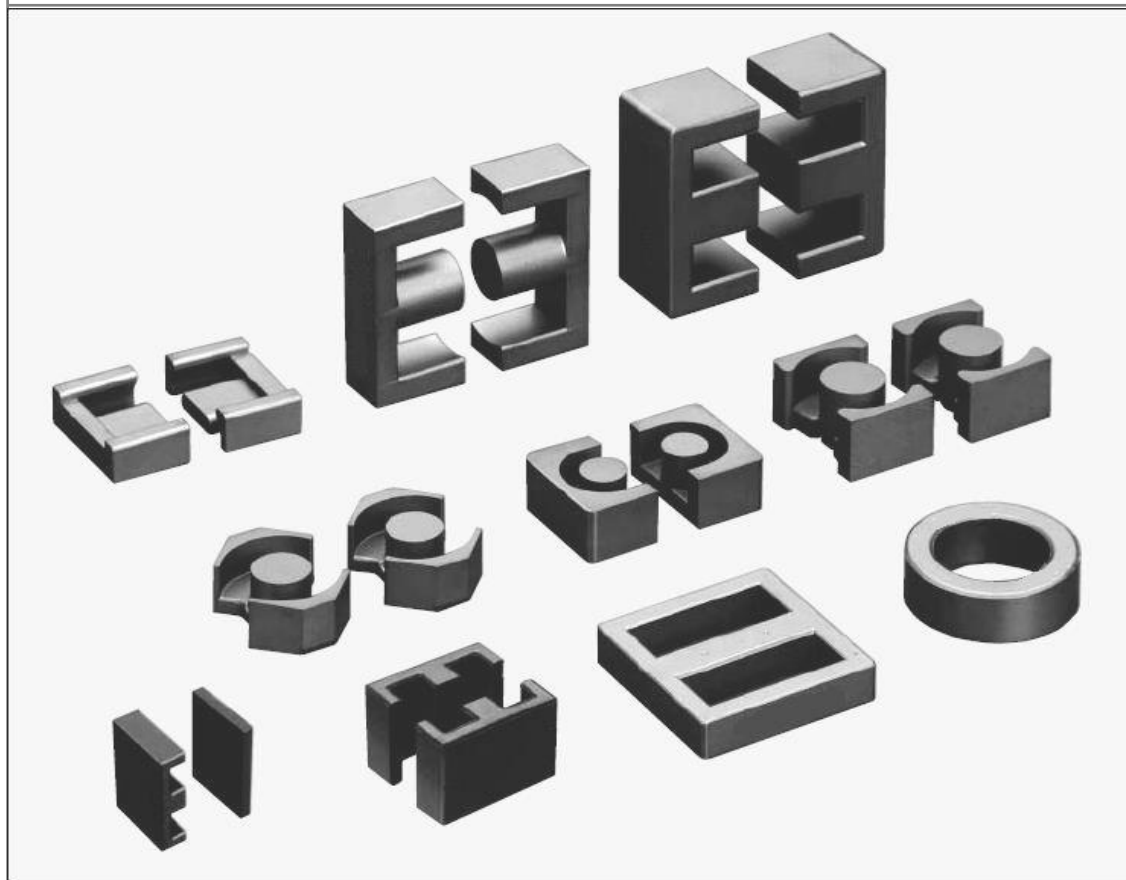




锰锌软磁铁氧体

Mn-Zn Soft Ferrite



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江苏大华电子有限公司
JIANGSU DAWHA ELECTRONICS CO., LTD.

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简介 BRIEF INTRODUCTION

江苏大华电子有限公司(DAWHA)成立于2011年4月,座落于江苏历史文化名城兴化市,是一家集铁氧体生产、经营、科研、技术开发及信息服务为一体的高新技术企业。公司一期注册资本2000万人民币,占地30余亩,已建厂房达20000平方米,年产能为5000吨。

DAWHA主要有DP、DB、DH三大系列,超过30种材质,几百种磁芯规格。产品被广泛应用于电脑及其外部设备、通信、互联网、办公自动化设备、彩电、录像机和DVD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电子等领域。

近年来为进一步提高市场竞争力,DAWHA引进先进的管理模式,以人为本,强化执行力,提高产品特性;强化对客户弹性及迅速交货之服务,并积极与国际大厂进行Design-in及Spec-in,以承认公司产品,提升本公司于国际市场之竞争潜力;积极推动自动化,少人化,提高生产效率,有效控制成本。

公司以创造客户价值为中心,以技术领先和品质稳定为基本点,聚焦高端客户,已成为许多国际一流厂商(如PHILIPS SHARP TPV PANASONIC等)合格供应商。

DAWHA本着诚信、高效、创新的企业精神,为您提供全方位的服务,并真诚期待您的支持与惠顾。

简介 BRIEF INTRODUCTION

Jiangsu DAWHA Electronics Co., Ltd. (DAWHA) was established in April 2011 , located in the historical and cultural city of Xinghua City, Jiangsu Province .DAWHA is a ferrite producer with the ability of new product development. DAWHA covers an area of 30 acres, structure area over 20,000 square meters. The registered capital is 20 million yuan.Capacity is over 5,000 tons/year.

DAWHA contains DP, DB, DH three series, more than 30 kinds of materials, hundreds of core specifications. The products are widely used in computers and its periphery device , communication, Internet, office automation , color TVs , VCR and DVD etc. domestic AV devices, EMC, green lighting , industries, medical treatment instruments,automobile electronics and so on..

In order to improve the competitiveness , DAWHA uses an advanced management mode : people oriented , strengthen executive power, improve product characteristics ; enHanced flexibility and rapid delivery of customer service , and actively carry out Design-in and Spec-in with the international manufacturers, in order to improve our products , enhance our competitive potential in the international market ; actively promote automation , manpower saving , improve productivity and effective cost control .

Center on creating value for customer, base on advanced technology and stable quality , focus on the top customers, Dawha has become the qualified supplier of many famous manufacturers (such as PHILIPS SHARP TPV PANASONIC , etc.) .

In the spirit of honesty , efficient and innovation, DAWHA provide you with a comprehensive service, and sincerely look forward to your support and patronage.

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

$$\mu_i = \frac{1}{\mu_0} \lim_{H \rightarrow 0} \frac{B}{H}$$

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

H 为磁场强度(A/m)

B 为磁通密度(T)

2.有效磁导率 μ_e

在闭合磁路中, 如果漏磁可忽略, 可以用有效磁导率来表征磁芯的性能。

$$\mu_e = \frac{L}{\mu_0 N^2} \cdot \frac{l_e}{A_e}$$

式中 L 为装有磁芯的线圈的电感量(H)

N 为线圈匝数

l_e 为有效磁路长度(m)

A_e 为有效截面积 (m^2)

3.饱和磁通密度 B_s (T)

磁化到饱和状态的磁通密度。见图 1。

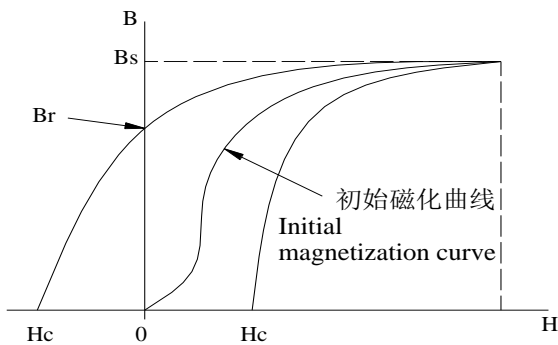


图 1 (Fig 1)

4.剩余磁通密度 B_r (T)

从饱和状态去除磁场后, 剩余的磁通密度。见图 1。

1. Initial permeability, μ_i

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

$$\mu_i = \frac{1}{\mu_0} \lim_{H \rightarrow 0} \frac{B}{H}$$

Where

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

H: Magnetic field strength (A / m)

B: Magnetic flux density (T)

2. Effective permeability, μ_e

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

$$\mu_e = \frac{L}{\mu_0 N^2} \cdot \frac{l_e}{A_e}$$

Where

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

N: number of turns

l_e : effective magnetic path length (m)

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

3. Saturation magnetic flux density, B_s (T)

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

4. Residual magnetic flux density, B_r (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，此时的磁场强度称为矫顽力。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 δ h 为磁滞损耗因数

tan δ e 为涡流损耗因数

tan δ 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 δ / μ i (适用于材料)

tan δ / μ 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 T₁ 和 T₂ 范围内变化时，每变化 1K 相应的磁导率的相对变化量:

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

式中 μ₁ 为温度为 T₁ 时的磁导率

μ₂ 为温度为 T₂ 时的磁导率

10.相对温度系数 α μ r (1/K)

温度系数和磁导率之比，即

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

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 δ h is the hysteresis loss factor

tan δ e is the eddy current loss factor

tan δ r is the residual loss factor

7. Relative loss factor , tan δ / μ

This is the ratio of loss factor to permeability.

tan δ / μ i (for materials)

tan δ / μ 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 T₁ to T₂.

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

Where μ₁: permeability at temperature T₁

μ₂: permeability at temperature T₂

10. Relative temperature coefficient, α μ r (1/K)

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

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

11.居里温度 Tc (°C)

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。

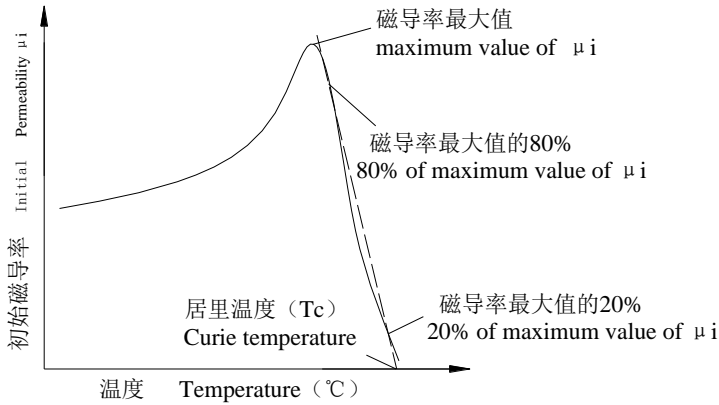


图 2 (Fig 2)

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

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

式中 μ₁ 为退磁后 t₁ 分钟的磁导率
μ₂ 为退磁后 t₂ 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.

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

Where

μ₁: permeability t₁ minutes after complete demagnetization.

μ₂: permeability t₂ 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/m³)

单位体积材料的重量，即

$$d = W/V$$

式中 W 为磁芯的重量 (kg)
V 为磁芯的体积 (m³)

14. Density, d (kg/m³)

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

$$d = W/V$$

Where W : weight of magnetic body (kg)
V : volume of magnetic body (m³)

15. 功率损耗 P_c (Kw/ m³、W/ kg)

磁芯在高磁通密度下的单位体积损耗或单位重量损耗。该磁通密度可表示为

$$B_m = \frac{E}{4.44 f N A_e}$$

式中 E 为施加在线圈上的电压有效值 (V)

B_m 为磁通密度的峰值 (T)

f 为频率 (Hz)

N 为线圈匝数

A_e 为有效截面积 (m²)

16. 电感因数 A_L (nH / N²)

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

17. 磁滞损耗常数 ηB

磁滞损耗常数 ηB 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:

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

15. Power loss P_c (Kw/ m³、W/ kg)

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

$$B_m = \frac{E}{4.44 f N A_e}$$

Where

E: voltage effective value applied to coil

B_m : peak value of magnetic flux density

f: frequency (Hz)

N: number of coil turns

A_e : effective cross-sectional area (m²)

16. Inductance factor A_L (nH / N²)

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. Hysteresis material constant ηB

For the hysteresis material constant ηB we obtain:

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

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

材料介绍:

DAWHA 锰锌铁氧体材料共包括下列三大类:

DP 系列: 用作各类开关电源变压器及扼流圈磁芯材料。

DB 系列: 用作照明, 汽车电子及 LCD 背光电源变压器磁芯材料。

DH 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 DAWHA Ferrite materials:

DAWHA Ferrite materials are classified into the following three kinds:

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

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

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

标准材质 DP 系列

DP 系列功率材质, 具有低磁芯损耗、高饱和磁通密度的特点, 广泛应用于各类开关电源变压器以及扼流圈中。DP40 材质性能优、价格低、应用广, 是出色的标准材质。

DP44 材质磁芯损耗比 DP40 低约 25%, 适用于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。

DP47 材质比 DP44 材质的功率损耗低约 15%, 具有更高磁饱和和感应强度, 是目前适用于笔记本适配器、电源最好的材质, 目前主要应用于: 笔记本适配器、电源、LCD 等。

DP95 材料具有宽温低损耗的特性, 在 25°C~120°C 范围内, 单位体积功耗都比较低。除了具有宽温低损耗特性, DP95 材料导磁率的温度稳定性也很高, 在低温-40°C 时, 导磁率还高于 2000, 非常适合室外及寒冷场所使用。此外, DP95 材料还具有高饱和和磁感应强度特性, 可用于有直流偏磁场的工作场合。DP95 具有较高的使用价值, 目前主要应用于: LED 变压器、野外照明、笔记本适配器

我司最新材料: DP95A、DP96

DAWHA 根据市场对数字化、便携化的需求, 在 DP95 的基础上, 成功的开发了具有更高饱和磁感应强度的新材质 DP95A 和宽频(300kHz)低损耗的 DP96 材质。

Standard materials: DP series

DP series are DAWHA'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.

DP40 is standard material with superior characteristics and high performance-cost ratio.

Core loss of new DP44 material is around 25% lower than that of standard DP40, and is suitable for transformers and choke coils for flat, low profile power supplies and AC/DC adaptors of electronic equipment (such as notebook PCs), which strictly require low temperature rise.

Additionally, DAWHA has developed new materials with lower core loss and higher magnetic flux density, which satisfies latest requirements of digital and mobile electronics. DP47 is the best material for notebook adapter, power supply, LCD and so on.

DP95 has a wide temperature range low-loss characteristics of materials at 25 °C ~ 120 °C . In addition to wide temperature low-loss characteristics, DP95's temperature stability is also very well. At -40°C the permeability is still higher than 2000 which is suitable for outdoors or extreme cold place. DP95 also has high saturation magnetic flux density characteristics. DP95 is mainly used in: LED transformers, outdoor lighting, notebook adapter.

Our latest material: DP95A、DP96

On the basis of DP95, DAWHA successfully developed a new material DP95A which had higher saturation magnetic flux density characteristics than DP95. DP96 had a wider frequency range than DP95A.

材料特性 MATERIAL CHARACTERISTICS

● 低损耗铁氧体材料 Low loss ferrite materials

特性 Characteristics	符号 Symbol	单位 Unit		DP40	DP44	DP47	DP50B
初始磁导率 Initial permeability	μ_i			2300±25%	2400±25%	2500±25%	2000±25%
相对损耗因数 Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-6}$		—	< 3	—	—
饱和磁通密度 Saturation flux density	Bs	mT	25℃	510	510	530	440
			100℃	390	400	420	370
				(1194A/m)	(1194A/m)	(1194A/m)	(1194A/m)
剩磁 Remanence	Br	mT	25℃	110	110	180	140
			100℃	55	60	70	100
矫顽力 Coercivity	Hc	A/m	100℃	13	10	13	30
功率损耗 Power loss (f=25kHz,B=200mT)	Pc	Kw/m ³	25℃	140	125	120	—
			60℃	80	80	55	—
			80℃	65	50	45	—
			100℃	55	40	35	—
			120℃	70	45	45	—
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	Kw/m ³	25℃	650	600	600	*180
			60℃	550	450	400	*140
			80℃	450	350	320	*130
			100℃	400	310	270	*140
			120℃	500	360	350	*150
居里温度 Curie temperature	Tc	℃		≥230	≥230	≥230	≥200
电阻 Resistivity	ρ	$\Omega \cdot m$		6.5	6.5	4.0	6.5
密度 Density	d	$kg/m^3 \times 10^3$		4.8	4.8	4.85	4.75

*测试条件: f=400kHz,B=50mT

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.

材料特性 MATERIAL CHARACTERISTICS

特性 Characteristics	符号 Symbol	单位 Unit	DP95	DP95A	DP96	DP97	
初始磁导率 Initial permeability	μ_i		3200±25%	3300±25%	3000±25%	3300±25%	
相对损耗因数 Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-6}$	-	-	-	-	
饱和磁通密度 Saturation flux density	Bs	mT	25℃	520	540	530	530
			100℃	410	430	420	410
				(1194A/m)	(1194A/m)	(1194A/m)	(1194A/m)
剩磁 Remanence	Br	mT	25℃	50	45	45	80
			100℃	55	50	50	60
矫顽力 Coercivity	Hc	A/m	100℃	9	9	9	8
功率损耗 Power loss (f=25kHz, B=200mT)	Pc	Kw/m ³	25℃	50	50	**280	-
			60℃	40	40	**270	-
			80℃	40	40	**260	-
			100℃	35	35	**270	-
			120℃	45	45	**300	-
功率损耗 Power loss (f=100kHz, B=200mT)	Pc	Kw/m ³	25℃	310	300	330	340
			60℃	290	290	300	-
			80℃	280	280	290	260
			100℃	280	290	300	270
			120℃	340	340	340	315
居里温度 Curie temperature	Tc	℃	≥230	≥230	≥230	≥220	
电阻 Resistivity	ρ	$\Omega \cdot m$	6.5	6.0	6.0	4	
密度 Density	d	kg/m ³ ×10 ³	4.8	4.9	4.9	4.9	

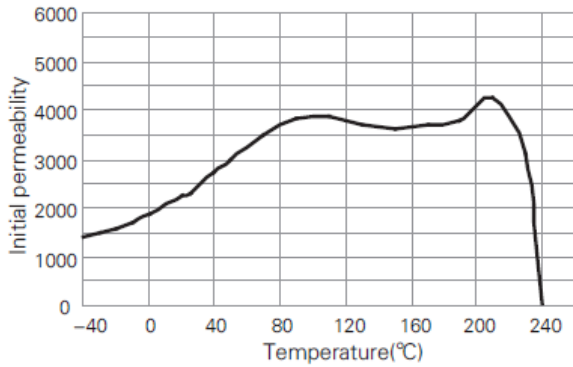
**测试条件: f=300kHz, B=100mT

注: 如无说明, 各项数值均系用环型磁芯在室温下测得。

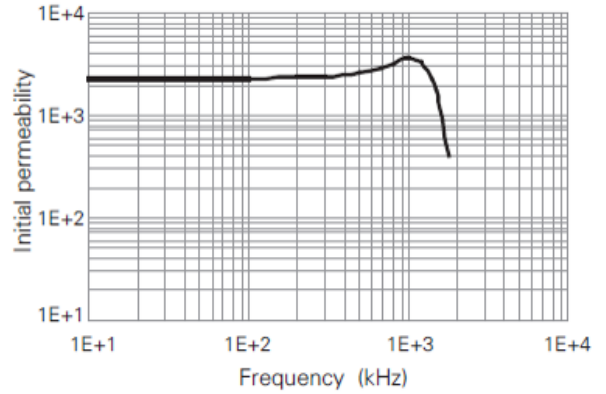
Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

<DP40>

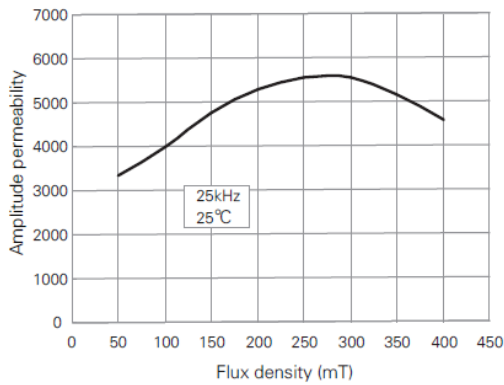
μ_i -Temperature



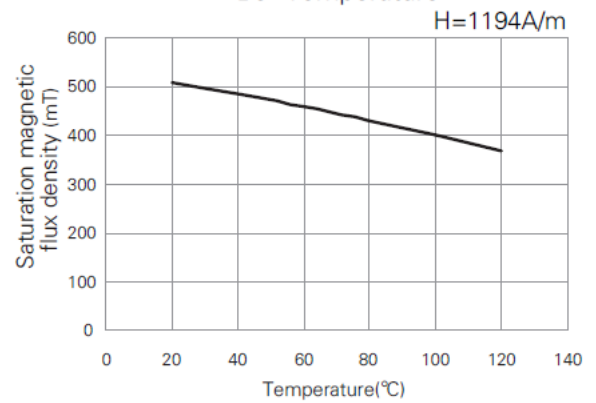
μ_i -Frequency



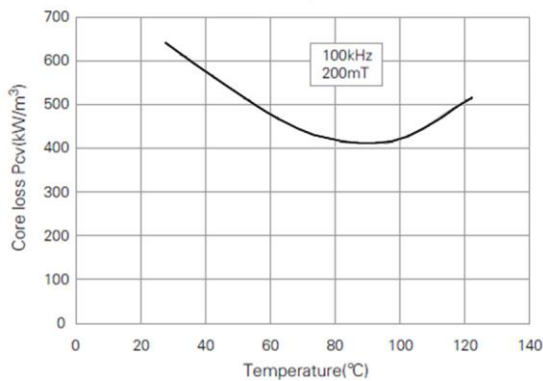
μ_a -Bm



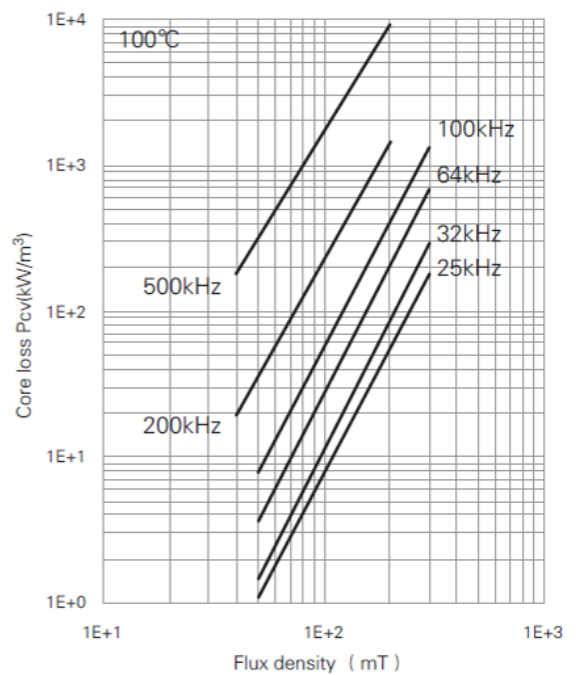
Bs-Temperature



Pcv-Temperature

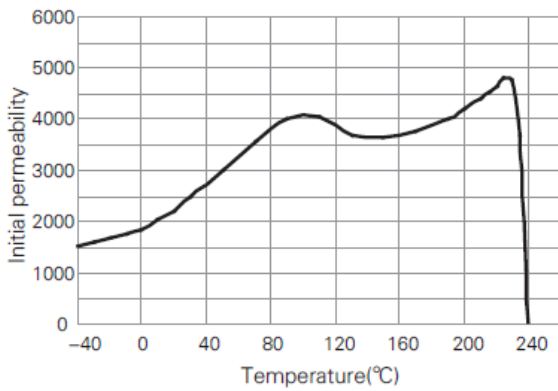


Pcv-Bm

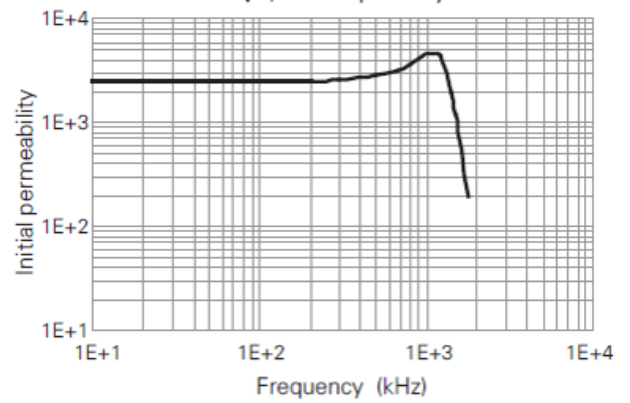


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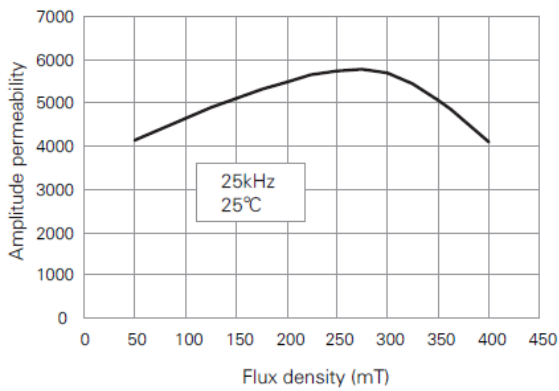
μ_i -Temperature



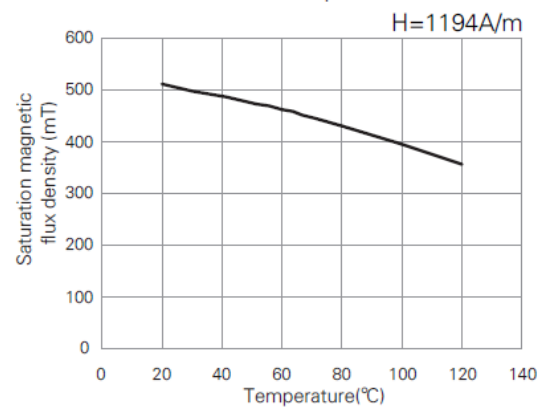
μ_i -Frequency



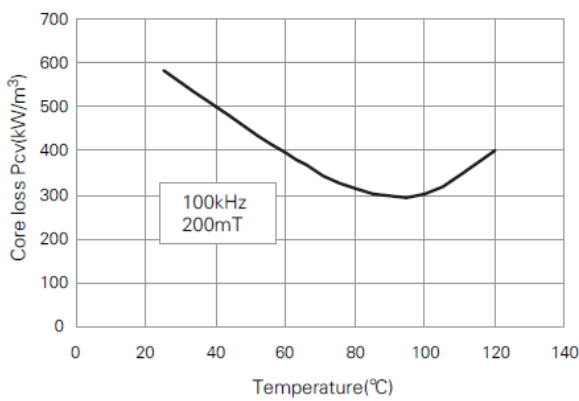
μ_a -Bm



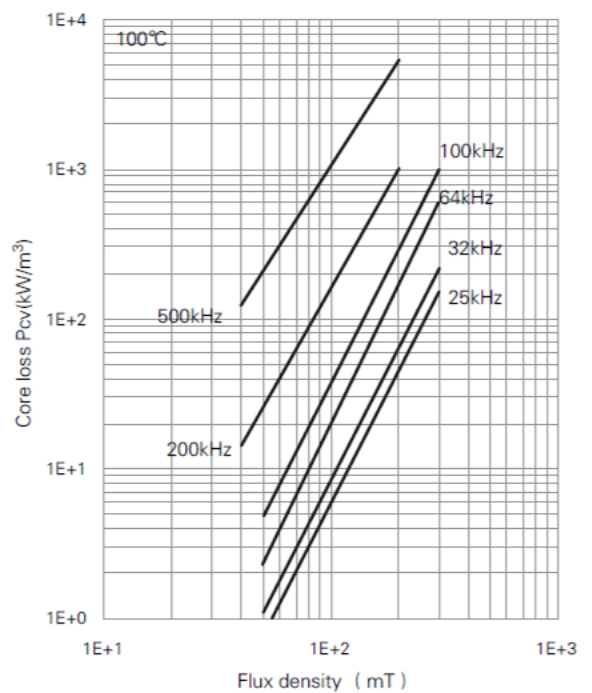
Bs-Temperature



Pcv-Temperature

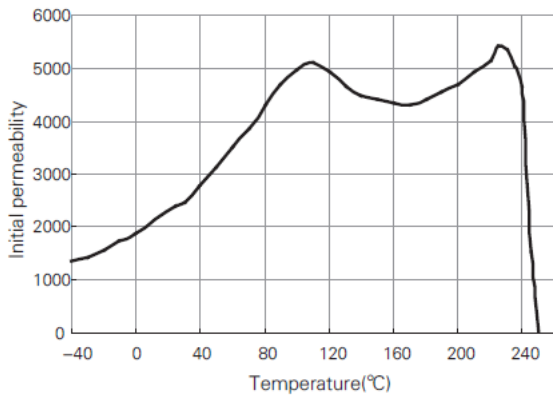


Pcv-Bm

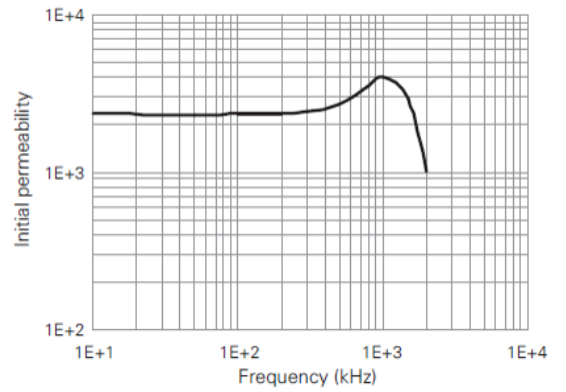


<DP47>

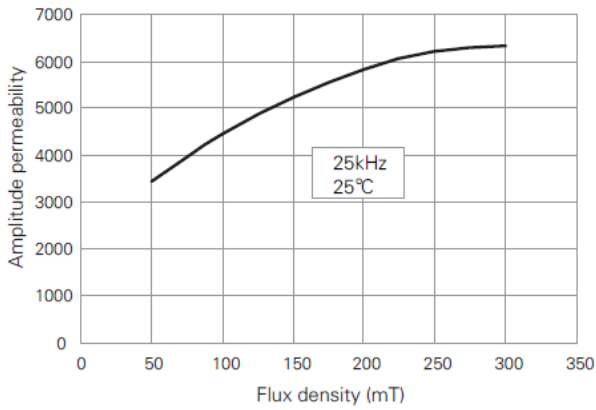
μ_i -Temperature



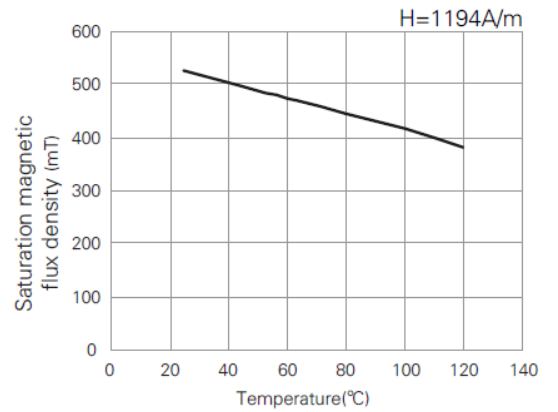
μ_i -Frequency



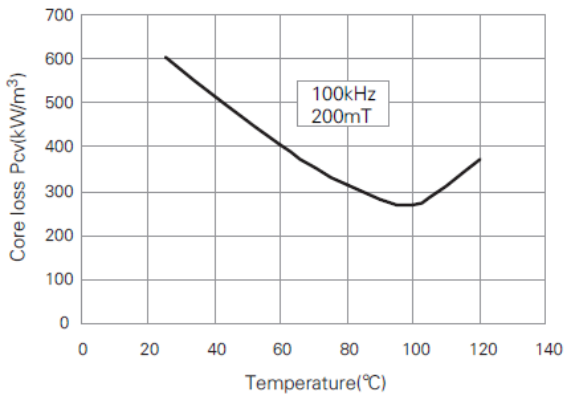
μ_a -Bm



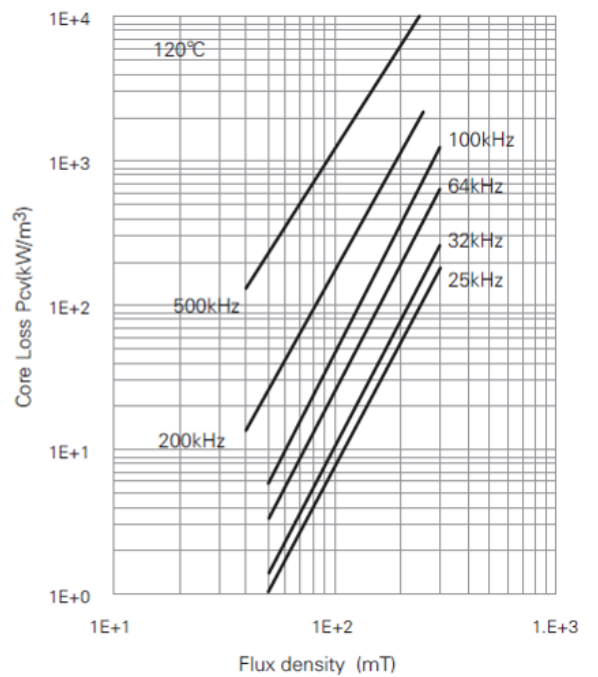
Bs-Temperature



Pcv-Temperature

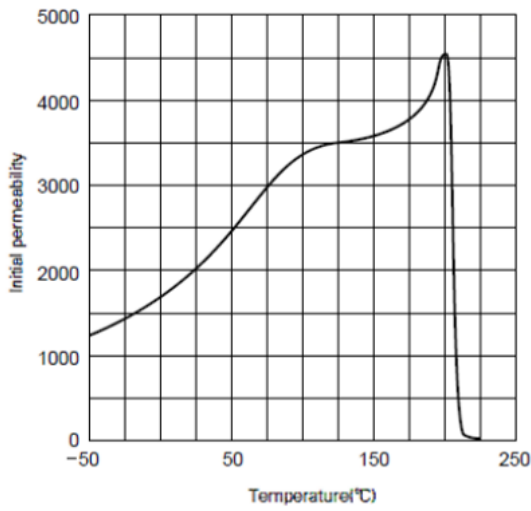


Pcv-Bm

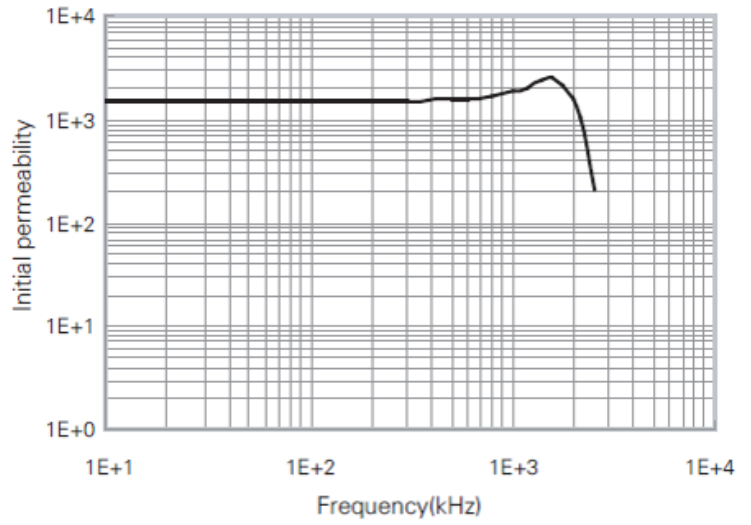


< DP50B >

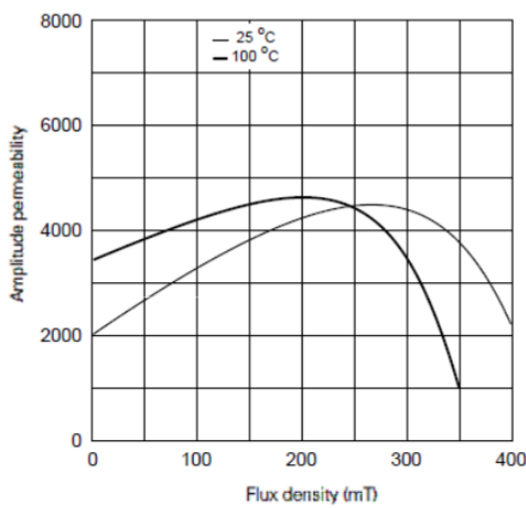
μ_i -Temperature



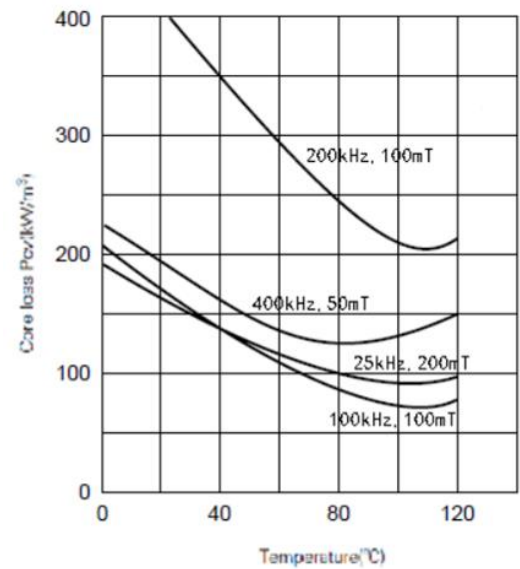
μ_i -Frequency



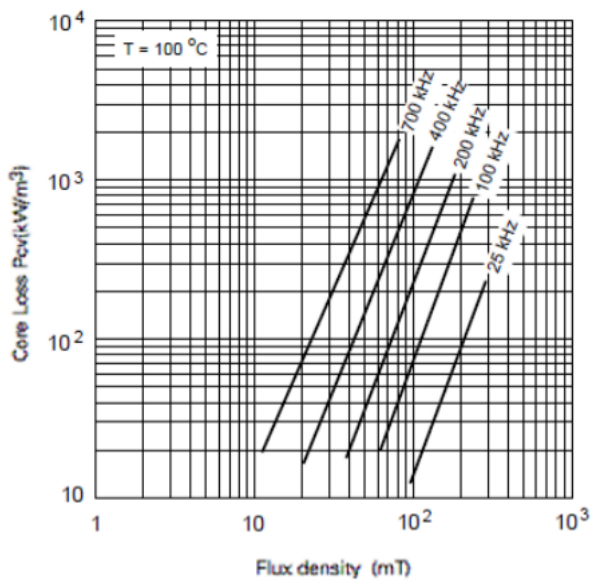
μ_B -Bm



P_{cv} -Temperature

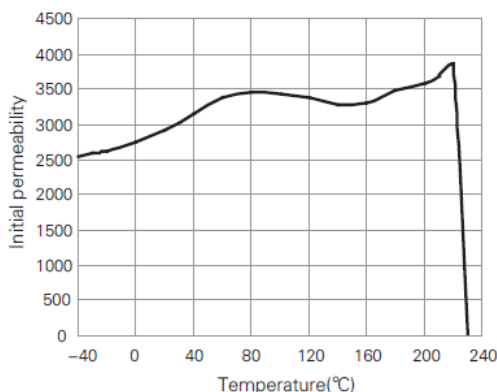


P_{cv} -Bm

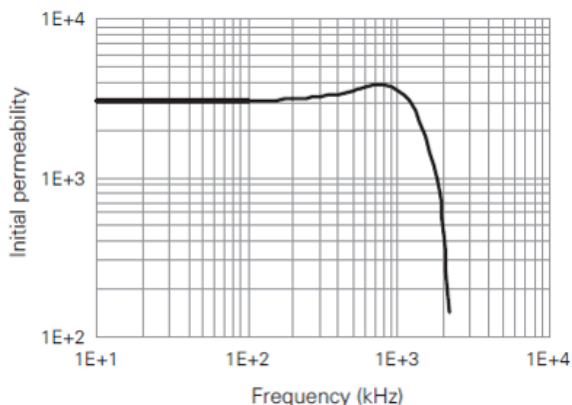


< DP95 >

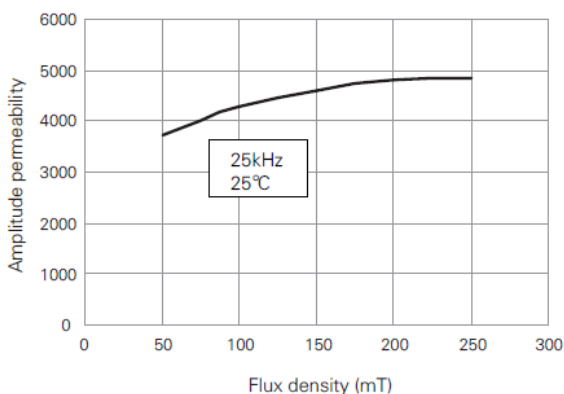
μ_i - Temperature



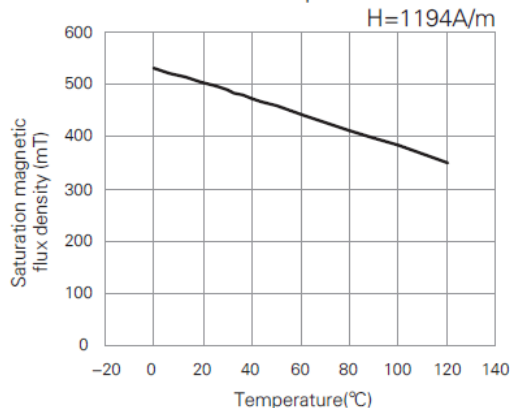
μ_i - Frequency



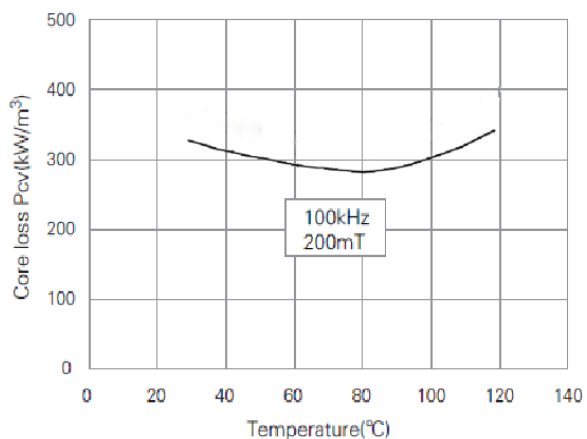
μ_a - Bm



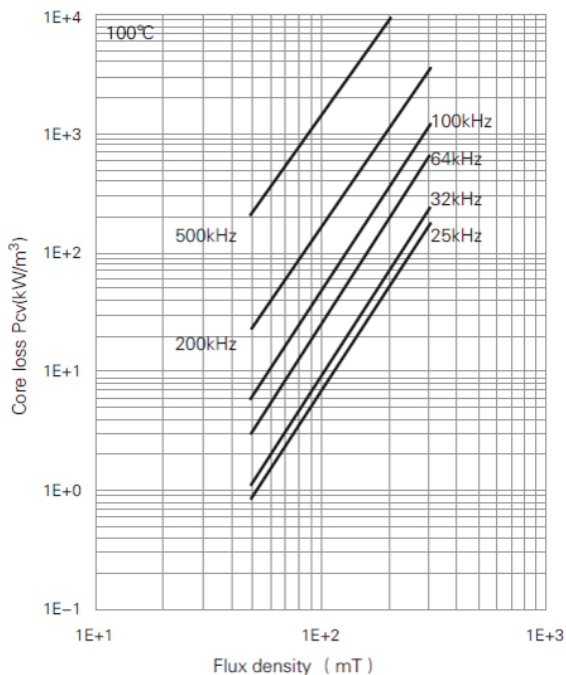
Bs - Temperature



Pcv - Temperature

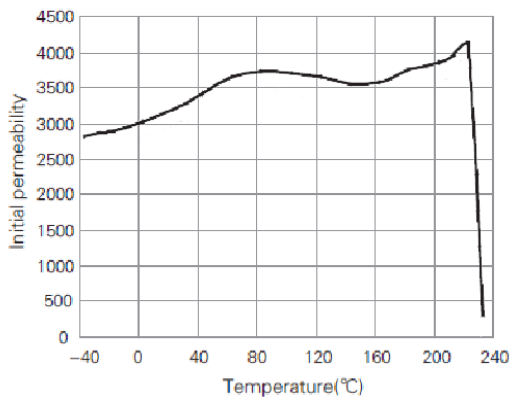


Pcv - Bm

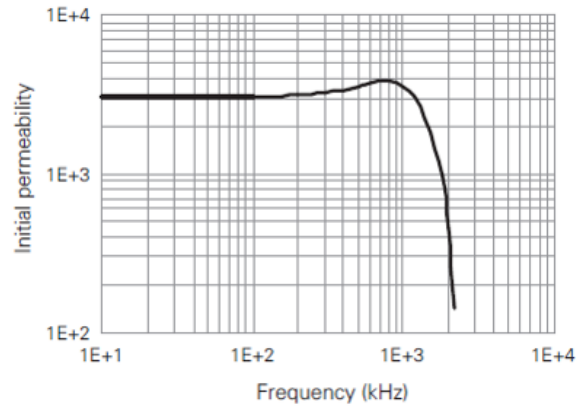


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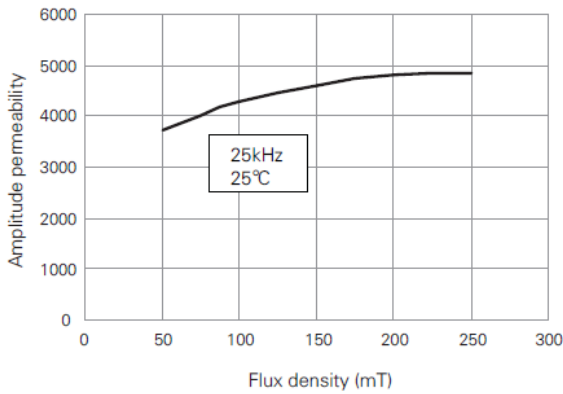
μ_i -Temperature



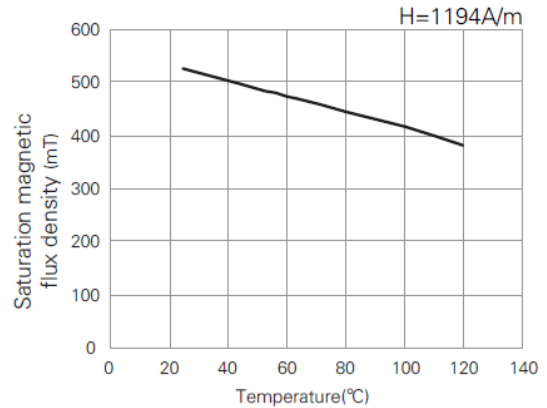
μ_i -Frequency



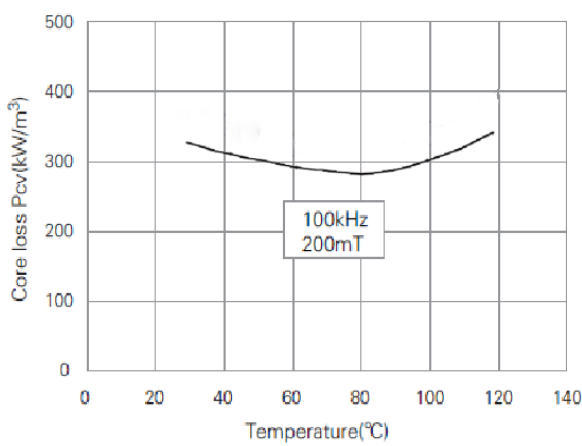
μ_a -Bm



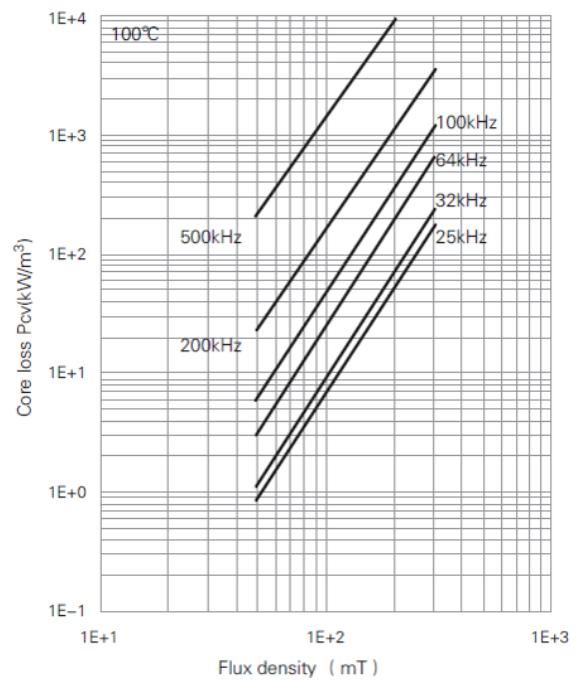
Bs-Temperature



Pcv-Temperature

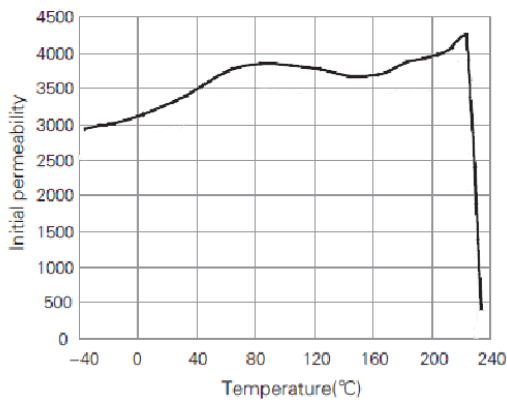


Pcv-Bm

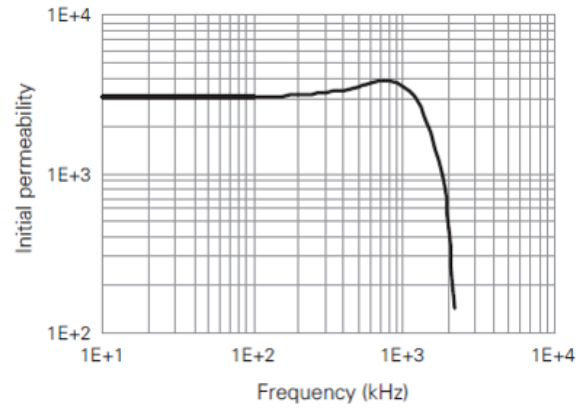


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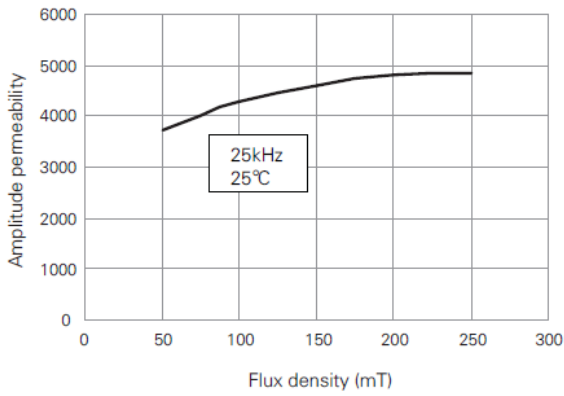
μ_i -Temperature



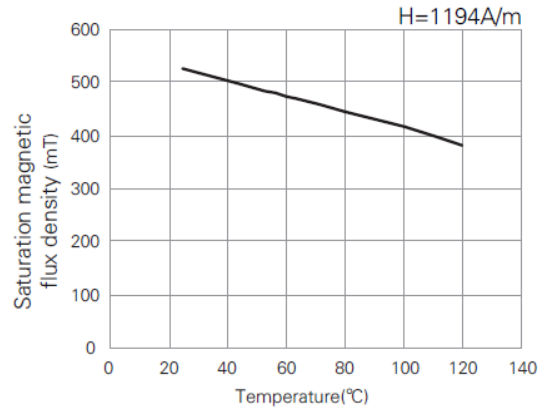
μ_i -Frequency



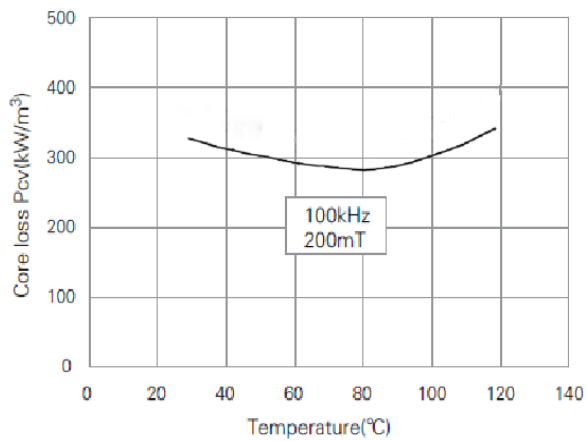
μ_a -Bm



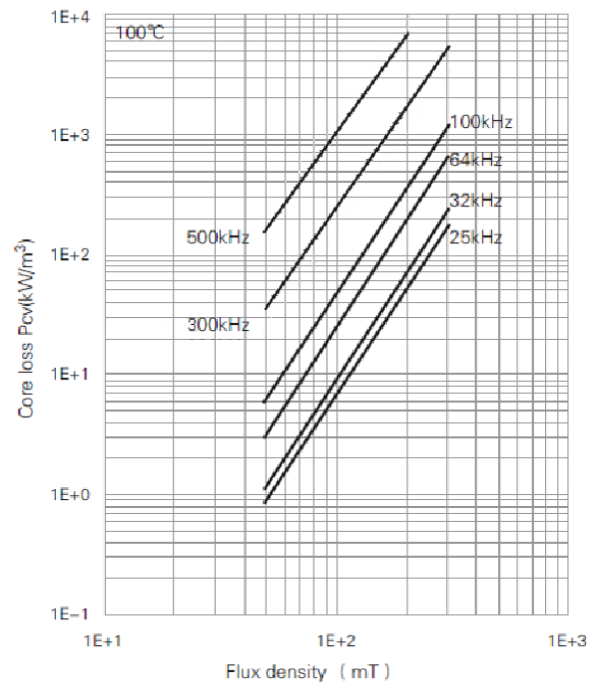
Bs-Temperature



Pcv-Temperature

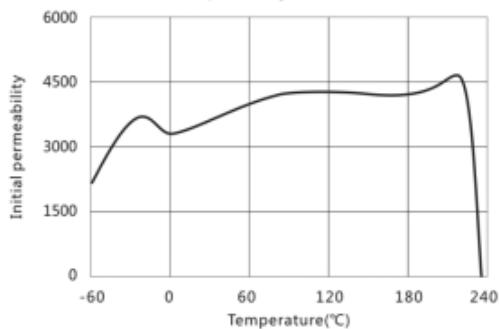


Pcv-Bm

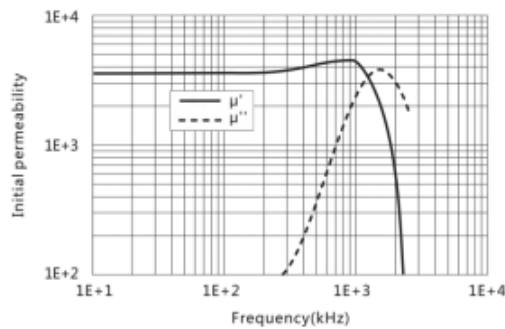


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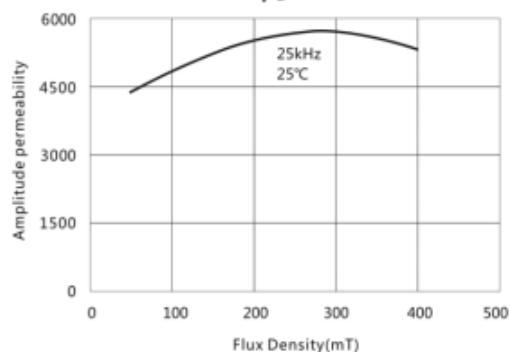
μ_i -Temperature



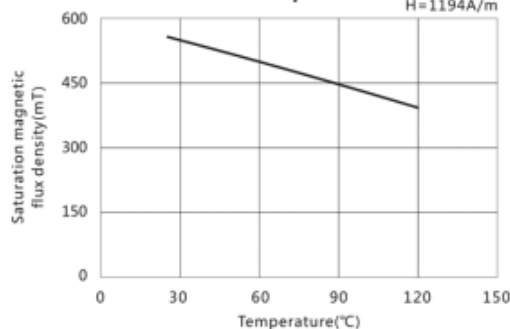
μ_i -Frequency



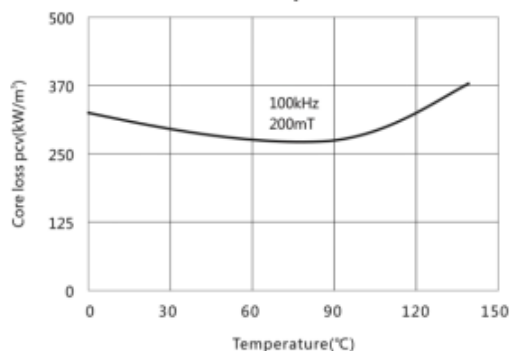
μ_a -Bm



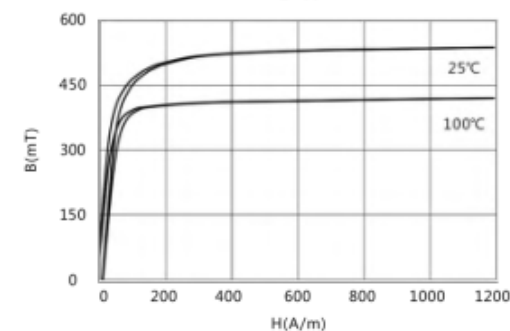
Bs-Temperature



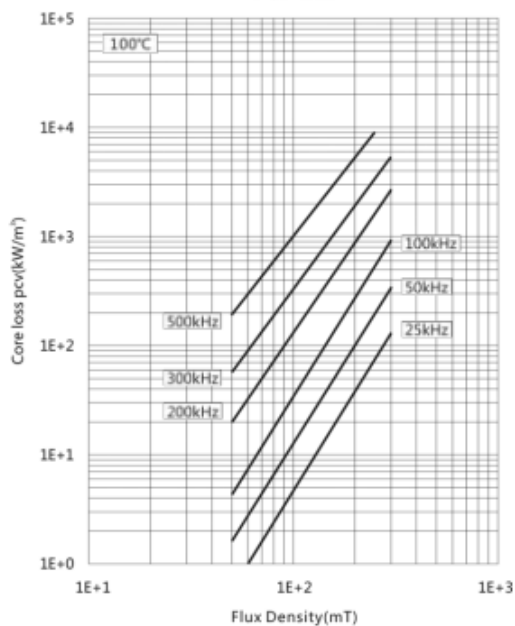
Pcv-Temperature



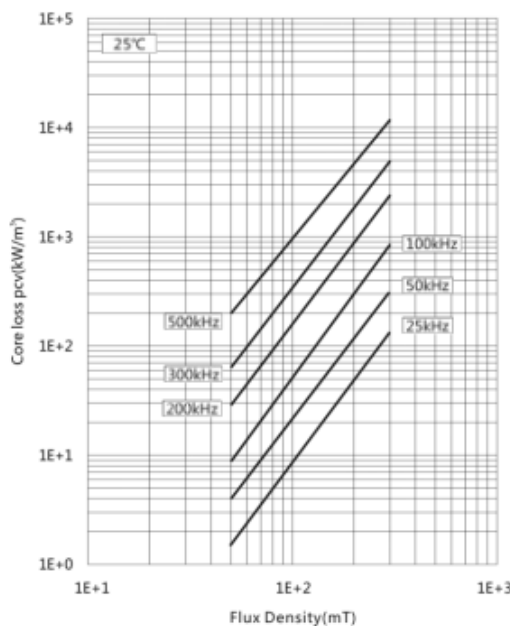
B-H



Pcv-Bm



Pcv-Bm



高饱和磁通密度材质 DB 系列

DB 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 DB90 材质在 100℃ 时饱和磁通密度为 440mT，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 DP40 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: DB series

DB series materials are characterized by their high saturation flux density at temperature as high as 100°C, 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.

DB90 material has high saturation flux density of 440mT at 100°C 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, DB90 material is usually used in automobile component which works under hot circumstance such as near a heating motor and so on. Compared to DP40, DB90 can reduce component's volume by 15-20%, so can further minimize component.

材料特性 MATERIAL CHARACTERISTICS

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

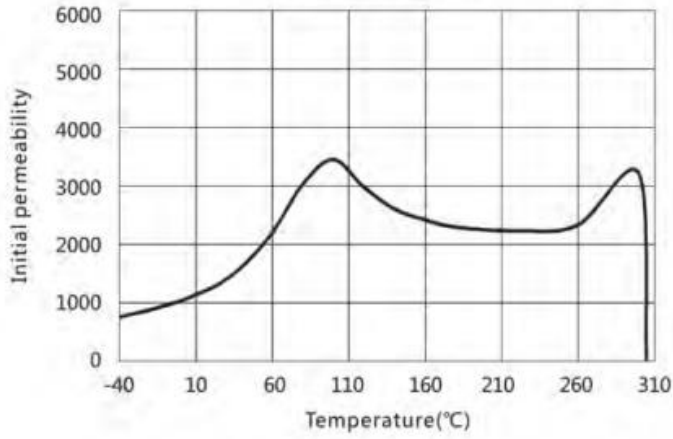
特性 Characteristics	符号 Symbol	单位 Unit	DB15	DB90	DB91	DB91B	DB1A	
初始磁导率 Initial permeability	μ		1200±25%	1800±25%	2000±25%	2000±25%	3800±25%	
相对损耗因数 Relative loss factor	$\tan\delta/\mu$	$\times 10^{-6}$	-	< 5	< 3	< 3	< 1.5	
饱和磁通密度 Saturation flux density	Bs	mT	25℃	560	520	600	550	520
			100℃	475	440	490	460	420
				(1194A/m)	(1194A/m)	(1194A/m)	(1194A/m)	(1194A/m)
剩磁 Remanence	Br	mT	100	130	150	200	160	
矫顽力 Coercivity	Hc	A/m	10	13	17	11	10	
功率损耗 Power loss (f=25kHz,B=200mT)	Pc	Kw/m ³	25℃	-	110	-	110	50
			60℃	-	90	180	75	90
			80℃	-	75	200	50	105
			100℃	-	60	210	45	125
功率损耗 Power loss (f=100kHz,B=200mT)	Pc	Kw/m ³	25℃	1100	750	-	700	400
			60℃	-	600	-	470	600
			80℃	-	500	-	350	700
			100℃	500	450	-	300	850
居里温度 Curie temperature	Tc	℃	≥280	>230	>300	>280	>245	
电阻 Resistivity	ρ	$\Omega \cdot m$	6	2	2	6	1.5	
密度 Density	d	kg/m ³ ×10 ³	4.9	4.9	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。

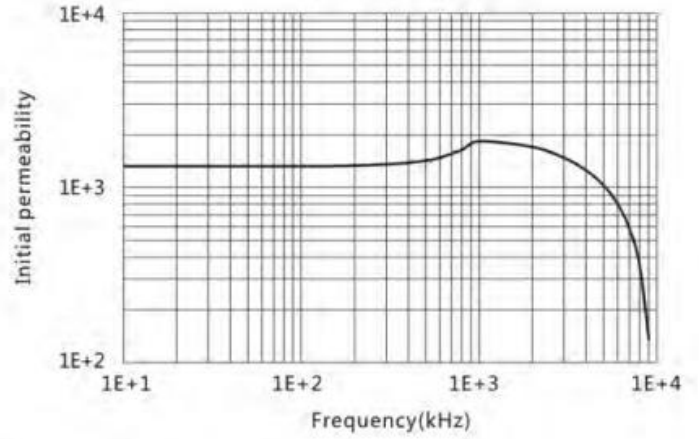
Note: The values were obtained with toroidal cores at room temperature unless otherwise shown.

<DB15>

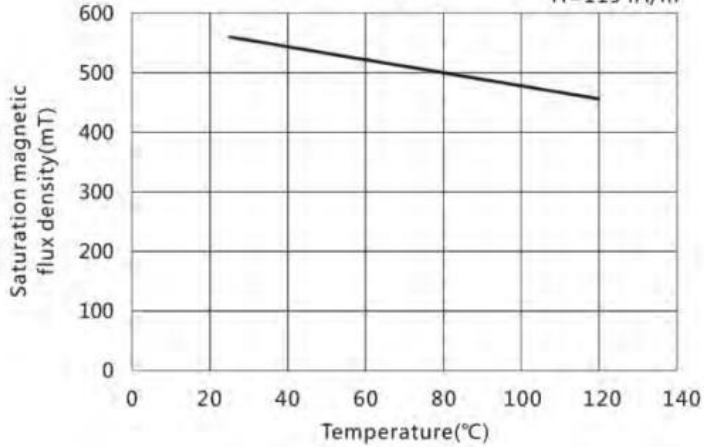
μ_i -Temperature



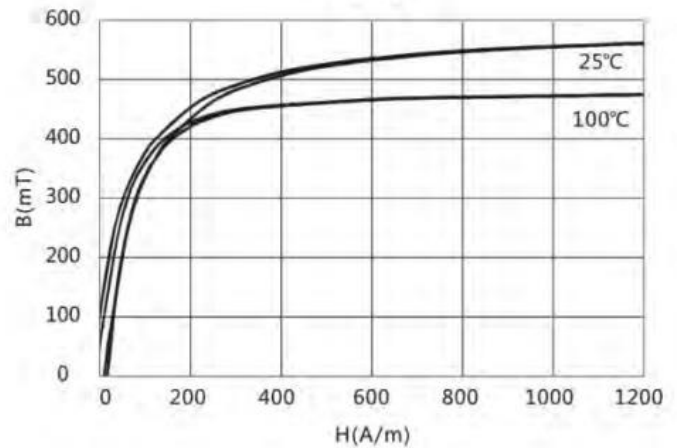
μ_i -Frequency



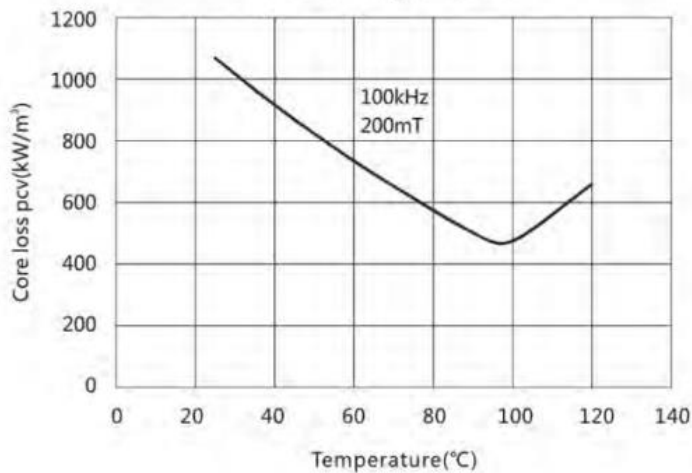
B_s -Temperature $H=1194A/m$



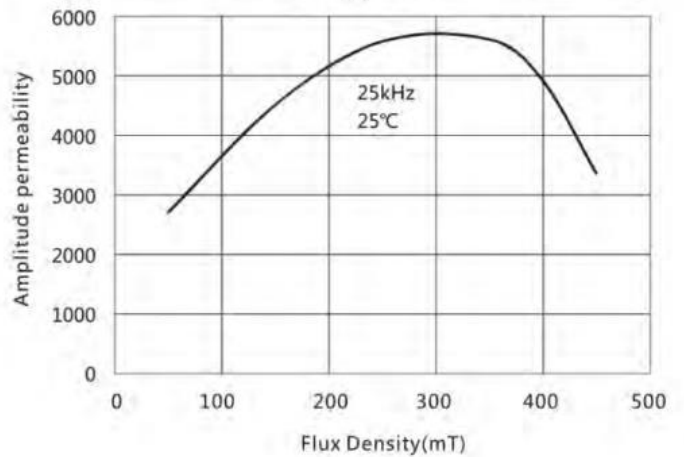
B-H

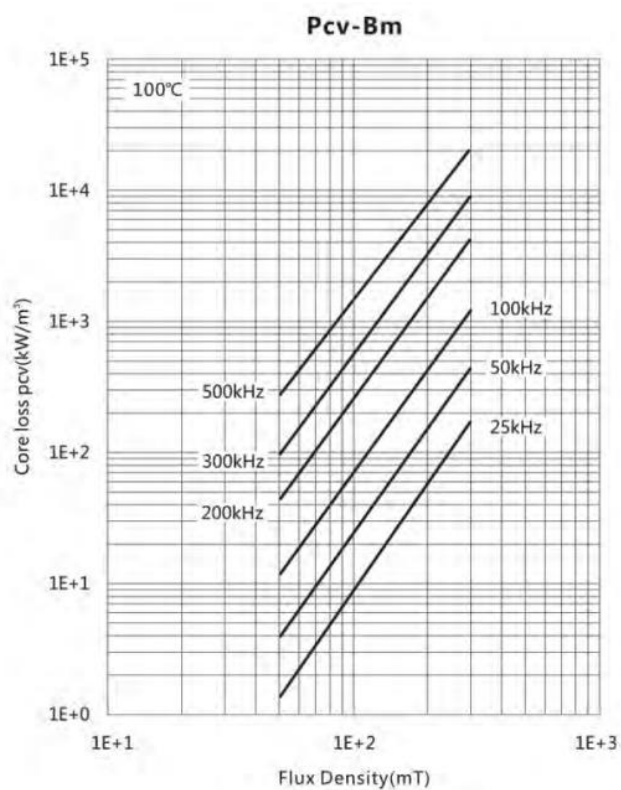
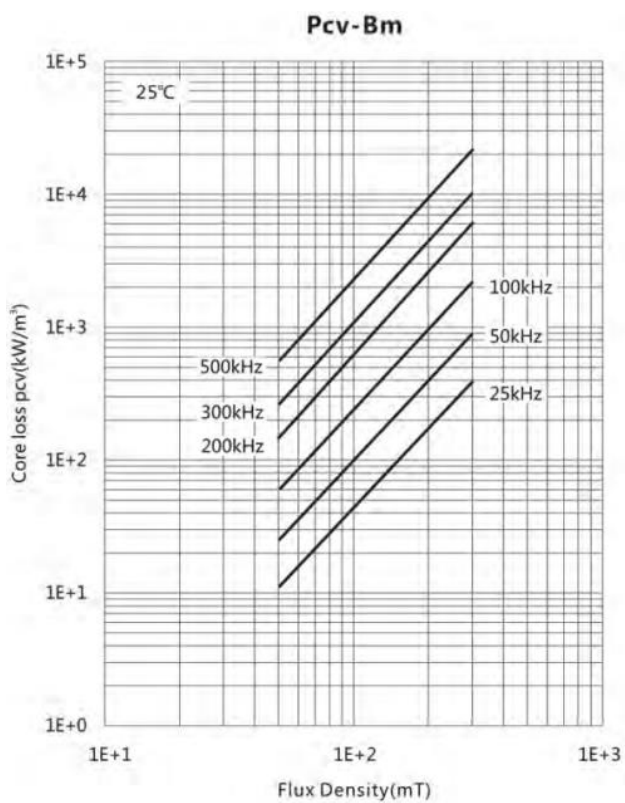


P_{cv} -Temperature



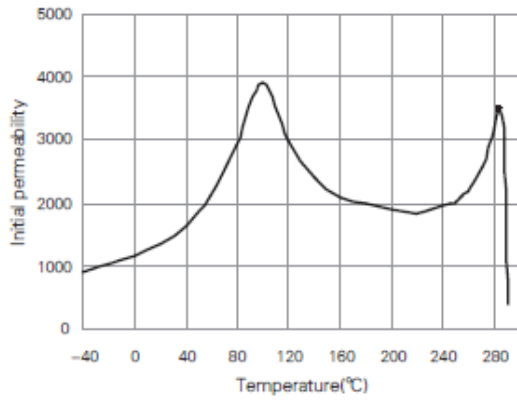
μ_a -Bm



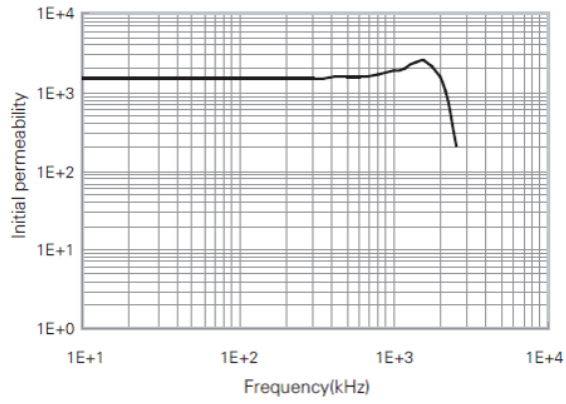


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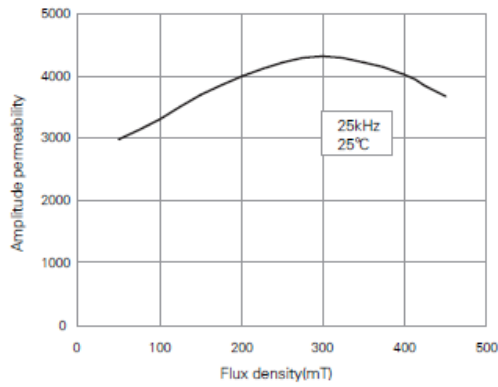
μ_i -Temperature



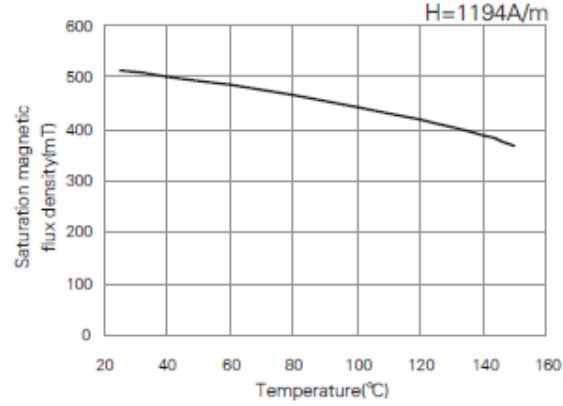
μ_i -Frequency



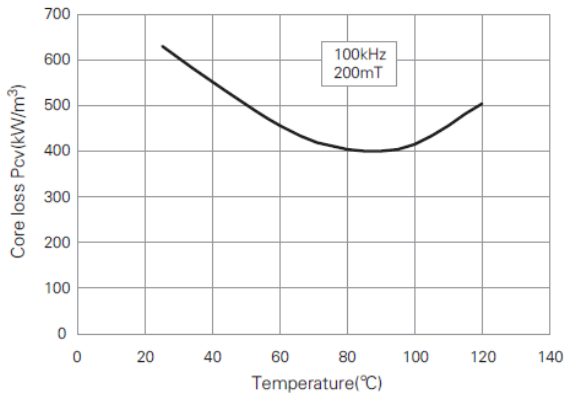
μ_a -Bm



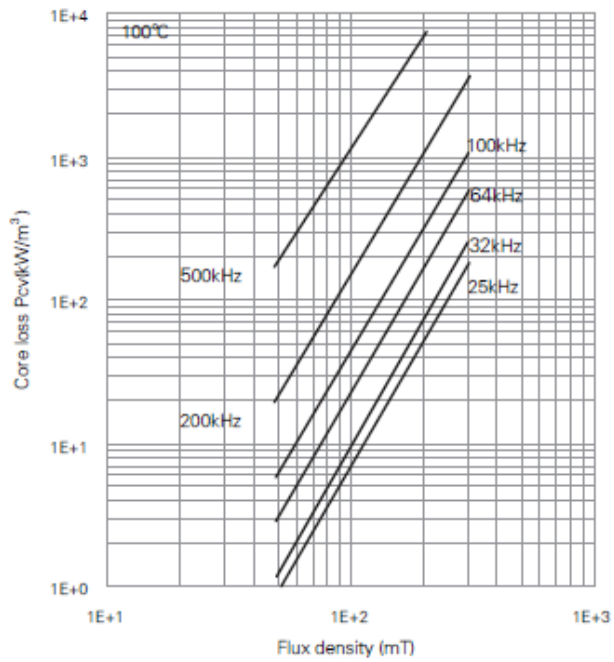
Bs-Temperature



Pcv-Temperature

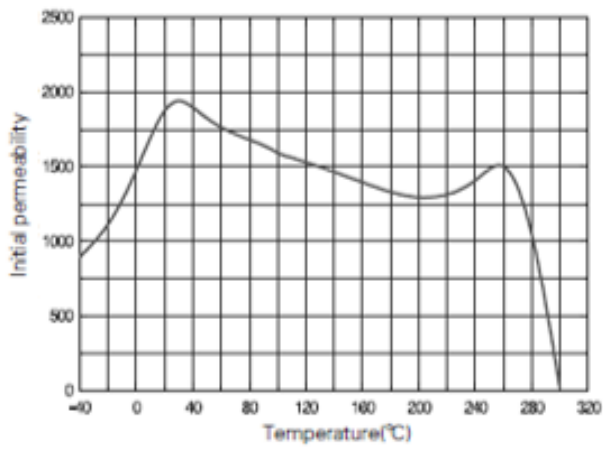


Pcv-Bm

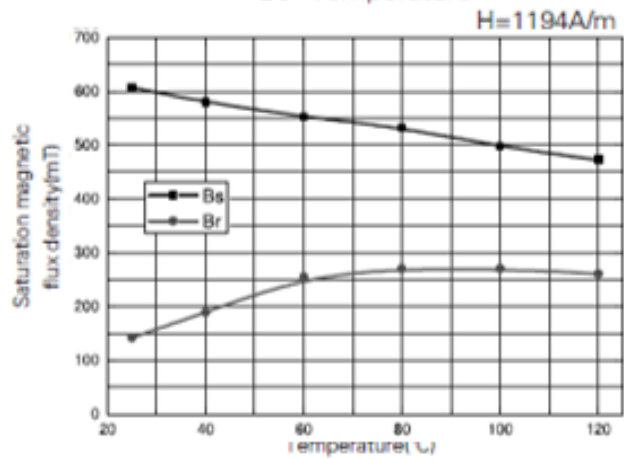


<DB91>

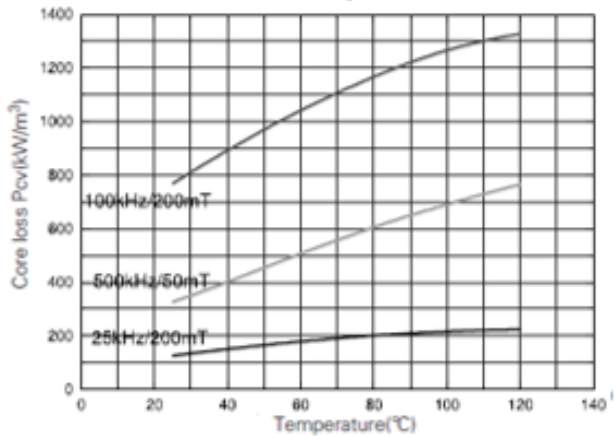
μ_i -Temperature



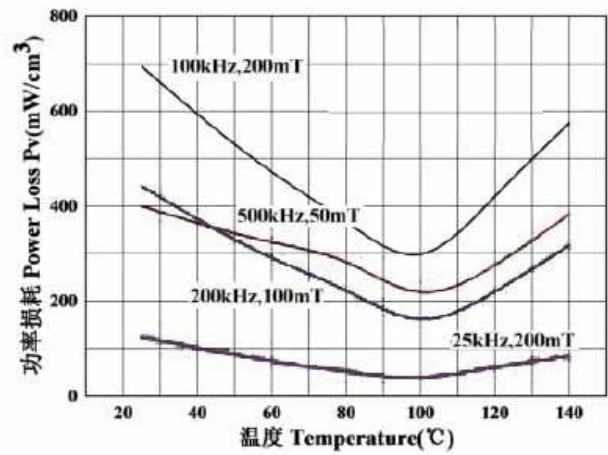
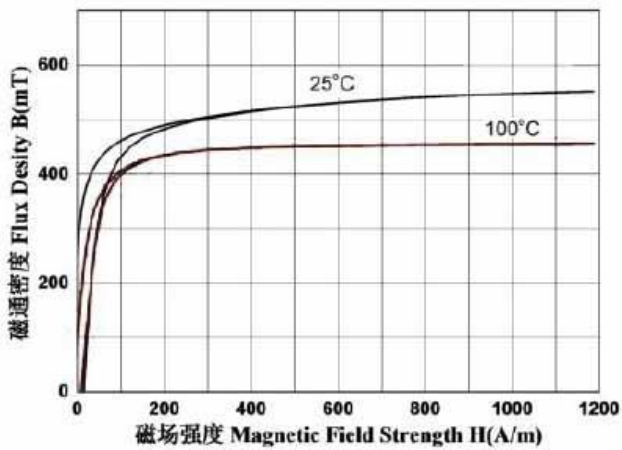
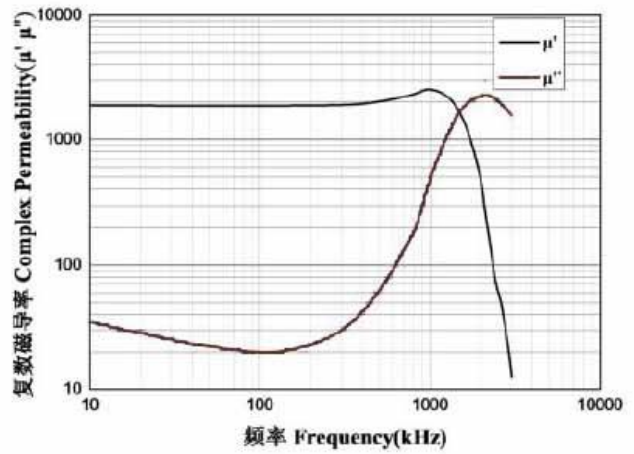
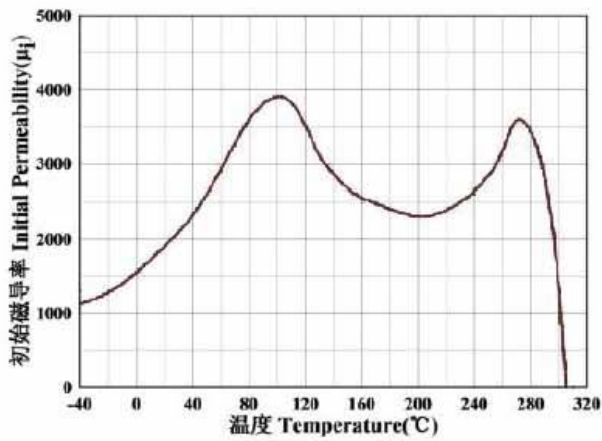
B_s -Temperature



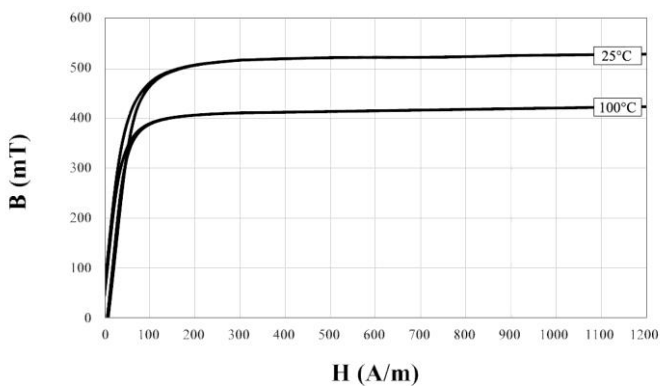
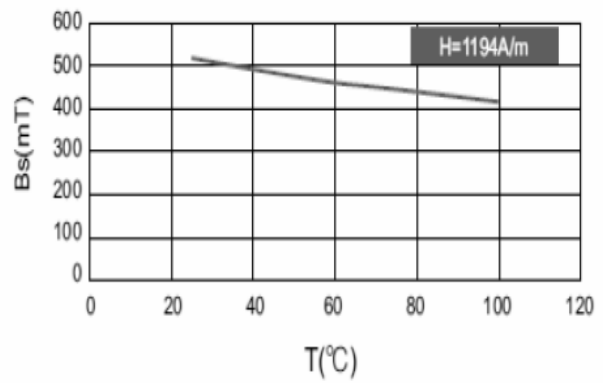
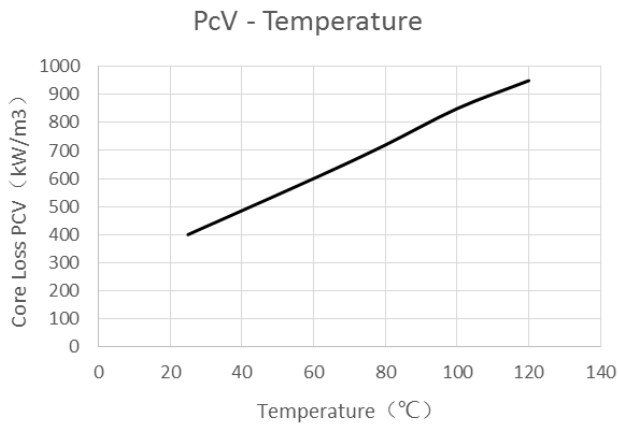
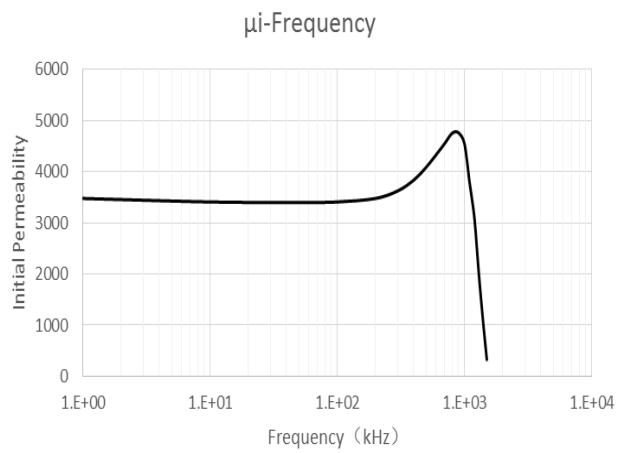
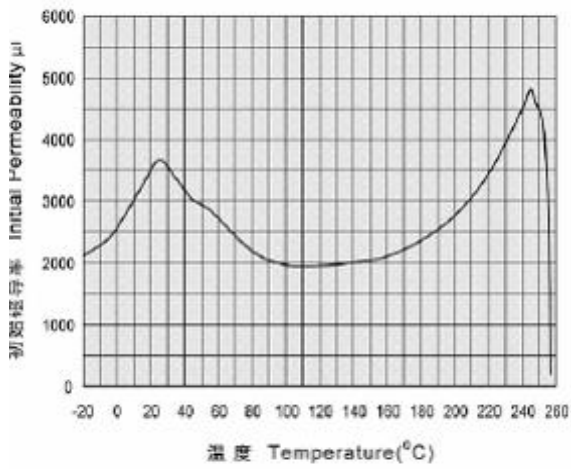
P_{cv} -Temperature



<DB91B>



<DB1A>



DH 系列

DH 系列具有高磁导率特点，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。

DH07 材质（ $\mu_i=7000$ ）以及 DH10 材质（ $\mu_i=10000$ ）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。DH07 材质、DH10 材质被广泛用于 500kHz 以下的低频噪声抑制领域。

DH15 材质（ $\mu_i=15000$ ），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）。DH15 材质通常用于室内通信设备用脉冲变压器。

DH Series:

DH series are high permeability material 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.

DH07($\mu=7000$)and DH10 ($\mu=10000$) are DAWHA's standard high permeability materials with superior characteristics and high performance-cost ratio, and suitable for common mode noise suppressors with frequency below 500kHz.

DH15($\mu=15000$) are the latest superior permeability materials for interface (pulse) transformers. DH15 is suitable for pulse transformers of telecommunication equipment for indoor use.

材料特性 MATERIAL CHARACTERISTICS

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

特性 Characteristics	符号 Symbol	单位 Unit	DH31	DH04	DH04T	DH05	DH07
初始磁导率 Initial permeability	μ_i		1500±25%	4300±25%	4300±25%	5000±25%	7000±30%
相对损耗因数 Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-6}$	<20 (100kHz)	<10 (100kHz)	<5 (100kHz)	<15 (100kHz)	<5 (10kHz)
相对温度系数 Relative temperature coefficient	$\alpha_{\mu r}$	$\times 10^{-6}$ 1/K	-	0~2.0 (-30~20°C)	-0.5~0.5 (-30~20°C)	0~1.5 (-30~20°C)	0~1.5 (-30~20°C)
			-	-0.5~2.0 (20~70°C)	0~1.0 (20~70°C)	-0.5~1.5 (20~70°C)	-0.5~1.5 (20~70°C)
饱和磁通密度 Saturation flux density	Bs	mT	340 (1194 A/m)	450 (1194 A/m)	450 (1194 A/m)	450 (1194 A/m)	410 (1194 A/m)
剩磁 Remanence	Br	mT	250	140	110	110	110
矫顽力 Coercivity	Hc	A/m	28	8	10	11	4
减落因数 Disaccommodation factor	D _F	$\times 10^{-6}$	-	<3	<2	<3	<3
居里温度 Curie temperature	T _c	°C	>130	>150	>160	>150	>130
电阻率 Resistivity	ρ	$\Omega \cdot m$	30	0.2	0.2	0.2	0.15
密度 Density	d	$kg/m^3 \times 10^3$	4.85	4.85	4.85	4.85	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.

材料特性 MATERIAL CHARACTERISTICS

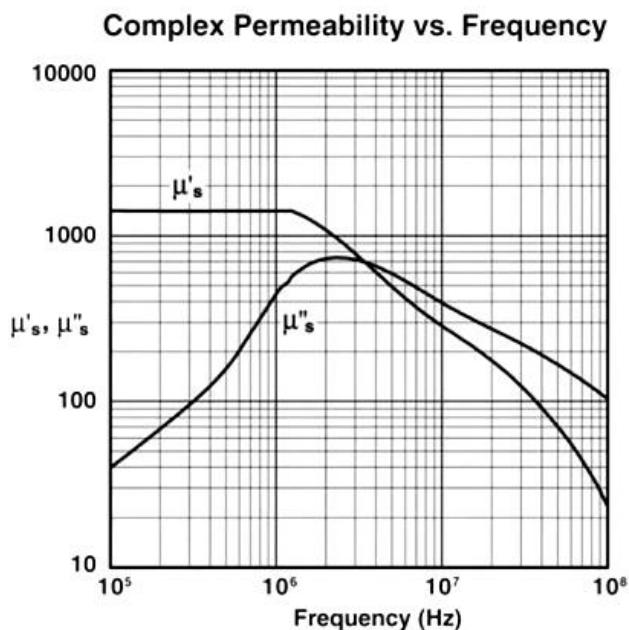
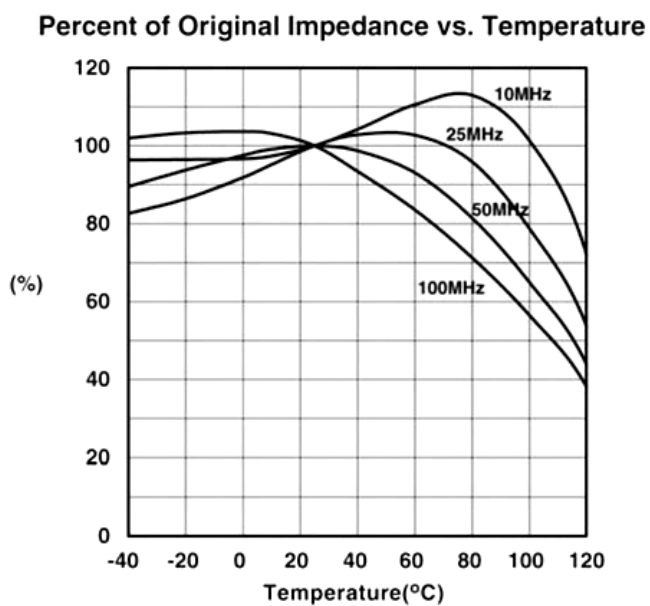
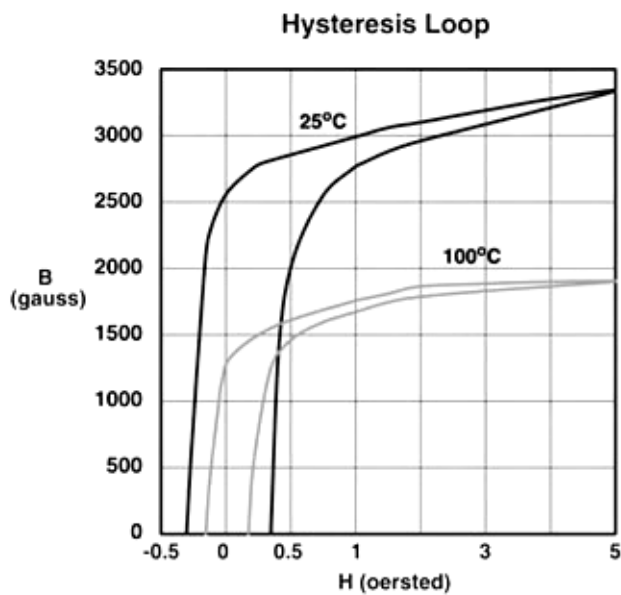
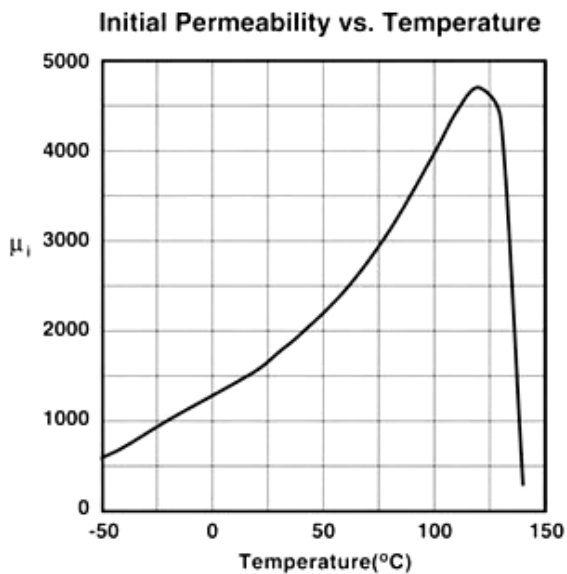
● 高磁导率铁氧体材料 High permeability ferrite materials

特性 Characteristics	符号 Symbol	单位 Unit	DH10	DH10T	DH12	DH15
初始磁导率 Initial permeability	μ_i		10000±30%	10000±30%	12000±30%	15000±30%
相对损耗因数 Relative loss factor	$\tan\delta/\mu_i$	$\times 10^{-6}$	<10 (10kHz)	<10 (10kHz)	<10 (10kHz)	<10 (10kHz)
相对温度系数 Relative temperature coefficient	$\alpha_{\mu r}$	1/K	0~1.5 (0~20℃)	-1~1 (0~20℃)	0~1.5 (0~20℃)	-1~1 (0~20℃)
			-0.5~1 (20~70℃)	-1~1 (20~70℃)	-0.5~1 (20~70℃)	-1~1 (20~70℃)
饱和磁通密度 Saturation flux density	Bs	mT	400 (1194 A/m)	400 (1194A/m)	380 (1194A/m)	370 (1194A/m)
剩磁 Remanence	Br	mT	100	100	80	50
矫顽力 Coercivity	Hc	A/m	3	3	2	2
减落因数 Disaccommodation factor	D _F	$\times 10^{-6}$	<2	<2	<2	<2
居里温度 Curie temperature	T _c	℃	>120	>120	>110	>100
电阻率 Resistivity	ρ	$\Omega \cdot m$	0.15	0.15	0.12	0.1
密度 Density	d	$kg/m^3 \times 10^3$	4.9	4.9	4.9	5

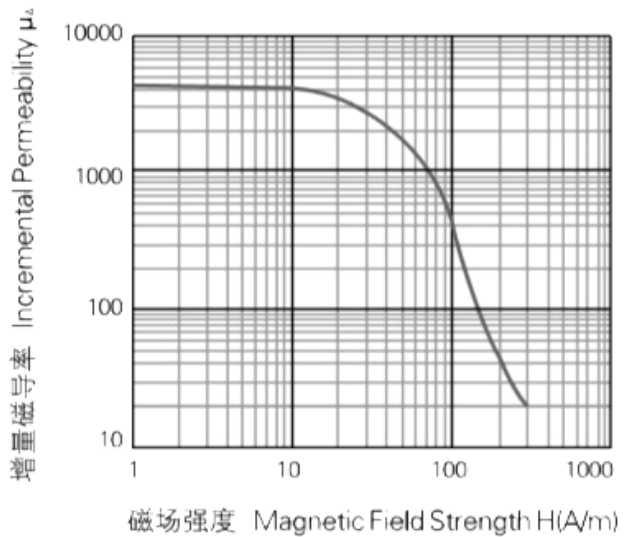
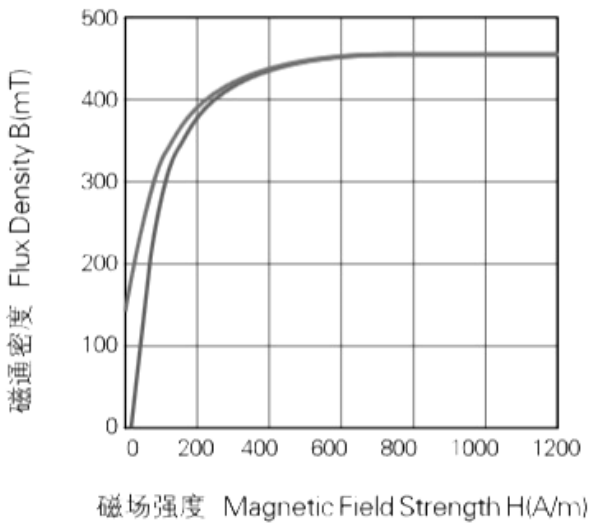
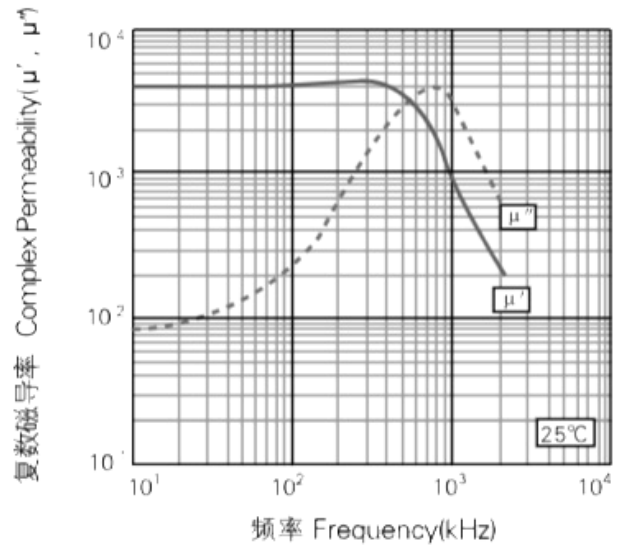
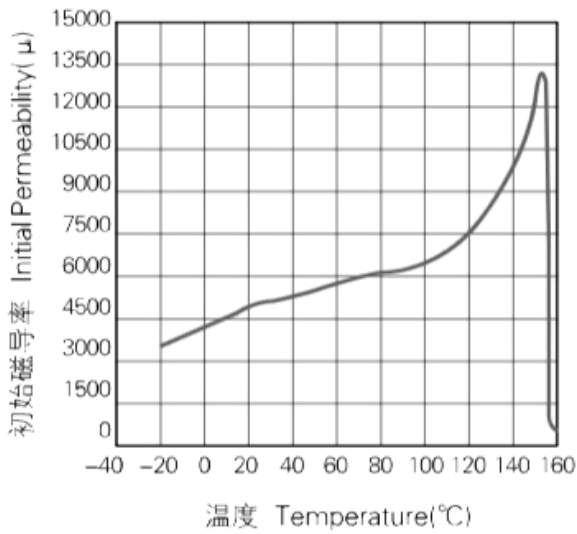
注：如无说明，各项数值均系用环型磁芯在室温下测得。

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

<DH31>

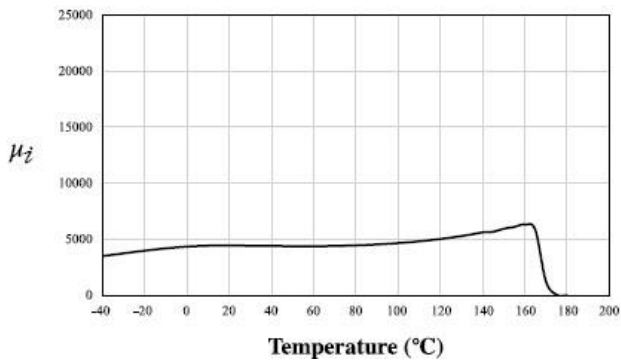


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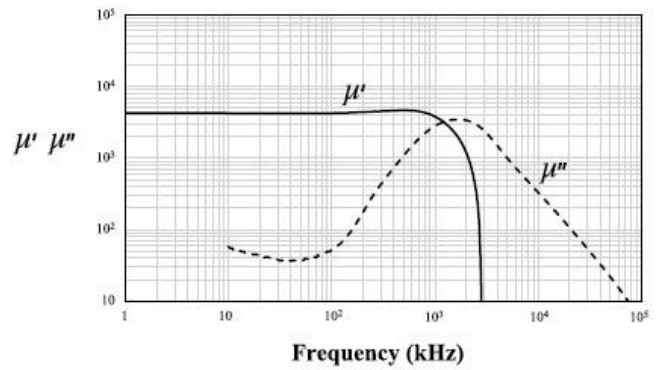


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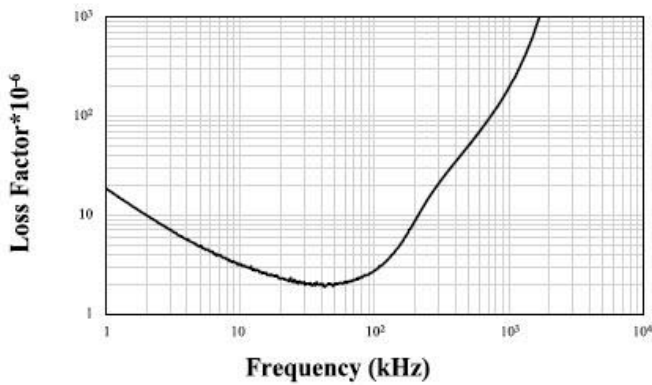
Initial Permeability V.S. Temperature



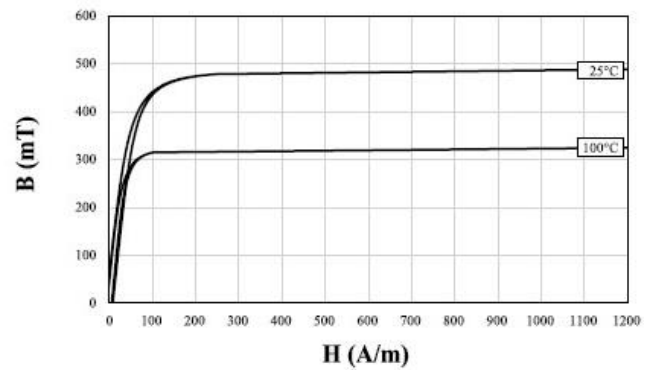
Complex Permeability V.S. Frequency



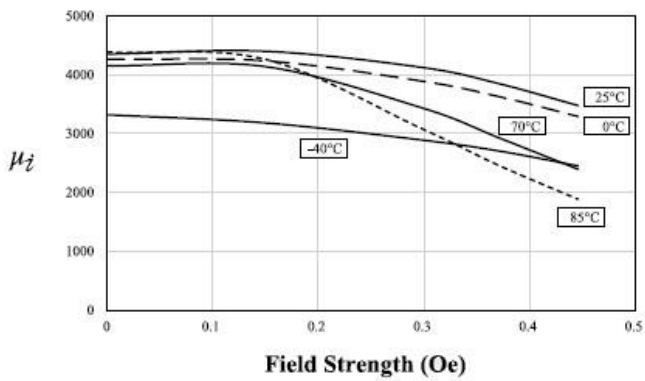
Loss Factor V.S. Frequency



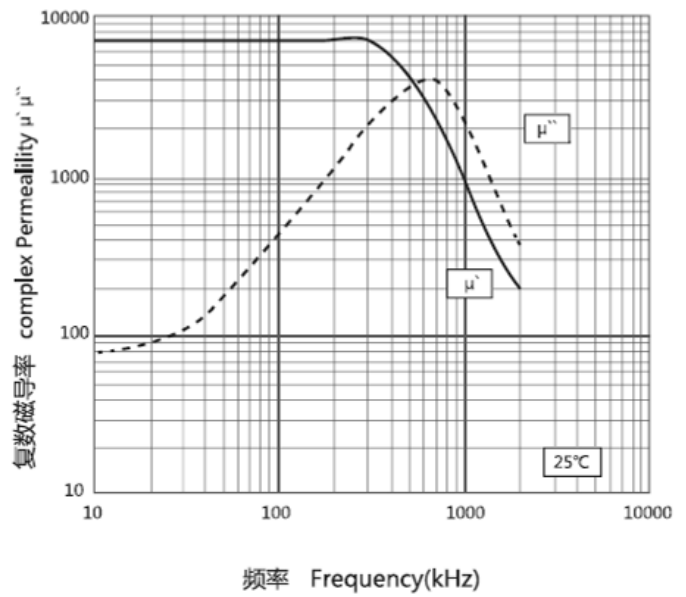
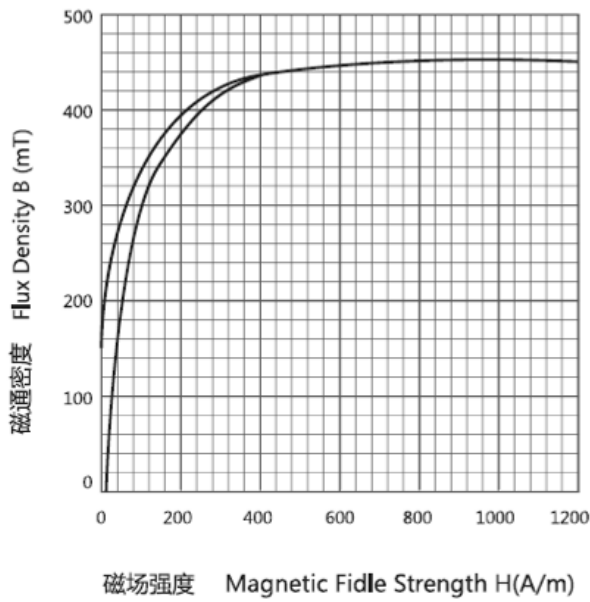
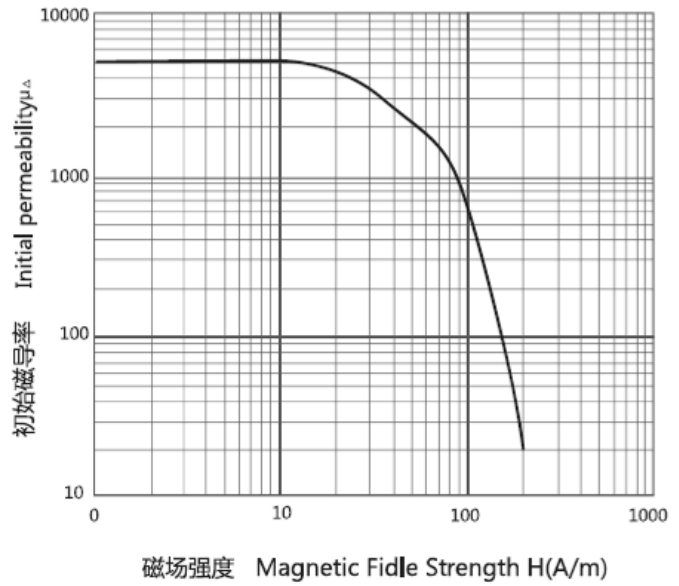
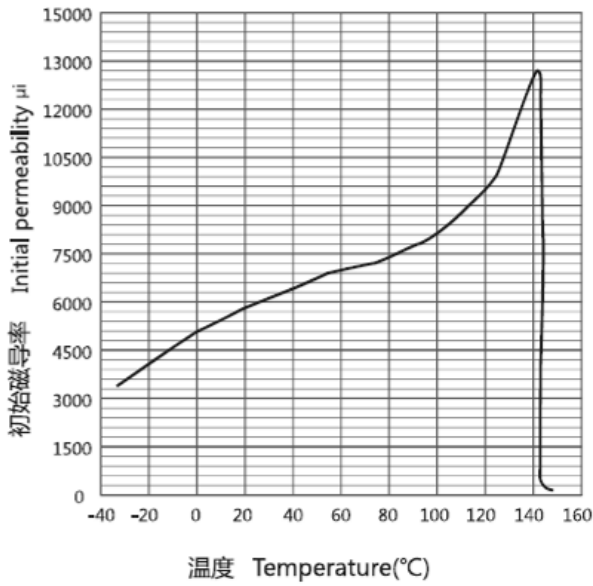
Saturation Flux Density V.S. Magnetic Field



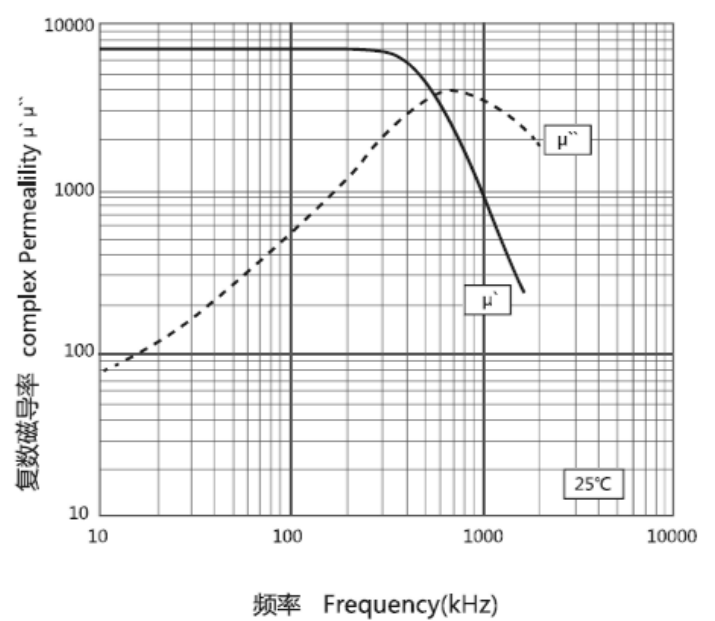
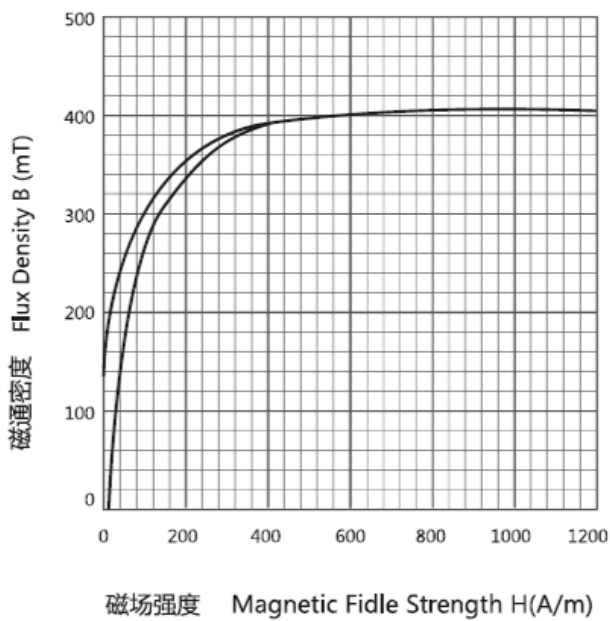
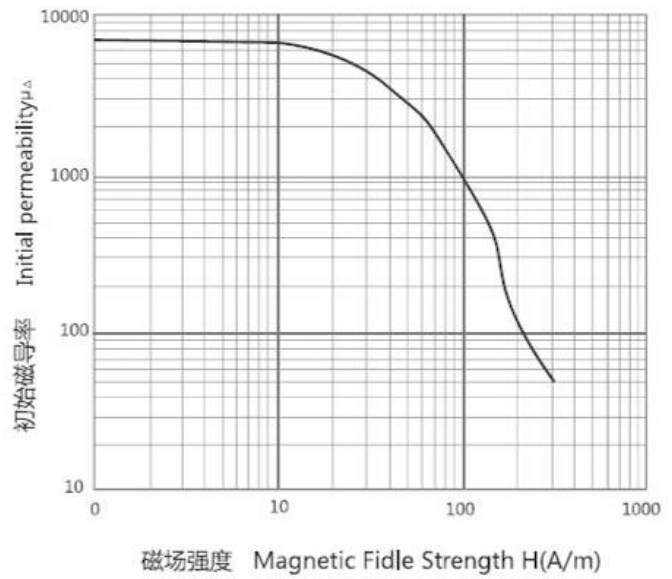
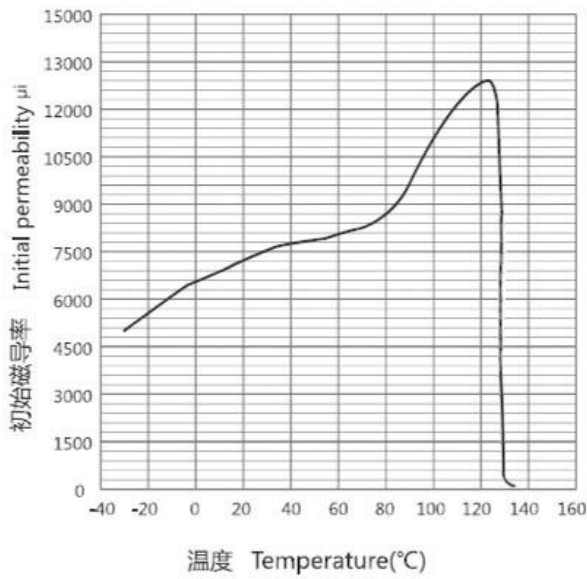
Initial Permeability V.S. Field Strength



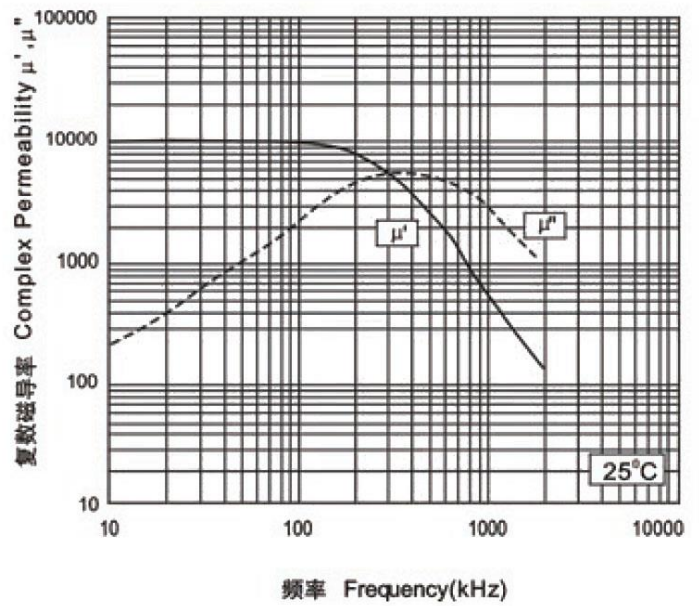
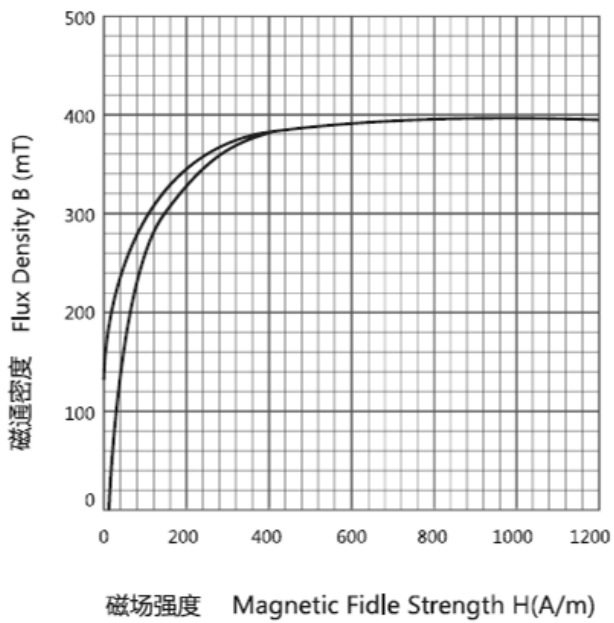
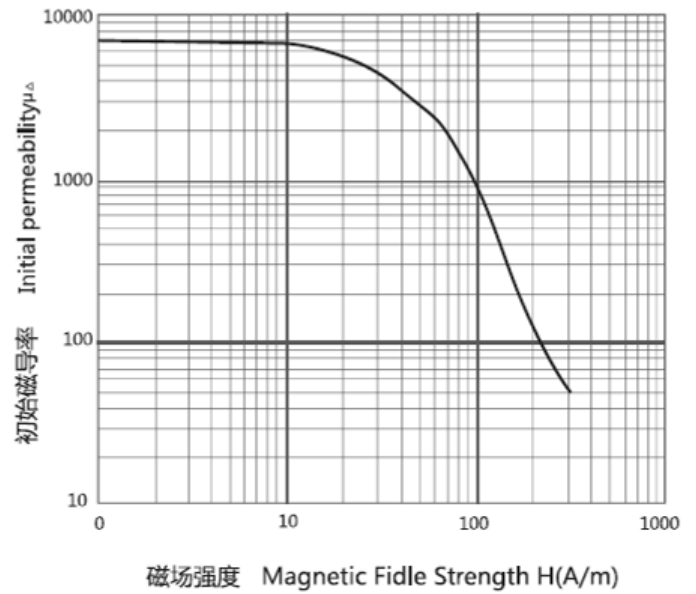
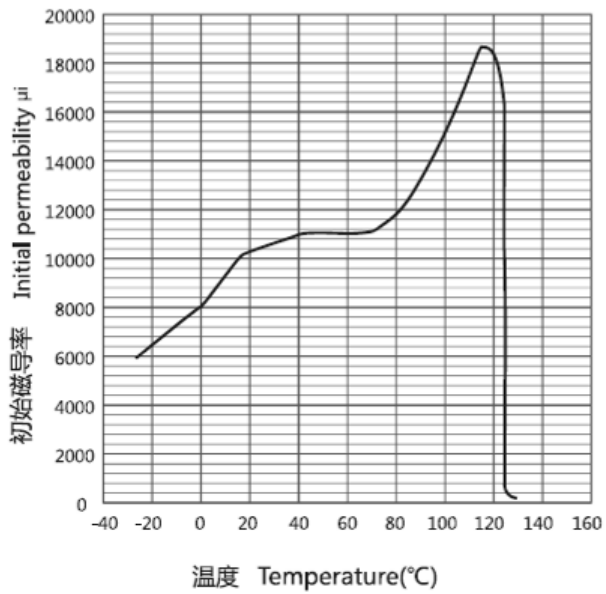
< DH05 >



<DH07>

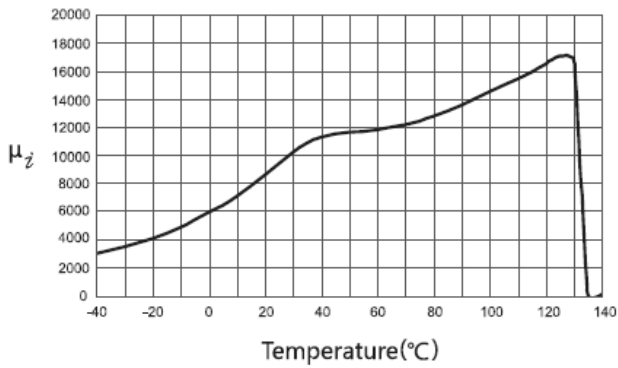


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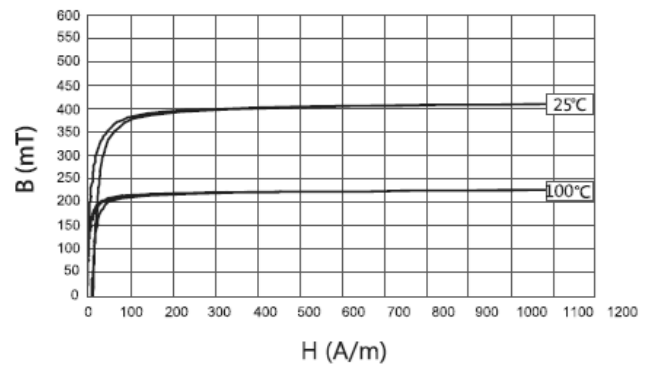


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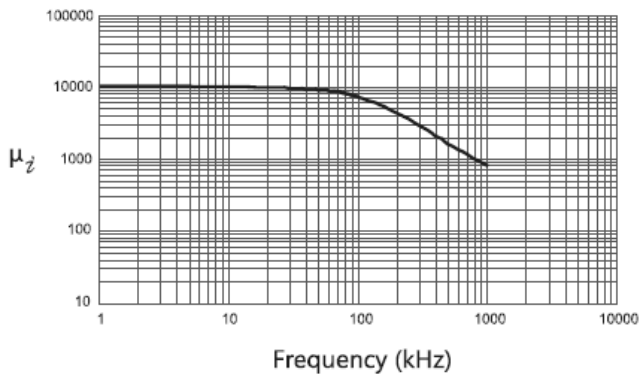
Initial Permeability V.S. Temperature



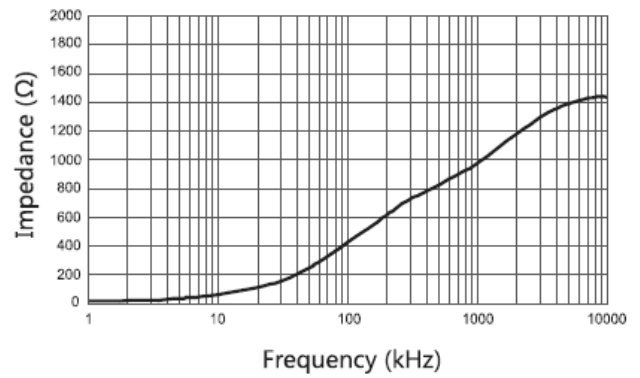
Saturation Flux Density V.S. Magnetic Field



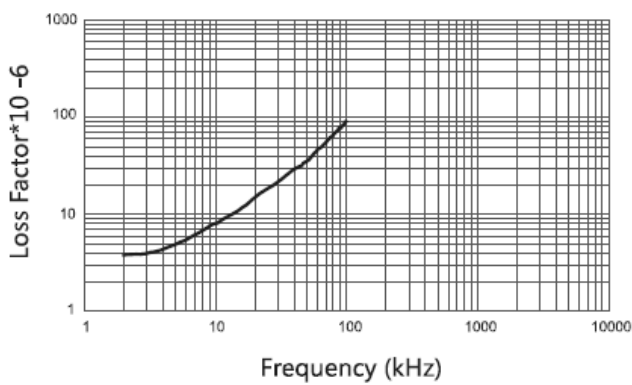
Initial Permeability V.S. Frequency



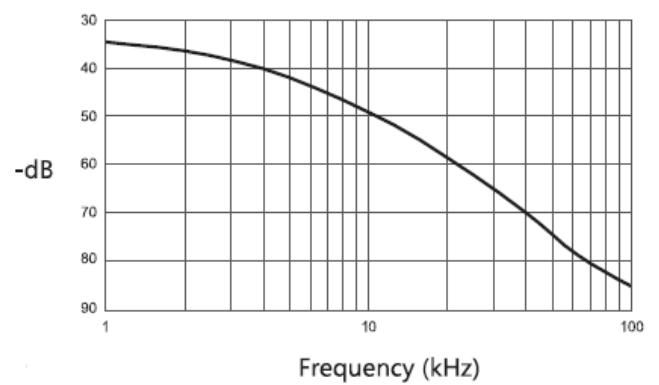
Impedance V.S. Frequency



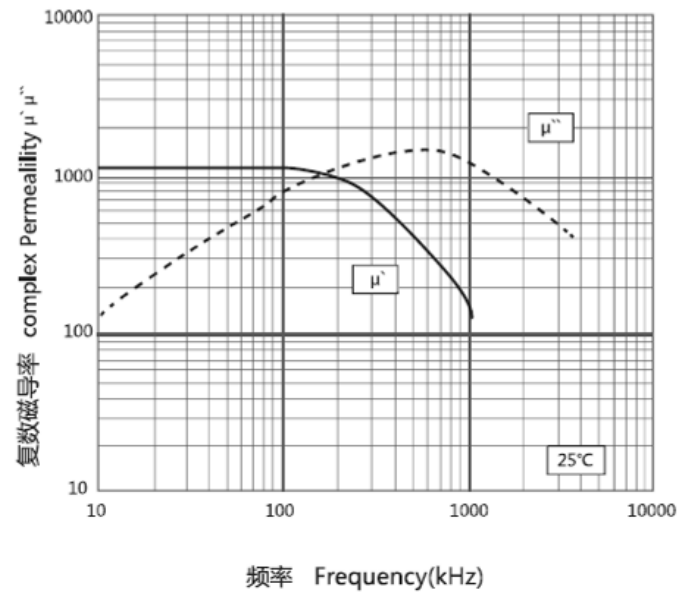
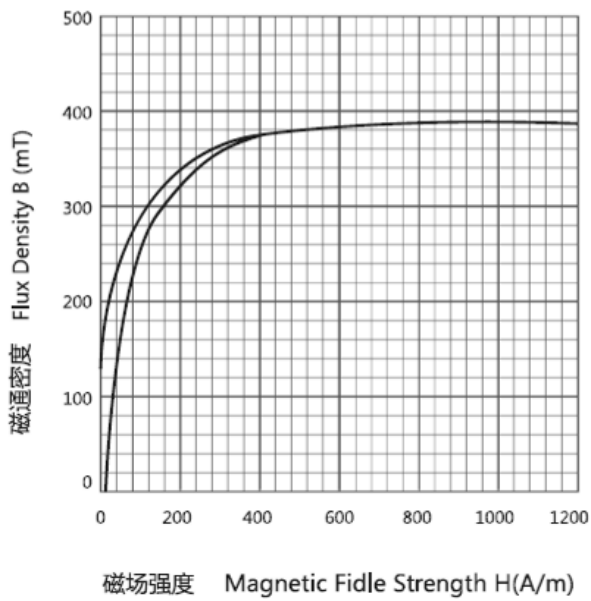
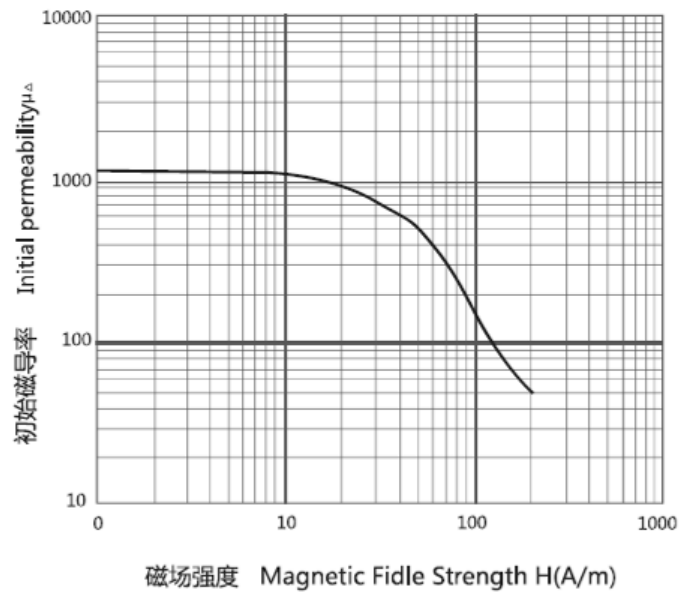
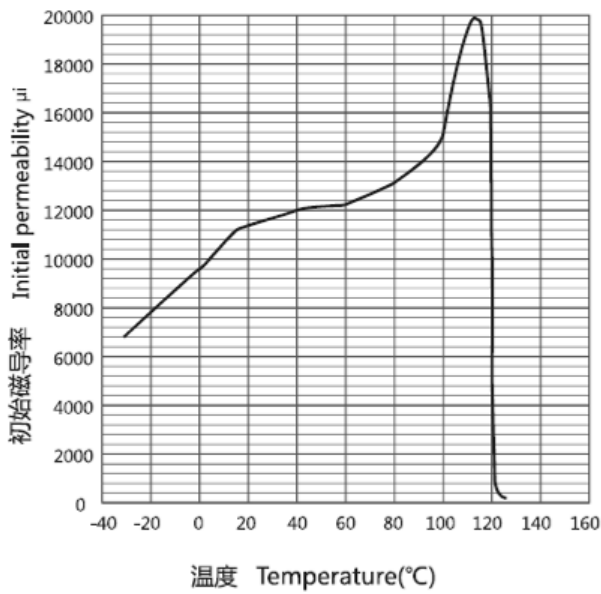
Loss Factor V.S. Frequency



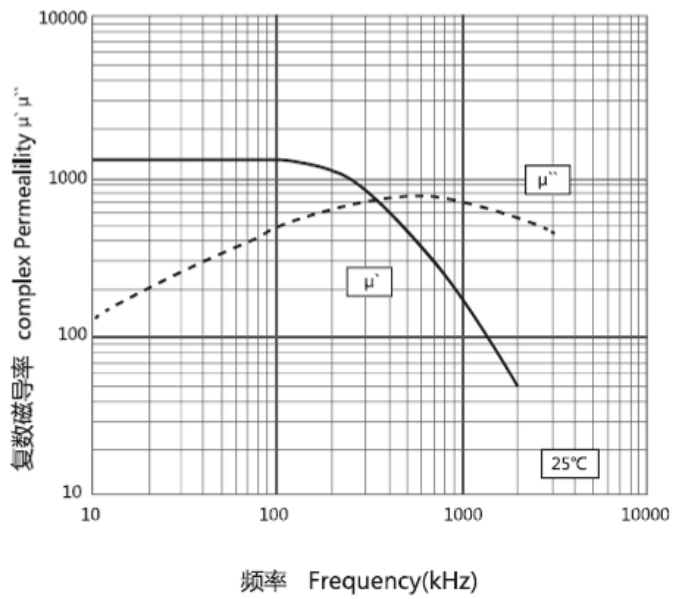
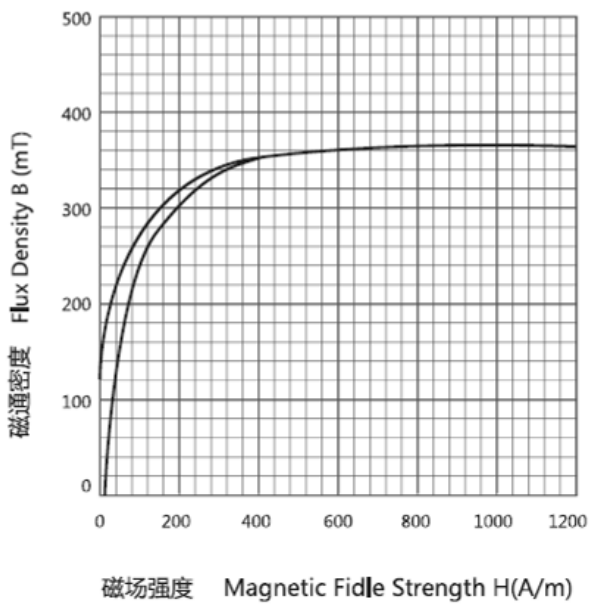
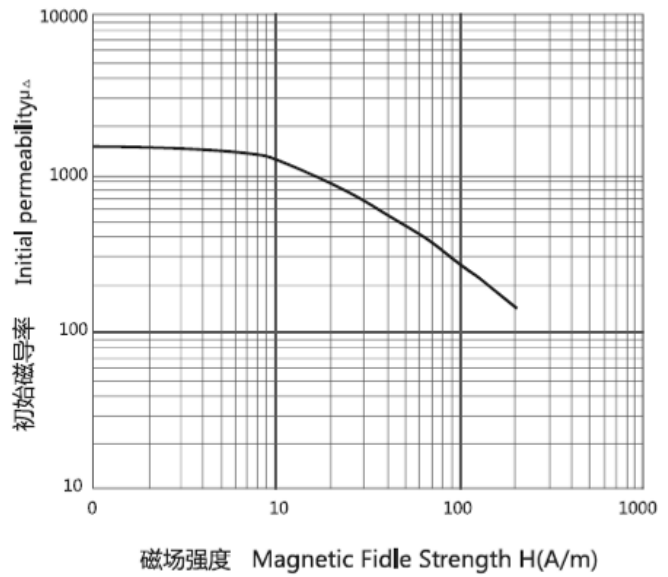
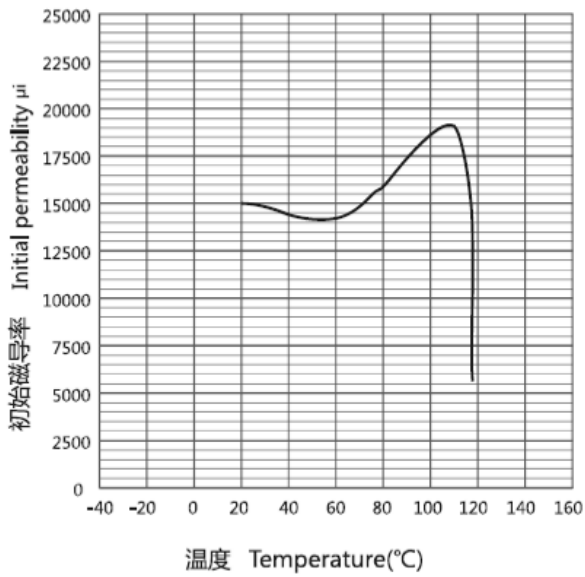
THD (Total harmonic distortion)



<DH12>



<DH15>



EER型磁芯 EER CORES

常规类型 EER 磁芯

特点:

绕线更加容易。

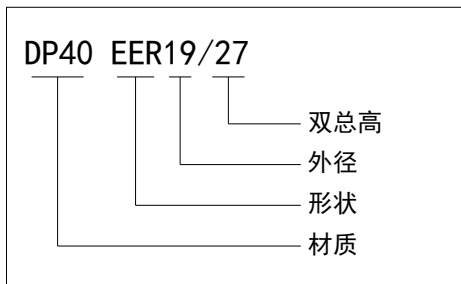
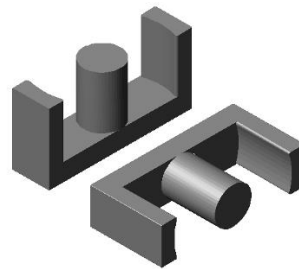
可绕线面积增大。

有对应于 ETD 的规格供选择。

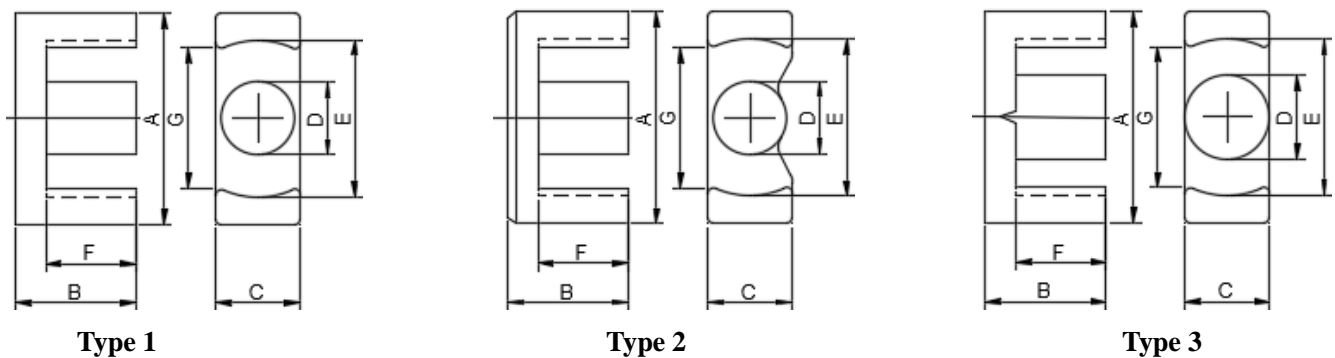
用途:

各种开关电源变压器，扼流圈等。

型号说明 (Naming of Core Models):



产品图例 (Shape Example):



品名	Type	尺寸(mm)						
		A	B	C	ΦD	ΦE	F	G
EER20/16	2	20.4±0.4	8.0±0.2	9.6±0.2	7.5±0.15	16.8±0.35	5.6±0.1	14.2min.
EER25/24	3	25.0±0.8	12.2±0.2	8.5±0.3	8.5±0.3	19.0min.	7.85±0.15	17.5min.
EER27.9/20.4	5	27.9±0.5	10.2±0.2	11.9±0.25	8.5±0.25	20.4min.	6.6±0.2	-
EER28/21	1	28.5±0.5	10.5±0.2	11.4±0.3	9.9±0.25	21.2min.	6.4±0.2	18.5min.
EER28/28	1	28.55±0.55	14.2±0.2	11.4±0.3	9.9±0.25	21.2min.	10.0±0.2	18.5min.
EER28/29	1	28.55±0.55	14.5±0.3	11.4±0.3	9.9±0.25	21.2min.	10.1±0.2	18.5min.
EER28/31.4G	1	28.55±0.55	15.7±0.3	11.4±0.3	9.9±0.25	21.2min.	11.3±0.3	19.5min.
EER28/34	1	28.5±0.5	16.9±0.3	11.4±0.3	9.9±0.25	21.2min.	12.6±0.3	18.5min.
EER28/35	1	28.5±0.5	17.5±0.4	11.4±0.3	9.9±0.25	22.0±0.4	13.1±0.4	18.5min.
EER29/17	2	28.8±0.5	8.7±0.2	12.0±0.25	9.9±0.2	21.0±0.4	5.5±0.15	21.0±0.4
EER29/28E	1	29.4±0.6	14.0±0.3	11.4±0.3	9.9±0.25	22.0min.	10.0±0.2	-
EER29/34E	1	29.4±0.6	17.2±0.2	11.4±0.3	9.9±0.25	22.0min.	12.8±0.2	-
EER29.3/29.2	5	29.3±0.5	14.6±0.2	11.8±0.3	8.35±0.2	22.2±0.5	11.0±0.2	-

EER型磁芯 EER CORES

Regular Type EER Core

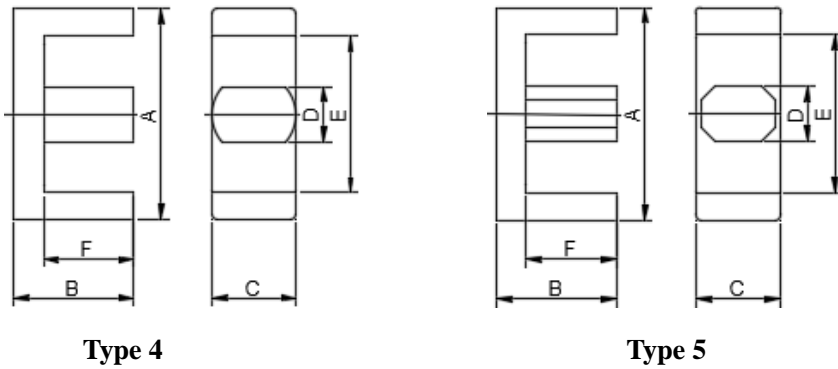
Characteristics:

- Easier for winding.
- Available area for winding is increased.
- ETD series is also available.

Usages:

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

产品图例 (Shape Example):



Type 4

Type 5

品名	磁芯参数				AL(nH/N ²)
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40
EER20/16	39.6	44.0	1761.3	8.8	2000
EER25/24	53.9	60.5	3266.2	17.1	2400
EER27.9/20.4	50.1	78.2	3919.2	21.6	3500
EER28/21	50.1	84.7	4244.4	25.1	4000
EER28/28	62.9	86.3	5430.0	27.8	3200
EER28/29	64.7	86.2	5587.8	28.8	3200
EER28/31.4G	70.6	80.5	5691.8	30.8	3000
EER28/34	74.3	85.6	6360.0	32.4	2700
EER28/35	77.0	84.3	6498.0	32.7	2700
EER29/17	45.5	79.7	3630.9	19.3	-
EER29/28E	63.7	86.7	5526.8	28.6	2700
EER29/34E	75.8	87.5	6643.3	34.0	2400
EER29.3/29.2	69.4	86.3	5998.9	29.6	3000

EER型磁芯 EER CORES

品名	Type	尺寸(mm)						
		A	B	C	ΦD	ΦE	F	G
EER30/20	3	30.0±0.5	10.1±0.2	9.5±0.3	9.5±0.3	22.9±0.5	6.1±0.2	-
EER33/33	4	33.0±0.5	16.65±0.2	12.8±0.3	10.5±0.3	23.4min.	12.0±0.15	-
EER34/35	3	34.2±0.8	17.3±0.2	10.8±0.3	10.8±0.3	26.3±0.7	12.1±0.3	-
EER35/35	3	34.8±0.6	17.3±0.3	10.8±0.3	10.8±0.3	26.3min.	12.25±0.2	24.6min.
EER35/43A	3	35.0±0.7	21.5±0.3	11.3±0.4	11.3±0.3	25.3min.	15.5±0.3	-
EER35.2/42	3	35.2±0.6	21.0±0.3	11.3±0.3	11.3±0.3	26.4min.	15.0±0.25	24.2min.
EER36/38	3	36.0±0.6	18.9±0.3	11.3±0.3	11.3±0.3	26.4min.	12.9±0.3	-
EER36/43	3	36.0±0.6	21.4±0.2	11.3±0.3	11.3±0.3	26.4min.	15.4±0.3	-
EER40/45	3	40.0±0.7	22.4±0.3	13.3±0.3	13.3±0.3	28.8min.	16.0±0.3	-
EER42/45	3	42.0±0.8	22.5±0.3	14.9±0.3	14.9±0.3	30.7min.	15.5±0.3	27.8min.
EER44/45	1	44.0±1.0	22.3±0.2	14.9±0.5	14.8±0.4	33.2±0.7	16.5±0.4	-
EER49/50	3	49.0±0.7	25.4±0.3	16.3±0.3	16.3±0.3	36.4min.	18.6±0.3	-
EER49/53W	3	49.45±0.75	26.5±0.3	17.2±0.4	17.2±0.3	37.3min.	18.5±0.2	-
EER53/46	1	53.4±0.7	23.2±0.3	21.5±0.3	20.0±0.3	38.7min.	16.3±0.3	-
EER54/55	3	54.2±0.7	27.6±0.2	18.9±0.3	18.9±0.3	41.0min.	20.2±0.4	-

*E E R*型磁芯 *E E R* CORES

品名	磁芯参数				AL(nH/N ²)
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40
EER30/20	50.6	73.6	3730.7	19.0	-
EER33/33	76.3	120.0	9156.0	45.0	3600
EER34/35	79.0	97.0	7670.0	38.0	2700
EER35/35	79.8	98.7	7885.1	38.8	2900
EER35/43A	90.8	107.0	9716.0	52.0	2900
EER35.2/42	94.6	110.9	10502.3	53.3	2600
EER36/38	83.5	113.3	9467.2	49.6	3300
EER36/43	93.7	111.3	10436.8	56.5	3000
EER40/45	99.3	149.2	14835.4	74.8	3900
EER42/45	99.2	181.3	18001.4	47.2	4200
EER44/45	103.9	174.2	18030.3	89.5	4200
EER49/50	115.7	210.1	24315.9	117.6	4400
EER49/53W	116.5	239.6	27882.7	143.5	-
EER53/46	108.0	318.5	34418.3	172.2	6500
EER54/55	127.5	273.9	34935.4	178.1	5000

EER平面型磁芯 EER CORES (Planar)

平面型 EER 磁芯

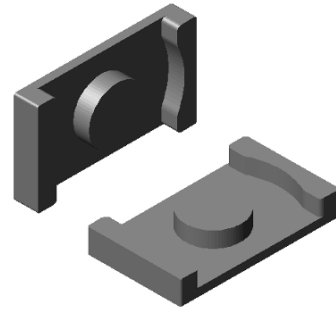
特点:

适合于变压器的平面化。

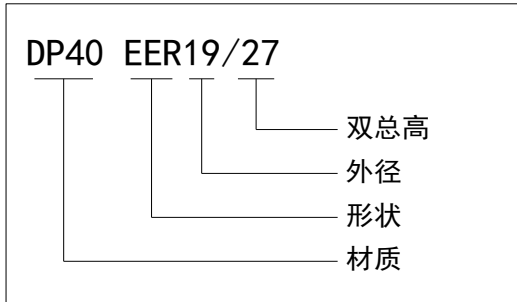
根据客户要求可提供各种各样磁芯规格。

用途:

DC-DC 转换器 (平面型变压器)。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)						
		A	B	C	ΦD	ΦE	F	G
EER19.8/8.6	1	19.8±0.4	4.3±0.15	14.3±0.3	6.9±0.15	16.4min.	2.8±0.2	13.2min.
EER25/06	3	24.9±0.4	3.15±0.1	18.3±0.3	8.8±0.15	21.4±0.4	1.375±0.15	-
EER27/13.4	1	27.0±0.5	6.7±0.15	18.2±0.3	11.0±0.2	22.8±0.4	4.2±0.15	19.7±0.5
EER28/16W	1	28.0±0.5	8.3±0.3	20.0±0.3	11.2±0.2	24.5±0.5	5.8±0.2	20.5±0.5
EER28.5/18W	1	28.5±0.3	9.0±0.2	19.2±0.3	12.4±0.5	24.1min.	6.25±0.2	18.2min.
EER32/12	1	31.5±0.5	6.1±0.15	20.3±0.3	13.3±0.2	26.5min.	3.6±0.15	22.0min.
EER32/13	1	31.5±0.5	6.55±0.15	20.3±0.3	13.3±0.2	26.5min.	3.6±0.15	22.0min.
EER32/13C	1	31.5±0.5	6.4±0.15	20.3±0.3	13.3±0.2	26.5min.	3.45±0.15	22.0min.
EER32/13D	1	31.5±0.5	6.4±0.2	20.3±0.4	13.3±0.3	26.9±0.5	3.8±0.15	22.0min.
EER32/14	1	31.5±0.5	6.75±0.2	20.3±0.3	13.3±0.2	26.5min.	3.8±0.15	22.0min.
EER32/15	1	31.8±0.6	7.5±0.15	20.4±0.4	13.4±0.3	25.8min.	4.5±0.15	21.7min.
EER33/15	2	32.6±0.5	7.3±0.2	16.4±0.3	12.6±0.2	28.2±0.5	4.3±0.2	24.6±0.5
EER34/13E	1	34.0±0.5	6.75±0.15	25.0±0.3	14.6±0.2	29.3min.	3.75±0.15	25.5min.
EER38/13	1	38.0±0.5	6.5±0.2	28.0±0.3	16.3±0.2	33.3±0.5	3.7±0.15	28.0±0.5
EER40/13E	1	40.0±0.5	6.5±0.2	28.4±0.35	14.0±0.25	36.2±0.5	3.8±0.15	29.2±0.5

E E R 平面型磁芯 E E R CORES (Planar)

Planar Type EER Core

Characteristics:

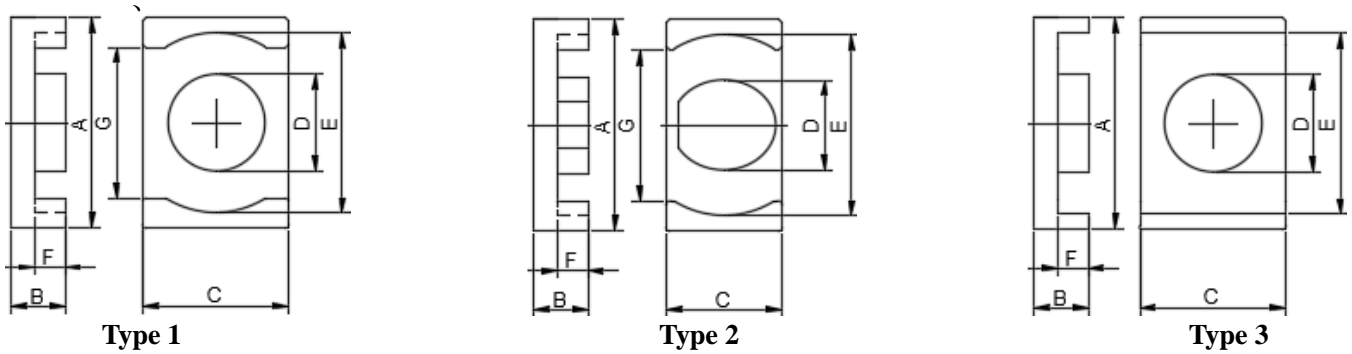
Suitable for making planar transformer.

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

Usages:

DC-DC converter (planar type transformer)

产品图例 (Shape Example) :



品名	磁芯参数				AL(nH/N ²)	
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
EER19.8/8.6	28.2	40.6	1148.6	6.2	-	3500
EER25/06	16.0	29.4	473.2	9.0	4300	5200
EER27/13.4	39.8	95.2	3796.2	22.0	4500	-
EER28/16W	43.2	106.6	4616.7	22.8	5000	-
EER28.5/18W	49.6	115.7	5745.1	29.6	5200	-
EER32/12	57.0	119.3	6872.1	24.2	5000	-
EER32/13	41.8	129.6	5430.9	27.3	6300	-
EER32/13C	41.9	126.5	5300.7	27.3	6300	-
EER32/13D	42.2	122.0	5151.7	27.3	6300	-
EER32/14	42.6	128.3	5476.2	27.8	7000	-
EER32/15	46.7	130.0	6104.0	29.8	7000	-
EER33/15	43.1	104.6	4522.2	23.5	5000	-
EER34/13E	46.6	148.8	6942.7	34.3	8500	-
EER38/13	48.0	175.5	8436.1	42.5	7300	-
EER40/13E	51.4	159.5	8212.5	46.6	8300	-

OT 型磁芯 OT CORES

OT 磁芯

特点:

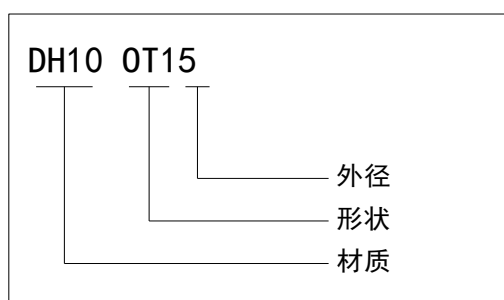
体积小, 效率高, 工作频率范围广。

可以适应自动绕线机操作。

用途:

线性滤波器, 脉冲变压器, 扼流圈等。

型号说明 (Naming of Core Models):



品名	尺寸(mm)							
	A	B	C	D	E	F	G	H
OT15	15.0±0.4	9.5±0.3	7.5±0.3	10.75min.	4.4±0.3	3.1min.	4.25±0.2	2.0±0.3

OT 型磁芯 OT CORES

OT Core

Characteristics:

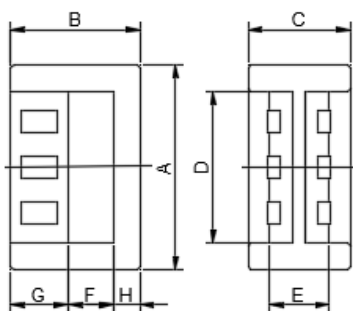
Small size, high efficiency, wide frequency range.

It can adapt to the operation of automatic winding machine.

Usages:

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

产品图例 (Shape Example) :



品名	磁芯参数				AL(nH/N ²)
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W (g/pcs)	DH10
OT15	35.6	14.9	536.0	3.1	5000

EIR 型磁芯 EIR CORES

EIR 磁芯

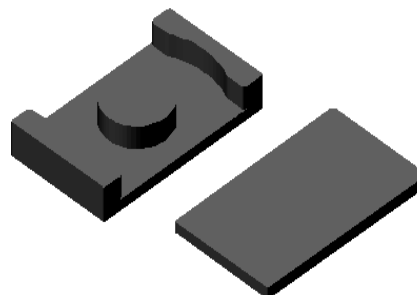
特点:

适合于变压器的平面化。

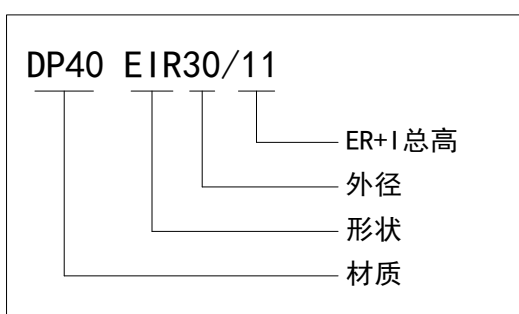
根据客户要求可提供各种各样磁芯规格。

用途:

DC-DC 转换器（平面型变压器）。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)									
		A	B	C	ΦD	ΦE	F	G	A1	C1	I
EIR12.4/4.9	2	12.4±0.2	3.45±0.1	9.2±0.2	5.8±0.15	10.0±0.2	2.0±0.15	8.2±0.2	12.4±0.2	9.2±0.2	1.45±0.1
EIR14/4.5	3	13.85±0.3	3.2±0.1	9.0±0.2	5.2±0.15	11.35±0.2	1.9±0.15	-	14.0±0.2	9.2±0.2	1.3±0.1
EIR32/13	1	31.5±0.5	9.75±0.15	20.3±0.3	13.3±0.2	26.5min.	6.4±0.15	22.0min.	31.5±0.4	20.3±0.3	3.35±0.15
EIR32/13B	1	31.5±0.5	9.9±0.15	20.3±0.3	13.3±0.2	26.5min.	6.9±0.15	22.0min.	31.5±0.4	20.3±0.3	3.35±0.15
EIR36/13	4	35.5±0.5	9.75±0.15	24.0±0.3	15.0±0.2	30.6±0.5	6.4±0.15	22.55±0.45	35.5±0.5	24.0±0.3	3.35±0.15

EIR 型磁芯 EIR CORES

EIR Core

Characteristics:

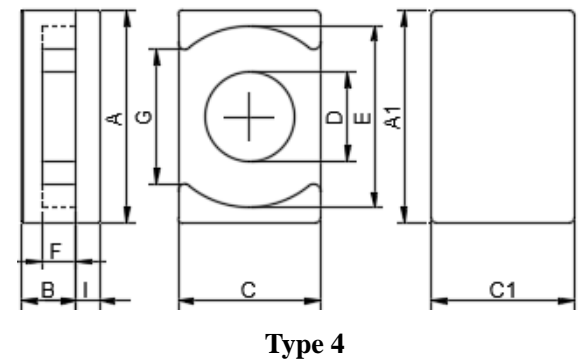
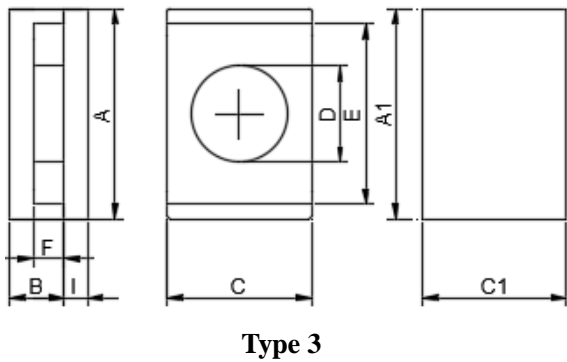
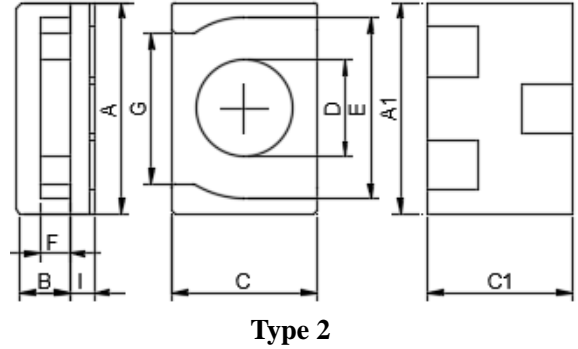
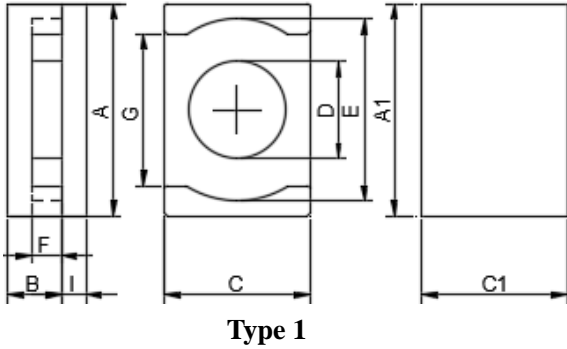
Suitable for making planar transformer.

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

Usages:

DC-DC converter (planar type transformer)

产品图例 (Shape Example) :



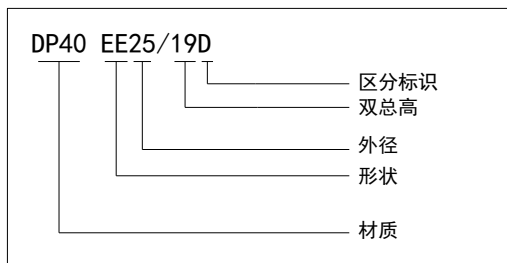
品名	磁芯参数				AL(nH/N ²)
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40
EIR12.4/4.9	10.9	20.5	225.3	2.4	-
EIR14/4.5	13.7	24.2	333.5	2.0	2800
EIR32/13	41.4	136.9	5671.7	28.4	7600
EIR32/13B	41.3	129.3	5348.9	27.5	7600
EIR36/13	43.1	170.6	7366.7	39.5	7000

常规类型 EE 磁芯

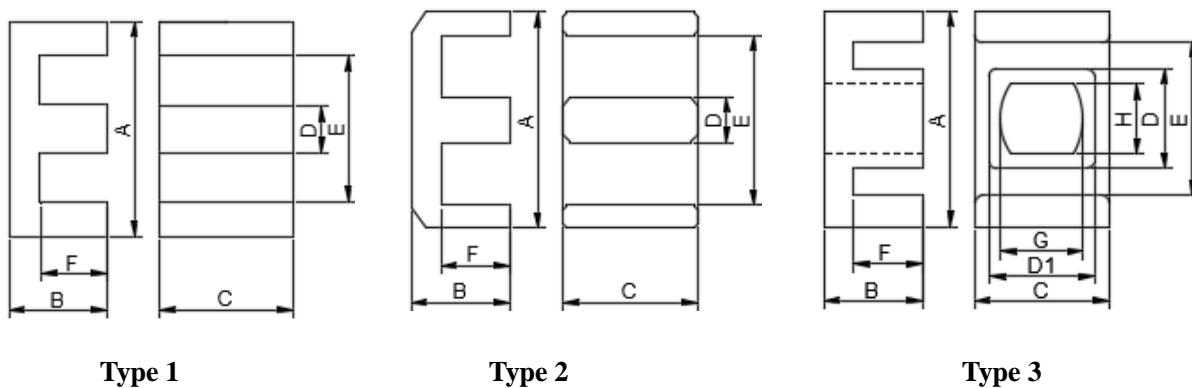
特点：根据客户需要可提供各种各样磁芯规格。

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 (Naming of Core Models):



产品图例(Shape example):



品名	Type	尺寸(mm)								
		A	B	C	D	E	F	G	H	D1
EE6.2/4.5	1	6.2±0.15	2.25±0.05	1.4±0.1	1.4±0.1	4.8±0.15	1.55±0.08	-	-	-
EE9/21.4	1	8.95±0.25	10.7±0.1	5.8±0.2	2.35±0.1	6.65±0.15	8.7±0.1	-	-	-
EE10/20	6	10.0±0.2	10.0±0.2	8.0±0.2	2.8±0.2	7.0±0.2	7.5±0.25	-	-	5.8±0.2
EE10.2/11	1	10.2±0.2	5.5±0.1	4.85±0.15	2.4±0.2	7.8±0.2	4.3±0.1	-	-	-
EE13/12	1	13.0±0.3	6.0±0.15	6.15±0.15	2.75±0.15	10.0min.	4.6±0.1	-	-	-
EE13/13L	1	13.6±0.3	6.7±0.15	6.0±0.2	3.0±0.15	10.6±0.3	5.2±0.15	-	-	-
EE13.4/11.5	1	13.4±0.3	5.75±0.15	6.5±0.2	3.8±0.15	10.2±0.3	4.25±0.15	-	-	-
EE13.6/22	3	13.6±0.2	11.0±0.2	10.3±0.2	6.7±0.2	10.6±0.2	8.0±0.2	-	3.15±0.2	7.9±0.2
EE14/20A	3	14.0±0.2	10.0±0.2	10.0±0.2	7.4±0.2	11.4±0.2	7.5±0.2	6.1±0.2	5.2±0.2	7.8±0.2
EE14.2/21	4	14.2±0.2	10.5±0.05	11.5±0.2	6.8±0.2	-	8.0±0.1	-	4.76ref.	-
EE15/9	2	15.0±0.3	4.5±0.15	24.8±0.4	3.25±0.2	11.8±0.35	2.75±0.12	-	-	-
EE16/10	1	16.0±0.3	4.8±0.2	9.0±0.2	3.95±0.2	11.7min.	2.725±0.125	-	-	-
EE16/14	1	16.0±0.3	7.2±0.15	4.8±0.2	3.95±0.2	11.5min.	5.15±0.15	-	-	-
EE16/14L	1	16.0±0.3	7.3±0.2	4.8±0.2	3.95±0.2	11.7min.	5.225±0.175	-	-	-
EE16/16	1	16.1±0.4	8.1±0.15	8.15±0.25	4.55±0.2	11.3min.	5.85±0.2	-	-	-

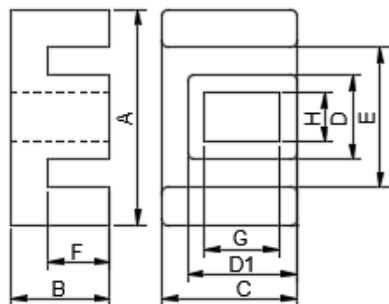
EE 型磁芯 EE CORES

Regular Type EE Core

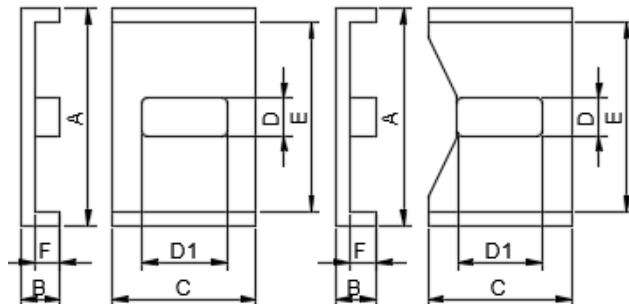
Characteristics: Varieties of core types are available according to customers' needs.

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

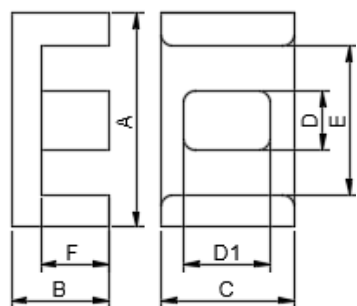
产品图例(Shape example):



Type 4



Type 5



Type 6

品名	磁芯参数				AL(nH/N ²)	
	Le (mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
EE6.2/4.5	11.3	1.9	21.7	0.2	-	3200
EE9/21.4	43.0	14.1	610.6	3.2	850	-
EE10/20	34.8	28.5	993.9	3.8	1200	-
EE10.2/11	26.3	11.6	306.9	1.5	900	1250
EE13/12	30.0	17.4	525.9	2.6	1100	1400
EE13/13L	33.1	16.9	561.6	7.3	1250	-
EE13.4/11.5	27.9	21.0	585.9	3.1	1600	-
EE13.6/22	38.7	40.3	1562.4	8.4	1200	-
EE14/20A	34.8	36.7	1280.2	12.6	1550	2100
EE14.2/21	58.8	24.7	1460.0	8.0	1700	2300
EE15/9	24.7	82.8	2054.1	10.5	-	-
EE16/10	25.3	36.2	919.3	4.7	2700	-
EE16/14	35.1	19.2	674.0	3.4	1200	1600
EE16/14L	35.1	19.8	695.8	3.5	1300	-
EE16/16	37.8	36.0	1366.3	6.6	2400	-

EE 型磁芯 EE CORES

品名	Type	尺寸(mm)								
		A	B	C	D	E	F	G	H	D1
EE16.3/13.7	1	16.3±0.3	6.85±0.1	6.3±0.2	2.7±0.2	9.65±0.25	3.95±0.12	-	-	-
EE16.6/13	1	16.6±0.3	6.5±0.15	9.0±0.2	3.0±0.2	10.2±0.3	4.3±0.15	-	-	-
EE17/16	1	17.0±0.3	8.225±0.075	4.55±0.2	4.55±0.2	12.6min.	6.1±0.1	-	-	-
EE17/17	1	17.1±0.3	8.35±0.15	4.8±0.2	4.8±0.2	12.0min.	6.0±0.2	-	-	-
EE17/25	1	16.9±0.5	12.4±0.3	4.85±0.25	4.0±0.3	11.8min.	10.35±0.25	-	-	-
EE18/15	1	18.3±0.4	7.8±0.25	6.0±0.2	5.5±0.2	12.3min.	4.45±0.2	-	-	-
EE19/16C	1	19.1±0.3	8.1±0.15	4.8±0.2	4.55±0.2	14.3min.	6.0±0.2	-	-	-
EE20/20	1	20.0±0.3	10.15±0.25	9.2±0.2	4.5±0.2	15.2min.	7.9±0.2	-	-	-
EE20/20A	1	20.0±0.4	9.9±0.2	5.65±0.25	5.7±0.2	14.1min.	7.2±0.2	-	-	-
EE20/27	1	20.0±0.3	13.7±0.25	4.05±0.2	4.55±0.2	14.7±0.2	11.15±0.15	-	-	-
EE20/27H	1	20.0±0.3	13.7±0.25	5.0±0.2	4.55±0.2	14.3min.	11.15±0.15	-	-	-
EE20.2/24.2	1	20.2±0.3	12.1±0.2	13.0±0.25	3.0±0.2	10.65±0.35	8.4±0.2	-	-	-
EE20.7/20.4	1	20.7±0.4	10.2±0.2	7.7±0.2	7.56±0.2	12.95min.	6.4±0.2	-	-	-
EE21/9	1	21.2±0.3	4.7±0.1	16.0±0.3	6.0±0.2	16.2±0.3	2.4±0.1	-	-	-
EE22/19	1	22.4±0.5	9.65±0.2	8.6±0.25	5.75±0.25	16.5±0.5	5.8±0.2	-	-	-
EE25/19Z	1	25.4±0.4	9.53±0.25	6.35±0.25	6.35±0.25	18.7min.	6.38±0.17	-	-	-
EE25/20B	1	25.3±0.4	9.95±0.2	6.6±0.25	6.4±0.2	19.0min.	6.75±0.15	-	-	-
EE25/25B	1	25.05±0.75	12.55±0.25	7.2±0.3	7.25±0.25	17.5min.	8.95±0.25	-	-	-
EE25/25H	1	25.05±0.75	12.55±0.25	8.7±0.3	7.25±0.25	17.5min.	8.95±0.25	-	-	-
EE25.3/25.6	1	25.3±0.5	12.8±0.25	14.7±0.3	7.25±0.25	18.3±0.3	9.2±0.25	-	-	-
EE25/25D	1	25.05±0.75	12.55±0.25	11.0±0.2	7.25±0.25	17.5min.	8.95±0.25	-	-	-
EE25.5/20	1	25.5±0.5	9.8max	25.0±0.35	6.3±0.25	18.7min.	6.575±0.175	-	-	-
EE28/20	1	28.0±0.5	10.4±0.3	10.7±0.3	7.2±0.3	18.6min.	6.4±0.3	-	-	-
EE28/20H	1	28.1±0.4	10.4±0.2	14.6±0.2	7.8±0.25	19.2min.	6.2±0.2	-	-	-
EE41/35	1	40.6±0.6	16.8±0.2	12.5±0.3	12.5±0.3	28.6min.	10.8±0.3	-	-	-
EE42.5/13.5	1	42.5±0.6	6.75±0.15	16.5±0.35	4.8±0.25	37.0min.	4.45±0.2	-	-	-
EE42/42-15W	1	42.15±0.85	21.0±0.2	14.95±0.4	11.85±0.35	30.1±0.6	15.15±0.35	-	-	-
EE42/42-20W	1	42.15±0.85	21.0±0.2	19.6±0.4	11.85±0.35	30.1±0.6	15.15±0.35	-	-	-
EE42/30	1	42.0±0.85	15.2±0.3	20.0±0.3	11.95±0.3	29.5min.	9.1±0.3	-	-	-
EE42/50	1	42.0±0.7	25.0±0.25	15.0±0.3	11.95±0.3	30.1±0.6	19.0±0.2	-	-	-
EE50/13	1	50.0±0.7	6.7±0.2	20.0±0.3	7.0±0.25	42.6±0.6	4.2±0.2	-	-	-
EE51/20(V)	5	51.0±0.7	9.8±0.2	34.0±0.5	8.75±0.25	44.8±0.6	6.6±0.25	-	-	20.05±0.3
EE55/55A	1	55.05±0.95	27.5±0.3	20.7±0.3	16.95±0.25	38.1±0.6	18.9±0.4	-	-	-
EE55/55B	1	55.15±1.05	27.5±0.3	24.6±0.4	16.95±0.25	38.1±0.6	18.9±0.4	-	-	-
EE72/66	1	72.5±1.5	33.0±0.25	26.0±0.5	21.6±0.5	50.8±0.82	22.3±0.25	-	-	-
EE85/86.8	1	85.0±2.0	43.4±0.4	31.5±0.5	26.5±0.5	56.0min.	30.5±0.5	-	-	-
EE130/130	1	130.0±2.0	65.0±0.5	40.0±1.0	39.0±0.6	91.0±2.0	45.0±0.5	-	-	-
EE320/410	1	320±3.0	210.25±1.75	159.5±1.5	80.0±2.0	-	170.25±1.25	-	-	-
EE320/470	1	320±3.0	235.25±1.75	199.5±1.5	80.0±2.0	-	195.25±1.25	-	-	-

EE 型磁芯 EE CORES

品名	磁芯参数				AL(nH/N ²)	
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
EE16.3/13.7	26.5	24.3	646.9	5.2	-	-
EE16.6/13	29.0	35.2	1022.7	6.6	2500	-
EE17/16	39.4	19.5	768.8	3.8	1200	-
EE17/17	38.7	23.3	901.7	5.1	1250	-
EE17/25	55.1	19.0	1048.0	5.2	850	1000
EE18/15	33.2	35.1	1170.5	6.2	2300	-
EE19/16C	40.8	21.1	864.7	4.4	1200	1700
EE20/20	27.9	41.4	2058.0	10.2	-	-
EE20/20A	46.0	32.0	1490.0	7.5	1550	2000
EE20/27	62.3	20.1	1257.1	6.4	850	-
EE20/27H	61.0	25.0	1553.0	7.4	850	1100
EE20.2/24.2	40.4	53.4	2161.3	23.8	-	-
EE20.7/20.4	43.2	57.3	2482.7	12.9	2800	-
EE21/9	27.5	80.3	2208.8	11.6	5800	-
EE22/19	42.5	37.0	1570.0	8.3	2800	3000
EE25/19Z	48.1	40.2	1940.0	10.3	1800	-
EE25/20B	49.8	41.3	2060.0	10.3	1850	2500
EE25/25B	57.7	51.7	2990.0	15.0	2100	2800
EE25/25H	57.8	62.1	3592.3	18.1	2600	-
EE25.3/25.6	59.0	105.0	6204.0	31.5	4300	5500
EE25/25D	57.5	80.7	4643.7	22.8	2500	-
EE25.5/20	49.0	158.7	7787.7	40.5	-	-
EE28/20	50.5	83.0	4192.3	21.4	4000	-
EE28/20H	48.7	116.3	5669.2	29.0	5000	-
EE41/35	78.5	150.2	11792.0	65.6	3965	-
EE42.5/13.5	57.9	77.3	4484.8	22.4	2900	3200
EE42/42-15W	97.8	180.0	17600.0	87.0	4600	-
EE42/42-20W	97.8	236.0	23000.0	118.0	5800	7700
EE42/30	73.2	241.2	17615.0	90.1	7600	-
EE42/50	113.0	179.0	20227.0	101.6	-	-
EE50/13	60.5	109.9	6659.4	35.6	-	6000
EE51/20(V)	68.2	214.0	14600.0	74.3	6300	-
EE55/55A	124.0	353.6	43700.0	218.0	6900	-
EE55/55B	124.0	420.8	52190.3	259.0	8650	10000
EE72/66	152.6	550.4	84003.8	427.7	8000	-
EE85/86.8	193.9	845.7	164004.8	408.0	10500	-
EE130/130	294.0	1570.9	461900.8	2300.0	-	-
EE320/410	965.0	12800.0	12360500.0	82300.0	-	-
EE320/470	1065.0	16000.0	17050620.0	114400.0	-	-

RM 型磁芯 RM CORES

常规类型 RM 磁芯

特点:

RM 磁芯按 IEC 标准形状设计。

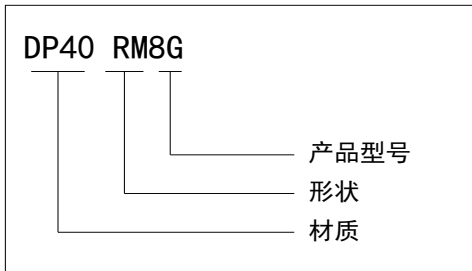
适合于高密度安装。

磁芯电感可调节。

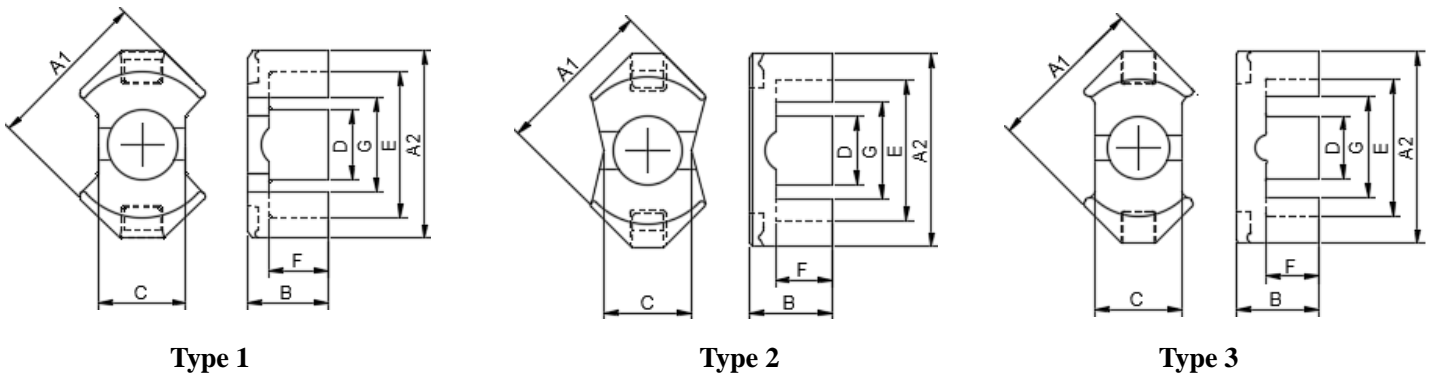
用途:

各种开关电源用变压器, 扼流圈, 滤波器, 电感等。

型号说明(Naming of Core Models):



产品图例(Shape example):



品名	Type	寸法(mm)							
		A1	A2	B	C	ΦD	ΦE	F	G
RM5A	4	12.05±0.3	14.65±0.3	5.4±0.15	6.6±0.2	4.8±0.15	10.4±0.3	3.45±0.15	6.1min.
RM5N	3	12.1±0.3	14.65±0.3	5.6±0.1	6.6±0.2	4.8±0.15	10.4±0.3	3.65±0.15	7.3min.
RM6	2	14.4±0.4	17.6±0.4	6.2±0.1	8.0±0.2	6.3±0.15	12.85min.	4.2±0.2	8.4min.
RM6H	2	14.4±0.4	18.2max.	8±0.15	8.0±0.2	6.3±0.15	12.75min.	6.0±0.2	8.7min.
RM6F	5	15.3±0.4	18.3±0.4	6.3±0.25	10.45±0.25	6.2±0.2	13.2min.	4.3±0.25	9.2min.
RM7	7	16.85±0.4	19.9±0.4	7.1±0.15	-	7.1±0.15	15.15±0.4	4.73±0.2	11.5±0.4
RM8	1	19.3±0.4	22.75±0.45	8.4±0.2	10.8±0.2	8.4±0.15	17.3±0.3	5.75±0.2	9.8min.
RM8F	6	19.3±0.4	22.75±0.45	8.35±0.15	10.8±0.2	8.4±0.15	17.3±0.3	5.75±0.15	9.8min.
RM8U	8	19.45±0.4	22.25±0.45	7.5±0.1	13.66±0.2	8.4±0.15	17.0min.	4.2±0.15	12.0min.
RM10A	1	24.15±0.55	27.85±0.65	9.3±0.15	13.25±0.25	10.7±0.2	21.65±0.45	6.35±0.15	11.3min.
RM10G	6	24.2±0.55	28.2±0.65	9.4±0.1	13.25±0.25	10.65±0.2	22.0±0.35	6.4±0.15	14.2min.
RM10F	6	24.2±0.55	28.2±0.65	9.3±0.15	13.25±0.25	10.65±0.2	22.025±0.35	6.625±0.125	14.2min.
RM10.7/18.8	1	24.75±0.55	28.45±0.65	9.4±0.15	13.25±0.25	10.6±0.2	22.25±0.45	6.5±0.15	13.6min.

RM 型磁芯 RM CORES

Regular Type RM core

Characteristics:

RM core is designed according to IEC standard core types.

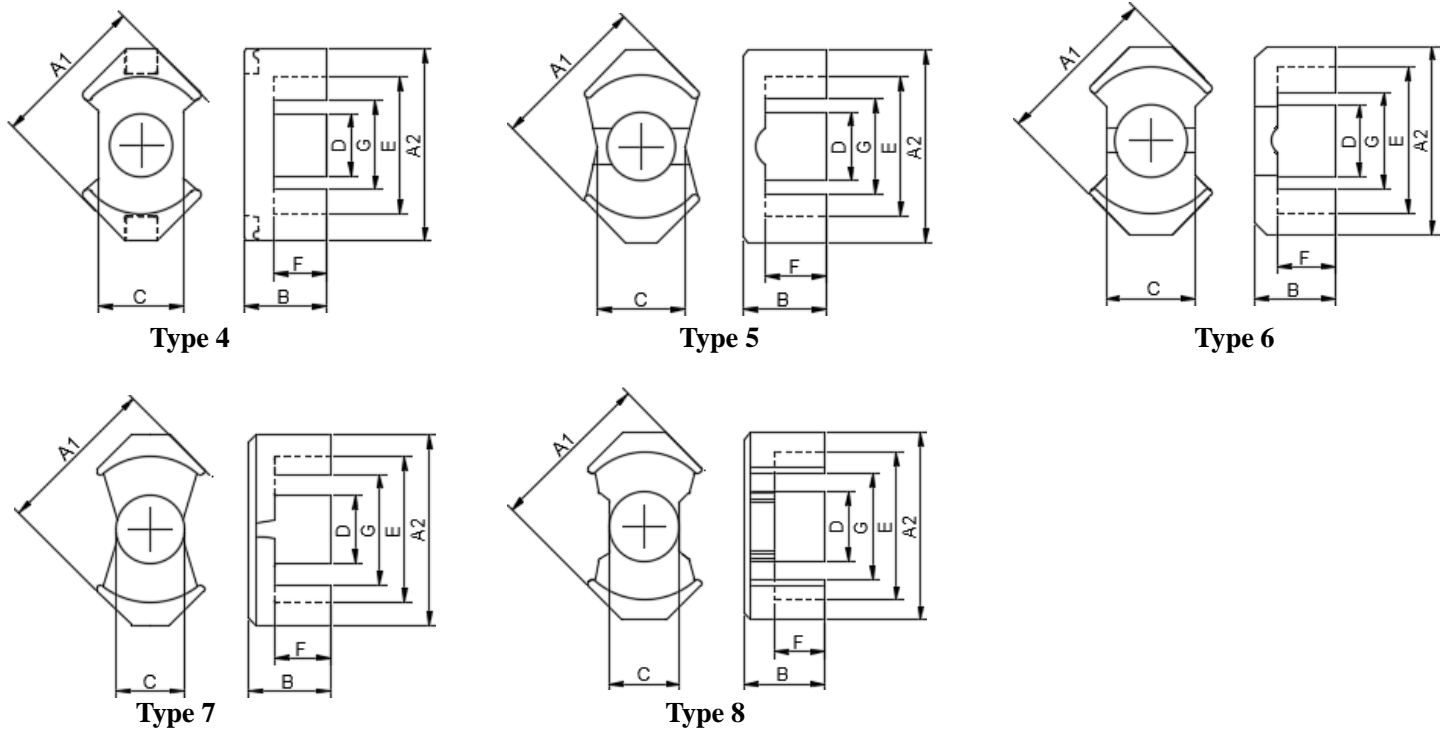
Suitable for high-dense mount.

Core inductance is adjustable.

Usages:

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

产品图例(Shape example):



品名	磁芯参数					AL(nH/N ²)	
	(mm-1)	(mm)	(mm ²)	(mm ³)	W(g/prs)	DP40	DP95
	C1	Le	Ae	Ve	W		
RM5A	0.95	22.4	23.7	530.0	3.0	1800	2000
RM5N	1.08	23.9	22.9	549.9	3.2	1800	-
RM6	0.79	28.5	35.7	1020.0	5.3	-	-
RM6H	0.88	33.4	37.6	1261.5	4.5	-	2600
RM6F	0.92	31.9	33.9	1081.8	5.0	2100	2600
RM7	0.82	34.4	40.0	1445.0	7.4	2500	3500
RM8	0.59	38.0	64.0	2400.0	12.2	3000	4000
RM8F	0.57	39.6	60.3	2390.0	12.4	3300	4300
RM8U	0.39	29.6	74.0	2192.9	11.2	-	-
RM10A	0.47	44.9	98.0	4591.6	22.0	4700	5600
RM10G	0.45	45.0	99.0	4500.0	22.0	4200	5040
RM10F	0.52	46.6	88.7	4143.1	20.7	4200	5100
RM10.7/18.8	0.45	48.6	89.5	4358.1	22.0	-	-

PQ 型磁芯 PQ CORES

常规类型 PQ 磁芯

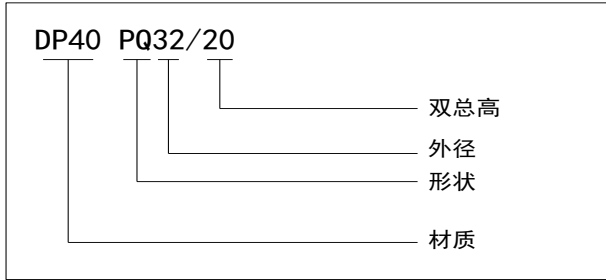
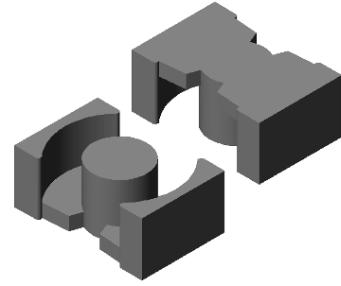
特点:

- 有多种形状构成系列供选用。
- 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 (Naming of Core Models):



品名	Type	尺寸(mm)						
		A	B	C	ΦD	ΦE	F	G
PQ17/22	1	17.0±0.5	11.0±0.15	12.0±0.4	7.4±0.2	14.6min.	8.05±0.2	12.0±0.4
PQ20/10D	3	20.5±0.4	5.1±0.1	14.0±0.4	8.8±0.2	18.0±0.4	2.15±0.15	12.0min.
PQ20/16	3	20.5±0.4	8.1±0.2	14.0±0.4	8.8±0.2	18.0±0.4	5.15±0.15	12.0min.
PQ20/20	3	20.5±0.4	10.1±0.2	14.0±0.4	8.8±0.2	18.0±0.4	7.15±0.2	12.0min.
PQ22.8/17.3	1	22.8±0.4	8.65±0.1	14.4±0.4	8.8±0.2	20.3±0.4	5.7±0.15	15.6±0.4
PQ26/13.7	3	26.5±0.45	6.97±0.05	19.0±0.45	12.0±0.25	22.5±0.45	3.12±0.15	26.5±0.45
PQ26/20D	3	26.5±0.45	10.075±0.15	19.0±0.45	12.0±0.25	22.5±0.45	5.75±0.2	15.5min.
PQ26/25D	3	26.5±0.45	12.5±0.15	19.0±0.45	12.0±0.25	22.5±0.45	8.15±0.2	15.5min.
PQ27/20D	3	26.8±0.45	10.1±0.25	19.0±0.45	12.0±0.25	22.4min.	5.85±0.15	16.4min.
PQ27/25D	3	26.8±0.45	12.5±0.25	19.0±0.45	12.0±0.25	22.4min.	8.2±0.25	16.4min.
PQ28/25D	3	27.5±0.6	12.4±0.3	19.0±0.5	12.0±0.3	22.8min.	8.35±0.3	16.9min.
PQ28.5/14.9W	2	28.5±0.5	7.5±0.1	19.0±0.45	12.0±0.25	22.5±0.5	4.15±0.15	15.5min.
PQ32/20D	3	32.0±0.5	10.275±0.15	22.0±0.5	13.45±0.25	27.5±0.5	5.85±0.25	19.0min.
PQ32/21W	3	32.3±0.5	10.7±0.15	21.75±0.5	13.45±0.25	27.8±0.5	6.15±0.15	21.4±0.5
PQ32/28D	3	32.0±0.5	14.0±0.15	22.0±0.5	13.45±0.25	27.5±0.5	9.55±0.25	19.0min.
PQ32/30D	3	32.0±0.5	15.175±0.15	22.0±0.5	13.45±0.25	27.5±0.5	10.75±0.25	19.0min.
PQ33/20	3	32.5±0.5	10.3±0.25	22.0±0.5	13.45±0.25	28.6±0.5	5.8±0.25	20.0min.
PQ33/26W	4	33.3±0.5	13.0±0.15	22.0±0.5	13.5±0.25	27.8±0.5	8.5±0.15	20.3±0.5
PQ33/30	3	32.5±0.5	15.2±0.25	22.0±0.5	13.45±0.25	28.6±0.5	10.7±0.25	20.0min.
PQ35/30D	3	35.1±0.6	14.9±0.2	26.0±0.5	14.35±0.25	32.0±0.5	10.0±0.2	23.5min.
PQ35/35D	3	35.1±0.6	17.5±0.2	26.0±0.5	14.35±0.25	32.0±0.5	12.5±0.25	23.5min.
PQ38/12.6	1	38.0±0.6	6.3±0.1	21.2±0.5	14.2±0.25	32.5±0.5	3.35±0.15	27.0±0.4
PQ40/40D	3	40.5±0.7	19.875±0.2	28.0±0.5	14.9±0.3	37.0±0.6	14.75±0.25	27.5min.
PQ50/50D	3	50.0±0.9	25.0±0.25	32.0±0.6	20.0±0.35	44.0±0.8	18.05±0.25	32.0min.

PQ 型磁芯 PQ CORES

Regular Type PQ core

Characteristics:

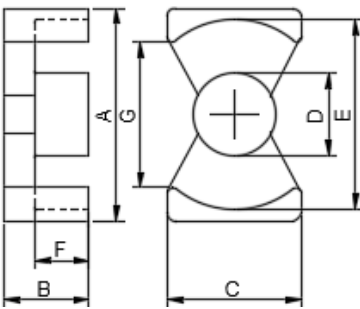
Various types which form a complete series available.

Suitable for high-dense mount.

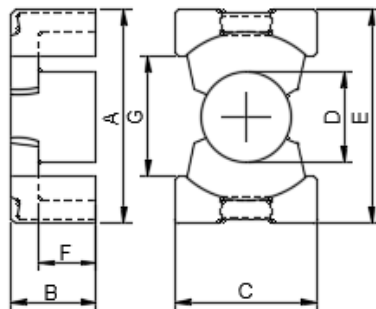
Usages:

Switching power supply transformers, choke coils and so on.

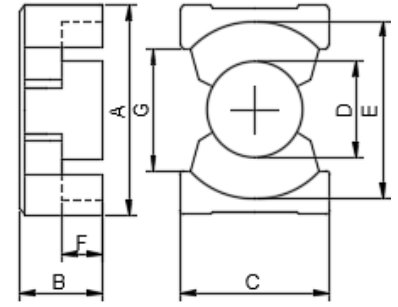
产品图例(Shape Example)



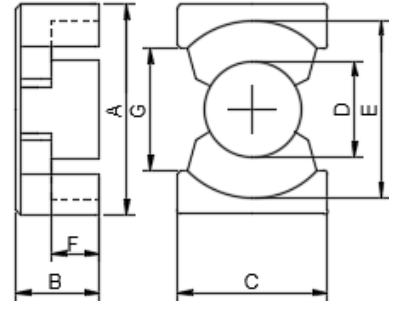
Type 1



Type 2



Type 4



Type 3

品名	磁芯参数				AL(nH/N ²)	
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W (g/prs)	DP40	DP95
PQ17/22	47.3	47.8	2260.5	12.0	2400	-
PQ20/10D	25.3	62.6	1589.9	9.8	4200	5500
PQ20/16	37.4	62.0	2310.0	12.9	3600	4400
PQ20/20	45.4	62.0	2790.0	15.8	2900	3800
PQ22.8/17.3	43.7	57.0	2742.3	14.3	4000	-
PQ26/13.7	35.6	120.0	4272.0	24.2	2650	-
PQ26/20D	46.3	119.0	5490.0	29.9	5300	6500
PQ26/25D	55.5	118.0	6530.0	34.7	4650	6500
PQ27/20D	53.2	109.3	6998.4	30.3	5900	7000
PQ27/25D	62.3	109.3	8235.9	43.8	5200	6000
PQ28/25D	57.9	123.0	7142.6	45.2	5000	-
PQ28.5/14.9W	35.7	112.5	4020.0	12.9	5800	8400
PQ32/20D	55.5	170.0	9420.0	41.2	7300	7600
PQ32/21W	56.5	161.0	9050.0	47.8	5900	7700
PQ32/28D	66.0	158.8	10498.5	57.2	5500	7000
PQ32/30D	74.6	161.0	12000.0	56.6	5100	6700
PQ33/20	49.3	145.1	7156.9	44.6	7100	-
PQ33/26W	65.0	168.0	11000.0	50.8	5100	-
PQ33/30	68.8	145.7	10036.0	59.4	5200	-
PQ35/30D	77.9	196.0	15300.0	62.6	5200	6600
PQ35/35D	87.9	196.0	17300.0	71.4	4800	6000
PQ38/12.6	45.1	137.6	6213.9	29.9	5700	-
PQ40/40D	91.3	189.9	17360.2	113.8	5000	6900
PQ50/50D	113.0	334.0	37742.0	216.0	6300	8610

PQI 型磁芯 PQI CORES

常规类型 PQI 磁芯

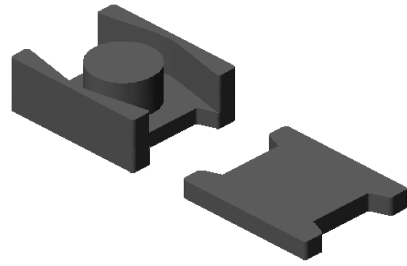
特点:

有多种形状构成系列供选用。

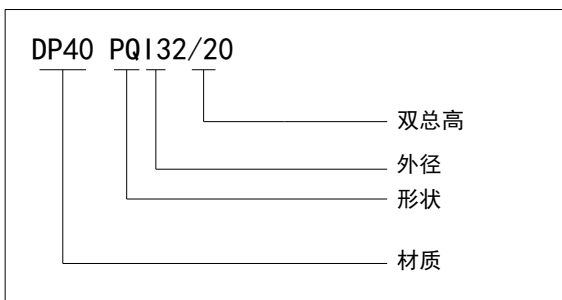
为高密度安装而设计的磁芯形状。

用途:

开关电源用变压器，扼流圈等。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)							
		A/A1	B	C/C1	ΦD	ΦE	F	G	H
PQI25/15	2	25.4±0.5	9.0±0.25	30.1±0.45	14.0±0.35	22.2±0.35	5.5±0.25	13.59±0.4	3.5±0.1
PQI26/17D	1	26.2±0.8	12.45±0.2	18.7±0.8	11.8±0.25	22.2±0.8	8.1±0.2	15.0min.	4.3±0.1

Regular Type PQI core

Characteristics:

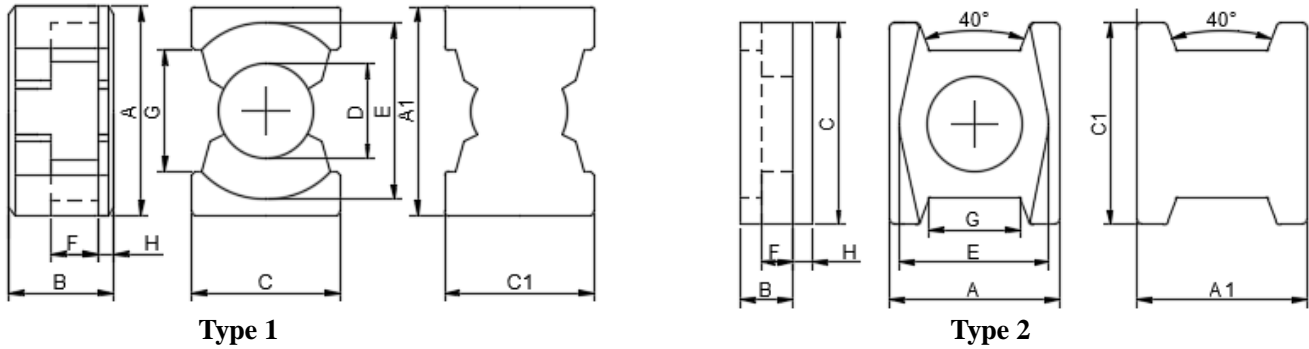
Various types which form a complete series available.

Suitable for high-dense mount.

Usages:

Switching power supply transformers, choke coils and so on.

产品图例(Shape Example)



品名	磁芯参数				AL(nH/N ²)	
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W (g/prs)	DP40	DP95
PQI25/15	46.2	105.3	4871.9	33.5	-	7500
PQI26/17D	37.7	120.9	4571.1	26.3	5800	6800

常规类型 EFD 磁芯

特点:

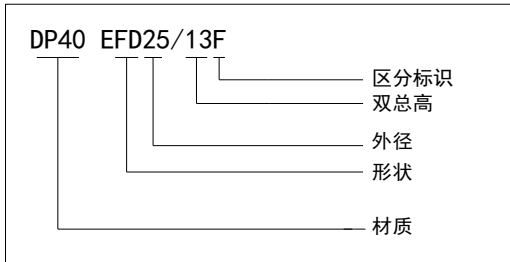
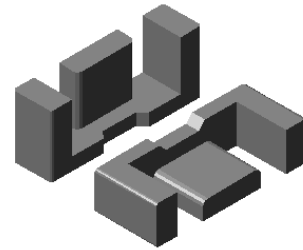
适合于变压器的小型化。

可根据客户提供各种磁芯规格。

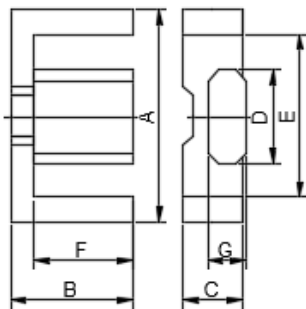
用途:

各种开关电源用变压器，扼流圈等。

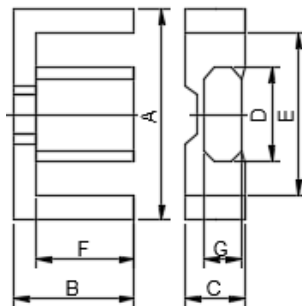
型号说明 (Naming of Core Models):



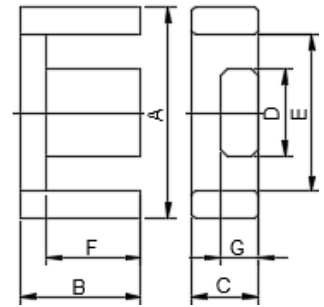
产品图例(Shape Example):



Type 1



Type 2



Type 3

品名	Type	尺寸(mm)						
		A	B	C	D	E	F	G
EFD15/15D	1	15.0±0.4	7.65±0.15	4.8±0.2	5.3±0.2	11.0±0.35	5.65±0.25	2.4±0.1
EFD17/17	3	17.0±0.4	8.6±0.1	5.3±0.2	6.95±0.2	12.65±0.35	6.6±0.2	3.0±0.15
EFD19.8/19.9ML	2	19.8±0.4	9.95±0.15	6.55±0.2	8.9±0.2	14.9min.	7.65±0.2	3.6±0.15
EFD20/20	2	20.0±0.55	10.15±0.15	6.65±0.2	8.9±0.2	15.4±0.5	7.85±0.25	3.6±0.15
EFD20/20L	2	20.2±0.4	10.2±0.15	6.8±0.2	8.8±0.2	16.0min.	7.8±0.2	3.6±0.15
EFD20/20M	2	20.0±0.55	10.15±0.15	6.65±0.2	8.9±0.2	15.4±0.5	7.85±0.25	3.6±0.15
EFD25/25	2	25.0±0.65	12.5±0.15	9.1±0.2	11.4±0.2	18.7±0.6	9.3±0.25	5.2±0.15
EFD26/21	2	26.3±0.5	10.7±0.2	9.1±0.2	11.35±0.2	20.0min.	7.5±0.2	5.2±0.2
EFD26/25F	2	26.3±0.5	12.8±0.2	9.1±0.2	11.35±0.2	20.0min.	9.8±0.2	5.2±0.2
EFD26.5/10.1	6	26.55±0.5	5.05±0.15	12.0±0.2	9.65±0.2	21.0±0.5	2.65±0.2	5.2±0.2
EFD30/31	2	30.5±0.6	15.4±0.2	9.1±0.2	14.6±0.25	22.9±0.6	11.6±0.2	4.9±0.15
EFD31/31A	2	30.5±0.6	15.4±0.2	9.1±0.2	14.6±0.2	22.9±0.6	11.6±0.2	4.9±0.15
EFD32/35	2	31.6±0.6	17.8±0.3	9.0±0.25	14.6±0.2	23.2min	14.0±0.3	4.9±0.15
EFD38/35	5	37.7±0.5	17.6±0.25	7.6±0.25	18.6±0.2	29.2min.	13.1±0.2	3.4±0.15
EFD40.5/45	4	40.5±0.6	22.5±0.2	10.6±0.3	16.6±0.35	30.0min.	16.3±0.3	6.6±0.25
EFD41/38.5	5	41.0±0.8	19.25±0.2	11.8±0.3	16.6±0.4	31.4±0.7	14.45±0.2	6.7±0.25
EFD42/41	4	41.9±0.5	20.25±0.15	8.0±0.3	19.85±0.3	31.6min.	15.25±0.2	3.8±0.15

Regular Type EFD Core

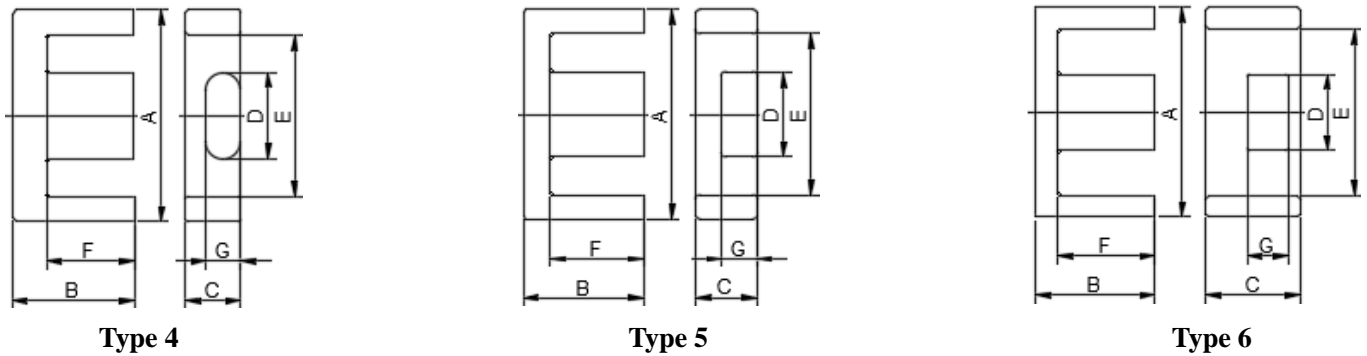
Suitable for making planar transformers.

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(Shape Example):



品名	磁芯参数				AL(nH/N ²)	
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
EFD15/15D	34.0	15.0	510.0	2.8	900	1100
EFD17/17	39.8	21.9	874.4	4.5	1028	1700
EFD19.8/19.9ML	25.9	44.9	1163.1	7.1	1200	-
EFD20/20	47.0	28.0	1316.0	7.3	1500	2100
EFD20/20L	45.1	25.9	1169.0	7.7	1400	2000
EFD20/20M	46.5	27.8	1294.1	7.4	1600	2200
EFD25/25	57.0	58.0	3310.0	16.6	2300	2400
EFD26/21	55.2	59.0	3276.9	14.7	2800	-
EFD26/25	59.1	55.4	2368.0	16.4	2200	2800
EFD26.5/10.1	34.6	56.5	1956.8	10.3	3800	-
EFD30/31	68.3	66.5	4541.9	22.8	2400	3000
EFD31/31A	69.9	67.8	4746.8	23.9	2500	3000
EFD32/35	77.0	59.7	4599.5	28.6	2300	-
EFD38/35	81.6	66.3	5410.0	27.3	1000	-
EFD40.5/45	94.0	111.4	10489.3	59.0	2700	-
EFD41/38.5	91.6	112.0	10259.2	53.2	-	3600
EFD42/41	94.0	76.6	7209.1	37.4	2200	-

FR 型 磁芯 FR CORES

常规类型 FR 磁芯

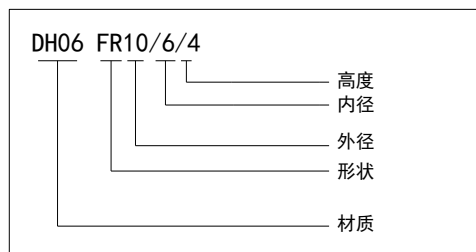
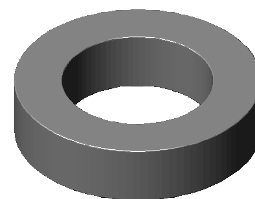
特点:

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 (Naming of Core Models):



品名	Type	尺寸(mm)			
		ΦA	ΦB	C	D
FR9/5/4	1	9.0±0.4	5.0±0.3	4.0±0.3	-
FR10/6/5	1	10.0±0.4	6.0±0.3	5.0±0.3	-
FR12/5/12.7	1	12.3±0.4	5.075±0.2	12.7±0.4	-
FR12/6/4	1	12.0±0.4	6.0±0.3	4.0±0.3	-
FR12.7/7.14/4.78	1	12.7±0.4	7.14±0.3	4.78±0.3	-
FR12.7/7.4/5	1	12.7±0.4	7.4±0.3	5.0±0.3	-
FR12.7/7.92/6.35	1	12.7±0.4	7.92±0.3	6.35±0.3	-
FR14/6/28.6	1	14.3±0.45	6.35±0.3	28.6±0.75	-
FR14/8/4R	1	14.0±0.4	8.0±0.3	4.0±0.3	-
FR14/8/7	1	14.0±0.4	8.0±0.3	7.0±0.3	-
FR14/9/5	1	14.0±0.4	9.0±0.3	5.0±0.3	-
FR16/9.5/5	1	16.0±0.4	9.5±0.4	5.0±0.3	-
FR16/10/4	1	16.0±0.4	10.0±0.4	4.0±0.3	-
FR16/11.6/5	1	16.0±0.5	11.6±0.4	5.0±0.2	-
FR16/12/8	1	16.0±0.4	12.0±0.4	8.0±0.3	-
FR18/10/10	1	18.0±0.4	10.0±0.3	10.0±0.3	-
FR18/12/8	1	18.0±0.4	12.0±0.3	8.0±0.3	-
FR18.7/10.2/4	1	18.7±0.4	10.2±0.4	4.0±0.3	-
FR19/13/6	1	19.0±0.4	13.0±0.3	6.0±0.2	-
FR20/10/10	1	20.0±0.4	10.0±0.4	10.0±0.3	-
FR20/11/10	1	20.0±0.4	11.0±0.4	10.0±0.3	-
FR22/14/8	1	22.0±0.5	14.0±0.4	8.0±0.3	-
FR22.5/14/13	1	22.5±0.5	14.0±0.4	13.0±0.4	-
FR24.7/17.5/25.3	2	24.7±0.5	17.5±0.4	25.3±0.5	7.98±0.5
FR25/15/10	1	25.0±0.5	15.0±0.5	10.0±0.5	-
FR25/15/12	1	25.0±0.5	15.0±0.5	12.0±0.3	-
FR25/15/13	1	25.0±0.5	15.0±0.4	13.0±0.3	-

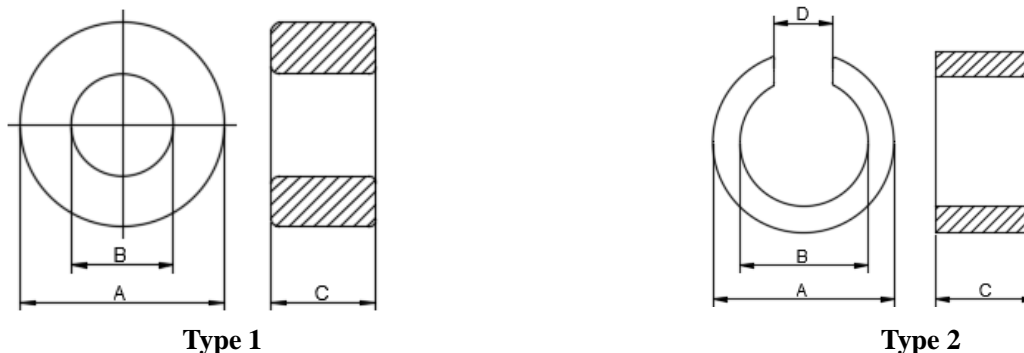
FR 型 磁芯 FR CORES

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(Shape Example):



Type 1

Type 2

品名	磁芯参数					AL			
	(mm-1)	(mm)	(mm ²)	(mm ³)	W(g/pcs)	nH/N ²			
	C1	Le	Ae	Ve	W	DH05	DH07	DH10	DH15
FR9/5/4	2.67	20.7	7.7	161.4	0.9	-	-	3520	-
FR10/6/5	2.46	24.0	9.7	235.5	1.2	2670	3500	5000	-
FR12/5/12.7	0.56	24.0	43.0	1033.0	5.8	-	-	-	-
FR12/6/4	2.26	26.1	11.5	301.3	1.7	-	4000	6000	6800
FR12.7/7.14/4.78	2.35	31.1	13.2	414.1	2.0	2680	3750	5360	8040
FR12.7/7.4/5	2.32	30.0	12.9	389.1	2.1	2710	3790	5400	8140
FR12.7/7.92/6.35	2.22	32.0	14.4	462.7	2.3	2990	4190	5950	8840
FR14/6/28.6	0.25	29.1	108.0	3136.0	17.6	-	-	-	-
FR14/8/4R	2.8	32.8	11.6	383.6	1.9	1700	-	-	-
FR14/8/7	1.65	34.5	21.0	725.7	3.5	3920	5480	7840	11580
FR14/9/5	2.89	36.1	12.5	451.6	2.1	2210	3090	4420	6530
FR16/9.5/5	2.24	39.2	17.5	687.2	3.2	2600	3650	5210	7650
FR16/10/4	3.34	39.3	11.7	463.8	2.4	1600	2742	3657	-
FR16/11.6/5	3.90	42.6	10.9	464.7	2.2	-	-	-	-
FR16/12/8	2.75	43.9	16.0	704.0	3.5	2300	3220	4600	6860
FR18/10/10	1.1	43.9	40.0	1759.0	8.8	5880	7500	10000	15000
FR18/12/8	1.93	45.8	23.6	1085.6	5.5	-	-	6500	-
FR18.7/10.2/4	2.59	42.7	16.4	704.5	3.3	2420	3390	4840	7270
FR19/13/6	2.75	49.1	17.8	872.8	4.4	2270	3180	4550	5450
FR20/10/10	0.94	47.1	50.0	2356.1	11.2	5000	7500	10000	16000
FR20/11/10	1.08	48.6	45.0	2191.2	10.3	5800	7500	11600	13950
FR22/14/8	1.77	56.5	32.0	1809.5	8.6	3620	5060	7230	10675
FR22.5/14/13	1.01	55.2	54.2	2995.2	15.0	4500	-	-	-
FR24.7/17.5/25.3	-	-	-	-	26.7	-	-	-	-
FR25/15/10	1.23	60.2	48.9	2940.0	15.0	5000	7500	10000	12000
FR25/15/12	1.03	60.2	58.7	3530.0	18.0	5000	7500	12000	-
FR25/15/13	0.94	60.1	63.6	3827.0	20.0	5000	7500	13200	-

FR 型 磁芯 FR CORES

品名	Type	尺寸(mm)		
		ΦA	ΦB	C
FR26/13/28.5	1	25.9±0.75	12.8±0.5	28.6±0.8
FR29/19/15	1	29.0±0.5	19.0±0.5	14.8±0.3
FR29/18/15	1	28.75±0.5	18.15±0.5	14.7±0.5
FR30/20/6.25	1	30.0±0.5	20.0±0.5	6.25±0.3
FR31/16/6	1	31.0±0.5	16.00±0.5	6.0±0.4
FR31/19/13	1	31.0±0.5	19.00±0.5	13.0±0.4
FR35.5/27.5/26.5	1	35.48±0.6	27.52±0.6	26.5±0.5
FR35.5/27.5/38	1	35.48±0.6	27.52±0.6	38.0±0.5
FR36/23/15	1	36.1±0.6	23.35±0.6	14.9±0.5
FR37/22/15	1	37.0±0.5	22.0±0.5	15.0±0.5
FR38.1/19/13	1	38.1±0.5	19.0±0.5	13.0±0.5
FR38/22/15	1	38.0±0.5	22.0±0.5	15.0±0.4
FR40/20/16	1	40.0±0.7	20.0±0.5	16.0±0.4
FR40/23/15	1	40.0±0.5	23.0±0.5	15.0±0.4
FR40/24/16	1	40.0±0.5	24.0±0.5	15.6±0.4
FR46/35/16	1	45.6±0.5	35.0±0.5	16.25±0.3
FR47/27/15	1	47.0±0.7	27.0±0.6	15.0±0.4
FR50/20/24	1	50.0±0.7	20.0±0.6	24.0±0.4
FR50/30/20	1	50.0±0.7	30.0±0.6	20.0±0.5
FR50/25/20	1	50.0±0.7	25.0±0.6	20.0±0.5
FR60/40/25	1	60.0±0.8	40.0±0.7	25.0±0.5
FR61/36/13	1	61.0±1.25	35.55±0.85	12.7±0.5
FR63/38/25	1	63.0±0.8	38.0±0.7	25.0±0.5
FR112/98/32	1	111.5±1.5	98.0±1.5	32.0±0.5

FR 型 磁芯 FR CORES

品名	磁芯参数					AL			
	(mm-1)	(mm)	(mm ²)	(mm ³)	W(g/pcs)	nH/N ²			
	C1	Le	Ae	Ve	W	DH05	DH07	DH10	DH15
FR26/13/28.5	0.30	56.6	175.5	9936.8	53.6	5000	-	-	-
FR29/19/15	0.99	73.2	73.9	5409.0	28.0	-	9000	-	-
FR29/18/15	0.93	71.1	76.5	5445.4	28.1	6670	9300	13300	16000
FR30/20/6.25	2.38	76.4	32.0	2450.1	12.2	-	-	-	-
FR31/16/6	1.58	68.7	43.3	2981.5	16.2	-	-	5600	-
FR31/19/13	1.01	78.5	78.0	6126.1	29.0	6360	8910	12730	14500
FR35.5/27.5/26.5	0.93	97.9	104.9	10270.5	50.0	-	-	-	-
FR35.5/27.5/38	0.65	97.9	150.4	14727.5	71.6	-	-	-	-
FR36/23/15	0.97	90.9	93.5	8461.0	43.4	6440	9020	12890	14680
FR37/22/15	0.80	88.6	110.0	9749.3	50.0	5000	9000	11000	13000
FR38.1/19/13	0.69	82.8	119.2	9880.0	54.5	5500	7700	11000	13200
FR38/22/15	0.76	89.8	117.0	10493.2	54.0	5500	7700	11000	13200
FR40/20/16	0.56	87.1	153.7	13391.7	68.2	-	-	-	-
FR40/23/15	0.75	94.0	124.2	11694.0	55.5	5000	7200	9000	11000
FR40/24/16	0.78	96.2	122.1	11758.8	62.0	-	9000	-	-
FR46/35/16	1.48	125.1	84.3	10550.3	52.5	4200	5900	8400	10100
FR47/27/15	0.80	110.0	137.0	15070.0	85.4	8300	11600	16000	18000
FR50/20/24	0.28	95.9	335.8	32224.6	189.9	-	-	-	-
FR50/30/20	0.61	120.3	195.7	23555.4	123.0	10320	14420	19890	-
FR50/25/20	0.45	109.0	240.0	26160.0	144.0	13800	19000	25000	-
FR60/40/25	0.62	152.8	246.6	37694.9	192.3	10070	13870	18200	-
FR61/36/13	0.91	144.5	157.7	22798.6	115.2	6600	-	-	-
FR63/38/25	0.50	152.0	306.0	46512.0	242.0	12600	17000	22300	-
FR112/98/32	1.47	328.8	223.6	73561.7	336.5	-	-	-	-

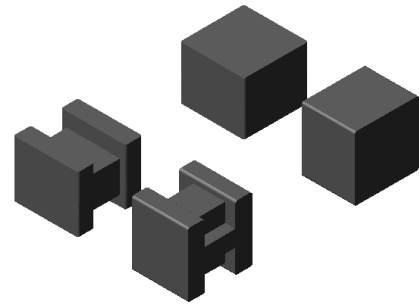
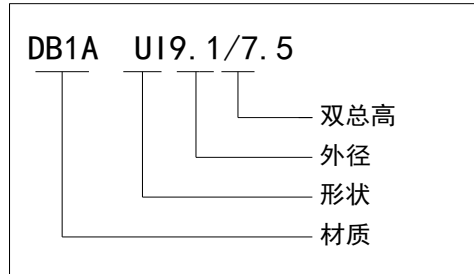
UI 型 磁芯 UI CORES

UI 磁芯

特点：耐大电流、低损耗。

用途：网络通讯变压器。

型号说明 (Naming of Core Models):



品名	Type	尺寸 (mm)											
		A	B	C	D	E	F	G	H	I	J	A1	C1
UI6.2/7.3	6	6.2± 0.15	4.64± 0.1	9.4± 0.15	7.6± 0.15	2.0±0.1	0.85± 0.1	0.5±0.1	4.1± 0.1	2.61± 0.1	2.45± 0.1	6.2±0.1	9.4±0.1
UI7/4.3	2	6.7± 0.15	2.4±0.1	7.0± 0.15	-	2.5± 0.15	0.5±0.1	0.25± 0.1	0.5± 0.1	1.9± 0.1	3.5± 0.15	6.7± 0.15	7.0± 0.15
UI7.1/8.2	1	7.1±0.2	5.45± 0.15	9.9±0.2	7.35± 0.15	1.1±0.1	1.15± 0.15	0.2±0.1	-	3.0± 0.1	-	7.1±0.2	9.9±0.2
UI7.88/10.4	1	7.88± 0.15	5.65± 0.1	10.52± 0.15	9.2± 0.15	2.1±0.1	0.7±0.1	0.2±0.1	-	4.75± 0.1	-	7.88± 0.15	10.52± 0.15
UI7.11/9.91	3	7.11± 0.15	5.51± 0.2	9.91± 0.15	7.26± 0.15	1.05min.	1.17ref.	-	-	2.97± 0.1	-	7.11± 0.15	9.91± 0.15
UI7.7/7.5	6	7.7± 0.15	4.85± 0.1	9.8± 0.15	8.2± 0.15	2.3± 0.12	0.9±0.1	0.6±0.1	3.8± 0.1	2.6± 0.1	2.5± 0.1	7.7± 0.15	9.8± 0.15
UI9.1/7.5	4	7.49± 0.15	3.86± 0.1	9.14± 0.18	-	2.46± 0.05	0.71± 0.05	0.41± 0.05	-	3.3± 0.05	-	7.49± 0.15	9.14± 0.18
UI11/7.3	2	10.7± 0.15	3.9±0.1	11.0± 0.15	-	2.5± 0.15	0.5±0.1	0.25± 0.1	0.5± 0.1	3.4± 0.1	3.5± 0.15	10.7± 0.15	11.0± 0.15
UI28.5/48	5	28.5± 0.4	38.2± 0.2	29.2± 0.4	-	12.1± 0.3	30.0± 0.2	-	-	8.2± 0.2	-	35.0± 0.5	29.5± 0.4

UI 型 磁芯 UI CORES

UI core

Characteristics:

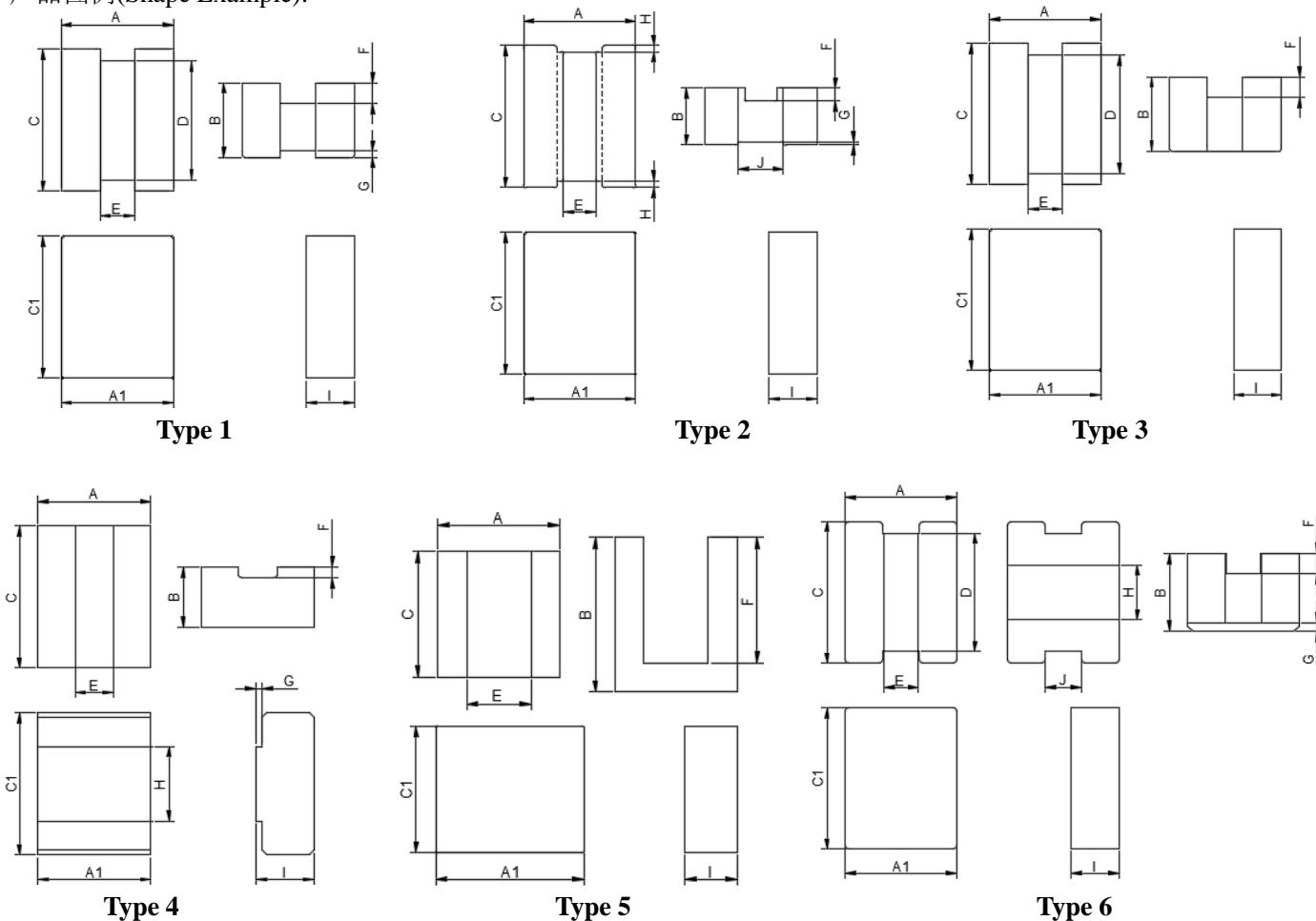
Suitable for high current

Low loss

Usage:

Network Communication Transformer.

产品图例(Shape Example):



品名	磁芯参数				AL	
	(mm)	(mm ²)	(mm ³)	W(g/prs)	(nH/N ²)	
	Le	Ae	Ve	W	DB90	DP95A
UI6.2/7.3	17.4	23.2	406.1	1.8	-	-
UI7/4.3	12.0	11.1	134.4	0.8	-	-
UI7.1/8.2	-	-	-	2.7	-	-
UI7.88/10.4	17.1	40.5	694.0	4.5	-	-
UI7.11/9.91	14.9	23.4	349.4	2.1	-	-
UI7.7/7.5	15.5	23.8	371.4	2.2	-	-
UI9.1/7.5	15.2	26.6	407.2	2.2	-	-
UI11/7.3	17.7	36.5	647.5	3.7	-	-
UI28.5/48	113.1	239.4	27095.0	148.3	-	6300

EPC 型磁芯 EPC CORES

常规类型 EPC 磁芯

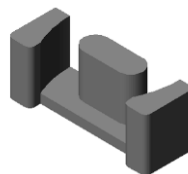
特点:

低损耗

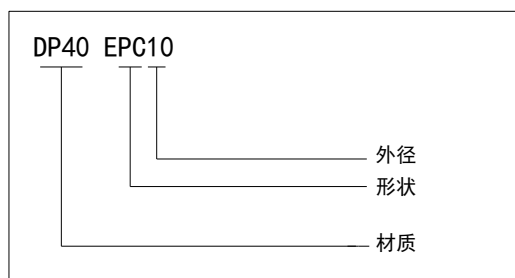
屏蔽效果好

用途:

开关电源用变压器。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)							
		A	B	C	D	E	F	G	H
EPC13	1	13.2±0.3	6.6±0.2	4.6±0.15	5.6±0.15	8.3min.	4.5±0.2	10.7±0.3	2.05±0.15
EPC13Y	2	13.2±0.4	6.6±0.25	6.5±0.3	5.6±0.2	8.3min.	4.5±0.25	10.4min.	3.55±0.2
EPC17	1	17.6±0.4	8.55±0.2	6.0±0.2	7.7±0.2	11.5min.	6.05±0.2	14.3min.	2.8±0.15
EPC18	3	17.5±0.4	4.4±0.2	8.5±0.3	7.7±0.2	10.5min.	2.85±0.2	14.0min.	3.8±0.15
EPC19	1	19.1±0.5	9.75±0.2	6.0±0.2	8.5±0.2	13.1min.	7.3±0.2	15.8min.	2.5±0.15

EPC 型磁芯 EPC CORES

Regular Type EPCcore

Characteristics:

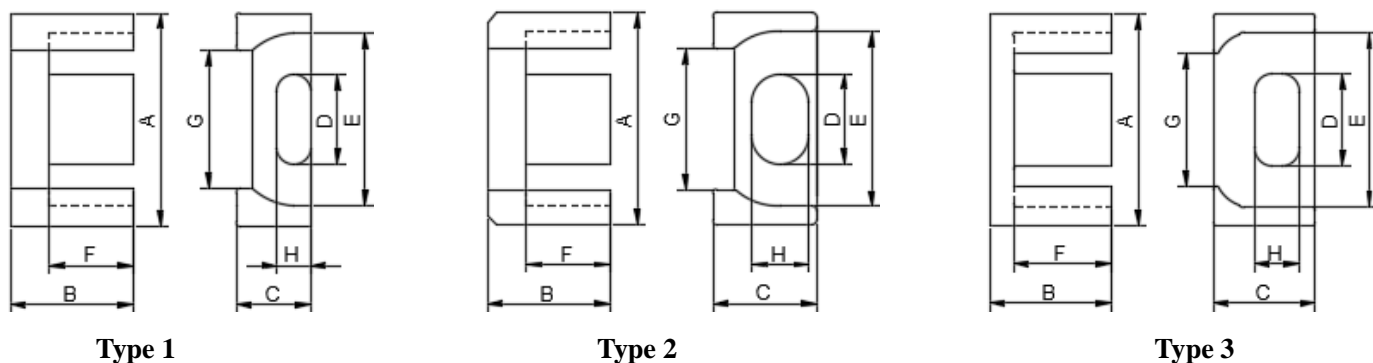
Low loss

Good shielding effect

Usages:

Switching power supply transformers.

产品图例(Shape Example)



品名	磁芯参数					AL	
	(mm-1)	(mm)	(mm ²)	(mm ³)	W(g/prs)	nH/N ²	
	C1	Le	Ae	Ve	W	DP40	DP95
EPC13	2.46	30.6	12.5	382.0	2.1	900	950
EPC13Y	0.92	30.6	20.1	611.3	3.1	1350	-
EPC17	1.78	40.2	22.8	917.0	4.6	1100	1500
EPC18	0.91	23.2	27.2	585.0	3.9	-	2400
EPC19	2.03	46.1	22.7	1047.0	5.2	940	1350

R 型磁芯 R CORES

常规类型 R 型磁芯

特点:

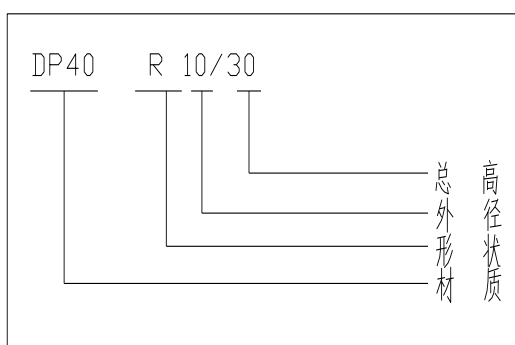
体积小、重量轻、结构牢固

用途:

各种开关电源变压器，扼流圈等。



型号说明 (Naming of Core Models):



品名	Type	尺寸 (mm)		
		ΦA	B	C
R6/20	1	5.95±0.2	20.0±0.3	-
R8/18.05	1	8.0±0.2	18.05±0.3	-
R10/8	1	10.0±0.3	8.0±0.25	-
R10/32	1	9.75±0.25	32.0±0.5	-
R12/119	2	12.0±0.25	119.0±1.0	11.0±0.2
R14/120	2	14.0±0.25	120.0±1.2	12.8±0.2

R 型磁芯 R CORES

Regular Type R Core

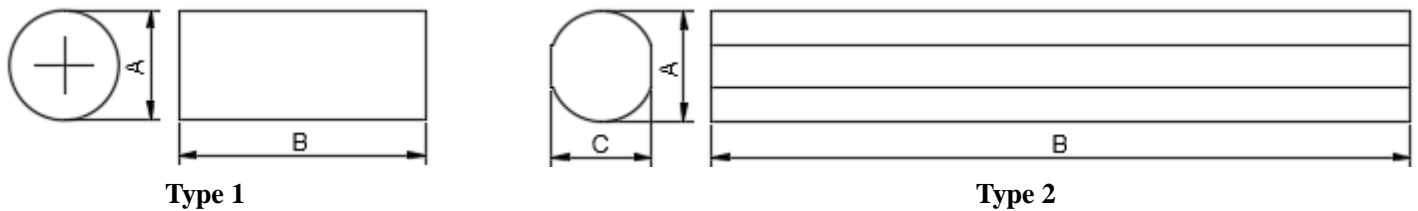
Characteristic:

Small size, light weight and firm structure.

Usages:

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

产品图例 (Shape Example) :



品名	磁芯参数			
	Le (mm)	Ae(mm ²)	Ve(mm ³)	W(g/pcs)
R6/20	-	-	-	2.7
R8/18.05	-	-	-	4.4
R10/8	-	-	-	3.0
R10/32	-	-	-	11.7
R12/119	-	-	-	62.5
R14/120	-	-	-	87.6

DS 型磁芯 DS CORES

平面型 DS 磁芯

特点:

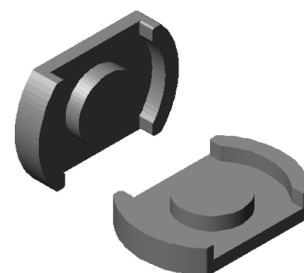
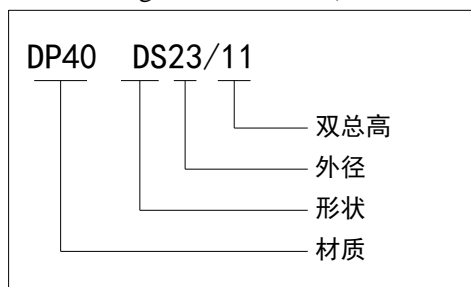
适合于变压器的平面化。

根据客户需要可提供各种各样磁芯规格。

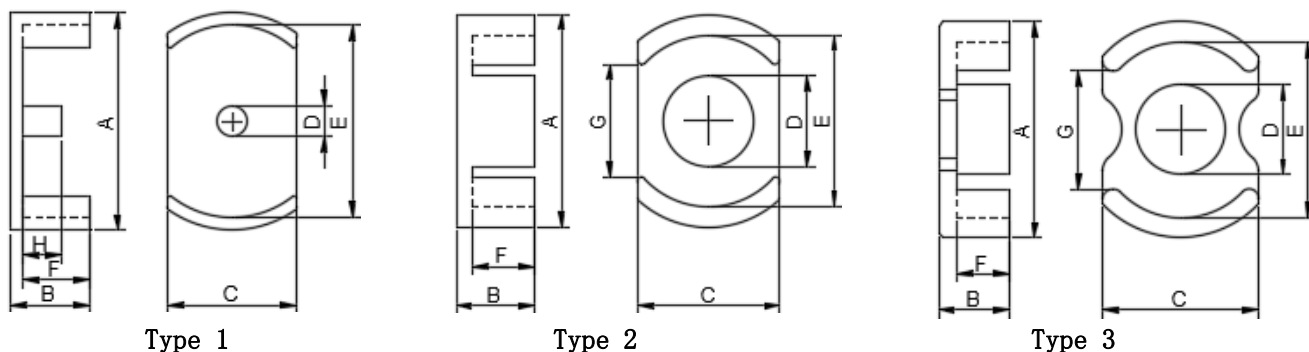
用途:

LED 变压器。

型号说明 (Naming of Core Models):



产品图例 (Shape Example):



品名	Type	尺寸(mm)								
		ΦA	B	C	ΦD	ΦE	F	G	H	I
DS13/20	4	13.2±0.25	10.0±0.2	10.0±0.25	5.6±0.15	10.2±0.25	7.5±0.2	-	7.0±0.15	3.8±0.15
DS18/10.6	2	17.8±0.35	5.3±0.15	11.9±0.3	7.5±0.2	15.1±0.4	3.85±0.2	10.8±0.4	-	-
DS23/11E	2	23.45±0.45	5.78±0.15	15.24±0.3	9.7±0.2	19.3±0.4	3.95±0.15	14.7min.	-	-
DS27/18	6	27.0±0.4	8.85±0.15	18.0±0.3	11.0±0.2	22.0±0.4	5.85±0.15	17.1±0.4	-	-
DS30/08P	7	30.0±0.3	4.0±0.1	25.5±0.3	-	24.0±0.3	1.5±0.15	15.8±0.4	-	-
DS30/12.3	2	30.2±0.5	6.15±0.15	20.6±0.3	13.4±0.3	25.2min.	3.35±0.15	18.6min.	-	-
DS30/19	2	30.0±0.5	9.4±0.2	20.3±0.3	13.3±0.2	25.4±0.4	6.6±0.2	18.29min.	-	-
DS33/17	3	33.3±0.5	8.5±0.15	24.0±0.3	13.8±0.2	26.8±0.4	5.95±0.15	17.2min.	-	-
DS33.2/17.2	6	33.2±0.6	8.6±0.15	21.7±0.4	13.4±0.2	26.8±0.5	5.8±0.15	19.1±0.5	-	-
DS33.2/18	6	33.2±0.4	9.0±0.15	21.7±0.3	13.4±0.2	26.8±0.4	6.2±0.15	19.1±0.5	-	-
DS34/19	2	34.0±0.5	9.4±0.15	23.7±0.3	13.5±0.2	26.8min.	6.8±0.15	17.8min.	-	-
DS35/17	5	35.0±0.6	8.7±0.2	20.9±0.3	13.9±0.25	29.9±0.5	5.4±0.2	22.6±0.5	15.0±0.3	-
DS37/19	3	37.0±0.6	9.5±0.1	27.5±0.45	15.4±0.25	30.7±0.5	6.2±0.2	20.0±0.5	-	-
DS40/25	2	39.8±0.5	12.5±0.2	28.3±0.35	16.0±0.25	33.2±0.5	9.9±0.2	20.0min.	-	-
DS43/44	1	43.0±0.5	22.0±0.15	25.5±0.35	6.0±0.2	38.0±0.5	19.5±0.15	-	10.5±0.2	-

DS 型磁芯 DS CORES

Planar Type DS Core

Characteristics:

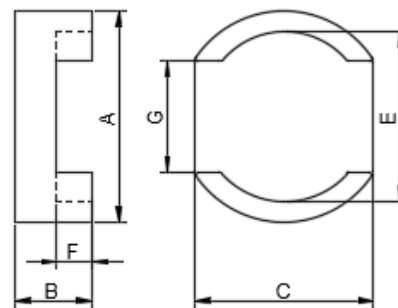
Suitable for making planar transformer.

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

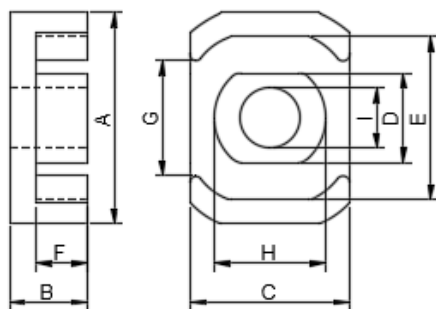
Usages:

LED converter

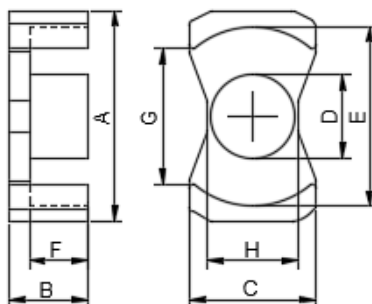
产品图例 (Shape Example) :



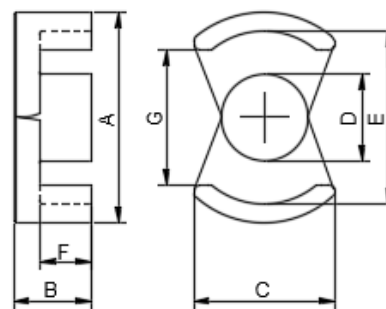
Type7



Type 4



Type 5



Type 6

品名	磁芯参数				AL(nH/N ²)	
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
DS13/20	36.1	28.7	1038.3	12.0	1700	-
DS18/10.6	27.7	35.9	996.7	5.4	-	4000
DS23/11E	31.8	63.8	2036.7	10.8	3600	-
DS27/18	46.1	95.8	4423.1	21.2	-	-
DS30/08P	49.5	120.0	5940.0	31.0	-	-
DS30/12.3	33.4	116.8	3903.8	21.5	-	7500
DS30/19	49.5	120.0	5940.0	31.0	4500	6000
DS33/17	46.3	145.0	6713.5	31.5	6500	8000
DS33.2/17.2	48.9	122.0	5965.8	30.5	-	7300
DS33.2/18	46.6	135.0	6296.4	31.0	6500	-
DS34/19	48.8	141.5	6918.1	38.4	6500	8500
DS35/17	50.0	138.2	6917.2	36.2	5400	-
DS37/19	51.6	189.0	9752.0	47.0	-	-
DS40/25	66.6	185.0	12321.0	72.0	6500	-
DS43/44	72.2	36.7	2656.5	26.6	-	-

平面型 CQ 磁芯

特点:

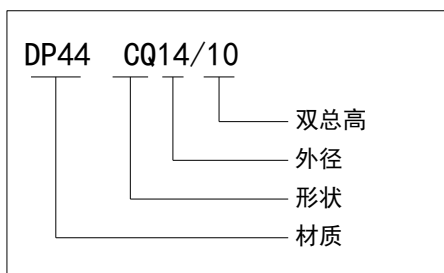
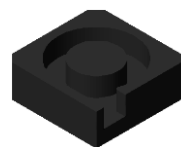
适合于变压器的平面化。

根据客户需要可提供各种各样磁芯规格。

用途:

LED 变压器。

型号说明 (Naming of Core Models):



品名	尺寸(mm)								
	A	B	C	ΦD	ΦE	F	G	I	P
CQ14/08	14.35±0.15	4.7±0.05	14.35±0.15	6.8±0.1	11.7±0.1	3.0±0.1	3.3±0.1	2.7±0.1	2.0±0.1
CQ14/10	14.35±0.15	5.2±0.05	14.35±0.15	6.8±0.1	11.7±0.1	3.5±0.1	3.3±0.1	2.7±0.1	2.0±0.1

CQ 型磁芯 CQ CORES

Planar Type CQ Core

Characteristics:

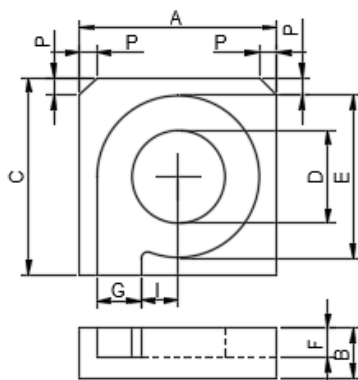
Suitable for making planar transformer.

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

Usages:

LED converter

产品图例 (Shape Example) :



品名	磁芯参数				AL(nH/N ²)
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40
CQ14/08	24.4	40.0	975.0	6.7	3300
CQ14/10	25.7	40.0	1028.6	7.1	3600

ED 型磁芯 ED CORES

平面型 ED 磁芯

特点:

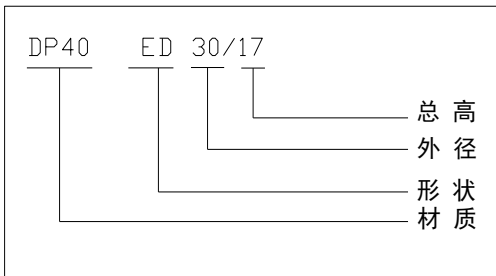
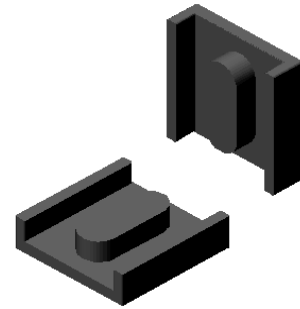
适合于变压器的平面化。

根据客户要求可提供各种各样磁芯规格。

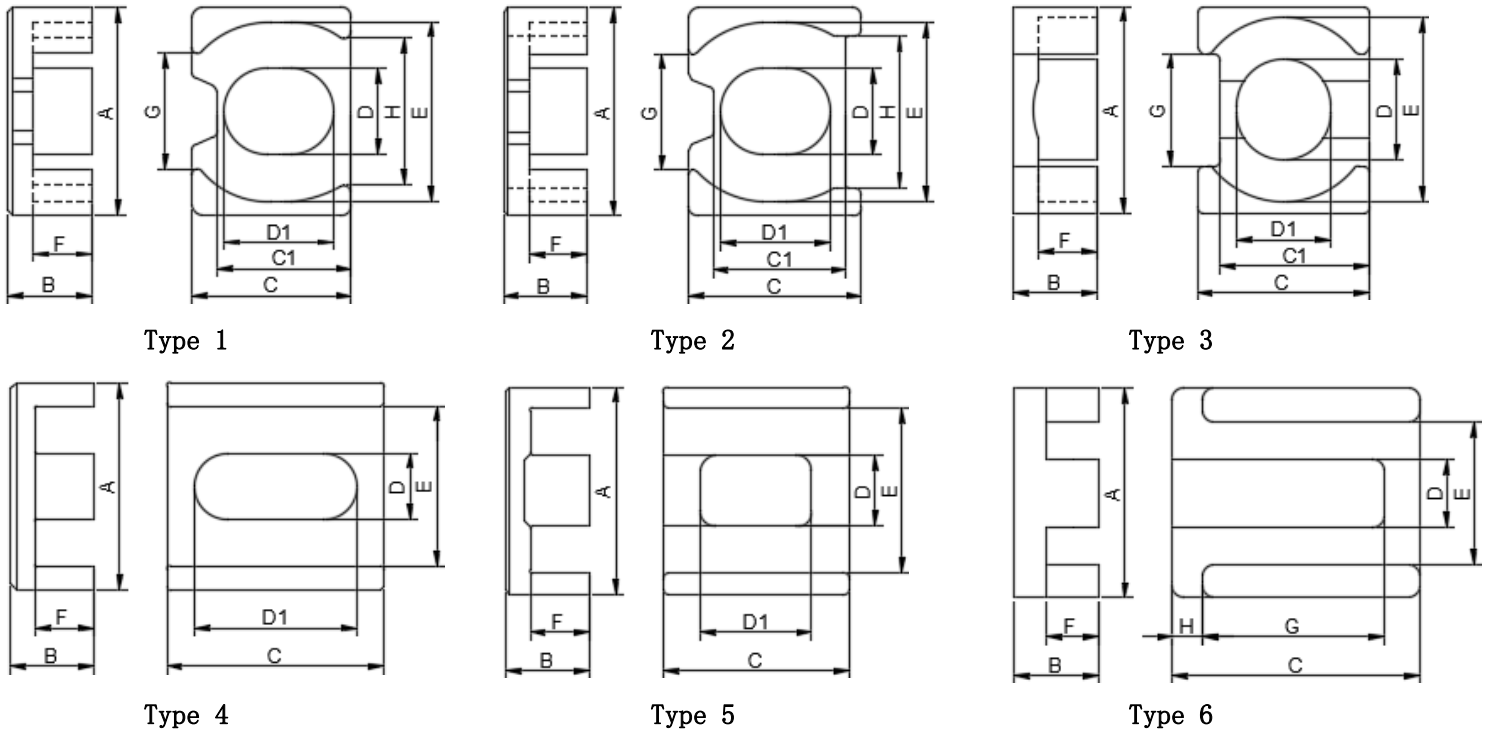
用途:

LED 变压器。

型号说明 (Naming of Core Models):



产品图例 (Shape Example):



品名	Type	尺寸(mm)									
		A	B	C	D	E	F	G	H	C1	D1
ED9.8/5.5	6	9.8±0.2	2.75±0.15	11.6±0.2	3.2±0.15	6.68±0.2	1.25±0.15	8.5±0.15	1.4±0.1	-	-
ED17/11	9	17.0±0.5	5.45±0.1	10.6±0.3	6.1±0.2	13.4±0.4	3.6±0.1	12.2±0.4	-	-	7.6±0.2
ED20/10	5	20.0±0.4	5.0±0.2	18.0±0.3	6.9±0.3	16.0±0.4	2.7±0.2	-	-	-	10.8±0.3
ED23/07	12	23.0±0.35	3.5±0.1	18.0±0.3	6.5±0.2	19.0±0.3	1.5±0.15	-	-	-	12.0±0.2
ED23.7/14.6	14	23.7±0.4	7.3±0.2	17.8±0.3	12.2±0.25	21.0±0.4	4.3±0.2	14.1±0.5	-	14.7±0.4	9.6±0.25

ED 型磁芯 ED CORES

Planar Type ED Core

Characteristics:

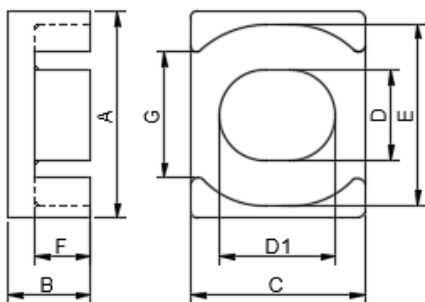
Suitable for making planar transformer.

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

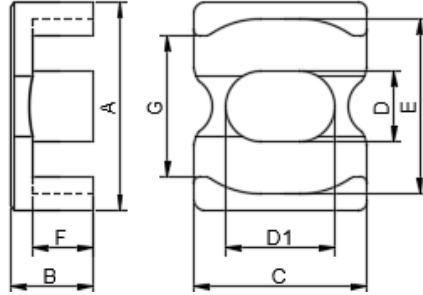
Usages:

LED converter

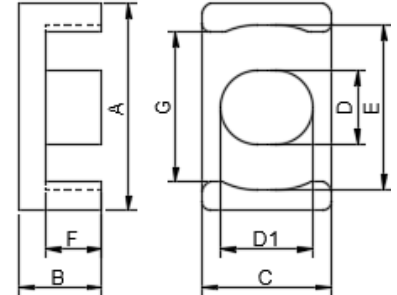
产品图例 (Shape Example) :



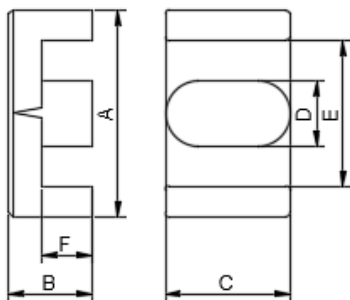
Type 7



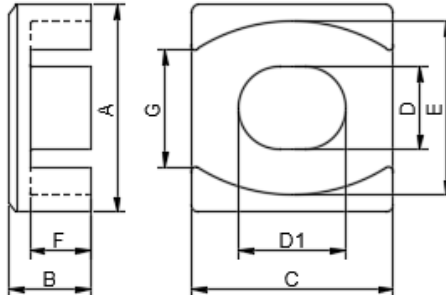
Type 8



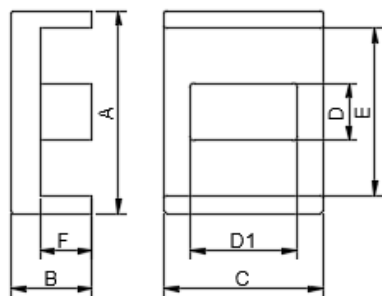
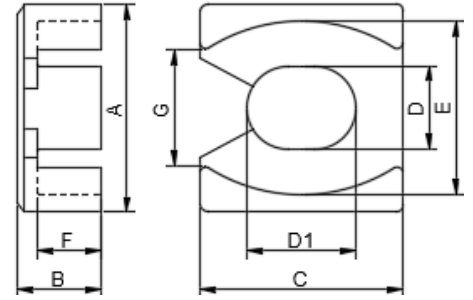
Type 9



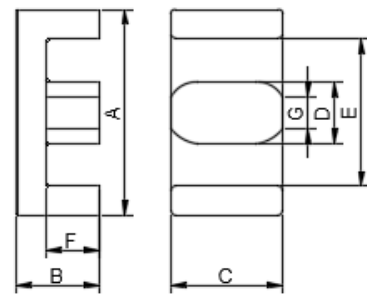
Type 10



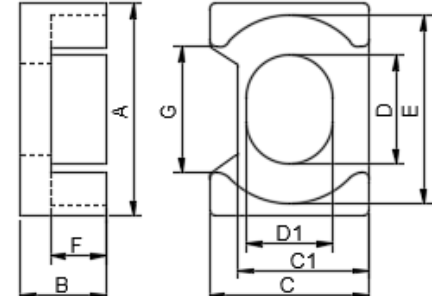
Type 11



Type 12



Type 13



Type 14

品名	磁芯参数				AL nH/N ²	
	Le (mm)	Ae (mm ²)	Ve (mm ³)	W (g/prs)	DP40	DP95
ED9.8/5.5	13.6	31.5	482.6	2.5	-	-
ED17/11	30.2	40.3	1217.0	6.0	3100	-
ED20/10	32.7	72.0	2356.2	11.3	-	5500
ED23/07	25.1	76.7	1932.4	10.0	-	4000
ED23.7/14.6	38.2	103.0	3934.6	18.9	5800	6600

ED 型磁芯 ED CORES

品名	Type	尺寸(mm)									
		A	B	C	D	E	F	G	H	C1	D1
ED24/11	3	24.0±0.5	5.6±0.15	20.0±0.5	11.6±0.25	21.2±0.5	3.1±0.15	13.0±0.5	-	17.4±0.4	10.8±0.25
ED24/17	3	24.0±0.5	8.55±0.15	20.0±0.5	11.6±0.25	21.2±0.5	6.05±0.15	13.0±0.5	-	17.4±0.4	10.8±0.25
ED24.5/8.8(V)	11	24.5±0.4	4.4±0.15	24.0±0.4	9.8±0.25	20.5±0.4	2.4±0.15	13.8±0.2	-	-	12.8±0.25
ED25/12	7	25.0±0.4	6.05±0.2	21.0±0.35	11.0±0.2	22.0±0.4	3.2±0.2	15.2±0.3	-	-	14.0±0.3
ED27/11.6	2	27.0±0.5	5.8±0.2	22.5±0.5	11.2±0.25	23.2±0.5	2.9±0.2	15.0±0.5	18.5min.	17.3±0.4	14.2±0.25
ED27/14.4	2	27.0±0.5	7.2±0.2	22.5±0.5	11.2±0.25	23.2±0.5	4.3±0.2	15.0±0.5	18.5min.	17.3±0.4	14.2±0.25
ED27/14.6C	1	27.0±0.5	7.3±0.2	20.65±0.5	11.2±0.25	23.2±0.5	4.4±0.2	15.0±0.5	19.0±0.5	17.43±0.5	14.2±0.25
ED27/16	2	27.0±0.5	8.0±0.15	22.5±0.5	11.2±0.25	23.2±0.5	5.1±0.15	15.0±0.5	19.5±0.5	17.3±0.4	14.2±0.25
ED27/18H	2	27.0±0.5	9.2±0.2	22.5±0.5	11.2±0.25	23.2±0.5	6.2±0.2	15.0±0.5	19.5±0.5	17.3±0.4	14.2±0.25
ED28/11	8	28.0±0.5	5.6±0.2	23.5±0.5	9.6±0.25	23.6±0.5	3.0±0.2	19.0±0.5	-	-	14.7±0.25
ED28.4/19.4	4	28.4±0.5	9.7±0.15	30.0±0.4	9.05±0.25	22.0±0.5	6.7±0.2	-	-	-	22.3±0.35
ED42/32	10	42.9±0.6	16.0±0.2	29.0±0.4	14.2±0.25	15.0±0.6	8.8±0.2	-	-	-	-
ED48/13	9	48.5±0.5	6.4±0.15	20.5±0.4	9.2±0.25	43.35±0.5	3.7±0.2	41.5±0.5	-	-	13.8±0.25
ED48/33	10	47.9±0.5	16.4±0.2	28.9±0.4	15.0±0.25	33.5±0.5	9.2±0.2	-	-	-	-
ED50/33	13	50.0±0.7	16.5±0.3	26.9±0.3	15.0±0.25	35.9±0.5	9.2±0.2	7.8±0.5	-	-	-

ED 型磁芯 ED CORES

品名	磁芯参数				AL nH/N ²	
	Le (mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
ED24/11	33.3	105.0	3498.5	17.4	5800	-
ED24/17	45.2	106.0	4791.2	23.0	5400	6600
ED24.5/8.8(V)	30.6	101.7	3113.2	17.3	-	-
ED25/12	35.4	124.0	4403.0	21.4	-	-
ED27/11.6	40.1	129.3	5194.9	21.1	7000	-
ED27/14.4	43.0	131.5	5655.0	25.8	6900	-
ED27/14.6C	39.6	124.0	4908.0	26.2	6500	-
ED27/16	47.5	129.3	6141.7	29.0	6500	7500
ED27/18H	55.4	129.3	7163.0	32.5	6000	-
ED28/11	34.9	124.0	4327.6	24.8	7500	9000
ED28.4/19.4	47.4	180.0	8532.0	48.8	8000	10000
ED42/32	72.1	398.0	29344.7	153.9	-	16000
ED48/13	62.1	110.6	6875.0	33.0	4000	-
ED48/33	77.2	418.0	32269.6	162.5	10000	16000
ED50/33	88.6	355.1	31457.4	156.0	-	13000

EP 型磁芯 EP CORES

常规类型 EP 磁芯

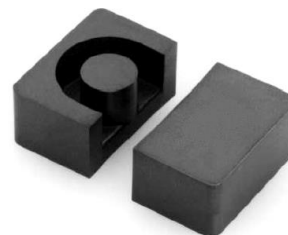
特点:

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。

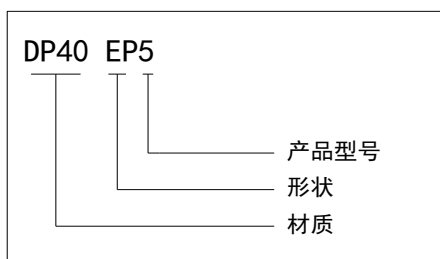
具有良好的屏蔽功能。

用途:

宽频带变压器，开关电源变压器，线圈等。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)						
		A	B	C	ΦD	D1	E	F
EP5.5A	1	7.65±0.15	3.95±0.05	5.4±0.1	2.8±0.1	-	6.05±0.15	2.47±0.1
EP7	1	9.2±0.2	3.75±0.15	6.35±0.15	3.3±0.1	-	7.4±0.2	2.65±0.15
EP7G	1	9.2±0.2	3.75±0.1	6.28±0.15	3.3±0.1	-	7.4±0.2	2.6±0.15
EP7LH	1	9.2±0.2	4.75±0.15	6.35±0.15	3.3±0.1	-	7.4±0.2	2.6±0.15
EP13	1	12.5±0.3	6.425±0.075	8.8±0.2	4.35±0.15	-	10.0±0.3	4.6±0.1
EP13B	1	12.5±0.4	6.5±0.15	8.8±0.2	4.3±0.2	-	9.9min.	4.75±0.15
EP13H	1	12.5±0.3	7.55±0.1	8.8±0.2	4.35±0.15	-	10.1±0.25	4.7±0.1
EP17	1	18.0±0.4	8.4±0.15	11.0±0.25	5.7±0.2	-	12.0±0.4	5.65±0.15
EP19/12	2	19.3±0.3	6.25±0.15	12.8±0.25	7.2±0.2	6.4±0.2	16.2min.	4.25±0.15
EP23/20	1	23±0.35	9.95±0.15	20.8±0.4	12.0±0.2	-	18.6±0.4	6.95±0.2

EP 型磁芯 EP CORES

Regular Type EP Core

Characteristic:

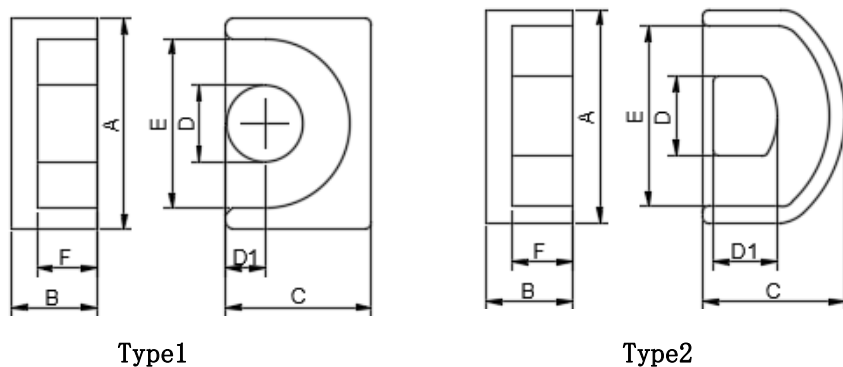
This core type is designed specially for high-dense mount and can effectively reduce the volume of transformers.

Superior electromagnetic shielding effect.

Usages:

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

产品图例 (Shape Example) :



Type1

Type2

品名	磁芯参数								AL				
	(mm-1)	(mm)	(mm ²)	(mm ³)	(mm ²)	(mm ²)	(mm ²)	W(g/prs)	nH/N ²				
	C1	Le	Ae	Ve	Ac	Amin.	Aw	W	DP40	DP44	DH07	DH10	DH15
EP5.5A	1.48	13.7	9.2	126.8	-	-	-	1.0	350	-	530	2000	2300
EP7	1.52	15.7	10.3	163.0	8.55	8.55C	10.7	1.3	1100	-	2000	5200	-
EP7G	1.52	15.7	10.0	160.0	8.55	8.55C	10.7	1.5	1200	-	2000	5200	-
EP7LH	1.28	21.3	10.3	220.4	-	-	-	1.0	1100	-	2000	5200	-
EP13	1.24	24.2	19.6	476.0	14.9	14.9C	26.0	4.8	1600	-	3000	7000	8500
EP13B	1.24	24.2	19.6	476.0	14.9	14.9C	26.0	4.8	1600	-	3000	7000	7800min.
EP13H	1.19	30.3	19.5	592.0	-	-	-	4.7	1600	-	3000	7000	7800min.
EP17	0.84	28.5	33.9	964.0	25.3	25.3C	35.7	11.8	2400	-	-	-	-
EP19/12	0.71	38.2	42.5	1625.0	-	-	-	9.0	-	2800	-	-	-
EP23/20	0.33	41.8	125.2	5238.2	-	-	-	34.0	5500	-	-	-	-

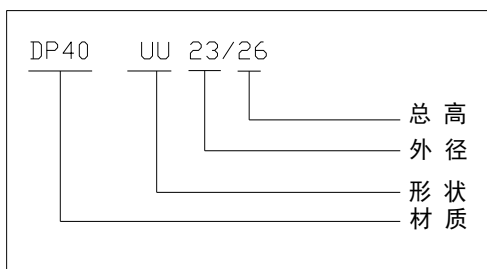
UU 型磁芯 UU CORES

UU 磁芯

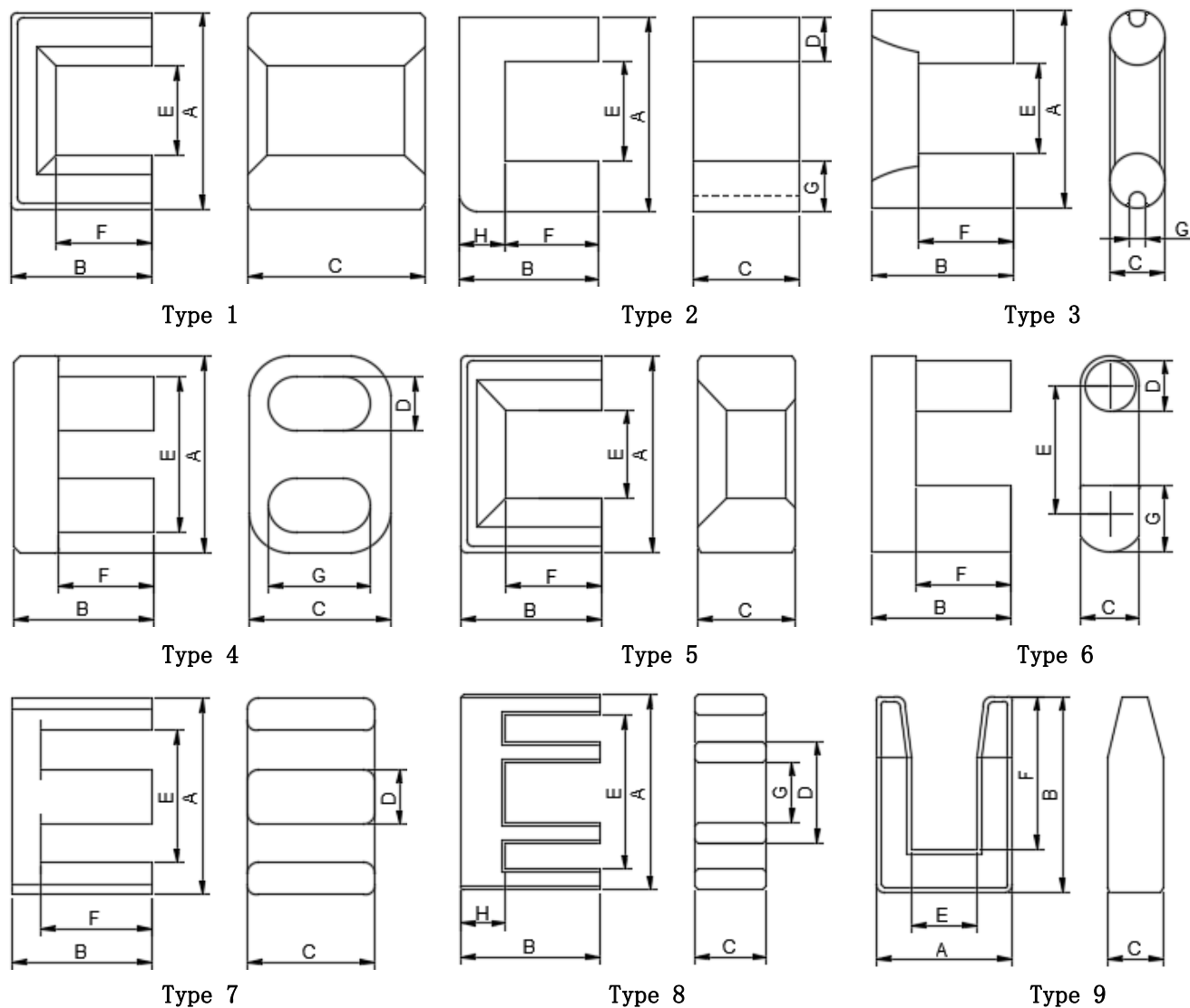
特点：根据客户需要可提供各种各样磁芯规格。

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(Naming of Core Models):



产品图例 (Shape Example) :



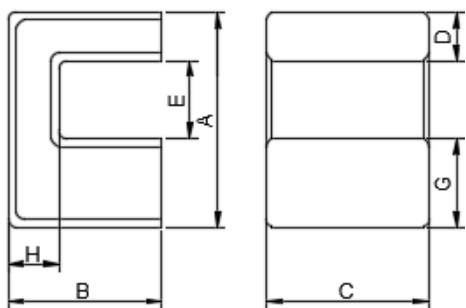
UU 型磁芯 UU CORES

UU Core

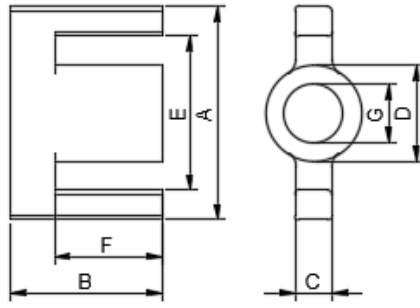
Characteristics: Varieties of core types are available according to customers' needs.

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

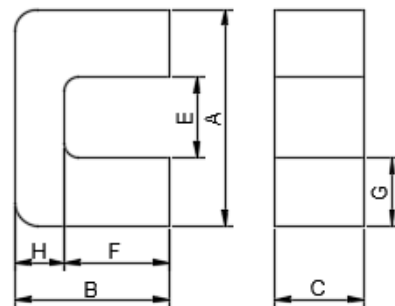
产品图例 (Shape Example) :



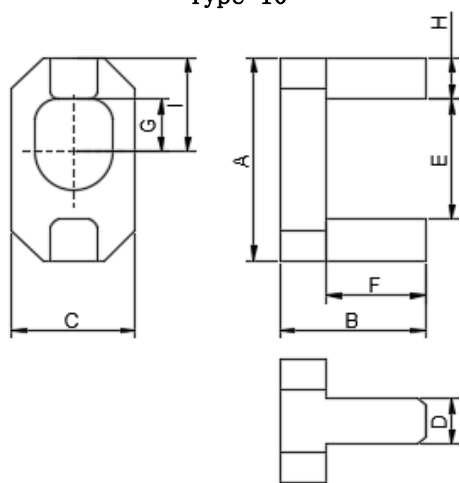
Type 10



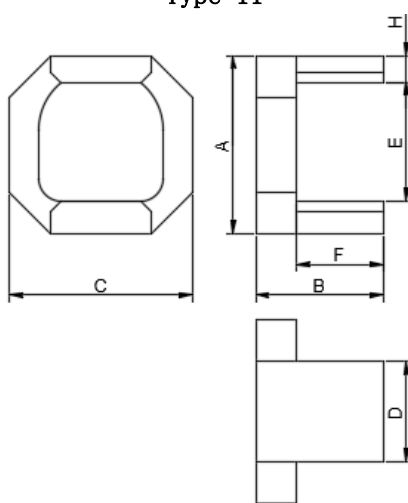
Type 11



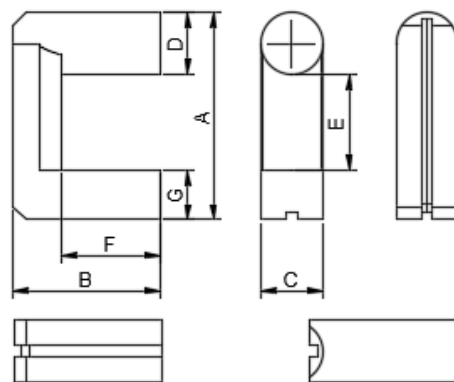
Type 12



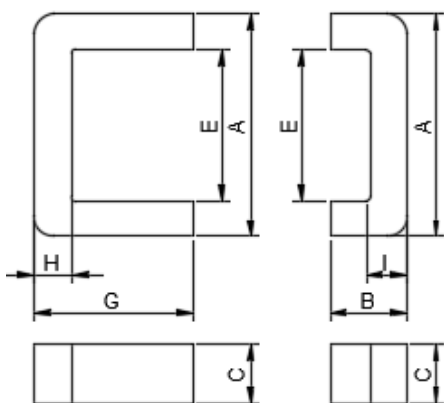
Type 13



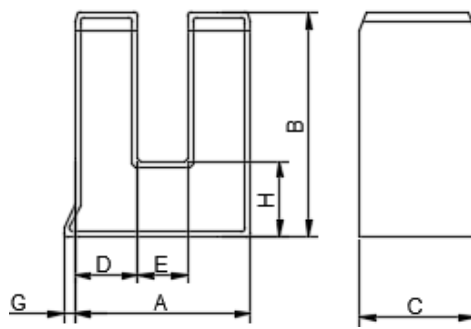
Type 14



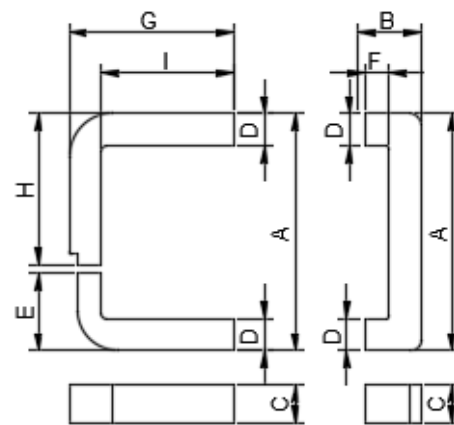
Type 15



Type 16



Type 17



Type 18

UU 型磁芯 UU CORES

品名	Type	尺寸(mm)								
		A	B	C	D	E	F	G	H	I
UU6/8.4	12	6.0±0.3	4.2±0.15	20.0±0.4	-	4.0±0.3	3.2±0.2	-	-	-
UU7/11	12	7.0±0.25	5.5±0.1	25.0±0.4	-	4.0±0.25	4.0±0.2	-	-	-
UU7.2/26	12	7.2±0.2	13.0±0.1	7.0±0.2	-	2.6±0.2	10.0±0.15	-	-	-
UU9.2/21	7	9.2±0.25	10.5±0.08	6.0±0.2	2.6±0.15	6.2±0.25	8.0±0.2	-	-	-
UU9.5/23.5	12	9.5±0.5	11.75±0.25	5.95±0.05	-	3.25±0.25	8.6±0.15	-	-	-
UU9.6/24.4	17	9.6ref.	12.2±0.15	6.2±0.15	3.45±0.15	2.75±0.15	-	0.6±0.1	4.1±0.1	-
UU9.6/27	9	9.6±0.15	13.5±0.08	4.0±0.15	-	4.5±0.15	10.5±0.12	-	-	-
UU9.7/24	12	9.7±0.25	12.0±0.1	6.4±0.15	-	2.5±0.25	8.0±0.15	3.6±0.1	-	-
UU10/30A	1	10.0±0.25	15.0±0.2	9.0±0.2	-	4.5±0.25	11.0±0.2	-	-	-
UU10/30B	5	10.0±0.25	15.0±0.2	5.0±0.2	-	4.5±0.25	11.0±0.2	-	-	-
UU10.7/26	14	10.7±0.25	13.0±0.1	11.0±0.25	6.0±0.2	7.1±0.25	10.0±0.15	-	1.6±0.1	-
UU13.2/26	13	13.2±0.2	13.0±0.1	8.0±0.2	3.0±0.15	7.8±0.2	10.0±0.15	3.4±0.2	2.7±0.1	6.1±0.2
UU13.3/40.6	10	13.3±0.25	20.3±0.15	10.0±0.2	3.0±0.15	4.8±0.25	-	5.5±0.15	5±0.15	-
UU14/18	12	14.0±0.25	8.95±0.15	6.95±0.15	-	8.55±0.25	-	-	6.45±0.1	-
UU14.5/26	11	14.5±0.3	13.0±0.15	2.5±0.2	6.5±0.2	10.5±0.3	10.0±0.2	4.0±0.15	-	-
UU15.5/22	8	15.5±0.25	11.0±0.1	3.9±0.2	6.6±0.25	11.6±0.25	-	2.6±0.25	3.0±0.2	-
UU16/20	12	16.0±0.3	10.0±0.1	8.0±0.2	-	7.0±0.25	6.0±0.15	-	-	-
UU16/26	12	16.5±0.4	13.2±0.25	11.2±0.3	-	7.3min.	8.7±0.25	-	-	-
UU18/20	12	18.0±0.3	10.0±0.2	6.0±0.2	-	8.7min.	6.5±0.2	-	-	-
UU19/22	8	18.9±0.25	11.0±0.1	6.0±0.2	9.9±0.25	14.9±0.25	8.8±0.2	5.9±0.25	-	-
UU19/22C	8	18.9±0.25	11.0±0.1	4.0±0.2	9.9±0.25	14.9±0.25	8.0±0.2	5.9±0.25	-	-
UU19/22H	8	18.9±0.25	11.0±0.1	4.9±0.2	9.9±0.25	14.9±0.25	8.0±0.2	5.9±0.25	-	-
UU19/23.6	8	18.9±0.25	11.8±0.1	6.0±0.2	9.9±0.25	14.9±0.25	8.8±0.2	5.9±0.25	-	-
UU20/28.2	12	20.25±0.3	14.4±0.1	10.8±0.2	-	10.6±0.25	9.65±0.15	-	-	-
UU23/26	12	23.1±0.4	13.0±0.2	6.3±0.2	-	10.5±0.3	6.7±0.2	6.3±0.15	-	-
UU25/14H	4	25.0±0.4	7.3±0.2	18.0±0.5	7.0±0.25	20.0±0.4	4.6±0.2	13±0.4	-	-
UU26.4/33.6	12	26.7±0.4	16.85±0.2	15.75±0.25	-	17.05±0.25	12.05±0.2	-	-	-
UU26.4/34.4	12	26.7±0.4	17.3±0.2	15.75±0.25	-	17.05±0.25	12.55±0.15	-	-	-
UU27/38	12	27.0±0.4	19.0±0.2	14.0±0.25	-	17.0±0.3	14.0±0.2	-	-	-
UU28.5/71	2	28.5±0.5	36.0±0.2	15.5±0.25	6.3±0.2	-	28.0±0.2	7.6±0.2	-	-
UU29/38	12	29.1±0.3	19.1±0.2	14.0±0.25	-	19.1±0.3	14.1±0.2	-	-	-
UU34/42	12	34.0±0.5	20.7±0.3	19.8±0.3	-	-	9.7±0.2	12.0±0.3	11.0±0.3	-
UU34/46F	6	-	23.0±0.1	10.3±0.2	10.0±0.2	22.35±0.3	17.5±0.2	11.5±0.2	-	-
UU34/58	12	34.0±0.5	29.0±0.3	19.8±0.3	-	-	18.0±0.2	12.0±0.3	11.0±0.3	-
UU39/34.6	12	39.0±0.5	17.3±0.2	11.4±0.25	-	25.15±0.45	10.3±0.2	-	-	-
UU40/52	12	40.0±0.7	26.0±0.25	16.0±0.3	-	25.0±0.4	18.6±0.25	-	-	-
UU41/51.2	12	41.0±0.5	25.6±0.2	15.0±0.3	-	27.1±0.4	18.6±0.2	-	-	-

UU 型磁芯 UU CORES

品名	磁芯参数					AL	
	(mm-1)	(mm)	(mm ²)	(mm ³)	W(g/prs)	nH/N ²	
	C1	Le	Ae	Ve	W	DP40	DP95
UU6/8.4	1.19	23.9	20.0	478.8		-	
UU7/11	0.76	28.7	37.5	1076.7	3.3	-	
UU7.2/26	3.18	53.1	16.7	888.7	4.5	-	
UU9.2/21	4.90	48.7	9.9	484.1	2.7	-	
UU9.5/23.5	2.66	51.0	19.1	977.3	4.7	-	1200
UU9.6/24.4	-	-	-	-	5.6	-	-
UU9.6/27	5.65	59.5	10.5	626.5	3.2	-	-
UU9.7/24	2.07	48.8	23.5	1151.3	6.0	-	1650
UU10/30A	2.37	62.5	26.3	1647.9	8.6	1000	-
UU10/30B	4.27	62.5	14.6	915.5	4.8	600	-
UU10.7/26	3.15	64.0	20.3	1301.0	6.8	-	-
UU13.2/26	2.89	64.4	22.2	1434.1	7.8	-	-
UU13.3/40.6	-	-	-	-	19.0	-	-
UU14/18	2.79	51.0	18.2	930.5	4.7	798	-
UU14.5/26	4.12	50.2	12.1	611.9	3.6	-	-
UU15.5/22	-	-	-	-	2.3	-	-
UU16/20	1.49	51.2	34.2	1753.0	10.1	-	-
UU16/26	1.42	63.1	50.4	3182.1	16.9	-	-
UU18/20	2.30	55.9	23.8	1330.4	7.0	1000	-
UU19/22	1.48	43.0	29.0	1250.2	4.2	-	-
UU19/22C	2.00	41.2	20.5	850.1	4.5	-	-
UU19/22H	1.63	41.2	25.2	1041.4	5.5	-	-
UU19/23.6	-	-	-	-	3.5	-	-
UU20/28.2	1.38	73.0	52.8	3858.5	20.0	-	-
UU23/26	1.70	67.5	39.6	2682.0	14.2	1600	-
UU25/14H	0.98	45.0	45.9	2065.0	19.0	-	-
UU26.4/33.6	1.28	96.7	76.9	7441.9	36.7	-	-
UU26.4/34.4	1.27	98.2	76.8	7547.7	38.5	-	-
UU27/38	1.51	105.7	70.0	7399.5	37.7	-	-
UU28.5/71	-	-	-	-	92.0	-	-
UU29/38	1.57	110.3	70.0	7721.5	39.4	-	-
UU34/42	0.42	94.6	228.6	21626.5	115.4	-	-
UU34/46F	-	-	-	-	49.2	1500	2300
UU34/58	0.50	127.9	231.2	29595.6	153.2	5400min.	-
UU39/34.6	1.42	105.7	70.0	7399.5	45.96	-	-
UU40/52	1.22	147.5	120.0	17707.4	90.4	-	-
UU41/51.2	1.43	150.3	105.0	15791.0	80.4	-	-

UU 型磁芯 UU CORES

品名	Type	尺寸(mm)								
		A	B	C	D	E	F	G	H	I
UU42/61	3	42.0±0.8	30.61±0.3	11.68±0.25	-	18.64±0.7	20.96±0.2	3.38±0.2	-	-
UU42/71	3	42.0±0.9	35.65±0.3	11.68±0.25	-	18.64±0.7	26.0±0.2	3.38±0.2	-	-
UU44/41	18	44.0±0.6	10.5±0.2	7.0±0.2	6.0±0.15	14.5ref.	4.5±0.25	30.5±0.2	28.0ref.	24.5±0.2
UU50/108	12	50.8±0.5	54.0±0.2	22.0±0.3	-	18.0±0.3	36.0±0.25	-	-	-
UU54/25	12	54.0±1.5	12.5±0.25	20.0±0.4	-	-	7.0±0.15	7.0±0.15	-	-
UU56/64	16	56.0±0.6	19.0±0.3	15.0±0.4	-	38.0±0.6	-	45.0±0.3	9.0±0.4	9.0±0.4
UU57/80.5/16.7	15	57.0±1.0	40.75±0.25	16.7±0.55	16.75±0.35	26.8±0.9	27.8±0.3	13.55±0.55	-	-
UU59/132	12	59.0±0.6	66.0±0.2	22.0±0.3	-	22.6±0.5	46.0±0.3	-	-	-
UU64/128	12	64.0±1.5	64.0±0.5	40.0±0.5	-	24.0ref.	44.0±0.5	20.0±0.5	-	-
UU70/73	16	70.0±0.7	17.9±0.3	15.0±0.4	-	52.0±0.7	-	54.9±0.3	9.0±0.4	9.0±0.4
UU80/170	12	80.0±1.5	85.0±0.5	40.0±0.5	-	40.0±1.5	65.0±0.5	-	-	-
UU82/25	12	81.75±1.5	12.5±0.25	20.0±0.4	-	-	-	7.0±0.2	7.0±0.15	-
UU93/152	12	93.0±2.0	76.0±0.5	30.0±0.5	-	36.7±1.5	48.0±0.5	-	-	-
UU96/159	12	96.0±2.0	79.25±0.75	29.5±0.6	-	35.0min.	49.25±0.75	-	-	-
UU105/156										
UU105/189	12	105.0±2.5	94.5±0.5	40.0±1.0	-	46.0±2.5	64.75±0.55	-	-	-
UU120/234	12	120.0±2.5	116.7±0.7	40.0±1.0	-	60.0±2.5	86.7±0.7	-	-	-
UU140/57	12	139.5±1.5	28.6±0.3	15.0±0.5	-	123.5±1.5	-	-	8.0±0.6	-
UU156	12	156.0±3.0	145.5±3	41.0±0.5	-	90.0±3.0	112.5±2.0	-	33.0ref.	-
UU160/320	12	160.0±4.0	160.0±0.5	40.0±0.5	-	-	120.0±0.7	40.0±0.5	-	-
UU182/68	12	182.0±2.0	34.0±0.3	15.0±0.5	-	164.0±2.0	-	-	9.0±0.7	-
UU265	12	265.0±3.5	120.0±1.5	200.0±1.5	-	105.0±2.0	-	80.5±1.5	80.5±0.7	-
UU290/425	12	290.0±2.5	130.0±1.5	239.5±1.5	-	130.0±2.0	50.0±1.5	80.0±1.5	80.0±0.7	-
UU290/470	12	290.0±2.5	125.0±1.5	279.5±1.5	-	130.0±2.0	45.0±1.5	80.0±1.5	80.0±0.7	-

UU 型磁芯 UU CORES

品名	磁芯参数					AL	
	(mm-1)	(mm)	(mm ²)	(mm ³)	W(g/prs)	nH/N ²	
	C1	Le	Ae	Ve	W	DP40	DP95
UU42/61	1.61	156.0	96.9	15116.0	68.0	-	2100
UU42/71	1.36	173.6	127.5	22146.3	89.9	1800	-
UU44/41	-	-	-	-	27.6	-	-
UU50/108	0.63	233.7	369.3	86349.7	220.0	-	4300min.
UU54/25	0.88	123.9	140.0	17358.6	87.4	-	3900
UU56/64	1.45	196.2	135.0	26497.0	134.9	-	-
UU57/80.5/16.7	-	207.9	240.6	50054.5	255.6	2800	-
UU59/132	0.70	288.8	409.6	118338.0	300.0	-	3850min.
UU64/128	0.35	304.0	800.0	243200.0	1294.7	-	-
UU70/73	1.79	241.8	135.0	32653.0	165.1	-	-
UU80/170	0.50	402.8	800.0	322265.5	1606.0	-	-
UU82/25	1.28	179.9	140.0	25198.7	124.9	-	-
UU93/152	0.43	430.9	998.9	430484.3	1519.0	-	-
UU96/159	0.41	364.2	876.4	319275.0	1624.0	-	-
UU105/189	0.37	444.0	1183.0	525369.4	1338.7	6300	-
UU105/156							
UU120/234	0.46	561.0	1200.0	673257.3	3325.2	5500	-
UU140/57	2.95	354.5	120.0	42543.9	208.1	-	-
UU156	0.54	733.6	1353.0	992659.0	2420.0	-	-
UU160/320	0.47	765.6	1600.0	1225062.0	3025.0	4800	
UU182/68	3.37	456.2	135.0	61597.0	300.0	-	-
UU265	0.03	621.0	16000.0	9941240.0	52990.0	-	-
UU290/425	0.03	711.0	19200.0	13657490.0	71885.0	-	-
UU290/470	0.03	691.0	22400.0	15485730.0	81715.0	-	-

KI 型磁芯 KI CORES

KI 磁芯

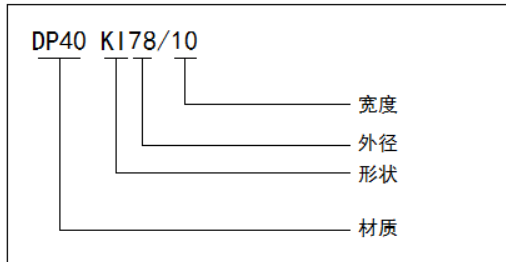
特点:

多种形状, 可以定制。

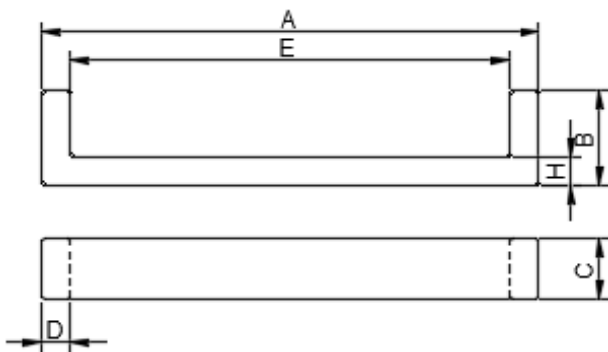
用途:

电饭煲、微波炉等。

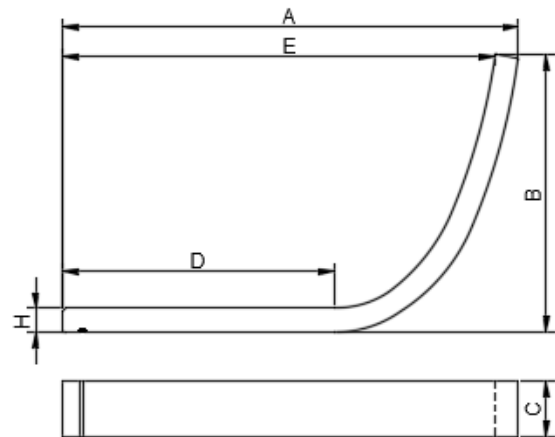
型号说明 (Naming of Core Models):



产品图例 (Shape Example):



Type 1



Type 2

品名	Type	尺寸(mm)					
		A	B	C	D	E	H
KI36/20	3	35.9±1.0	28.0±1.0	19.75±0.25	-	-	-
KI75/14	2	75.0±1.7	52.0±1.0	13.85±0.25	-	70.0±1.7	5.0±0.2
KI77/14	2	77.6±2.0	49.0±1.0	13.75±0.25	-	-	5.0±0.2
KI78/10	4	78.2±2.5	34.4±2.5	10.0±0.5	-	-	5.0±0.5
KI82/10	4	82.0±2.5	30.8±2.0	10.0±0.5	-	-	5.0±0.5
KI91/10	4	90.6±2.5	42.2±2.5	10.0±0.5	-	-	5.0±0.5
KI92/14	2	92.1±2.0	58.3±1.0	13.85±0.3	-	88.1±2.0	5.0±0.2
KI78.2/13.2	1	78.2±0.7	14.8±0.2	13.2±0.2	4.5±0.2	69.2±0.7	4.5±0.2
KI95/14	2	95.3±3.0	58.0±1.0	14.2±0.3	56.8±3.0	90.4±3.0	5.0±0.2

KI 型磁芯 KI CORES

KI core

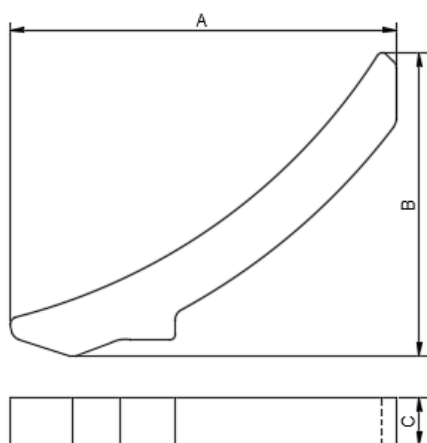
Characteristic:

Various models for selection.

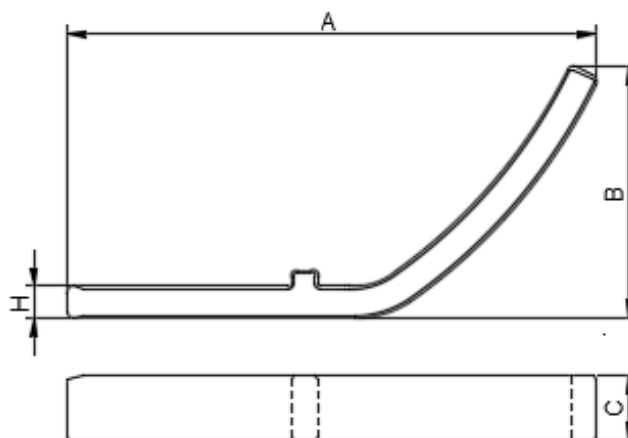
Usages:

Cookers、Microwave ovens and so on.

产品图例 (Shape Example) :



Type 3



Type 4

品名	磁芯参数					AL	
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²	
	C1	Le	Ae	Ve	W	DP40	DP95
KI36/20	-	-	-	-	21.0	-	-
KI75/14	-	-	-	-	32.5	-	-
KI77/14	-	-	-	-	33.6	-	-
KI78/10	-	-	-	-	24.0	-	-
KI82/10	-	-	-	-	23.7	-	-
KI91/10	-	-	-	-	28.0	-	-
KI92/14	-	-	-	-	38.6	-	-
KI78.2/13.2	-	-	-	-	28.4	-	-
KI95/14	-	-	-	-	43.6	-	-

EDR 型磁芯 EDR CORES

平面型 EDR 磁芯

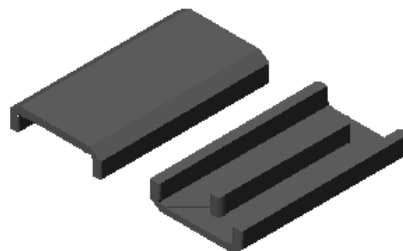
特点:

适合于变压器的平面化。

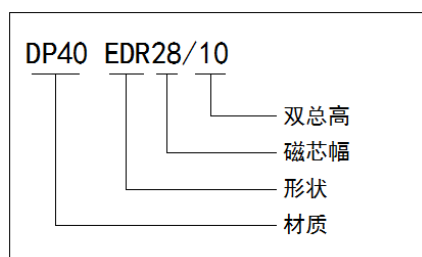
根据客户要求可提供各种各样磁芯规格。

用途:

LED 变压器。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)						
		A	B	C	D	E	F	D1
EDR10/28/11	3	10.0±0.3	5.5±0.1	28.0±0.5	2.0±0.1	7.0±0.3	-	1.5±0.15
EDR25/07	2	13.5±0.4	3.4±0.1	25.0±0.5	2.0±0.1	10.7±0.3	2.0±0.15	20.0±0.25
EDR28/9.8P	1	13.5±0.45	4.6±0.1	28.0±0.5	3.3±0.25	10.0min.	3.02±0.17	25.2±0.4
EDR28/10	2	13.7±0.6	5.0±0.25	28.0±0.6	3.0±0.3	10.4min.	3.2±0.25	24.5±0.35
EDR28/14	2	13.7±0.4	7.0±0.25	28.0±0.5	3.0±0.3	10.4min.	5.4±0.25	24.3±0.4
EDR39/10	2	13.45±0.4	5.0±0.25	39.0±0.6	2.75±0.25	10.4min.	3.2±0.25	34.7±0.4

EDR 型磁芯 EDR CORES

Planar Type EDR Core

Characteristics:

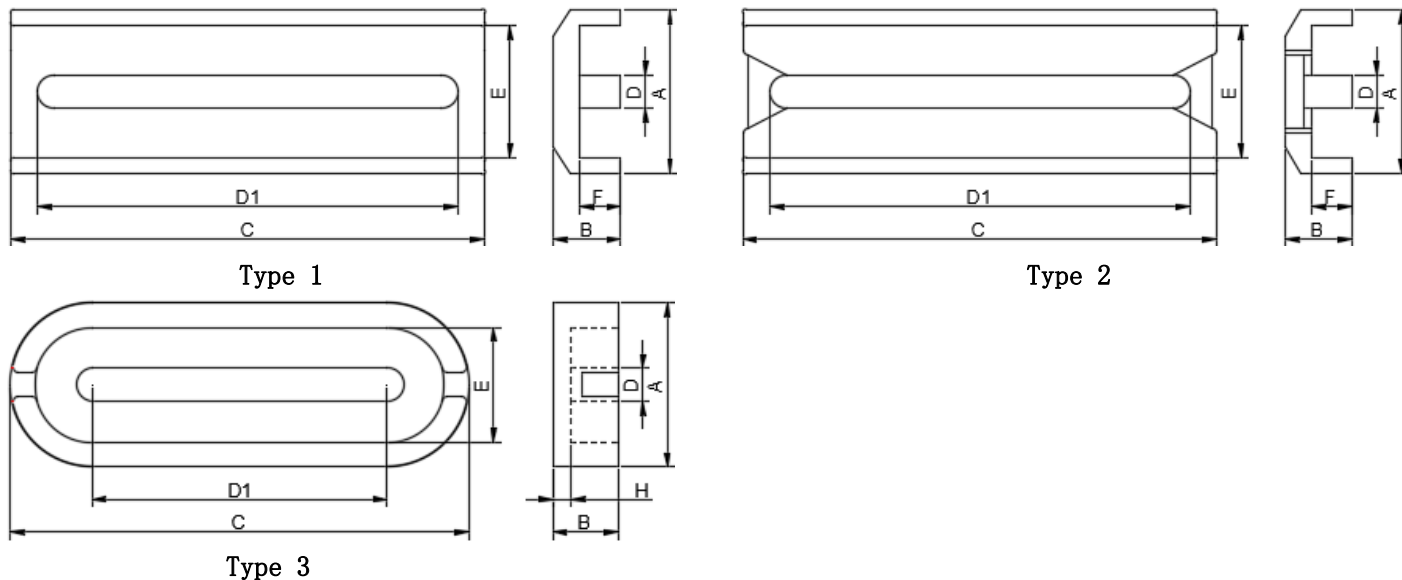
Suitable for making planar transformer.

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

Usages:

LED converter

产品图例 (Shape Example) :



品名	磁芯参数				AL nH/N ²	
	Le (mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	DP40	DP95
EDR10/28/11	-	-	-	9.6	-	-
EDR25/07	23.2	56.3	1310.0	6.2	-	5000
EDR28/9.8P	26.7	77.0	2060.0	10.4	-	5500
EDR28/10	24.2	78.9	1917.8	9.6	6200	-
EDR28/14	24.2	76.0	1917.8	15.4	-	5500
EDR39/10	25.0	85.0	2125.0	13.9	-	8000

EI 型磁芯 EI CORES

EI 磁芯

特点:

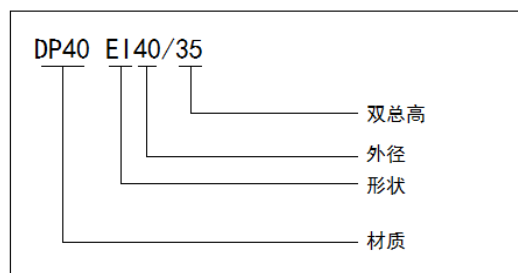
适合于变压器的平面化。

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 (Naming of Core Models):



品名	Type	尺寸(mm)								
		A/A1	B	C/C1	D	E	F	G	H	I
EI10.4/7.2	2	10.45±0.15	5.1±0.1	9.0±0.15	4.4±0.15	6.15±0.15	3.0±0.15	8.35±0.15	8.15±0.15	2.1±0.1
EI13.7/12/3.1	5	13.7±0.2	1.55±0.1	12.0±0.2	3.4±0.1	10.3±0.2	0.65±0.1	8.6±0.15	0.9±0.1	1.55±0.1
EI13.8/7	3	13.8±0.2	4.1±0.1	8.8±0.2	3.05±0.1	-	2.8±0.15	4.4±0.1	0.975±0.1	2.9±0.1
EI14.5/3.4	5	11.0±0.2	1.95±0.1	14.45±0.2	1.4±0.1	8.2±0.15	0.55±0.1	10.5typ.	1.175±0.1	1.425±0.1
EI16.4/8.2	3	16.4±0.2	4.7±0.1	10.0±0.2	5.66±0.12	-	1.0±0.1	4.4±0.1	0.97±0.1	3.5±0.1
EI21.8/8.6	4	21.8±0.4	5.7±0.1	15.8±0.3	5.0±0.1	16.8±0.4	3.2±0.1	3.2±0.2	0.4±0.1	2.9±0.05
EI22/19	1	22.2±0.4	14.9±0.3	5.75±0.25	5.75±0.25	16.1min.	10.9±0.2	-	-	4.0±0.2
EI28/20	1	28.0±0.5	16.75±0.25	10.6±0.2	7.25±0.25	18.6min.	12.3±0.2	-	-	3.5±0.2
EI33/29	1	33.0±0.5	23.95±0.25	12.7±0.3	9.7±0.3	24.0min.	19.45±0.25	-	-	5.0±0.3

EI 型磁芯 EI CORES

EI Core

Characteristics:

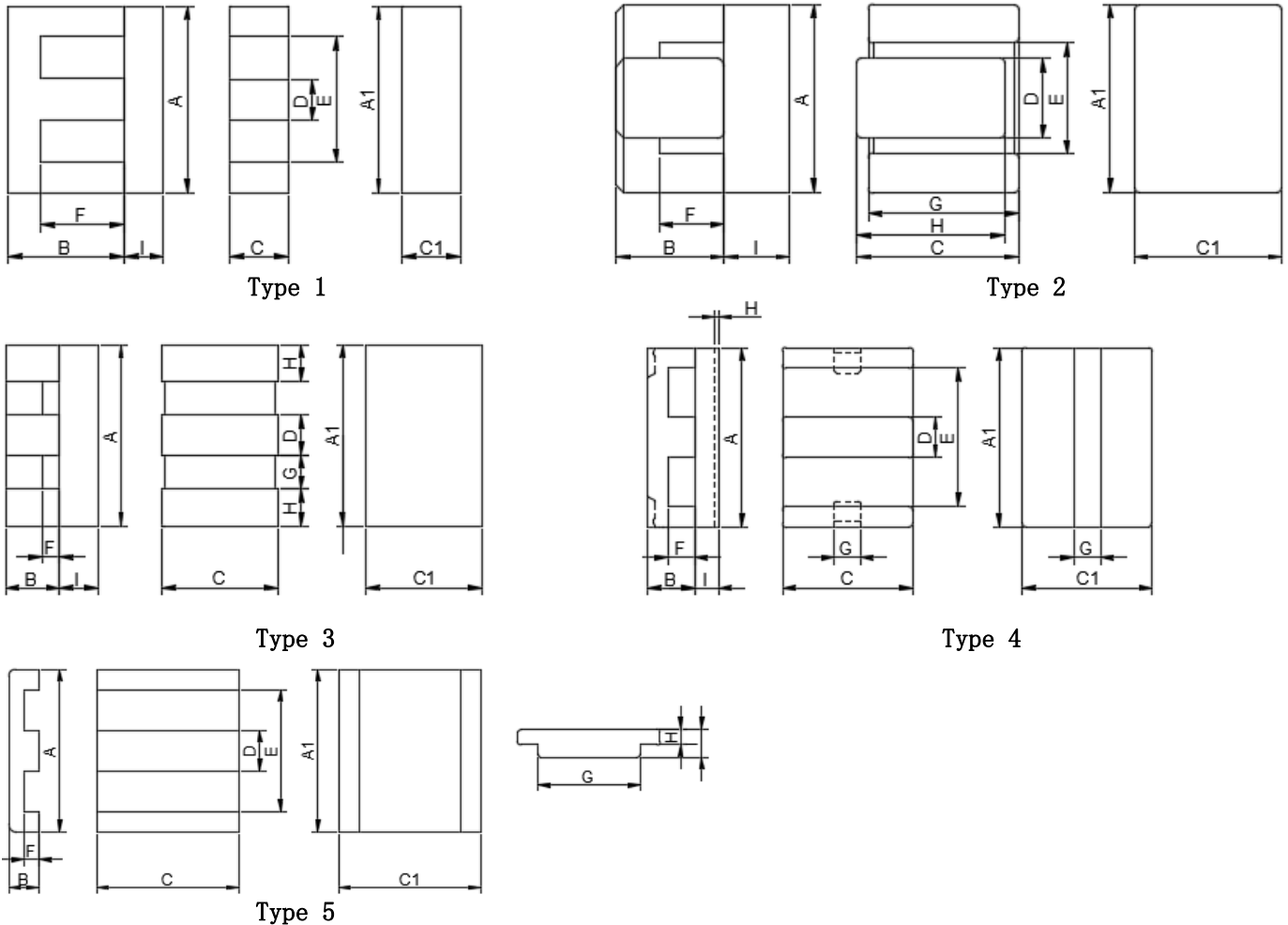
Suitable for making planar transformer.

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

Usages:

DC-DC converter

产品图例 (Shape Example) :



品名	磁芯参数				AL (nH/N ²)
	Le(mm)	Ae(mm ²)	Ve(mm ³)	W(g/prs)	
EI10.4/7.2	14.5	36.0	525.7	2.9	2800
EI13.7/12/3.1	-	-	-	2.0	-
EI13.8/7	15.5	32.3	503.8	3.5	-
EI14.5/3.4	10.4	38.3	401.3	2.3	-
EI16.4/8.2	15.9	45.7	731.2	6.0	-
EI21.8/8.6	26.2	78	2043.6	11.1	7360
EI22/19	42.5	37.0	1570.0	8.1	1800
EI28/20	48.8	83.8	4089.0	23.8	3700
EI33/29	67.5	118.0	7965.0	41.0	4000

RH 型磁芯 RH CORES

常规类型 RH 磁芯

特点:

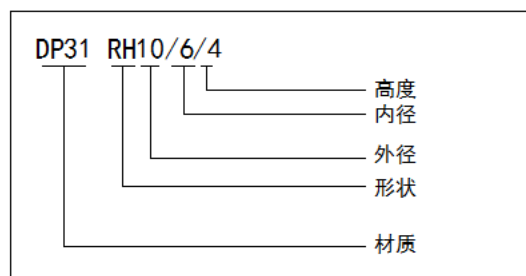
磁芯长度比较长

阻抗特性优秀

用途:

线性滤波器, 脉冲变压器, 扼流圈等。

型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)			
		ΦA	ΦB	C	D
RH10.4/9.4/7	3	10.4±0.3	7.5±0.3	7.0±0.3	9.4±0.3
RH12/5/12.7	1	12.3±0.4	5.075±0.125	12.7±0.4	-
RH12/5/25.4	1	12.3±0.4	5.075±0.125	25.4±0.75	-
RH14/6/28.6	1	14.3±0.45	6.35±0.25	28.6±0.75	-
RH15.9/7.9/28.6	1	15.9±0.45	7.9±0.3	28.6±0.75	-
RH15.9/7/28	1	16.0±0.5	7.0±0.3	28.0±0.7	-
RH15.9/8.3/27.5	2	16.0±0.5	8.3±0.4	27.5±0.5	4.4±0.4
RH17.45/9.5/28.6	1	17.45±0.4	9.5±0.25	28.6±0.75	-
RH18.7/10.1/28.6	1	18.7±0.5	10.15±0.4	28.58±0.53	-
RH26/13/28.6	1	25.9±0.75	12.8±0.25	28.6±0.8	-
RH51/25/38	1	50.8±1.3	25.4±0.8	38.1±0.75	-
RH54/36.5/35	1	54.0±1.0	36.5±0.9	35.0±0.65	-

RH 型磁芯 RH CORES

Regular type RH core

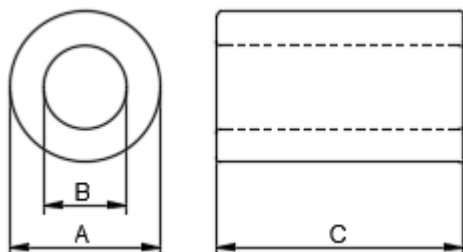
Characteristics:

With a long length

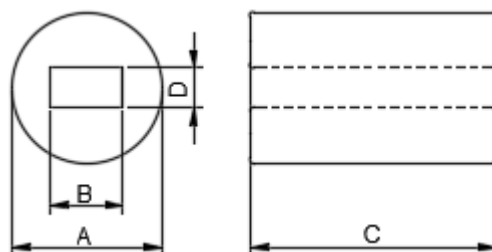
Excellent impedance characteristics

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

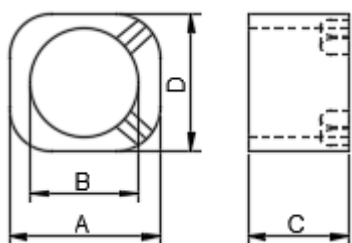
产品图例(Shape Example):



Type 1



Type 2



Type 3

品名	磁芯参数					AL			
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²			
	C1	Le	Ae	Ve	W	DH31	DP40	DH05	DH07
RH10.4/9.4/7	-	-	-	-	1.5	-	-	-	-
RH12/5/12.7	0.55	24.0	43.0	1033.0	6.0	-	-	-	-
RH12/5/25.4	0.27	24.0	86.0	2066.0	12.0	-	-	-	-
RH14/6/28.6	0.27	29.1	108.0	3136.0	6.0	-	-	25500	-
RH15.9/7.9/28.6	0.31	34.4	109.5	3778.8	20.0	-	-	22250	-
RH15.9/7/28	0.27	32.3	119.0	3848.0	21.4	-	-	-	-
RH15.9/8.3/27.5	-	-	-	-	21.5	-	-	-	-
RH17.45/9.5/28.6	0.36	39.8	110.0	4391.0	23.0	-	-	19000	-
RH18.7/10.1/28.6	0.36	42.5	118.0	5023.0	26.4	-	-	19150	-
RH26/13/28.6	0.31	56.0	180.0	10072.0	56.6	-	-	23000	-
RH51/25/38	0.23	111.0	465.0	51432.0	277.0	-	-	-	-
RH54/36.5/35	0.45	138.5	302.3	41903.6	207.0	-	-	-	-

EPD 型磁芯 EPD CORES

EPD 磁芯

特点:

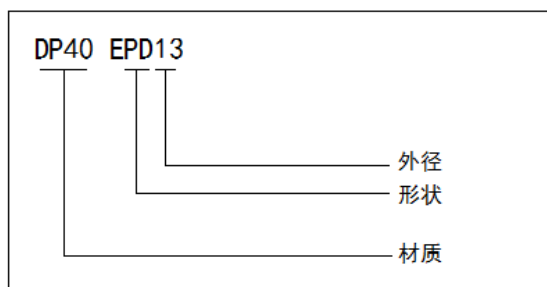
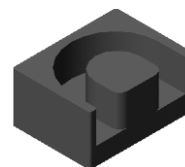
为高密度安装而设计的磁芯形状, 可有效减小变压器的体积。

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 (Naming of Core Models):



品名	Type	尺寸(mm)							
		A	B	C	C1	D	D1	E	F
EPD5.5S	1	7.6±0.2	3.56±0.15	5.9±0.2	-	3.0±0.15	3.5±0.15	6.0±0.2	2.44±0.15
EPD12.9	1	12.9±0.3	6.35±0.15	9.6±0.2	8.6±0.2	4.9±0.2	5.3±0.2	10.7±0.3	4.6±0.2
EPD13	2	13.1±0.3	7.5±0.1	9.8±0.2	-	5.6±0.15	-	11.1±0.2	4.85±0.1
EPD13S	3	13.4±0.3	7.5±0.1	9.4±0.2	-	5.6±0.15	-	11.6±0.2	4.85±0.1

EPD 型磁芯 EPD CORES

Regular Type EPD Core

Characteristic:

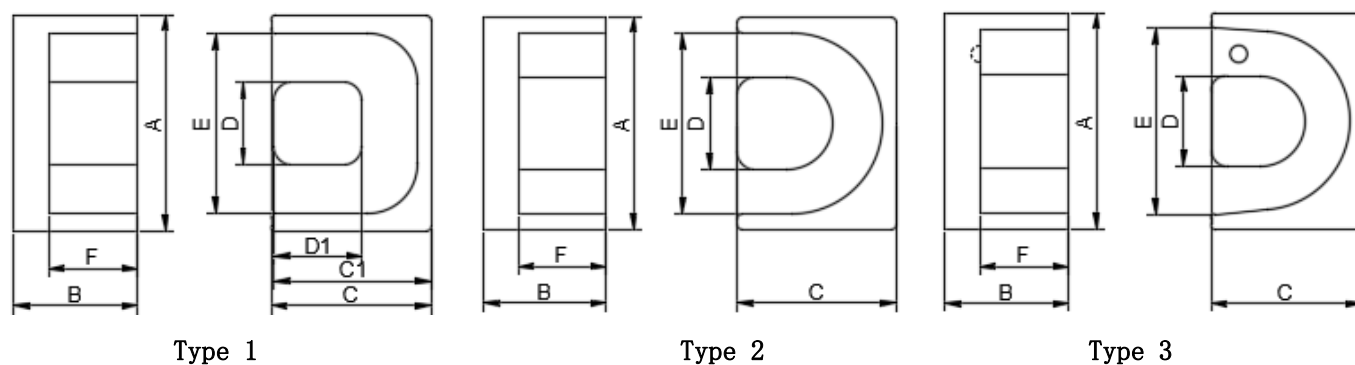
This core type is designed specially for high-dense mount and can effectively reduce the volume of transformers.

Superior electromagnetic shielding effect.

Usages:

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

产品图例 (Shape Example) :



品名	磁芯参数								AL				
	(mm-1)	(mm)	(mm ²)	(mm ³)	(mm ²)	(mm ²)	(mm ²)	(g/prs)	nH/N ²				
	C1	Le	Ae	Ve	Ac	Amin.	Aw	W	DP40	DP44	DP95	DH07	DH10
EPD5.5S	1.61	14.7	9.13	134.7	-	-	-	1.0	350	-	-	530	2000
EPD12.9	1.45	37.7	25.9	977.0	-	-	-	4.7	1700	1750	2300	-	-
EPD13	0.88	28.5	33.5	957.8	-	-	-	6.7	2300	-	2600	-	-
EPD13S	-	33.5	28.5	957.8	-	-	-	6.7	-	-	2500	-	-

POT 型磁芯 POT CORES

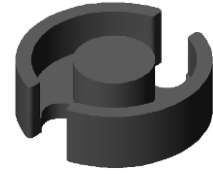
常规类型 POT 磁芯

特点:

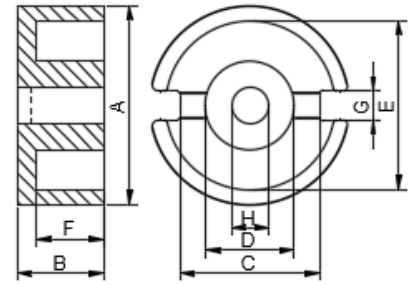
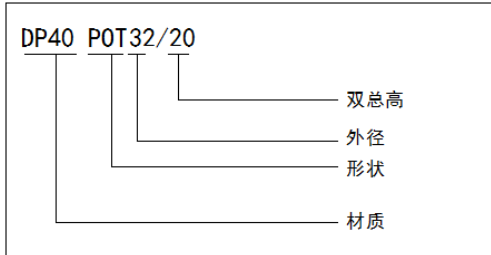
为高密度安装而设计的磁芯形状，可有效减小变压器的体积。
具有良好的屏蔽功能。

用途:

宽频带变压器，开关电源变压器，线圈等。

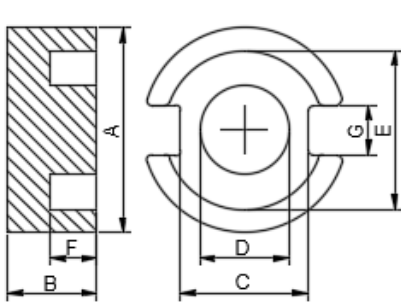


型号说明 (Naming of Core Models):

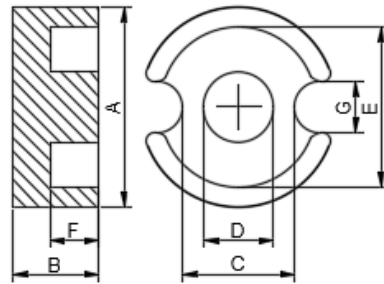


Type 4

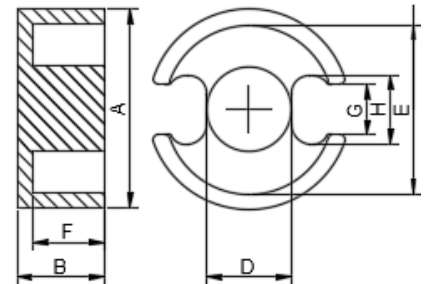
产品图例 (Shape Example):



Type 1



Type 2



Type 3

品名	Type	尺寸(mm)							
		ΦA	B	C	ΦD	ΦE	F	G	H
POT3.8/3.4	5	3.8±0.1	1.7±0.1	-	1.4±0.1	2.8±0.1	0.9±0.1	1.1±0.1	0.76±0.05
POT5.35/6.4	2	5.35±0.15	3.2±0.1	3.05±0.15	1.9±0.1	4.25±0.15	2.5±0.1	1.34±0.15	-
POT5.8/10	1	5.8±0.2	5.0±0.15	3.6±0.2	2.5±0.15	4.5±0.2	3.8±0.15	1.4±0.2	-
POT12/2.4	9	12.0±0.3	1.2±0.2	-	3.9±0.2	9.0±0.25	0.2±0.15	-	-
POT12/27.4	10	12.0±0.35	13.7±0.3	-	2.9±0.2	9.0±0.35	12.2±0.15	0.5±0.2	0.5±0.25
POT14/8.3	4	14.0±0.2	4.18±0.1	9.8ref.	5.85±0.15	11.85±0.25	2.9±0.15	3.4ref.	3.1±0.1
POT14/8.4Z	3	14.0±0.25	4.4±0.2	-	5.85±0.2	11.75±0.25	3.1±0.2	3.5±0.25	4.8±0.25
POT30/18.8	4	30.0±0.5	9.4±0.2	20.6min.	13.3±0.2	25.0min.	6.6±0.2	3.68min.	5.6±0.2
POT36/23/5.3	6	36.0±0.5	5.3±0.15	33.0±0.5	26.0±0.45	23.0±0.45	3.6±0.25	3.0±0.3	-
POT55.6/10.3	8	55.6±0.6	5.15±0.1	2.0ref.	-	38.6±0.6	3.65±0.25	4.0ref.	4.5±0.3
POT56/21/4	7	56.5±0.7	3.95±0.1	47.5±0.7	29.0±0.7	21.0±0.7	2.05±0.1	6.6ref.	-
POT77/52/2.3	7	77.5±0.8	2.35±0.1	71.5±0.8	58.5±0.8	52.5±0.8	1.35min.	6.5ref.	-

POT 型磁芯 POT CORES

Regular Type POT Core

Characteristic:

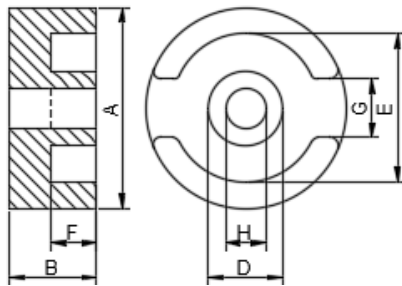
This core type is designed specially for high-dense mount and can effectively reduce the volume of transformers.

Superior electromagnetic shielding effect.

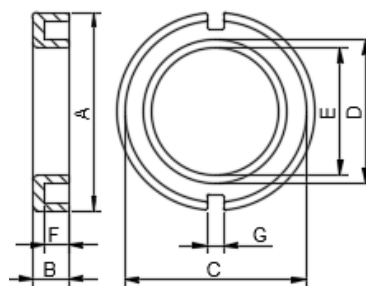
Usages:

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

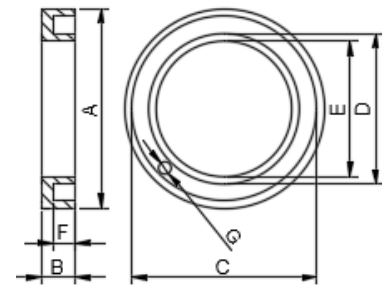
产品图例 (Shape Example) :



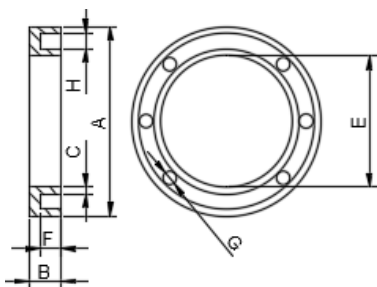
Type 5



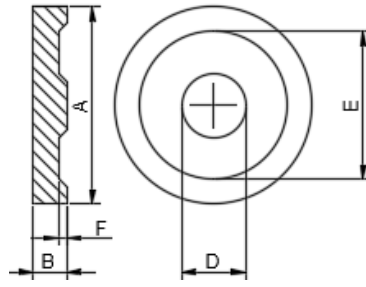
Type 6



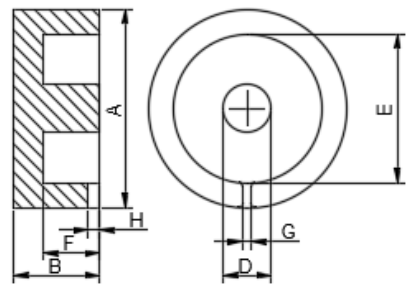
Type 7



Type 8



Type 9



Type 10

品名	磁芯参数					AL
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/prs)	nH/N ²
	C1	Le	Ae	Ve	W	DP40
POT3.8/3.4	3.05	4.71	1.5	7.2	0.07	-
POT5.35/6.4	3.54	12.9	3.6	46.4	0.4	450
POT5.8/10	2.74	17.3	6.3	109.8	0.4	-
POT12/2.4	-	-	-	-	0.7	-
POT12/27.4	-	-	-	-	4.5	-
POT14/8.3	1.13	19.3	17.1	330.0	3.1	1850
POT14/8.4Z	0.98	20.3	20.7	423.0	3.4	1850
POT30/18.8	3.56	4.5	1.2	5.7	35.7	5700
POT36/23/5.3	-	-	-	-	9.4	-
POT55.6/10.3	-	-	-	-	21.0	-
POT56/21/4	1.6	103.5	64.6	6693.2	41.4	-
POT77/52/2.3	6.95	197.5	28.3	5606.3	27.9	-

W 型磁芯 W CORES

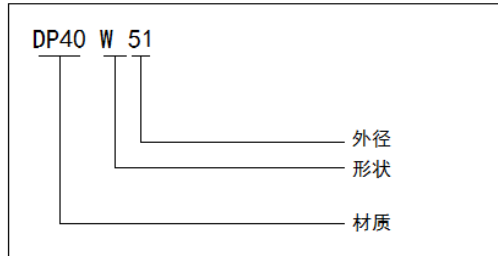
W 磁芯

特点:薄片，厚度可以定制。

高导磁率，低损耗，具有良好的屏蔽功能。

用途: 无线充电。

型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)									
		ΦA	B	C	D	ΦE	F	G	H	I	J
W16/2.5	6	16.0±0.2	2.5±0.2	-	-	14.0±0.2	-	2.0±0.2	1.5±0.2	1.44±0.2	-
W16/3.0	5	16.0±0.2	3.0±0.2	-	-	14.0±0.2	1.0±0.2	2.0±0.2	-	-	-
W25/6.2	20	24.46±0.5	2.35±0.1	6.2±0.3	-	-	-	-	-	-	-
W40/25/8	16	39.5±0.4	8.0±0.1	25.0±0.3	-	-	-	-	-	-	-
W40/40/10	16	39.5±0.4	10.0±0.1	39.5±0.4	-	-	-	-	-	-	-
W42	7	42.0±0.6	3.0±0.15	-	-	39.0±0.6	1.0±0.1	2.5ref.	-	-	-
W45/5.3/30	4	45.0±0.5	30.0min.	-	-	5.3±0.15	-	-	-	-	-
W48/2.8	8	48.6±0.5	2.8±0.15	-	35.0±0.5	41.7±0.5	1.0ref.	2.4±0.3	1.2ref.	31.0±0.5	-
W50	3	49.7±0.3	30.0min.	3.0±0.3	4.5±0.3	5.5±0.2	8.0±0.3	3.0±0.3	3.0±0.3	3.0±0.3	6.0±0.3
W50/50/20	13	50.0±0.4	20.0min.	50.0±0.4	6.5±0.3	8.5±0.3	6.4±0.3	2.0±0.3	6.4±0.3	3.0±0.3	-
W51	12	24.9±0.5	1.0±0.15	-	2.0±0.15	8.2±0.2	-	4.9±0.2	1.0±0.15	4.9±0.2	-
W53/53R	16	53.0±0.5	2.5±0.1	53.0±0.5	-	-	-	-	-	-	-
W56	11	56.0±0.6	2.0±0.15	43.23±0.4	4.6±0.15	13.9±0.25	-	3.0±0.4	7.0±0.4	17.95ref.	-
W63.2/41.2/3.5	16	63.2±0.7	3.5±0.15	41.2±0.6	-	-	-	-	-	-	-
W66.7/60	16	66.7±0.7	35.0max.	60.0±0.7	-	-	-	-	-	-	-
W70/18	9	70.0±0.8	8.8±0.2	-	29.5±0.4	65.0±0.8	2.5±0.25	11.0±0.4	-	-	-
W74	15	72.0±0.7	30.0min.	64.0±0.6	-	30.5±0.3	-	3.0±0.2	13.82±0.2	27.0±0.3	-
W80/52.5	16	81.4±0.9	20.0min.	53.9±0.9	-	-	-	-	-	-	-
W92	17	91.9±0.75	21.0±0.3	59.4±0.5	-	14.5±0.3	-	-	-	-	-
W99/30	18	99.0±1.0	30.0min.	55.6±0.6	-	-	-	-	-	-	-
W100/100/6	19	99.95±0.2	6.7±0.1	99.95±0.2	-	10.0±0.2	-	-	-	-	-
W110	14	110.0±1.0	20.0min.	100.0±1.0	9.0±0.2	6.0±0.2	-	9.0±0.2	-	6.0±0.2	-
W123/50	21	122.5±0.8	20.0min.	50.0±0.4	-	-	-	-	-	-	-
W128.5/20	10	128.5±1.0	20.0min.	-	65.0±0.5	-	-	4.0±0.2	-	-	-
W132.7/20	2	132.7±0.8	20.0min.	-	-	-	-	5.0±0.5	-	8.0±0.5	-
W140	1	140.0±1.0	20.0min.	-	-	-	-	-	-	-	-
W150/100/5	16	150.0±0.3	5.0±0.1	100.0±0.2	-	-	-	-	-	-	-
W157	16	157.2±1.5	20.0min.	41.4±0.6	-	-	-	-	-	-	-
W162	16	162.0±1.5	20.0min.	41.4±0.6	-	-	-	-	-	-	-

W 型磁芯 W CORES

W core

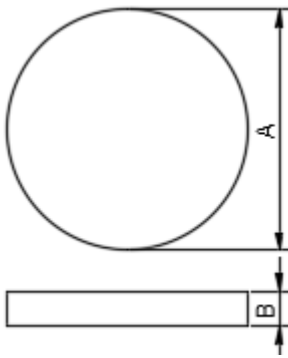
Characteristic:

Slices, customizable.

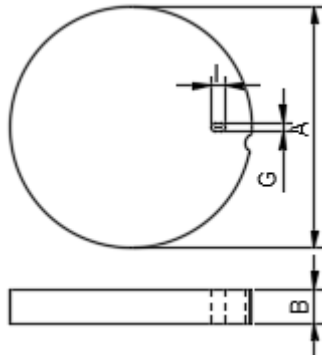
High permeability, low loss, good shielding function.

Usages: Wireless charger.

产品图例 (Shape Example)



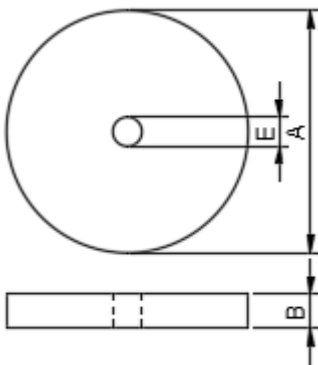
Type 1



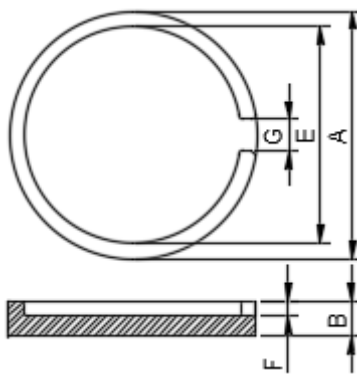
Type 2



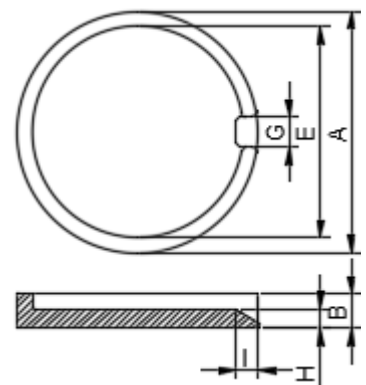
Type 3



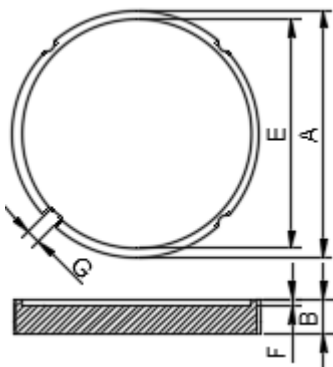
Type 4



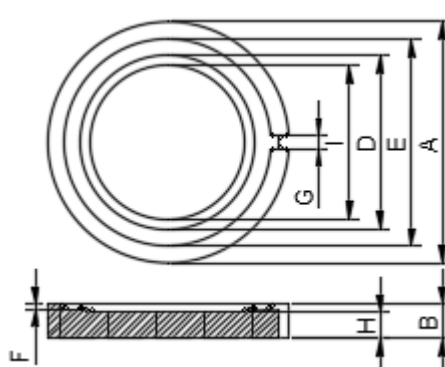
Type 5



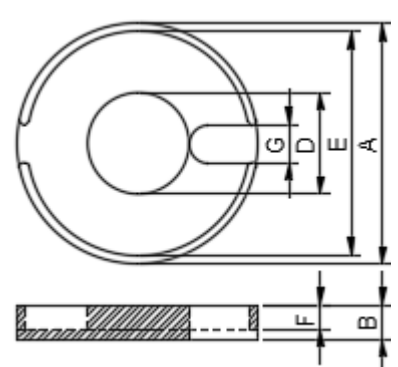
Type 6



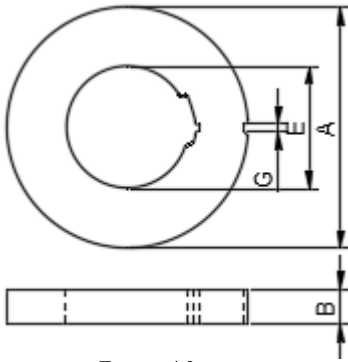
Type 7



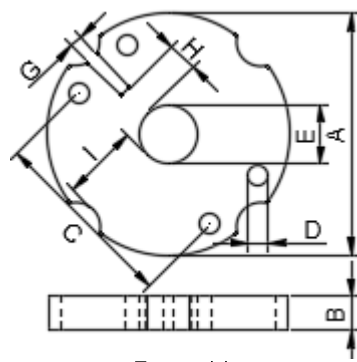
Type 8



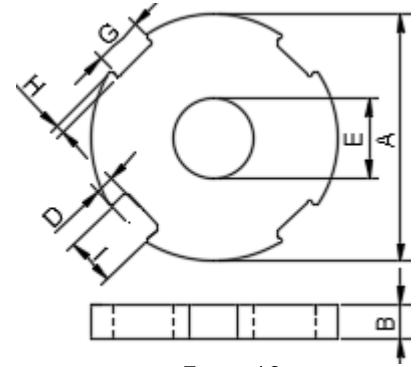
Type 9



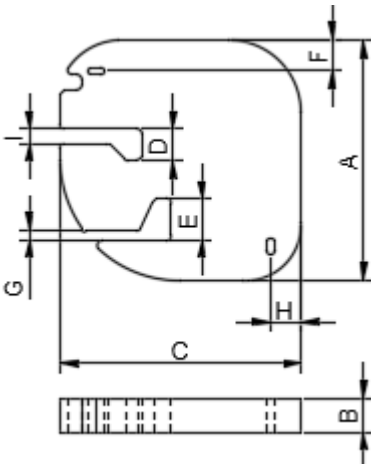
Type 10



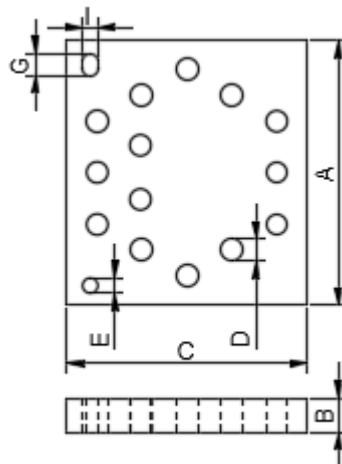
Type 11



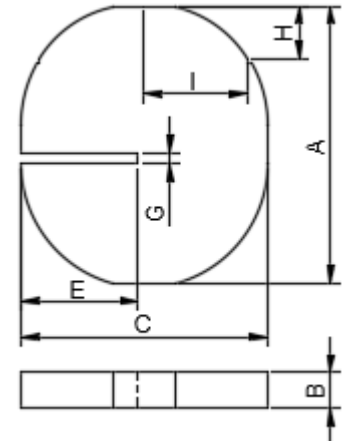
Type 12



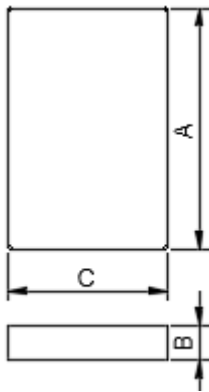
Type 13



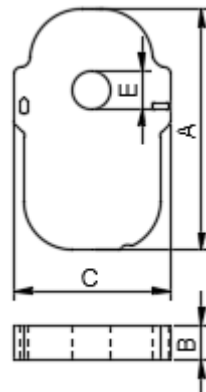
Type 14



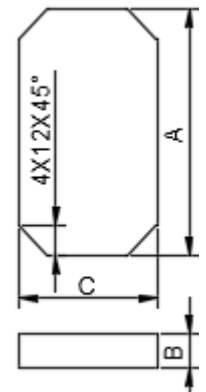
Type 15



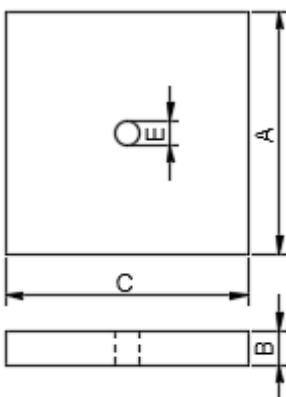
Type 16



Type 17



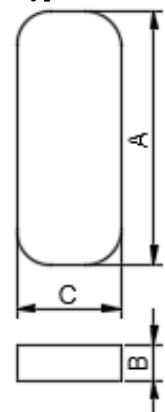
Type 18



Type 19



Type 20



Type 21

SQ 磁芯

特点:

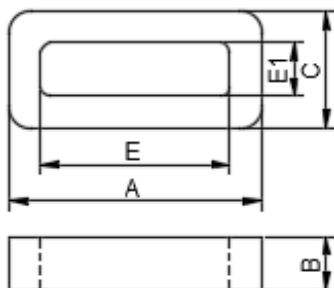
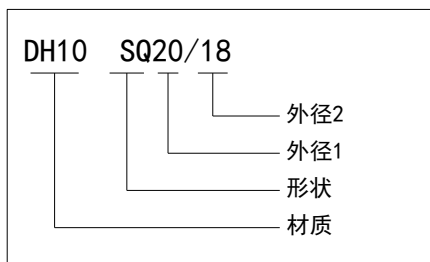
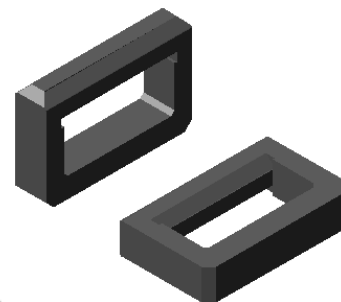
可以适应自动绕线机操作。

体积小，效率高，工作频率范围广。

用途:

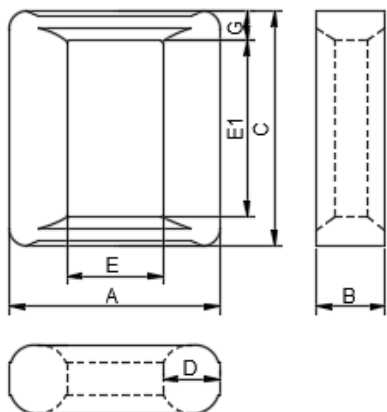
宽频带变压器，开关电源变压器，线圈等。

型号说明 (Naming of Core Models):

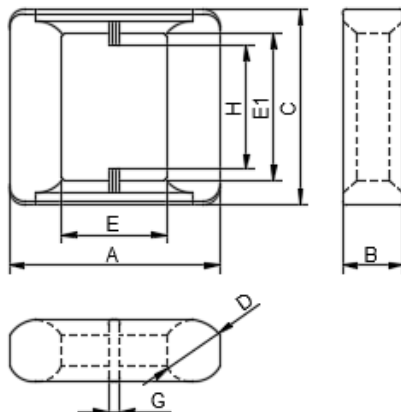


产品图例 (Shape Example)

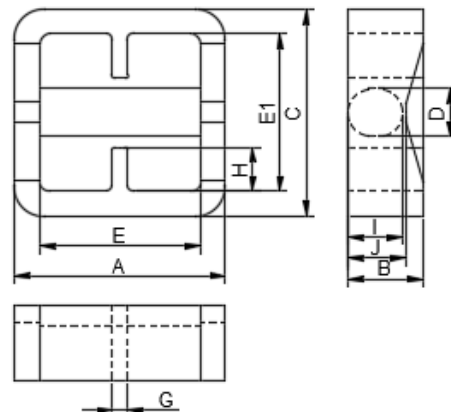
Type 1



Type 2



Type 3



Type 4

品名	Type	尺寸(mm)									
		A	B	C	D	E	E1	G	H	I	J
SQ19/17	3	18.7±0.3	5.4±0.2	17.2±0.3	5.4±0.25	9.3±0.3	10.9±0.3	1.0±0.15	10.9±0.15	-	-
SQ19/18K	2	18.1±0.4	5.4±0.2	19.0±0.4	-	8.22±0.4	14.1±0.3	-	-	-	-
SQ20/18	2	18.4±0.4	5.9±0.2	20.0±0.4	5.0±0.2	8.2±0.3	15.1±0.2	2.8±0.4	-	-	-
SQ21/20.6	4	21.0±0.5	7.4±0.3	20.6±0.5	5.4±0.25	16.3±0.3	16.0±0.3	1.42±0.15	6.75±0.15	5.1±0.15	5.4±0.25
SQ24/17	2	17.6±0.3	5.8±0.25	24.2±0.4	5.5±0.2	6.5±0.3	20.0±0.3	-	-	-	-
SQ28/20	2	20.0±0.4	6.2±0.3	28.5±0.4	6.0±0.2	8.0±0.4	22.7±0.4	-	-	-	-
SQ28.2/13.1/3.5	1	28.2±0.4	3.5±0.5	13.1±0.4	-	21.1±0.4	6.0±0.3	-	-	-	-
SQ30/19.8	5	30.0±0.4	6.4±0.25	19.8±0.3	6.4±0.2	22.4min.	8.9min.	-	-	-	-
SQ31/29	2	31.0±0.5	11.15±0.5	28.5±0.5	10.25±0.5	10.50±0.5	17.0±0.5	-	-	-	-
SQ65/46/30	6	65.08±1.2	30.0±0.6	46.08±0.8	16.5ref.	-	13.08±0.4	18.0±0.5	-	-	-
SQ78/47/22	7	78.3±1.2	22.0±0.4	46.6±0.9	-	55.4±0.9	23.7±0.5	-	-	-	-

SQ 型磁芯 SQ CORES

SQ core

Characteristic:

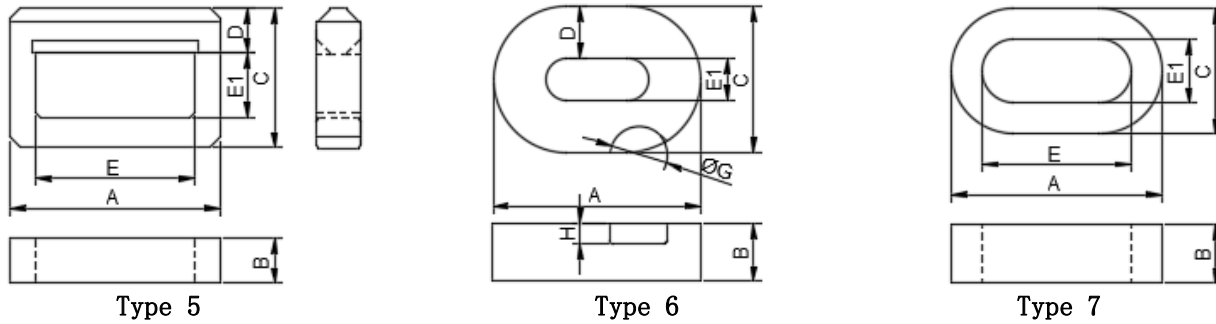
It can adapt to the operation of automatic winding machine..

Small size, high efficiency and wide frequency range.

Usages:

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

产品图例 (Shape Example)



品名	磁芯参数					AL				
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²				
	C1	Le	Ae	Ve	W	DH05	DH07	DH10	DH12	DH15
SQ19/17	2.48	52.7	21.2	1117.9	5.7	-	-	-	-	-
SQ19/18K	2.77	51.0	18.3	939.8	5.3	-	-	4500	-	-
SQ20/18	2.37	52.2	19.5	1020.7	6.0	-	-	4700	-	-
SQ21/20.6	-	51.1	22.5	1153.6	7.7	-	-	-	-	-
SQ24/17	2.81	52.8	18.7	991.9	7.9	-	-	4500	-	-
SQ28/20	3.29	65.5	19.8	1301.0	9.8	-	-	4800	-	-
SQ28.2/13.1/3.5	5.25	65.3	12.4	812.0	4.0	-	-	-	-	-
SQ30/19.8	-	74.4	29.2	2173.5	11.1	-	-	-	-	-
SQ31/29	0.98	74.9	75.7	5678.0	34.8	-	-	9000min.	-	-
SQ65/46/30	-	-	-	-	304.0	-	-	-	-	-
SQ78/47/22	-	-	-	-	210.7	-	-	-	-	-

I 型磁芯 I CORES

常规类型 : I 磁芯

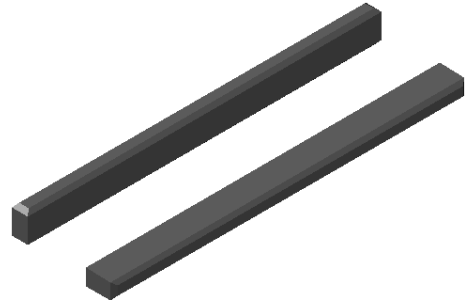
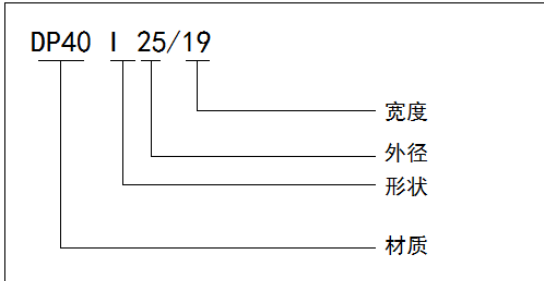
特点:

体积小、重量轻、结构牢固

用途:

各种开关电源变压器, 扼流圈等(车载)。

型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)					
		A	B	C	D	E	H
I5.5/1.2/0.6	1	5.5±0.35	1.2±0.1	0.6±0.1	-	-	-
I16/4/2	7	16.0±0.35	2.0±0.2	4.0±0.25	3.0±0.2	7.0±0.3	1.5±0.2
I20/12	1	19.8±0.3	12.0±0.3	8.0±0.1	-	-	-
I29/10	1	29.0±0.45	10.0±0.3	5.0±0.2	-	-	-
I45/4/5	1	45.5±0.5	5.2±0.15	4.2±0.15	-	-	-
I49.8/8/2.5	1	49.8±0.5	8.0±0.2	2.5±0.1	-	-	-
I50/10/5	1	50.0±0.5	10.0±0.2	5.0±0.2	-	-	-
I53/16.4/5.7	2	53.0±0.5	16.4±0.5	5.675±0.1	-	-	-
I53/18.4/5.7	2	53.0±0.5	18.4±0.5	5.675±0.1	-	-	-
I54.4/6.6	1	54.4±0.1	6.6±0.05	1.9±0.05	-	-	-
I54.5/9.5/5	1	54.5±1.0	9.5±0.5	5.0±0.3	-	-	-
I60/5/2.6	1	60.0±0.6	5.0±0.2	2.6±0.12	-	-	-
I63/07	1	63.0±0.5	7.05±0.15	2.0±0.1	-	-	-
I63/7/2.5	1	62.9±0.6	6.85±0.1	2.28±0.1	-	-	-
I65/15/05	1	65.0±0.7	15.0±0.3	5.0±0.2	-	-	-
I66/12/3	1	66.0±0.4	12.0±0.25	3.0±0.2	-	-	-
I80/15/05	3	80.0±0.6	15.0±0.3	5.0±0.15	10.0±0.3	75.0±0.6	-
I80.5/6/2.5	6	81.1±0.6	6.0±0.3	3.3±0.2	-	-	-
I81.66/6.35/2.9	5	81.66±0.4	6.35±0.25	2.9±0.15	-	-	-
I85/18/4	1	84.5±0.8	17.5±0.3	3.8±0.15	-	-	-
I86/13.5	1	86.3±0.8	13.5±0.3	5.0±0.2	-	-	-
I90/08	1	90.0±0.5	8.0±0.15	3.85±0.1	-	-	-
I90/8/4	1	89.9±0.5	7.87±0.15	3.85±0.1	-	-	-
I126/28/20	4	126.0±1.3	28.0±0.4	20.0±0.3	92.0±0.2	-	-
I128/28/20	4	128.0±1.3	28.0±0.4	20.0±0.2	10.0±0.2	-	-
I130/10/5	1	130.0±1.5	10.0±0.3	5.0±0.2	-	-	-

I 型磁芯 I CORES

Regular Type I Core

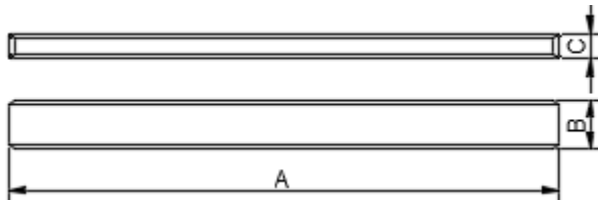
Characteristic:

Small size, light weight and firm structure.

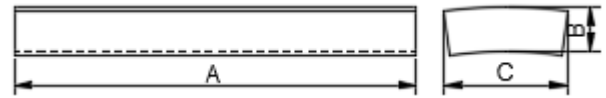
Usages:

Varieties of switching power supply transformers, choke coils and so on (in vehicle) .

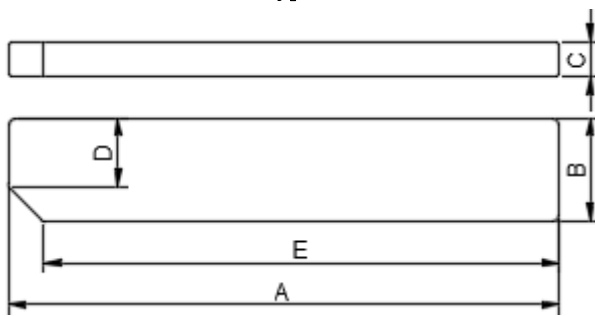
产品图例 (Shape Example)



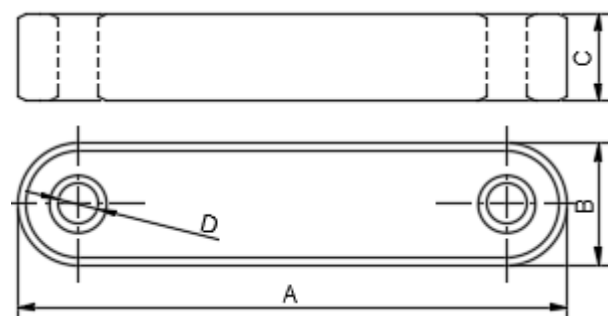
Type 1



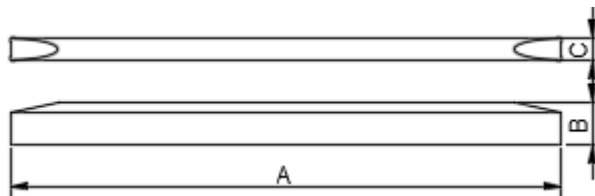
Type 2



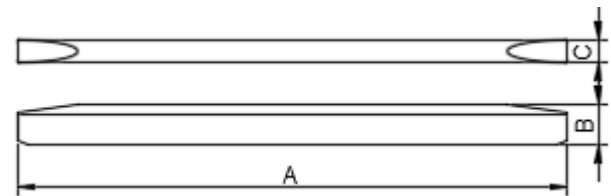
Type 3



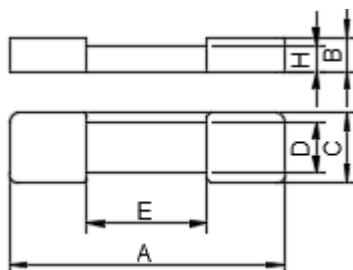
Type 4



Type 5



Type 6



Type 7

I 型磁芯 ICORES

品名	磁芯参数					AL		
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²		
	C1	Le	Ae	Ve	W	DP40	DP44	DP95
I5.5/1.2/0.6	-	-	-	-	0.017	-	-	-
I16/4/2	-	-	-	-	0.5	-	-	-
I20/12	-	-	-	-	9.0	-	-	-
I29/10	-	-	-	-	6.9	-	-	-
I45/4/5	-	-	-	-	4.3	-	-	-
I49.8/8/2.5	-	-	-	-	4.7	-	-	-
I50/10/5	-	-	-	-	12.0	-	-	-
I53/16.4/5.7	-	-	-	-	26.0	-	-	-
I53/18.4/5.7	-	-	-	-	28.4	-	-	-
I54.4/6.6	-	-	-	-	3.2	-	-	-
I54.5/9.5/5	-	-	-	-	12.6	-	-	-
I60/5/2.6	-	-	-	-	4.2	-	-	-
I63/07	-	-	-	-	5.1	-	-	-
I63/7/2.5	-	-	-	-	5.2	-	-	-
I65/15/05	-	-	-	-	25.9	-	-	-
I66/12/3	-	-	-	-	12.5	-	-	-
I80/15/05	-	-	-	-	31.6	-	-	-
I80.5/6/2.5	-	-	-	-	7.6	-	-	-
I81.66/6.35/2.9	-	-	-	-	7.0	-	-	-
I85/18/4	-	-	-	-	32.1	-	-	-
I86/13.5	-	-	-	-	27.8	-	-	-
I90/08	-	-	-	-	14.9	-	-	-
I90/8/4	-	-	-	-	13.1	-	-	-
I126/28/20	-	-	-	-	343.7	-	-	-
I128/28/20	-	-	-	-	309.8	-	-	-
I130/10/5	-	-	-	-	34.6	-	-	-

PK 型磁芯 PK CORES

PK 磁芯

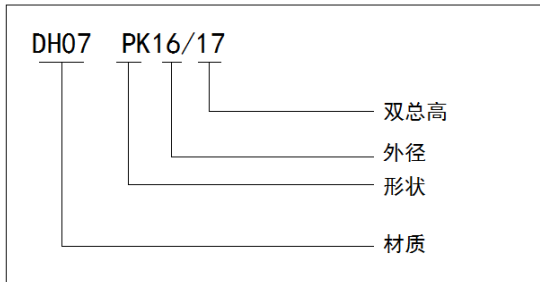
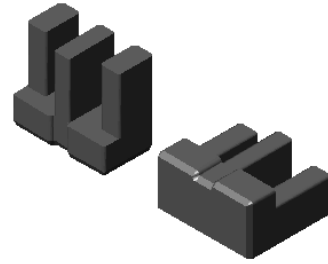
特点:

将线圈绕在两个边柱上，中柱开有适度的气隙
可同时将共模干扰、差模干扰同时过滤掉。

用途:

滤波。

型号说明 (Naming of Core Models):



品名	尺寸(mm)						
	A	B	C	D	E	F	G
PK16/17	16.5±0.3	7.0±0.15	8.8±0.2	2.7±0.15	9.3min.	4.1±0.15	6.2±0.2
PK19/24	18.8±0.35	11.925±0.1	9.0±0.2	3.1±0.15	10.5min.	7.975±0.175	6.4±0.15

PK 型磁芯 PK CORES

Type PK Core

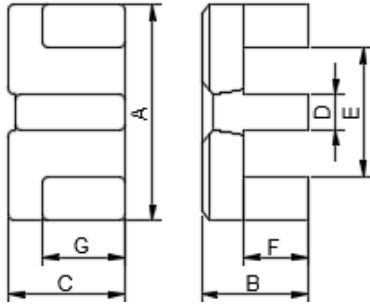
Characteristic:

Wrap the coil around two side pillars with a air gap in the middle pillar.

Common mode interference and differential mode interference can be filtered out at the same time.

Usages: Wave filtering.

产品图例 (Shape Example)



品名	磁芯参数					AL
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/prs)	nH/N ²
	C1	Le	Ae	Ve	W	DH07
PK16/17	0.78	26.5	33.9	901.4	7.2	2100min.
PK19/24	-	-	-	-	12.3	-

PIN 型磁芯 PIN CORES

PIN 磁芯

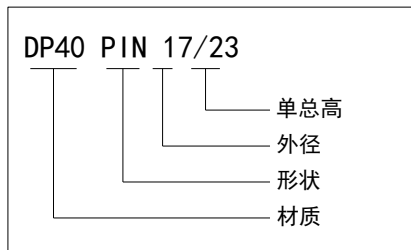
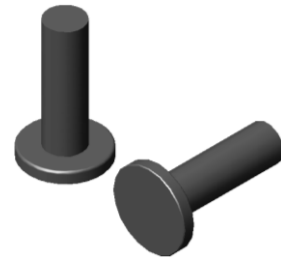
特点:

体积小、重量轻、结构牢固

用途:

各种开关电源变压器, 扼流圈等(车载)。

型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)			
		ΦA	B	C	ΦD
PIN11/08	1	11.0 ± 0.2	8.0 ± 0.12	5.1 ± 0.1	5.8 ± 0.15
PIN13/22	2	12.5 ± 0.3	22.0 ± 0.4	4.0 ± 0.3	8.0 ± 0.3
PIN15/21	2	15.2 ± 0.3	21.0 ± 0.3	3.0 ± 0.2	10.0 ± 0.2
PIN17/21	2	17.0 ± 0.3	21.0 ± 0.3	3.0 ± 0.3	10.0 ± 0.2
PIN17/23	2	17.0 ± 0.3	23.5 ± 0.3	3.0 ± 0.3	8.0 ± 0.2
PIN17/30	2	17.0 ± 0.3	30.0 ± 0.5	3.0 ± 0.2	10.3 ± 0.2

PIN 型磁芯 PIN CORES

Type PIN Core

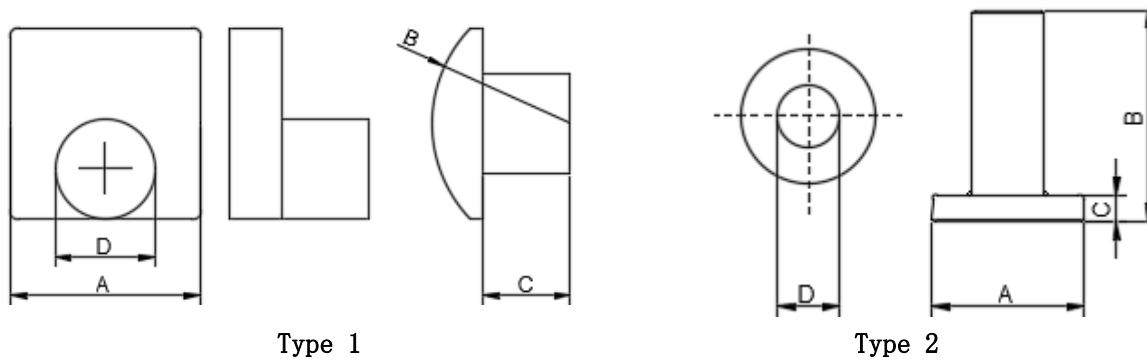
Characteristic:

Small size, light weight and firm structure.

Usages:

Varieties of switching power supply transformers, choke coils and so on (in vehicle) .

产品图例 (Shape Example)



Type 1

Type 2

品名	磁芯参数					AL		
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²		
	C1	Le	Ae	Ve	W	DP40	DP44	DP95
PIN11/08	-	-	-	-	2.1	-	-	-
PIN13/22	-	-	-	-	6.7	-	-	-
PIN15/21	-	-	-	-	9.3	-	-	-
PIN17/21	-	-	-	-	10.0	-	-	-
PIN17/23	-	-	-	-	8.4	-	-	-
PIN17/30	-	-	-	-	14.1	-	-	-

FRC 型磁芯 FRC CORES

FRC 磁芯

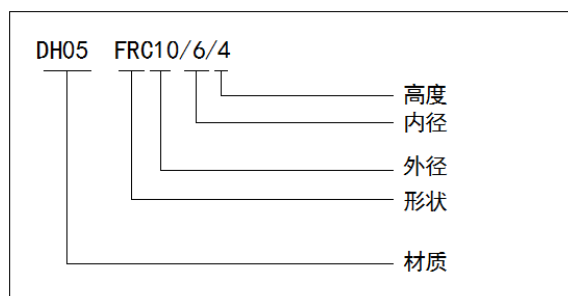
特点:

- ① 两片式结构, 易于组装
- ② 镜面研磨。

用途:

感应线圈等。

型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)				
		A	B	C	D	E
FRC53/41/15	2	53.0±0.55	41.0±0.5	15.0±0.3	24.8±0.2	6.0±0.3
FRC60/35.5/20	3	60.0±0.8	35.5±0.8	20.0±0.3	30.0±0.35	-
FRC70/58/15	1	70.0±0.8	58.0±0.6	15.0±0.3	34.5±0.2	6.0±0.3
FRC73/61/15	1	73.0±0.9	61.0±0.8	15.0±0.3	35.5±0.2	6.0±0.3
FRC92/78/15	2	92.0±0.9	78.0±0.8	15.0±0.4	43.3±0.25	7.0±0.3

Type FRC Core

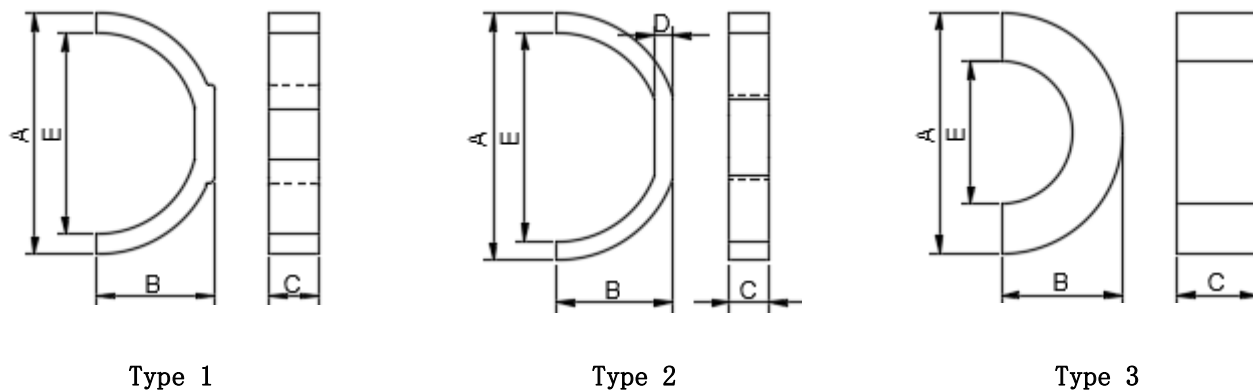
Characteristic:

- ① Two chip structure, easy to assemble
- ② Mirror polishing.

Usages:

Induction coils and so on.

产品图例 (Shape Example)



品名	磁芯参数					AL			
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²			
	C1	Le	Ae	Ve	W	DH05	DH07	DH10	DH12
FRC53/41/15	1.63	146.0	89.5	13072.1	33.0	-	-	-	-
FRC60/35.5/20	0.59	143.3	239.4	34323.2	88.8	-	-	-	-
FRC70/58/15	2.22	199.8	89.7	17936.4	44.0	2000min.	-	-	-
FRC73/61/15	2.33	209.3	89.7	18791.8	51.3	-	-	-	-
FRC92/78/15	2.53	265.8	104.7	27848.4	69.0	1800min.	-	-	-

EDI 型磁芯 EDI CORES

EDI 磁芯

特点:

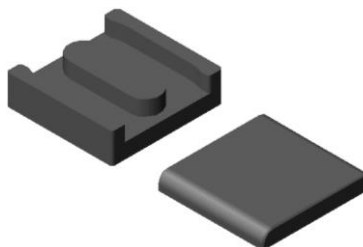
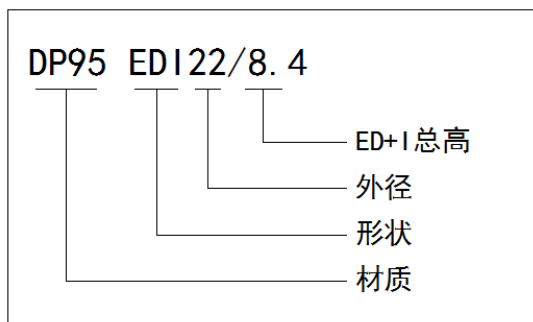
适合于变压器的平面化。

根据客户要求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 (Naming of Core Models):



品名	Type	尺寸(mm)								
		A/A1	B	C/C1	D	D1	E	F	G	H
EDI22/8.4	1	22.0±0.3	5.4±0.15	21.0±0.3	6.0±0.2	18.0±0.3	17.4±0.3	2.4±0.3	16.4±0.3	3.0±0.1

EDI 型磁芯 EDI CORES

EDI Core

Characteristics:

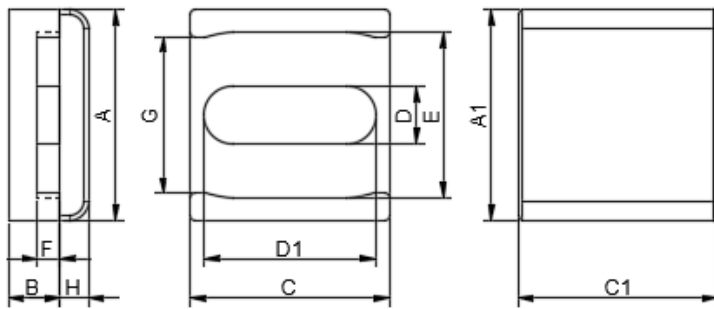
Suitable for making planar transformer.

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

Usages:

DC-DC converter (planar type transformer)

产品图例 (Shape Example) :



Type 1

品名	磁芯参数					AL		
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/prs)	nH/N ²		
	C1	Le	Ae	Ve	W	DP40	DP44	DP95
EDI22/8.4	-	-	-	-	17.1	-	-	-

LQ 型磁芯 LQ CORES

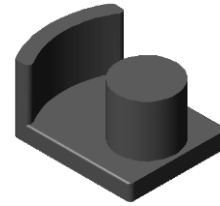
LQ 磁芯

特点:

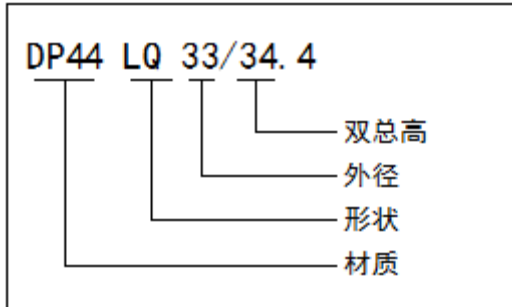
体积小、重量轻、结构牢固

用途:

各种开关电源变压器, 扼流圈等(车载)。



型号说明 (Naming of Core Models):



品名	Type	尺寸(mm)					
		B	C	ΦD	D1	F	H
LQ33/34.4	1	17.3±0.1	25.0±0.3	14.7±0.2	14.8±0.2	13.2±0.2	8.35±0.2

LQ 型磁芯 LQ CORES

Type LQ Core

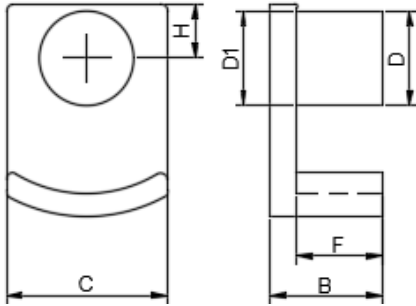
Characteristic:

Small size, light weight and firm structure.

Usages:

Varieties of switching power supply transformers, choke coils and so on (in vehicle) .

产品图例 (Shape Example) :



Type 1

品名	磁芯参数					AL		
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/pcs)	nH/N ²		
	C1	Le	Ae	Ve	W	DP40	DP44	DP95
LQ33/34.4	-	-	-	-	35.6	-	-	-

QP 型磁芯 QP CORES

QP 磁芯

特点:

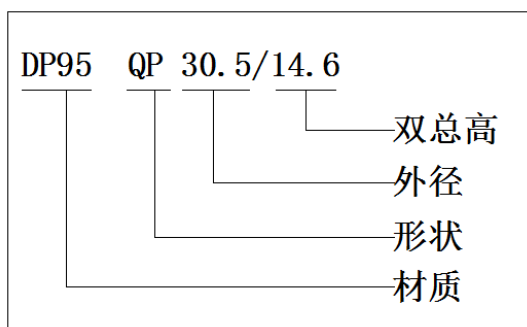
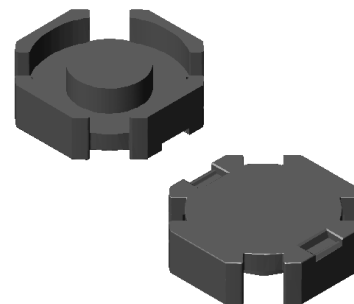
为高密度安装而设计的磁芯形状, 可有效减小变压器的体积。

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 (Naming of Core Models):



品名	Type	尺寸(mm)					
		A	B	C	ΦD	ΦE	F
QP30.5/14.6	1	30.5±0.8	7.3±0.2	25.9±0.6	14.2±0.25	26.9±0.6	4.3±0.2
QP9.6/4.4	2	9.6±0.3	2.2±0.1	3.8±0.3	3.5±0.15	9.0±0.3	1.55±0.15

QP 型磁芯 QP CORES

Regular Type QP Core

Characteristic:

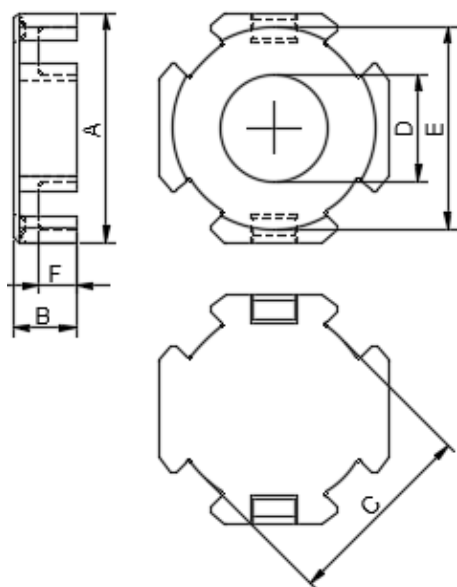
This core type is designed specially for high-dense mount and can effectively reduce the volume of transformers.

Superior electromagnetic shielding effect.

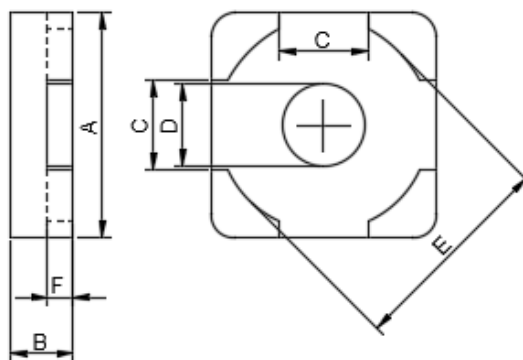
Usages:

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

产品图例 (Shape Example)



Type 1



Type 2

品名	磁芯参数					AL
	(mm-1)	(mm)	(mm ²)	(mm ³)	(g/prs)	nH/N ²
	C1	Le	Ae	Ve	W	DP95
QP30.5/14.6	0.241	39.9	165.0	6584.0	32.5	8900
QP9.6/4.4	-	-	-	-	1.5	-

附录. 材料牌号对照表 APPENDIX. Materials Brands Comparison Table

与我公司各材料系列性能和用途相对应的主要厂商材料牌号参见下表:

Shown below are the material brands of main manufacturers, which characteristics and application scopes correspond to those of our material series.

Power 材:

DAWHA	DP40	DP44	DP47	DP50B	DP95	DP95A	DP97	DB90	DB91	DB91B	DB1A
FDK	6H20	6H40	6H45	-	6H60	-		4H45	-	-	-
TDK	PC40	PC44	PC47	-	PC95	-		PC90	-	-	-
ACME	P4	P41	-	P5	P46	-		P42	-	-	N42
NICERA	NC-2H	2HM5 2HM4	-	2M	3H	-		BM27	-	-	3B
EPCOS	N87	N97	-	-	N95	-		N92	-	-	N45
FERROXCUBE	3C85 3C90	3C96	3C98	3F3	3C95	-		3C92	-	-	3B46 3S5
DMEGC	DMR40	DMR44	DMR47	DMR55	DMR95	-		DMR2KB	DMR28	DMR91	DMR71
TDG	TP4	TP4A	TP4D	TP4S	TP4W TPW33	-	TPG33	TB4S	-	-	TD5B
TOKIN	BH2	BH1	-	BH5	-	-		-	BH7	-	-
MAGNETICS	P	-	-	R	T	-		-	-	-	-
JFE	MB3	MB4	-	-	MBT1	-		-	-	-	-
SAMWHA	PL-5 PL-7	PL-11	PL-15	PL-F1	PL-13	-		-	-	-	-
ISU	PM7	PM11	PM15	FM4	PM12	-		BM15	-	-	BM30
HITACHI	ML24D	ML25D	-	-	ML30D ML32D	-		MB19D	-	-	-
FAIR-RITE	78	-	-	-	-	-		-	-	-	-
FERRITE INT	TSF-70 99	TSF-70 60	-	-	-	-		-	-	-	-
ISKRA	45G	65G	-	-	-	-		55G	-	-	27G

附录. 材料牌号对照表 APPENDIX. Materials Brands Comparison Table

High- μ i 材:

DAWHA	DH04	DH05	DH07	DH10	DH10T	DH12	DH15
FDK	-	2H06	2H07	2H10	-	2H12	2H15
TDK	-	H5B HS52	H5B2	HS10	H5C2	H5C4	H5C3
ACME	-	A05	A07	A10	A101	A121	A151
NICERA	-	NC-5Y	NC-7	NC-10H	10TB	12H	15H
EPCOS	-	N30 T65	T35/T37	T38	T38	T42	T46
FERROXCUBE	-	3E25 3E27	3E25 3E27	3E5	3E55	3E6	3E7
DMEGC	-	DMR5K	DMR7K	DMR10K	-	DMR12K	DMR12K
TDG	-	TS5 TL5	TS7	TS10 TS10A	TH10	TS13	TS15
TOKIN	-	5H	7H	10H	-	12H	15H
MAGNETICS	-	J	-	-	W	-	H
JFE	-	MA055 MAT05	MA070	MA100	MA101	MA120	MA150
SAMWHA	-	SM50 SM60	SM70S	SM100	-	-	SM150
ISU	-	HM2A	HM3 HM3A	HM5A	-	-	-
HITACHI	-	MQ40D MQ53D	MP70D	MP10T	MD10T	-	MP15T
FAIR-RITE	-	75	-	76	-	-	-
FERRITE INT	-	TSF-3000	-	TSF-010K	-	TSF-012K	TSF-015K
ISKRA	-	19G	22G	12G	12Gi	32G	52G

江苏大华电子有限公司 (DAWHA)

地址：江苏省兴化市陈堡工业园

邮编：225714

TEL：0523-83990001

FAX：0523-83724866

JIANGSU DAWHA ELECTRONICS CO., LTD. (DAWHA)

Add：Chen Bao Industrial Park Tai Zhou City, Jiangsu Province, China

Zip Code：225714

TEL：0523-83990001

FAX：0523-83724866

DAWHA Web site <http://www.dawha.net>