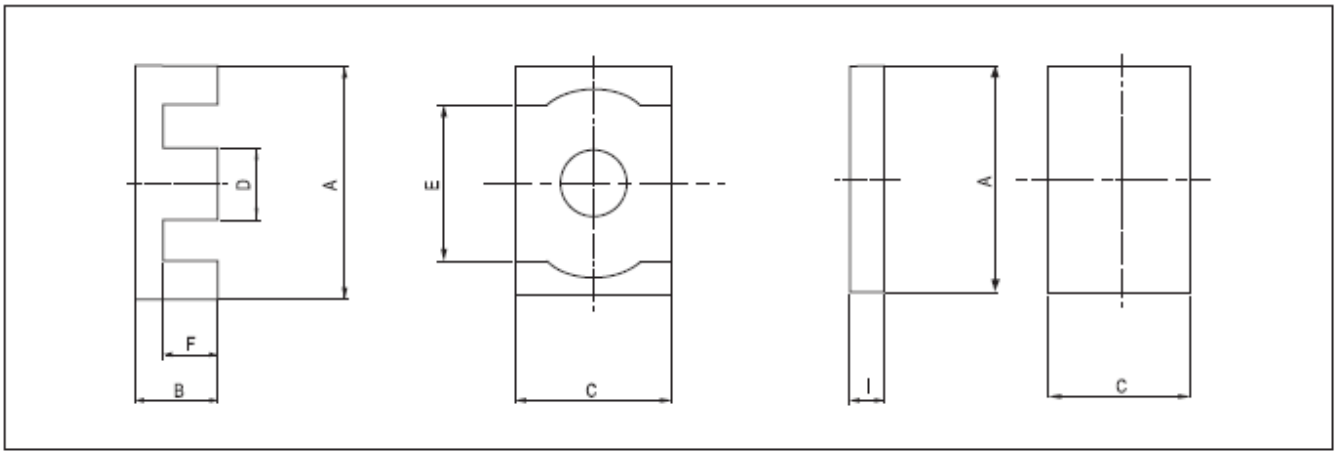
① Suitable for making planar transformers.

② Varieties of core types are available for customers to choose.

Uses:

DC-DC converter (planar type transformer)

产品图例(Summary):



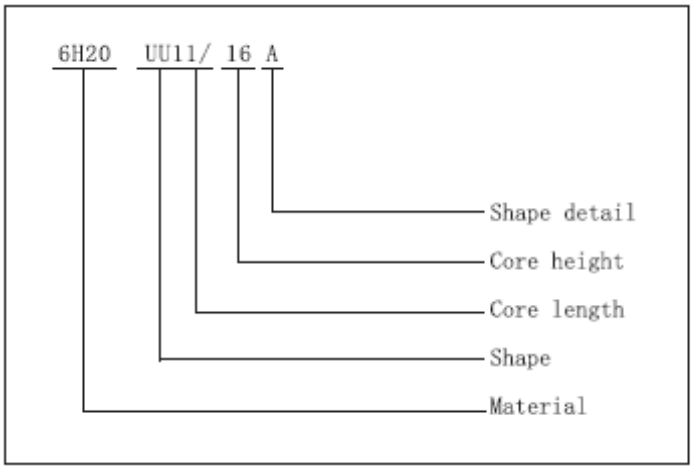
品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)	
	C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	7H20
EIR11/03	0.91	11.76	12.87	151.37	13.20	11.80		0.79		
EIR18/06C	0.51	18.0	35	632	30.2			3.58		
EIR20/07	0.37	22.3	59.6	1329.1	55.0			6.5		
EIR23/07	0.53	26.6	50.2	1340		50		6.4		
EIR25/08		28.1	70.4	1980		69.4		11.5		
EIR30/10D	0.33	33.1	100	3310				19.7		

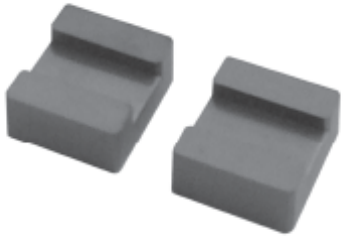
常规类型 UU 磁芯

特点：

用途：

型号说明(Designation)：





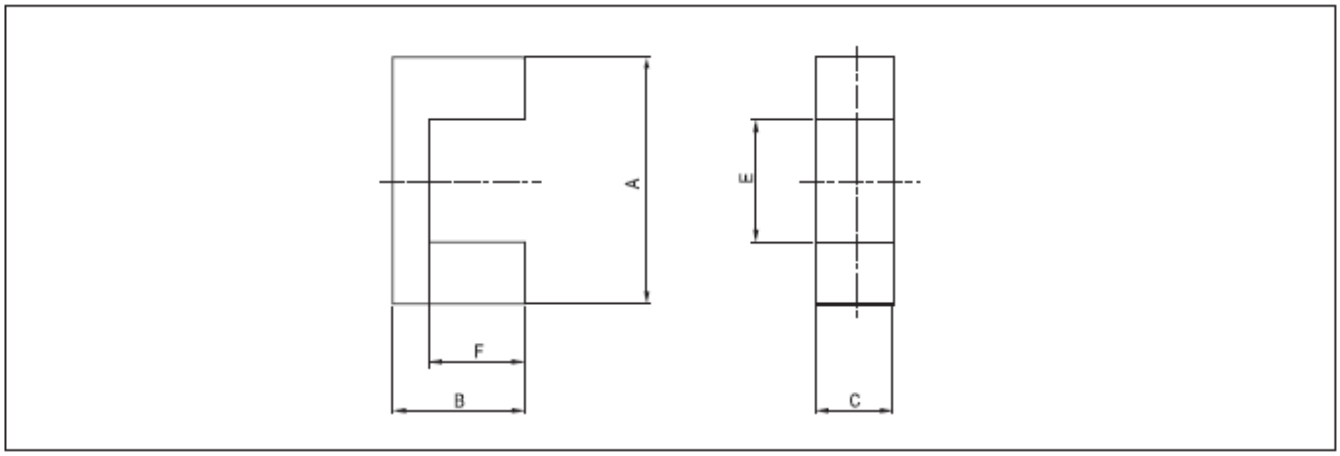
品名 Product code	规格 General standard		尺寸 Dimension (mm)				
	IEC	JIS	A	B	C	E	F
UU09/08			8.9±0.3	4.2±0.1	2.85±0.15	2. 8min.	1.7±0.1
UU09/19			9.3±0.3	9.3±0.25	6.0±0.2	3.7±0.2	6.5+0.2/-0.15
UU10/14			9.8±0.2	7.1±0.15	2.7±0.2	4.0min.	4.25±0.2
UU10/16			10.0±0.25	8.3±0.4	2.9±0.15	4.15min.	5.0+0.3/-0
UU11/16A			10.5±0.3	7.8±0.3	5.0±0.2	5.2min.	5.0+0.5/-0
UU11/16F			10.5±0.3	7.9±0.2	5.0±0.2	5.3±0.2	5.3±0.2
UU15/12			15.0±0.5	5.5±0.1	5.6±0.2	9.0±0.3	2.8+0.2
UU16/20			16.0+0.4/-0.2	10.05±0.15	6.0+0.1/-0.3	6.7min.	5.85±0.2
UU16/20A			15.85±0.3	10.0±0.2	5.0±0.2	9.45±0.15	6.85±0.2
UU16/20F			16.0±0.3	9.9±0.25	5.9±0.2	6. 7min.	6.2±0.25
UU17/20			17.0±0.3	9.75±0.2	8.5±0.2	10.0+0.25/-0.15	6.25±0.2
UU20/25			19.95+0.35/-0.25	12.3+0.35/-0.05	9.0+0.15/-0.25	8.8min.	7.0+0.3/-0
UU28/19			28.0±0.4	9.15±0.2	15.1±0.3	9.8±0.3	2.35±0.2
UU34/39			33.7±0.6	19.6±0.2	12.7±0.3	8.3±0.3	11.3±0.3
UU79/129			79.0+2.0/-1.0	64.5±1.0	31.5+1.5/-1.0	35.0±1.0	42.5±0.75

Regular Type UU Core

Characteristics:

Usages:

产品图例(Summary):



品名 Product code	磁芯参数 Magnetic parameter								AL (nH/N²)		
	C1 (mm⁻¹)	Le (mm)	Ae (mm²)	Ve (mm³)	Ac (mm²)	Amin (mm²)	Aw (mm²)	W (g)	6H20	2H07	2H10
UU09/08	2.71	20.27	7.48	152	8.09			0.76			
UU09/19	2.58	41.16	15.94	13.85	656.16			3.4			
UU10/14	4.51	34.3	7.61	261				1.35		800min.	
UU10/16	4.63	38.4	8.3	319				1.6			
UU11/16A	3.17	39.9	12.6	503				2.5		1750+40%/-25%	
UU11/16F	3.08	40	13.0	520				2.7		1700±25%	
UU15/12	2.41	38.1	15.8	600				3	915+15%/-20%		
UU16/20	1.97	50.8	25.8	1311				6.5			
UU16/20A	3.52	56.3	16	900				4.6			
UU16/20F	2.09	51.4	24.6	1265				6.4	2850±25%		
UU17/20	1.90	56	29.44	1648.64				8.2			
UU20/25	1.30	63.9	49.2	3145				15.7	2000±25%		
UU28/19	0.47	53.4	114.3	6102				37			
UU34/39	0.87	94.75	109.13	10339.7				58.5	2900±25%		
UU79/129	0.43	301	707	212800				970			

常规类型 FUI 磁芯

特点：

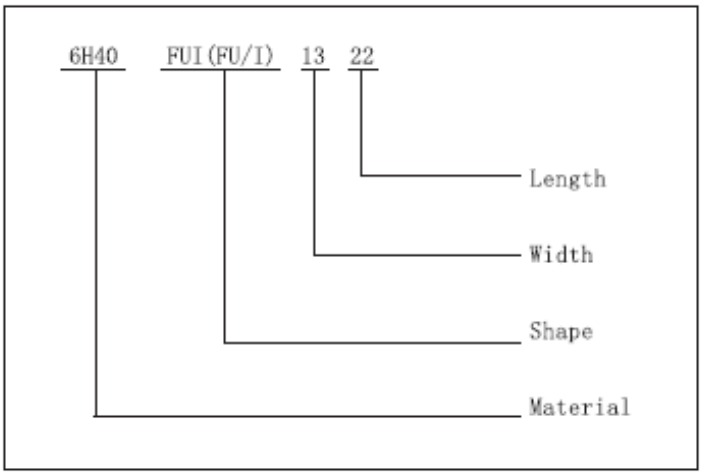
① 幅小，低背型

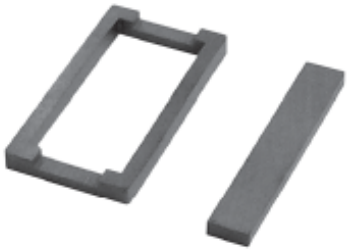
② 超小型，高输出效力

用途：

用于LCD液晶显示的变频器，变压器。

型号说明(Designation)：





品名 Product code		尺寸 Dimension (mm)						
FU	I	A	B	C1	E1	E2	G	H
FU0926	I04/28	26.5±0.4	1.9±0.15	9±0.3	20.8min.	6.4min.	0.85±0.15	1.8±0.25
FU0930	IO431	29.5±0.3	1.9±0.1	9±0.2	23.6min.	6.4min.	0.9+0/-0.1	1.8±0.25
FU1024	I03/24	23.65±0.2	3.5±0.10	9.85±0.15	18.3min.	6.65min.	1.0+0.05/-0.1	2.25±0.25
FU1024E	I04/24F	23.8±0.3	3.65±0.08	9.8±0.2	18.9min.	7.3min.	1.3±0.1	2.05±0.15
FU1127	I05/27	27.0±0.2	2.6±0.05	11.3±0.15	21.6min.	8.0min.	1.0+0/-0.15	2.15±0.25
FU1220	106/21	20.4±0.3	3.5±0.15	11.8±0.15	15.0min.	8.6min.	1.2±0.1	2.4±0.25
FU1221	I06/22C	20.9±0.2	3.5±0.1	11.7±0.3	16.0min.	8.8±0.15	1.25±0.05	2.35±0.15
FU1222	I05/22	22.2±0.2	4.7±0.1	12.3±0.2	15.0min.	8.7min.	1.4±0.05	2.65±0.2
FU1322	I 05/23	22.2±0.2	4.5±0.1	13.2±0.3	15.0min.	9.5min.	1.5±0.05	3.1±0.2
FU1323C	I06/23A	22.7±0.2	2.65±0.1	12.65±0.2	17.5min.	9.35min.	1.5±0.05	2.325±0.2
FU1520	106/20	19.5±0.3	3.7±0.05	15±0.15	13.7min.	11.9min.	1.7±0.10	2.95±0.25
FU1522	I07 /22	21.5±0.2	2.1±0.1	14.9±0.15	16.25mm.	11.0min.	1.0+0.05/-0.1	2.95±0.25
FU1527	I06/27	26.8±0.2	4.7±0.10	14.6±0.2	19.6min.	10.1min.	1.5±0.05	2.8±0.2
FU1622B	I07 /22B	21.6±0.2	3.5±0.15	16.5±0.2	16.4min.	11.4min.	1.3±0.15	3.75±0.3
FU1721	I0721	21.0±0.2	4.8±0.15	17.6±0.2	13.8min.	13.0min.	1.8±0.10	3.2±0. 3
FU1835	I 05/36	35.0±0.5	3.2±0.1	18.3±0.4	27.7min	13.05min	2.1±0.1	5.65±0.25

Regular type FUI core

Characteristics:

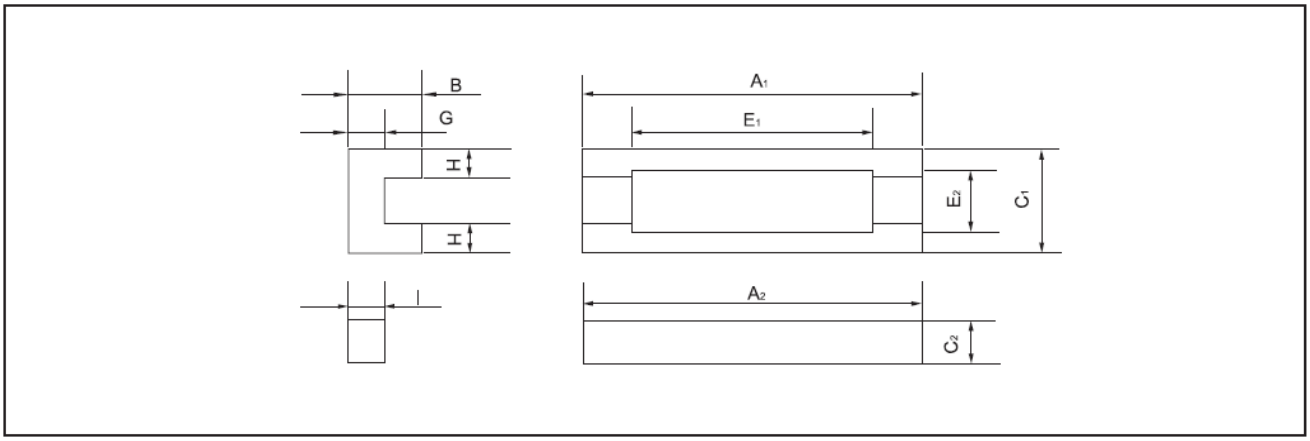
① Slim and low-profile design.

② Small and high power.

Usages:

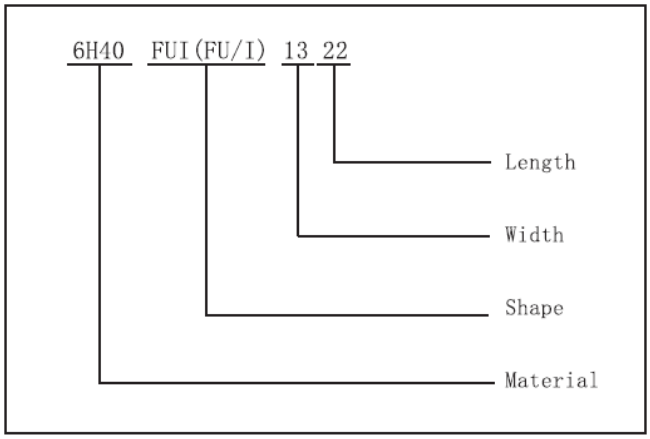
Inverter transformer for LCD backlighting.

产品图例(Summary):



品名 Product code		尺寸 Dimension (mm)		
FU	I	A2	C2	I
FU0926	I04/28	27.5±0.4	3.8±0.15	1.32±0.15
FU0930	IO431	30.5±0. 3	3.8±0.2	1.45±0.05
FU1024	I03/24	24.0±0.25	3.4±0.15	2.65±0.05
FU1024E	I04/24F	24. 3±0. 3	4 4 +0.1	2.10±0.05
FU1127	I05/27	27. 0±0.2	5.0±0.5	1.6±0.05
FU1220	106/21	20.8±0. 3	5. 5±0.15	1.85±0.05
FU1221	I06/22C	21. 6±0. 3	5. 5±0.15	1.92±0.05
FU1222	I05/22	22. 2±0.2	4.5±0.2	3.55±0.1
FU1322	I 05/23	22. 7±0.2	5.3±0.2	3.05±0.05
FU1323C	I06/23A	23. 2±0. 2	5.75±0.2	1.55±0.05
FU1520	106/20	19. 5±0. 25	5.5±0.15	1.85±0.05
FU1522	I07 /22	21. 5±0. 25	7.4±0.15	1.15±0.05
FU1527	I06/27	27. 3±0.2	6.1±0.2	3.3±0.05
FU1622B	I07 /22B	21. 6±0.2	6.8±0.15	2.45±0.05
FU1721	I0721	21. 0±0.2	7.3±0.15	2.65±0.05
FU1835	I 05/36	36.0±0.4	4.5±0.2	2.9±0.08

型号说明（Designation）：

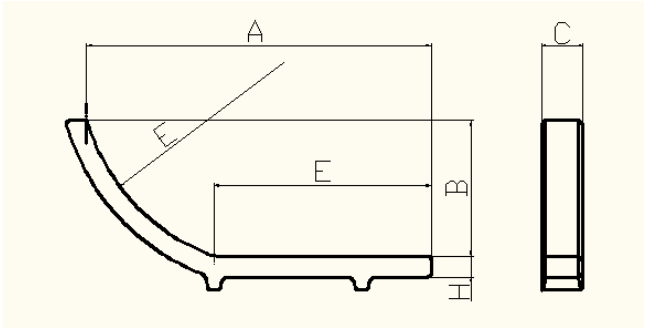


品名 Product code		磁芯参数 Magnetic parameter								AL (nH/N²)	
		C1 (mm^{-1})	Le (mm)	Ae (mm^2)	Ve (mm^3)	Ac (mm^2)	Amin (mm^2)	Aw (mm^2)	W (g)	6H20	2H07
FU0926	I04/28										
FU0930	IO431	11.64	56.9	4.89	277.8	5			1.57	200+40%/-30%	
FU1024	I03/24	4.59	45.9	10.0	460	9.01			3.2	420+30%/-40%	
FU1024E	I04/24F	5.97	44.88	7.52	337.49				4.72	370±40%	
FU1127	I05/27	12.1	63.93	5.27	337.2				3.3	270±30%	
FU1220	106/21	3.68	40.5	11.0	443	10.2			2.4	550+30%/-40%	
FU1221	I06/22C	4.05	40.82	10.08	411.46				3.02	420±25%	
FU1222	I05/22	2.91	43.7	15	657	16.1			4.03	620+30%/-40%	
FU1322	I 05/23	2.85	42.0	14.75	732.7	16.17			4.22	590+30%/-40%	
FU1323C	I06/23A	5.4	46.76	8.66	405.19		7.5		2.29	420+30%/-40%	
FU1520	106/20	8	54.05	6.76	365				2.67	475±30%	
FU1522	I07 /22	11.12	61.29	5.51	338				2.96	250±30%	
FU1527	I06/27	2.92	52.5	18.0	947	20.1			5.9	750+30%/-40%	
FU1622B	I07 /22B	7.42	64.17	8.65	555				4.7	440±30%	
FU1721	I0721	2.38	43.5	18.3	797	19.3			5.08	750±30%	
FU1835	I O5/36	5.06	73.71	14.57	1074.3	13.05			6.11	380±25%	

常规类型 KL 磁芯

Regular Type KL Core

产品图例（Summary）：

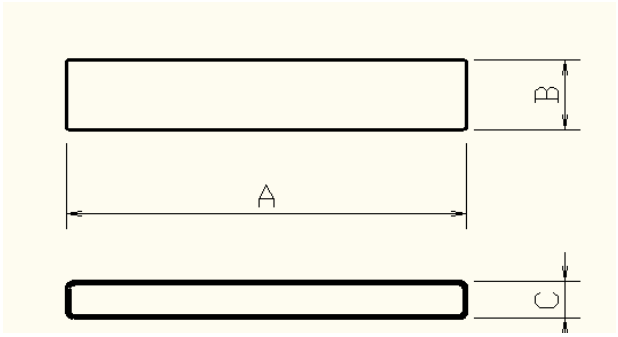


品名 Product code	尺寸 Dimension (mm)					
	A	B	C	D	E	H
KL6229	57.2±3	24±2	10±0.5	(36.5)	(R40)	5±0.5
KL8143	76±3	37.5±2	10±0.5	(53)	(R100)	5±0.5
KL8938	84±3	33±2	10±0.5	(53)	(R50)	5±0.5

常规类型 KI 磁芯

Regular Type KI Core

产品图例（Summary）：

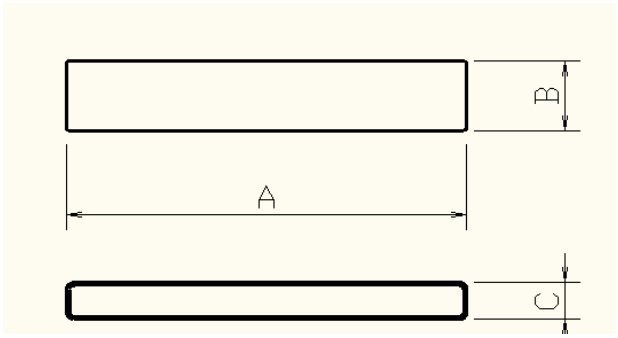


品名 Product code	尺寸 Dimension (mm)		
	A	B	H
KI3705	37+0.5/-1.5	9.8+0.2/-0.8	5±0.3
KI4005	40±0.5	10±0.5	5.0±0.5
KI4205	42+0.5/-0.8	10±0.3	5.0±0.3
KI4905	49±0.9	10±0.3	4.6±0.3
KI5004	50±0.8	13±0.2	4.0±0.2
KI5505	55+0.5/-1.5	9.8+0.2/-0.8	5±0.3
KI6005	60±0.9	10±0.3	4.6±0.3
KI6204	62±0.8	12.5±0.3	4.0±0.3
KI6205	62±0.8	10±0.3	5.0±0.3
KI6505	64.5+0.5/-1.5	10±0.5	5.0±0.5
KI6505C	64.5+0.5/-1.5	13±0.5	5.0±0.5
KI6807	68±1.0	10±0.5	6.5±0.5
KI9405	94+0/-2	20+0/-2	5.0±0.3

常规类型 I 磁芯

Regular Type I Core

产品图例（Summary）：

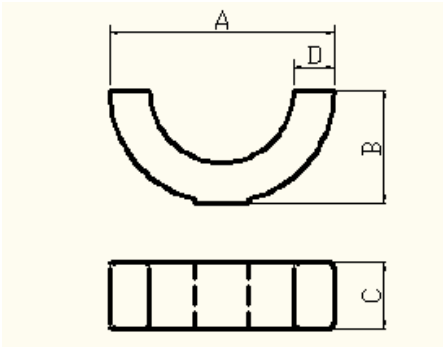


品名 Product code	尺寸 Dimension (mm)		
	A	B	H
I4502	45.0+0.4/−0.3	9.0±0.2	2.3±0.1
I4803	48.0+0.4/−0.3	6.0±0.2	3.0±0.1
I5009	50.0±0.7	15.0+0/−0.8	8.7±0.3
I7805	78.0±1.2	10.0±0.35	5.0±0.35

常规类型 FRC 磁芯

Regular Type FRC Core

产品图例（Summary）：



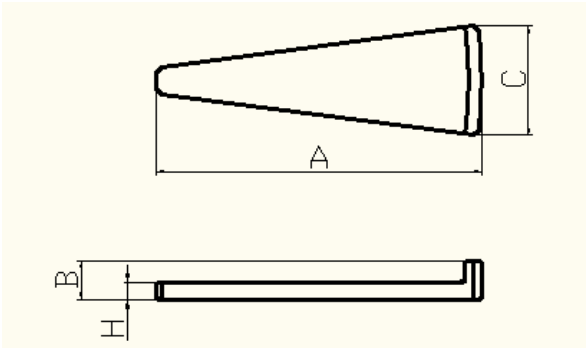
品名 Product code	尺寸 Dimension (mm)			
	A	B	C	D
FRC56/34/21B	55±0.5	(26.63)	21.3±0.3	
FRC64/41/19	64±0.8	32±0.8	18.8±0.3	11.5±0.3
FRC64/41/22	64±0.8	32±0.8	22.0±0.3	11.5±0.3
FRC64/41/25	63.6±0.8	32±0.8	25.0±0.3	11.5±0.3
FRC64/41/28	63.6±0.8	32±0.8	28.0±0.3	11.5±0.3
FRC79/52/20	79.4±0.8	38.8±0.8	20.0±0.3	13.5±0.3

品名 Product code	磁芯参数 Magnetic parameter				AL (nH/N²)
	Le (mm)	Ae (mm²)	Ve (mm³)	W (g)	6H20
FRC56/34/21B	134.79	227.44	30657	74	3806min.
FRC64/41/19	160	209	33400	84	2491min.
FRC64/41/22	159.43	248.59	39632	98.3	4000±25%
FRC64/41/25	157.97	265.56	41954	113.9	3183min.
FRC64/41/28	158.2	299.7	47414.7	127.5	3599min.
FRC79/52/20	201.8	239.78	48389.3	133.2	2551min.

常规类型 FP 磁芯

Regular Type FP Core

产品图例（Summary）：

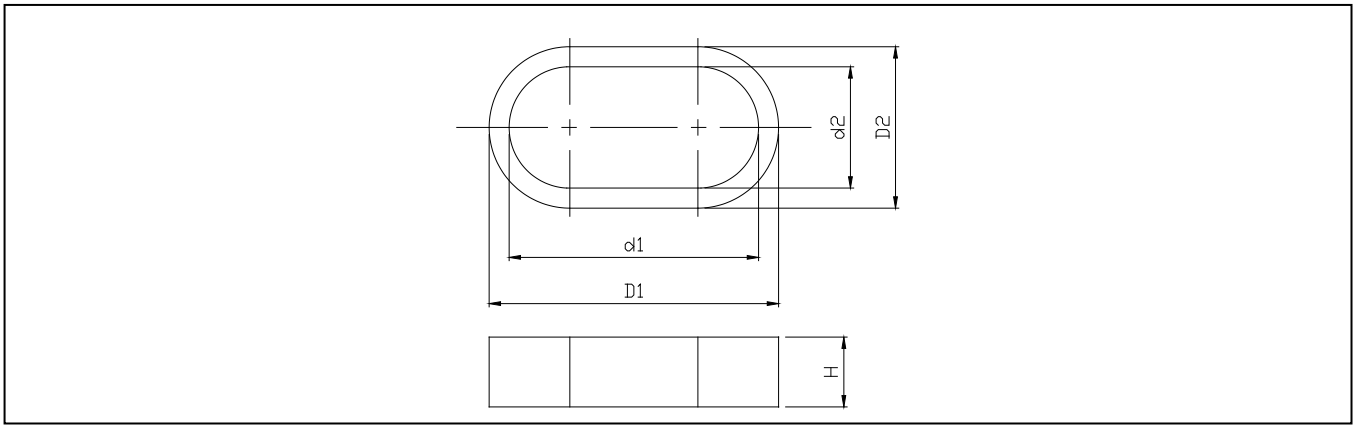


品名 Product code	尺寸 Dimension (mm)			
	A	B	C	D
FP81/05	64.5±0.8	9±0.3	(21.0)	4±0.3
FP100	76±0.8	9±0.3	(25.8)	4±0.3
FP100A	76±0.8	——	(25.8)	4±0.3

常规类型 NQF 磁芯

Regular Type NQF Core

产品图例（Summary）：



品名 Product code	尺寸 Dimension (mm)				
	A	B	C	D	E
NQF50/20	50±0.7	22±0.5	39±0.7	11±0.4	20±0.35
NQF64.5/20	64.5+0.3/-0.1	24.5+0.3/-0.6	47.5+0.8/-0.3	7.5+0.4/-0.3	20+0.8/-0
NQF70/15	70±1.0	28±0.7	47±0.7	5.0±0.5	15±0.3
NQF72.3/18.9	72.3±0.8	40.71±0.6	57.7±0.6	21.7±0.3	18.9±0.5

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