

主要概念与定义

● B-H 曲线

当在软磁材料上加一个交变磁场时，磁感应强度随磁场强度的变化如图1所示磁滞回线描述了H与B的联系，叫做磁化曲线。

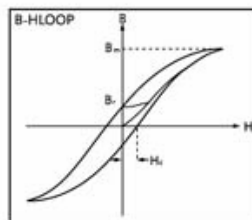


图1

☆ 初始磁导率, μ_i

它是B/H的极限值，在这里H(铁磁性物质的原始磁化曲线中)值无限趋向于零，并且由以下几个因素决定：

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

μ_0 : 真空导磁率

H: 交流磁场强度(A/m)

B: 交流磁感强度(T)

(注) 磁心材料的本征磁导率用一只绕着导线的圆环磁心来测定，并由以下几个因素决定：

$$\mu_i = \frac{L - L_0}{4\pi N^2} \times \frac{L_e}{A_e} \times 10^9$$

L: 带磁心材料的线圈电感(H)

L_0 : 不带磁心的线圈电感(H)

N: 线圈匝数

A_e : 磁心有效截面积(mm²)

L_e : 磁心有效磁路长度(mm)

☆ 饱和磁感强度, B_s

如图2(初始磁化曲线)所示，当完全退磁的磁心周围的直流磁场强度增加时，磁感强度将从最初的“0”开始增加。最后磁感强度达到它的最大值，这个值就叫做饱和磁感强度，在这里当H=100e时B的值被定义为 B_{100} 。

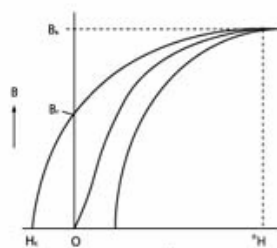


图2

☆ 剩余磁感强度, B_r

它是直流磁场强度减小并最后变为零以后保留在磁心中的剩余磁感强度的值。

☆ 矫顽力, H_c

它是在反方向的直流磁场激化下剩余磁感强度为零时的磁场强度。

● 损耗

☆ 损耗角正切, $\tan\delta$

磁心损耗由三种不同类型的损耗组成：磁滞损耗，涡流损耗和剩余损耗。

$$\tan\delta = \tan\delta_h + \tan\delta_e + \tan\delta_r$$

$$= h_1 \sqrt{\frac{L}{V_1}} + e_1 \times f + r_1$$

损耗系数 $\tan\delta$ 也可以表示为如下所示的阻抗与电抗的比值：

$$\tan\delta = \frac{R_m}{\omega L} = \frac{R_{eff} - R_w}{\omega L}$$

$\tan\delta_h$: 磁滞损耗因子

$\tan\delta_e$: 涡流损耗因子

$\tan\delta_r$: 剩余损耗因子

L : 带磁心的线圈电感 (H)

V : 磁心体积 (cm³)

i : 电流 (A)

h_1 : 磁滞损耗系数

e_1 : 涡流损耗系数

r_1 : 剩余损耗系数

f : 频率 (Hz)

R_m : 磁心的损耗电阻 (Ω)

R_{eff} : 带磁心线圈的损耗电阻 (Ω)

R_w : 线圈的损耗电阻 (Ω)

ω : 角频率 (度/秒)

(注) h_1 表示如下：

$$h_1 = \frac{1}{\omega L} \times \sqrt{\frac{L}{V_1}} \times \frac{R_2 - R_1}{i_2 - i_1}$$

R_1 : 电流 i_1 的阻抗 (Ω)

R_2 : 电流 i_2 的阻抗 (Ω)

☆ 比损耗因子 $\tan\delta/\mu i$

它是每单位磁导率的损耗，表示如下：

$\tan\delta/\mu i$ (对磁心材料)

$\tan\delta/\mu e$ (开气隙磁心)

☆ 品质因素 Q

品质因素是损耗角正切的倒数。

$$Q = \frac{\omega L}{R_L} = \frac{1}{\tan\delta}$$

ω : 角频率 (度/秒)

R = 带磁心线圈的阻抗 (Ω)

● 其他性质

☆ 电阻率, ρ (Ω·m)

通过磁心单位截面在单位长度上的电阻

$$R = \rho \cdot \frac{L}{A}$$

R: 电阻 (Ω)

L: 磁芯长度 (cm)

A: 磁芯的截面积 (cm²)

☆ 温度系数, $\alpha_{\mu r}$

它是在T1到T2这个温度范围内温度每变化1°C磁导率的变化量。

$$\alpha_{\mu} = \frac{\mu_2 - \mu_1}{\mu_1} \times \frac{1}{T_2 - T_1}$$

μ_1 : 在温度T₁的磁导率

μ_2 : 在温度T₂的磁导率

☆ 比温度系数, $\alpha_{\mu r}$

它是每单位磁导率的温度系数, 可表示为:

$$\alpha_{\mu r} = \frac{\alpha_{\mu}}{\mu_i}$$

因此 一个实际磁心温度系数由下式决定:

$$\alpha_{\mu} = \alpha_{\mu r} \times \mu_e$$

☆ 居里温度, T_c

如图3所示典型磁导率与温度特性曲线, 居里点由磁心从铁磁状态转向顺磁状态的温度决定。

它是0.8 μ_{max} 和 0.2 μ_{max} 两点的连线与 $\mu=1$ 线的交点的温度。

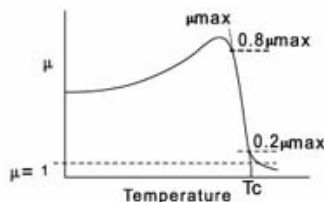


图 3

☆ 密度, d (g/cm³)

它是每单位体积磁心的重量, 表示如下:

$$d = \frac{W}{V}$$

W: 磁心的重量 (g); V: 磁心的体积 (cm³);

☆ 减落因子, **DF**

它是表示在恒温下磁心完全退磁后随时间变化的因素。

$$DF = \frac{\mu_1 - \mu_2}{\log \frac{t_2}{t_1}} \times \frac{1}{\mu_1^2} \quad (t_2 > t_1)$$

μ_1 : 完全退磁 t₁ 分钟后的初始磁导率

μ_2 : 完全退磁 t₂ 分钟后的初始磁导率

(注) 一般, t_1 、 t_2 分别被设为 10、100 分钟。

☆ 气隙影响

当磁路中有气隙时, 其损耗因子就变为带气隙损耗角正切, $(\tan\delta)_{\text{gap}}$ 它与无气隙时损耗角正切的关系为:

$$\frac{(\tan\delta)_{\text{gap}}}{\mu_e - 1} = \frac{\tan\delta}{\mu_i - 1}$$

因 μ_e 、 $\mu_i \gg 1$, 所以有:

$$\frac{(\tan\delta)_{\text{gap}}}{\mu_e} = \frac{\tan\delta}{\mu_i}, \text{ 即有 } (\tan\delta)_{\text{gap}} = \frac{\tan\delta \mu_e}{\mu_i}$$

由于 $\mu_e < \mu_i$, 所以开气隙后, 损耗角正切减小, Q 值增加。

磁心开气隙后, 磁心内部磁场强度 H_i 大大减小, 由 $H_i = H_e - H_d = H_e - N_m$ 可以看出, 退磁因子 N 越大, H_i 越小。这里 H_e 是绕组通过电流后产生的磁场 ($H_e = NI/l_e$), M 是磁化强度。退磁为 $0 \sim 4\pi$, 对闭路磁心 $N = 0$, 气隙越大, N 越大, 反之亦然。开气隙主要是为了防止磁心在工作时处于饱和状态。

☆ 电感因素, AL

电感因素由下式定义:

$$AL = \frac{L}{N^2} \times 10^9$$

L: 带磁心的线圈电感(H)

N: 线圈匝数

☆ 直流叠加

当交流磁场与直流磁场同时作用于磁心时, 称为直流叠加。

当磁心有一个恒定的直流磁场 H_{DC} , 并在其上叠加一个幅度为 $\Delta H/2$ 的正弦磁场时, 则表示为:

$$H = H_{DC} + (\Delta H/2)\sin(\omega t)$$

当正弦磁场作用时, 磁通密度形成小磁滞回线时, 其峰值用 ΔB 表示, 此时小磁滞回线在大磁滞回线内变化, 小磁滞回线的平均斜率叫增量磁导率。

$$\mu_{\Delta} = \frac{1}{\mu_0} \times \frac{\Delta B}{\Delta H}$$

正弦场叫工作场, 直流场叫偏磁化场或偏置场。增量磁导率随偏置场而改变。测直流叠加特性, 就是在一定偏置场下加工作场, 测其增量磁导率, 并与无直流场时的磁导率作比较。

☆ 有效参数

L_e : 有效磁路长度(mm)

A_e : 有效截面积(mm²)

V_e : 磁心有效体积(mm³)

W : 磁心毛重(g)

Main concepts and definitions

● B-H curves

If an alternating magnetic field is applied to a soft magnetic material, the magnetic induction(B) changes with the magnetic field (H) as show in Fig. 1.The hysteresis loop, describing the relation between H and B, is called the magnetization curve.

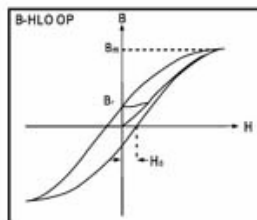


Fig. 1

☆ Initial permeability, μ_i

This is the limit value of B/H , where H is indefinitely close to zero ($H \approx 0$) at the virgin magnetization curve of ferromagnetic substance ,and is derived by the following equation:

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

μ_0 : permeability in vacuum

H: AC magnetic field strength

B: AC magnetic flux density(T)

(Note) The essential permeability of a core material is measured using a toroidal core wound with a coil, and is represented by the following equation:

$$\mu_i = \frac{L - L_0}{4\pi N^2} \times \frac{L_e}{A_e} \times 10^9$$

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

L_0 : self-inductance of coil (H)

N: number of turns

A_e : average cross-sectional area of toroidal core(mm²)

L_e : average magnetic path length of toroidal core(mm)

☆ Saturation magnetic flux density, B_s

When the strength of a DC magnetic field H is intensified around a completely demagnetized magnetic core, the magnetic flux density B increases from the initial point "0" as shown in Fig. 2. This is called an initial magnetization curve. The magnetic flux density eventually reaches its upper limit, called the saturation magnetic flux density B_s , where the value of B is defined as B_{10} when $H=10 \text{ Oe}$.

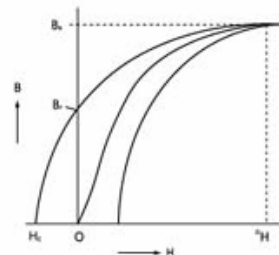


Fig. 2

☆ Residual magnetic flux density: B_r

This is the amount of residual magnetic flux density retained by the core after the DC magnetic field is weakened and finally removed to the level of $H=0$.

☆ Coercive Force, H_c

This is the strength of the magnetic field whereby the residual flux density becomes zero under the

intensification, in the opposite direction, of the DC magnetic field.

● **Loss**

☆ **Loss factor $\tan\delta$**

The core loss factors of three different types of losses : hysteresis loss, eddy-current loss and residual loss.

$$\begin{aligned}\tan\delta &= \tan\delta_h + \tan\delta_e + \tan\delta_r \\ &= h_1 \sqrt{\frac{L}{V_1}} + e_1 \times f + r_1\end{aligned}$$

The loss coefficient $\tan\delta$ can be also represented by the ratio of resistance to reactance as follows:

$$\tan\delta = \frac{R_m}{\omega L} = \frac{R_{eff} - R_w}{\omega L}$$

$\tan\delta_h$: hysteresis loss coefficient

$\tan\delta_e$: eddy-current loss coefficient

$\tan\delta_r$: residual loss coefficient

L: self inductance of core with coil (H)

V: core volume (cm³)

i: current (A)

h_1 : hysteresis loss coefficient

e_1 : eddy-current loss coefficient

r_1 : residual loss coefficient

f: frequency (Hz)

R_m : resistance of magnetic core (Ω)

R_{eff} : resistance of coil (Ω)

R_w : resistance of coil (Ω)

ω : angular velocity (radian/sec.)

(Note) h_1 is expressed follows:

$$h_1 = \frac{1}{\omega L} \times \sqrt{\frac{L}{V_1}} \times \frac{R_2 - R_1}{i_2 - i_1}$$

R_1 = resistance for current i_1 (Ω)

R_2 = resistance for current i_2 (Ω)

☆ **Relative loss factor $\tan\delta/\mu_i$**

This is the amount of loss per permeability and is expressed as follows:

$\tan\delta/\mu_i$ (for magnetic materials)

$\tan\delta/\mu_e$ (where gaps are added to the magnetic circuit)

☆ **Quality factor, Q**

The quality factor Q, is defined as the reciprocal of loss angle tangent.

$$Q = \frac{\omega L}{R_L} = \frac{1}{\tan\delta}$$

ω : angular velocity (radian/sec.)

R_L : loss resistance of coil with magnetic core (Ω)

● **Other characters**

☆ **Electrical resistivity, $\rho(\Omega \cdot \text{cm})$**

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

$$R = \rho \cdot \frac{L}{A}$$

R: resistance (Ω)

L: the length of the core (cm)

A: the cross-sectional area of a magnetic core (cm^2)

☆ **Temperature coefficient, $\alpha_{\mu T}$**

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

$$\alpha_{\mu} = \frac{\mu_2 - \mu_1}{\mu_1} \times \frac{1}{T_2 - T_1}$$

Where μ_1 : permeability at temperature T_1

μ_2 : permeability at temperature T_2

☆ **Relative temperature coefficient, $\alpha_{\mu T}$**

This is the temperature coefficient per unit permeability and is represented by:

$$\alpha_{\mu T} = \frac{\alpha_{\mu}}{\mu_i}$$

Thus, the temperature coefficient of an actual core is obtained as follows:

$$\alpha_{\mu} = \alpha_{\mu T} \times \mu_e$$

☆ **Curie temperature, T_c**

As shown by the typical temperature characteristic of permeability in Fig. 3, the Curie temperature T_c is defined as the temperature at which the magnetic core changes from the ferromagnetic to the paramagnetic state. It is the temperature obtained at the intersection point of the horizontal line of $\mu = 1$ and the line passing through the points $0.8\mu_{\text{max}}$ and $0.2\mu_{\text{max}}$.

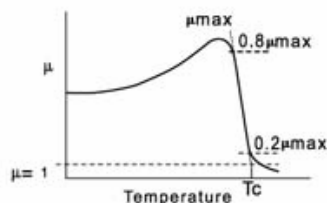


Fig.3

☆ **Density, $d(\text{g}/\text{cm}^3)$**

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

$$d = \frac{W}{V}$$

W: weight of magnetic body (g)

V: volume of magnetic body (cm^3)

☆ **Disaccommodation factor, DF**

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

$$DF = \frac{\mu_1 - \mu_2}{\log \frac{t_2}{t_1}} \times \frac{1}{\mu_1^2} (t_2 > t_1)$$

μ_1 : initial permeability t_1 minutes after complete demagnetization

μ_2 : initial permeability t_2 minutes after complete demagnetization

(Note) Generally, t_1 to t_2 is set at 10 to 100 minutes.

☆ The influence of gap

When the magnetic circuit is unclosed with a gap, the loss factor is called gap loss factor $(\tan \delta)_{gap}$, The relation between gap loss factor and loss factor without the gap is:

$$\frac{(\tan \delta)_{gap}}{\mu_e - 1} = \frac{(\tan \delta)}{\mu_i - 1}$$

Because $\mu_e, \mu_i \gg 1$, the above equation becomes

$$\frac{(\tan \delta)_{gap}}{\mu_e} = \frac{(\tan \delta)}{\mu_i}, \text{ ie } (\tan \delta)_{gap} = \frac{\tan \delta \mu_e}{\mu_i}$$

$\mu_e < \mu_i$. It is clear that $(\tan \delta)_{gap} > \tan \delta$, Q value increasing After the gap is made, the internal magnetic intensity of core decreases in large scale, from the formula $H_i = H_e - H_d = H_e - Nm$, we could see when demagnetizing factor N increases, H_i will decrease on the contrary. Here H_e is the magnetic field produced by the winding with current ($H_e = NI/l_e$), M is intensity of magnetization, demagnetizing factor is $0 \sim 4\pi$, if magnetic circuit is closed, $N = 0$, when the gap is bigger, demagnetizing factor is bigger, and it is the same on the contrary. Gap-making will increase the stability of magnetic field and temperature.

☆ Inductance factor, AL

Inductance factor, AL, is defined as the formula below:

$$AL = \frac{L}{N^2}$$

L: Inductance of the coil with magnetic core(H)

N: Number of turns wound around magnetic core

☆ DC superposition

When an alternate field and a DC field act on a magnetic core simultaneously, it is called DC superstition.

When there is a sine field with the amplify of $\Delta H/2$ acting on a DC field in the magnetic core, the applied fields is

$$H = H_{DC} + (\Delta H/2) \sin(\omega t)$$

Due to sine field, the change of magnetic flux density shows a small hysteresis loop in the large one and its peak value is $\Delta B/2$. The average slope of the small hysteresis loop is incremental permeability:

$$\mu_{\Delta} = \frac{1}{\mu_0} \times \frac{\Delta B}{\Delta H}$$

Where the sine field is called applied and field DC field called displacing field or bias field. The incremental permeability changes as displacing field. The measurement of DC superposition characteristic is to measure the incremental permeability in DC displacing field and to compare it to that measured without Dc displacing field.

☆ **Effective parameters**

Le: Effective magnetic path length

Ae: Effective cross-sectional area

Ve: Effective core volume

W: Approx. weight of core

镍锌铁氧体系列材料的使用范围

镍锌 (Ni-Zn) 铁氧体系列材料是一种高频, 宽带铁氧体材料。具有高电阻率 ρ (大于 $10^5 \Omega \cdot m$)、高阻抗 Z 、高磁通密度 B_s ($H=4000A/m$) 和低损耗等特点。

该材料系列主要用于各种电子设备, 电子线路中的变压器、加感线圈、扼流圈、DC-DC变换器和抗EMI等磁心。

DN5H、DN8H、DN10H使用频率1MHz ~ 50MHz, 具有平滑的 $\mu_i - f$ 曲线及高Q特点。

DN25H、DN30B、DN35H、DN40B、DN50B、DN80H系列材料使用频率100KHz ~ 3MHz, 具有高 B_s 、高 T_c , 可用于直流叠加要求高的场合。特别是DN30B、DN40B、DN50B材料, 具有极高的 B_s 、 T_c 和 ρ , 可用于汽车等电子线路中的高压变压器。

DN65H、DN100H材料系列具有正小温度系数, 磁心温度稳定性好, 使用在谐振电路中, 与电容组合起温度补偿作用。使用频率100KHz ~ 1.5MHz。

DN85H、DN150H、DN200材料系列, 具有高 μ_i 、高 Z 、宽频特性, 主要用于抗EMI (使用频率1MHz ~ 500MHz) 及加感线圈 (使用频率10kHz ~ 1MHz)。

NiZn ferrite material application

NiZn ferrite material is a kind of high frequency, wide band ferrite material. It has the characteristics of high Resistivity ρ (higher than $10^5 \Omega \cdot m$), high impedance Z , high flux density B_s ($H=4000A/m$) and low loss, etc.

It is mainly used in electronic equipments, transformer in electron circuit, loading coil, choke, DC-DC converter and anti-EMI core etc.

DN5H、DN8H、DN10H material's working frequency: 1MHz ~ 50MHz, Smoothing $\mu_i - f$ curve and high Q value etc.

DN25H、DN30B、DN35H、DN40B、DN50B、DN80H material's working frequency: 100KHz ~ 3MHz, High B_s and high T_c , Suitable when excellent DC superposition is required. In particular, DN30B、DN40B、DN50B material has extremely high B_s 、 T_c and ρ . Useable in high tension transformer in electron circuit of automobile and so on.

DN65H、DN100H material has positive and small temperature coefficient. Stable core temperature. To compensate temperature when used in resonant circuit together with capacitance. (Working frequency: 100KHz ~ 1.5MHz.)

DN85H、DN150H、DN200 material has high μ_i 、high Z and wide frequency. It is mainly used in anti-EMI (Working frequency: 1MHz ~ 500MHz) and loading coil (Working frequency: 10kHz ~ 1MHz.).

镍锌铁氧体材料特性 (一)

NiZn Ferrite Materials Characteristics(一)

材料 Materials	DN5H	DN8H	DN10H	DN25H	DN30B	DN35H	DN40B
初始磁导率 μ_i Initial Permeability	50±25%	80±25%	100±25%	250±25%	300±25%	350±25%	400±25%
工作频率 f(MHz) Working Frequency	0.5-55	0.5-15	0.4-20	0.1-4	0.05-3	0.1-2	0.05-2
比损耗因子 $\tan\delta/\mu_i$ Relative Loss Factor	250 (30MHz)	230 (15MHz)	130 (1MHz)	60 (1MHz)	100 (0.1MHz)	45 (1MHz)	35 (1MHz)
饱和磁通密度 B_s (mT) Saturation Magnetic Flux Density	370 (4000A/m)	360 (4000A/m)	370 (4000A/m)	410 (4000A/m)	480 (4000A/m)	430 (4000A/m)	460 (4000A/m)
剩磁 B_r (mT) Remanence	280	235	250	230	280	240	230
矫顽力 H_c (A/m) Coercive Force	300	476	120	76	65	55	40
比温度系数 $\alpha\mu_r(\times 10^{-6}/^\circ\text{C})$ (20 $^\circ\text{C}$ -60 $^\circ\text{C}$) Relative Temperature Coefficient	15-50	25-50	25-50	10-25	15-40	8-25	15-30
居里温度 T_c ($^\circ\text{C}$) Curie Temperature	>300	>250	>250	>230	>260	>230	>240
电阻率 $\rho(\Omega\cdot\text{m})$ Electrical Resistivity	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵
密度 $d(\text{g}/\text{cm}^3)$ Density	5.1	5	5	5.1	5.2	5.2	5.2
特点 Characterisitc	低 μ_i , 高 Q Low μ_i , High Q			高 B_s High B_s			

注：以上数据是根据标准样环 $\phi 25 \times 15 \times 8$ 获得的典型数据，有关产品的具体性能会在此基础上有所调整。
The above typical data are calculated from the standard toroid core. The specific property of any parts will be adjusted a little based on these data.

镍锌铁氧体材料特性 (二)

NiZn Ferrite Materials Characteristics(二)

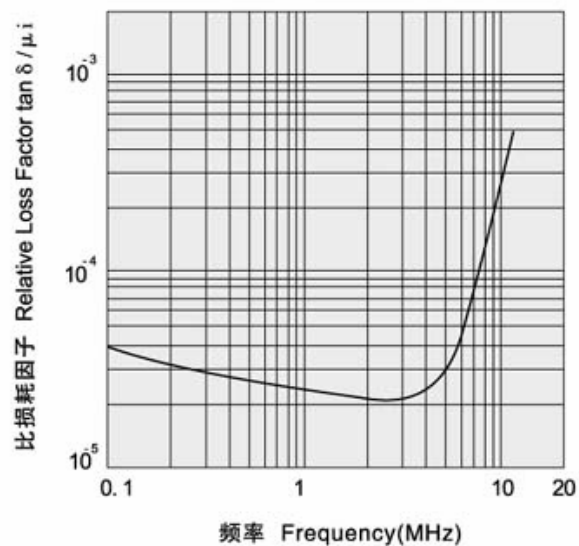
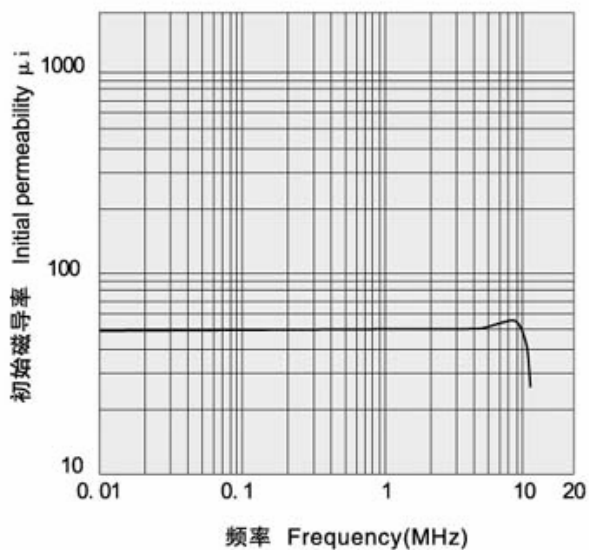
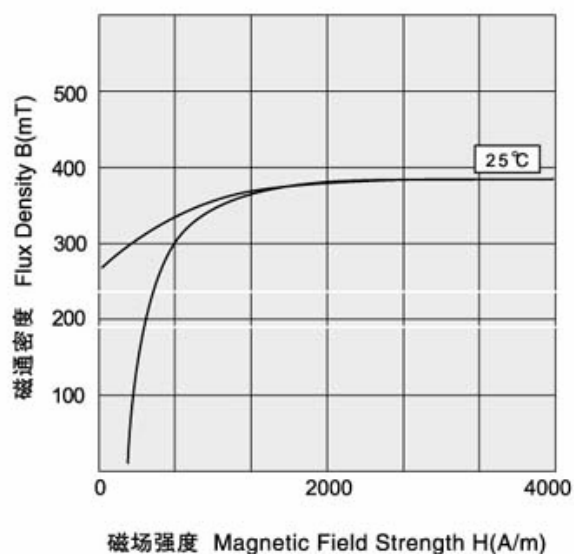
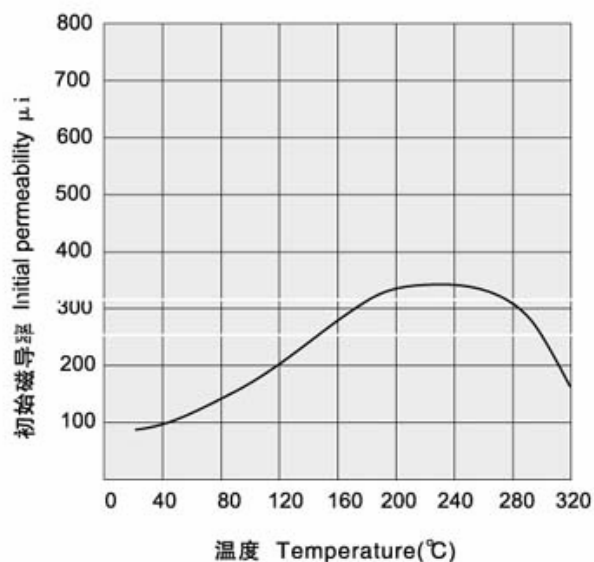
材料 Materials	DN50B	DN65H	DN80H	DN85H	DN100H	DN150H	DN200
初始磁导率 μ_i Initial Permeability	500±25%	650±25%	800±25%	850±25%	1000±25%	1500±25%	2000±25%
工作频率f(MHz) Working Frequency	0.05-1	0.1-1.5	0.1-1.5	0.1-1.5	0.5-1.0	0.01-0.5	0.001-0.5
比损耗因子 $\tan\delta/\mu_i$ Relative Loss Factor	15 (0.1MHz)	20 (0.1MHz)	15 (0.1MHz)	16 (0.1MHz)	15 (0.1MHz)	16 (0.1MHz)	20 (0.1MHz)
饱和磁通密度Bs(mT) Saturation Magnetic Flux Density	440 (4000A/m)	330 (1600A/m)	380 (4000A/m)	350 (1600A/m)	330 (1600A/m)	310 (1600A/m)	290 (1600A/m)
剩磁Br(mT) Remanence	300	150	260	200	130	180	200
矫顽力Hc(A/m) Coercive Force	30	35	20	20	28	20	10
比温度系数 $\alpha\mu_r(\times 10^{-6}/^{\circ}\text{C})$ (20 $^{\circ}\text{C}$ ~60 $^{\circ}\text{C}$) Relative Temperature Coefficient	15-35	2-8	7-20	5-20	5-20	1-6	2-8
居里温度 Tc($^{\circ}\text{C}$) Curie Temperature	>220	>150	>180	>140	>130	>100	>100
电阻率 $\rho(\Omega\cdot\text{m})$ Electrical Resistivity	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵	>10 ⁵
密度 d(g/cm ³) Density	5.2	5.1	5.2	5.1	5.1	5.1	5.1
特点 Characterisitic	高Bs High Bs	低温度系数 Low temperature coefficient	高Bs High Bs	宽频 (EMI) Wide frequency			

注：以上数据是根据标准样环 $\phi 25 \times 15 \times 8$ 获得的典型数据，有关产品的具体性能会在此基础上有所调整。

The above typical data are calculated from the standard toroid core. The specific property of any parts will be adjusted a little based on these data.

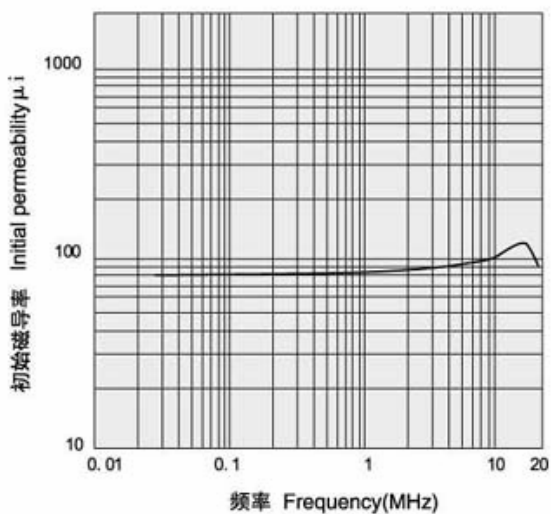
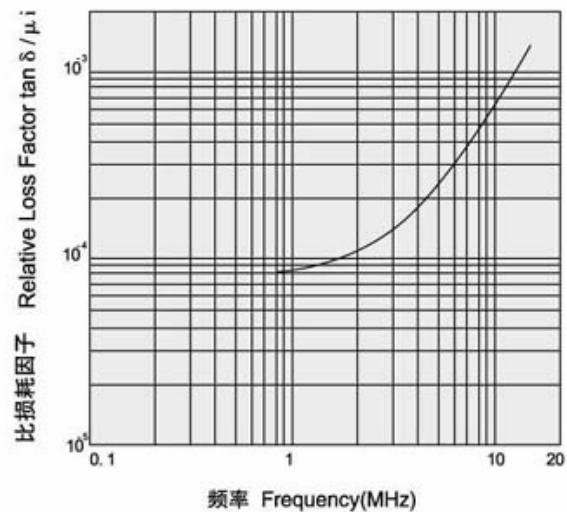
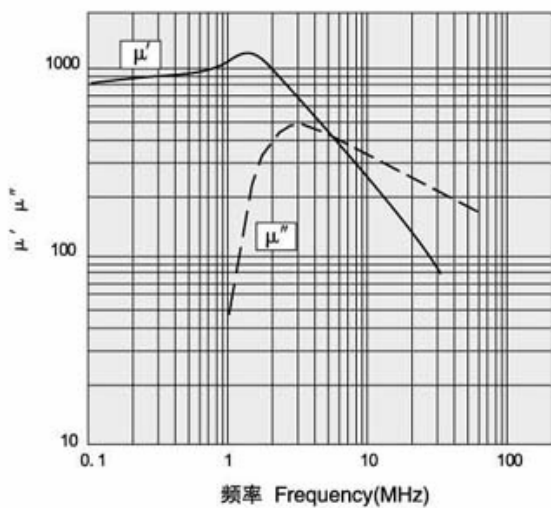
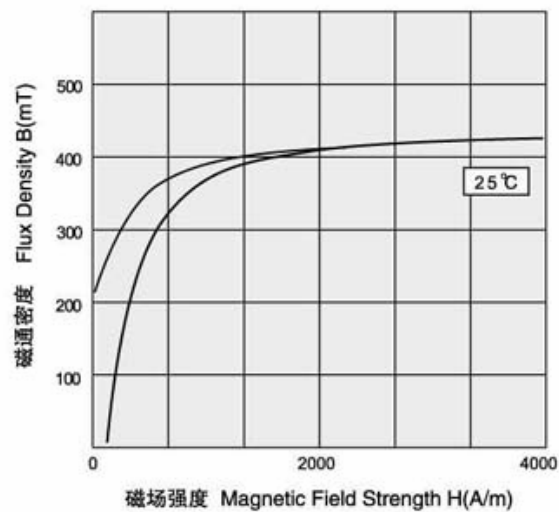
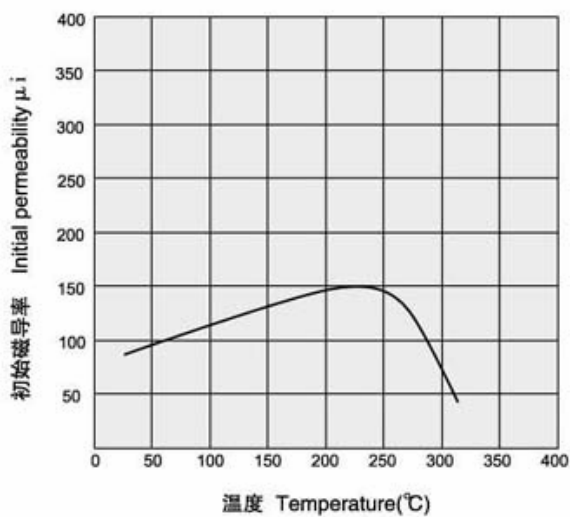
DN5H 材料特性

DN5H Material Characteristics



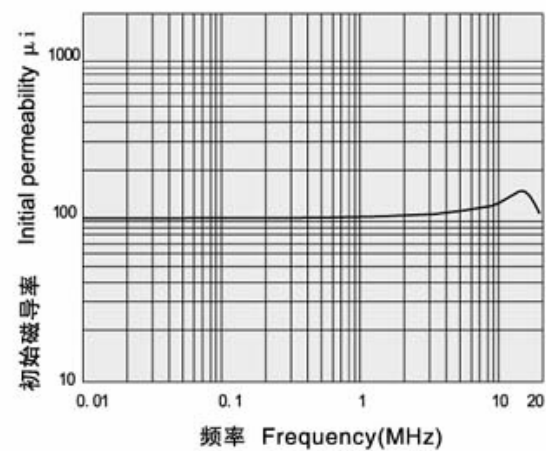
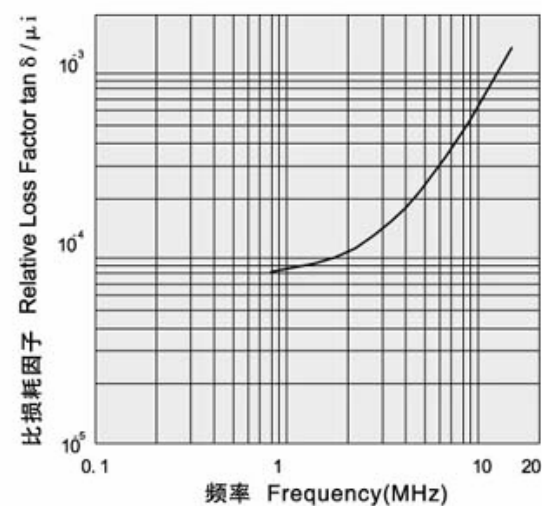
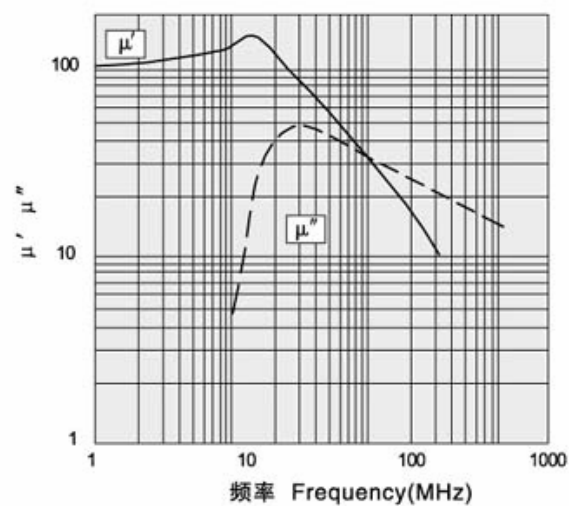
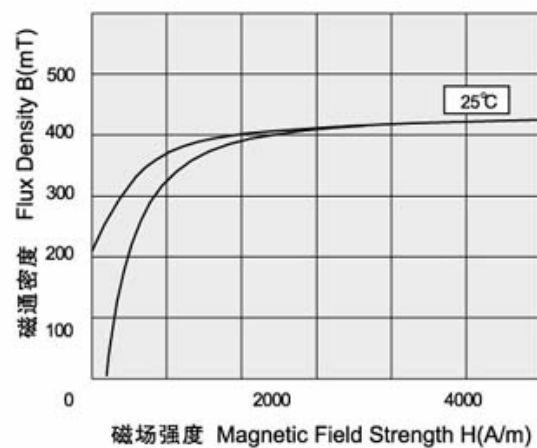
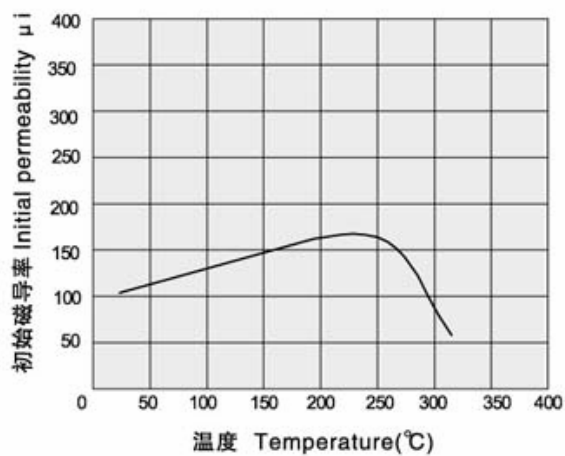
DN8H 材料特性

DN8H Material Characteristics



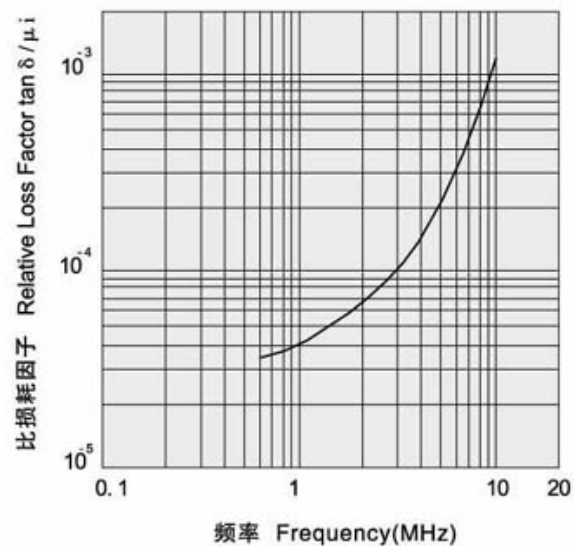
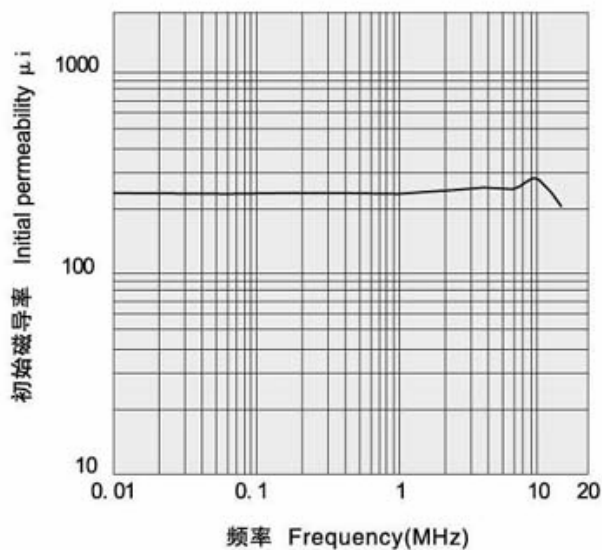
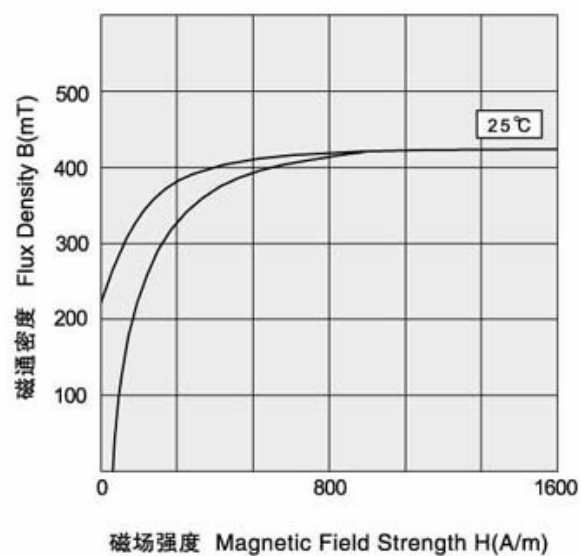
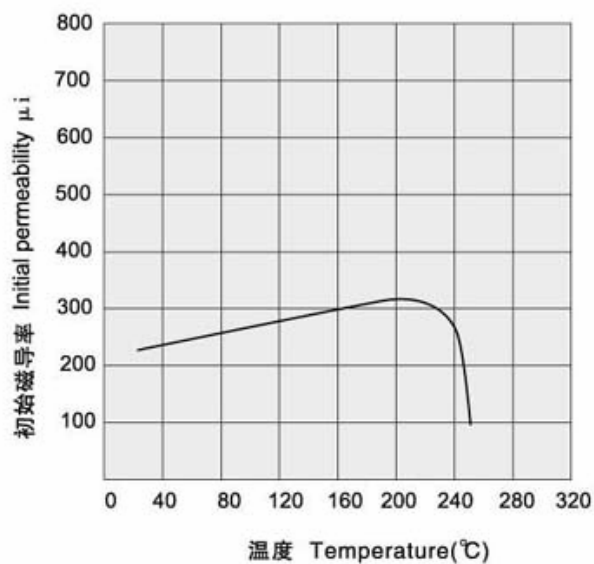
DN10H 材料特性曲线

DN10H Material Characteristics



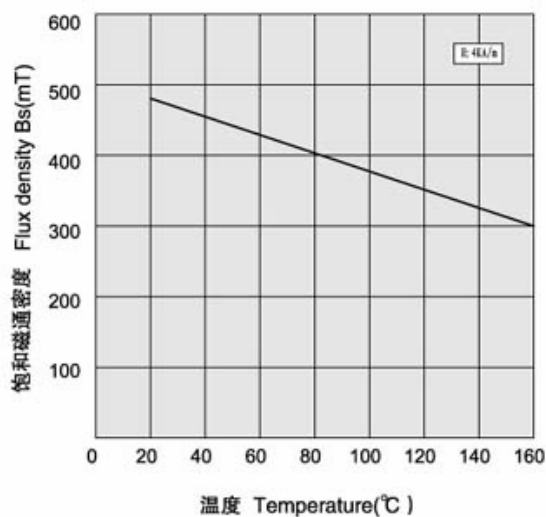
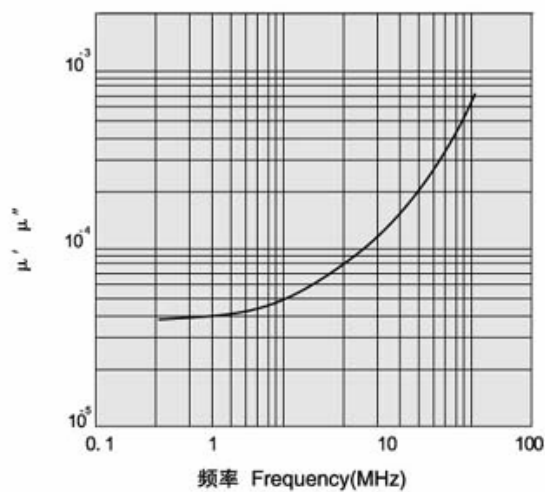
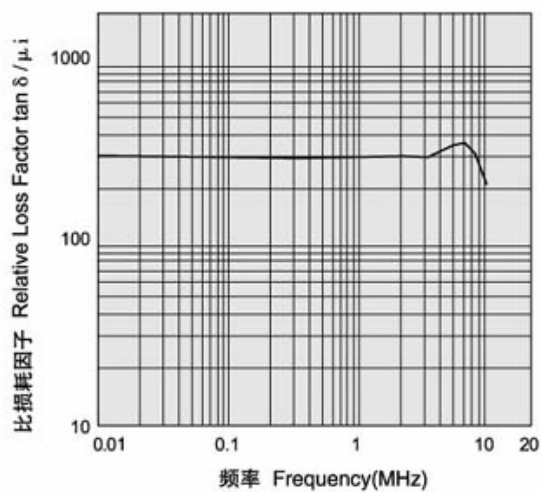
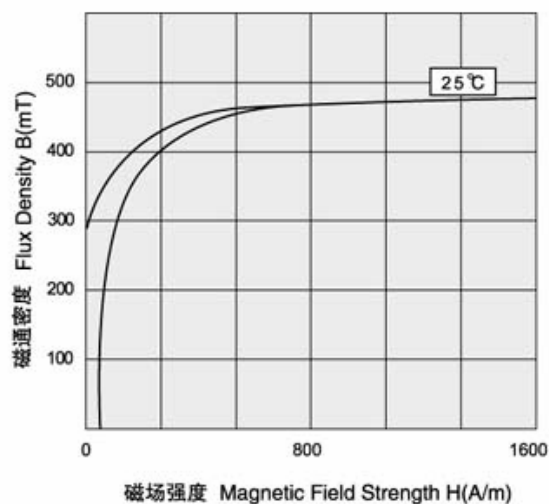
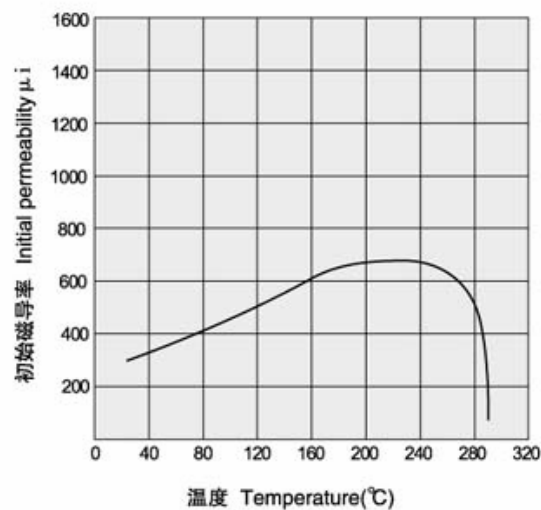
DN25H 材料特性曲线

DN25H Material Characteristics



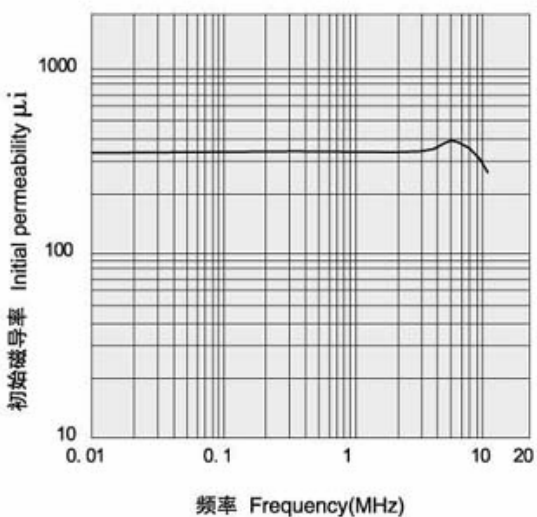
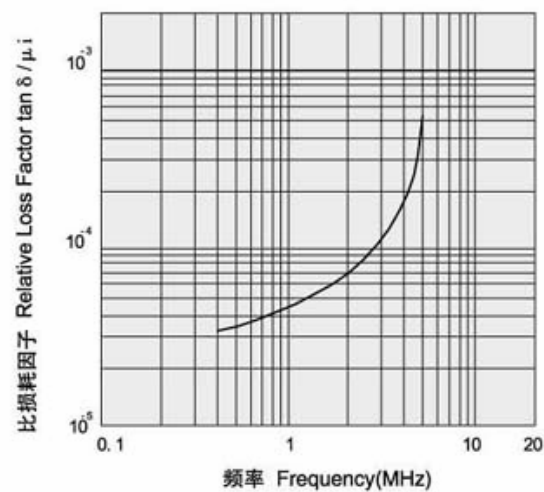
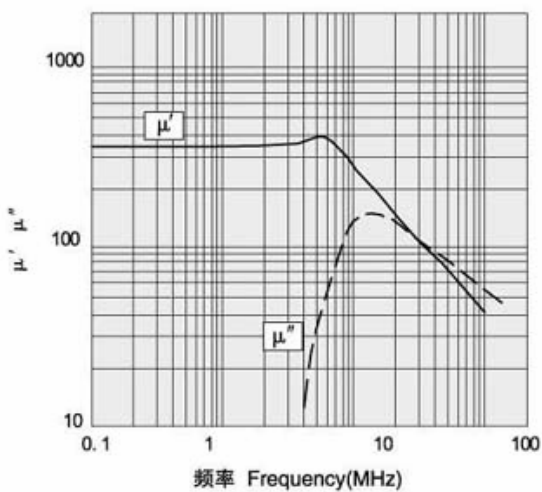
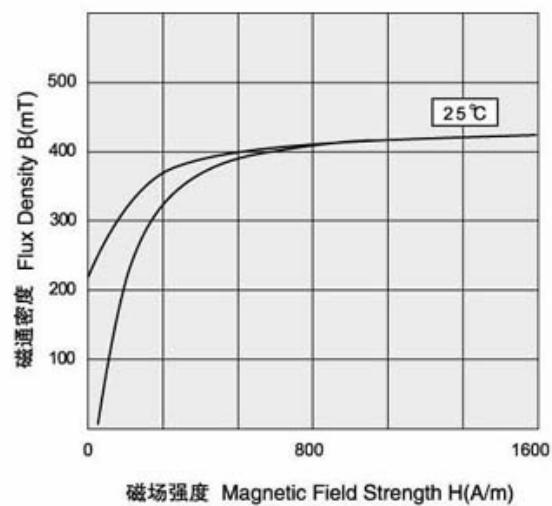
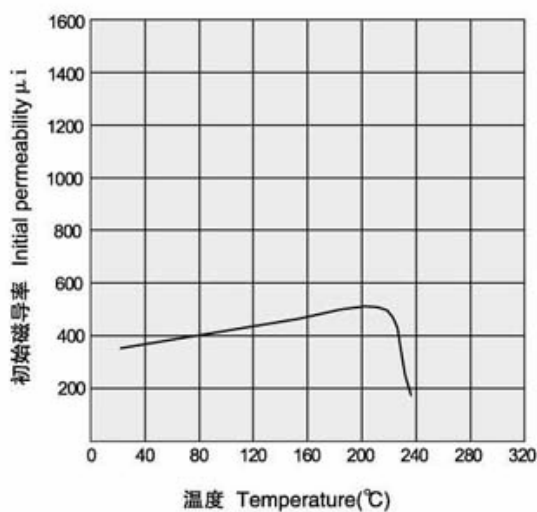
DN30B 材料特性曲线

DN30B Material Characteristics

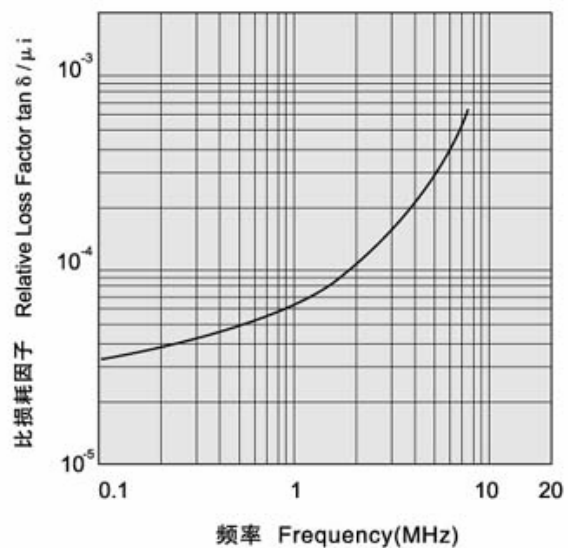
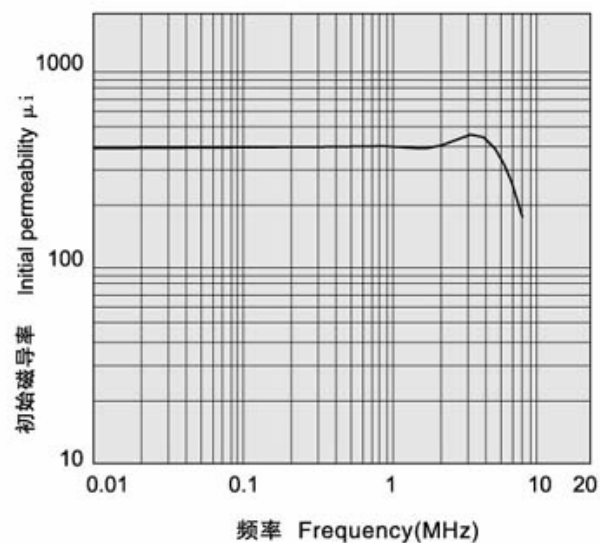
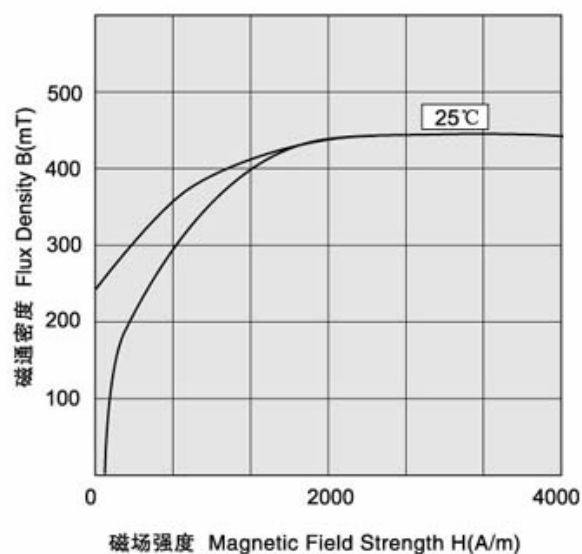
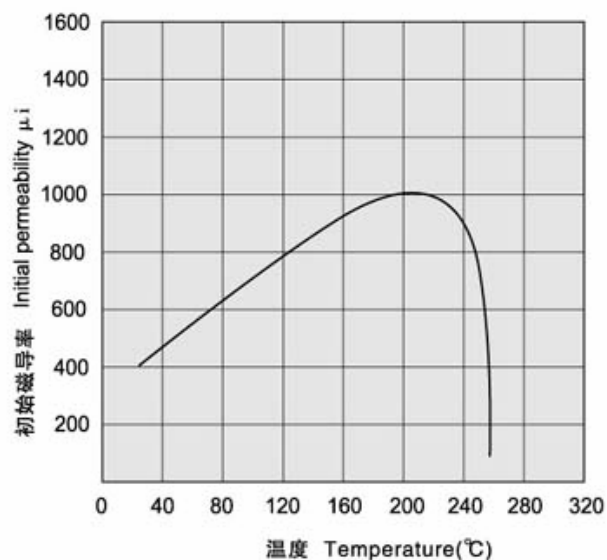


DN35H 材料特性曲线

DN35H Material Characteristics

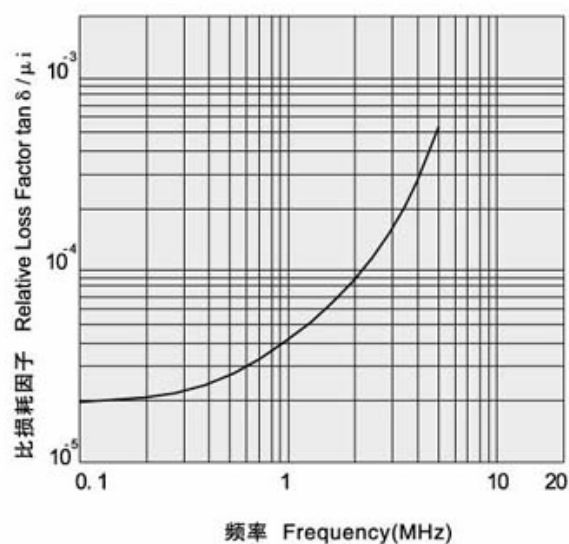
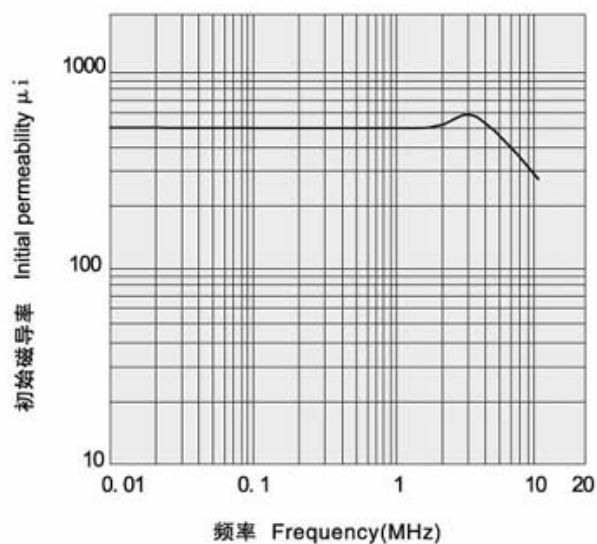
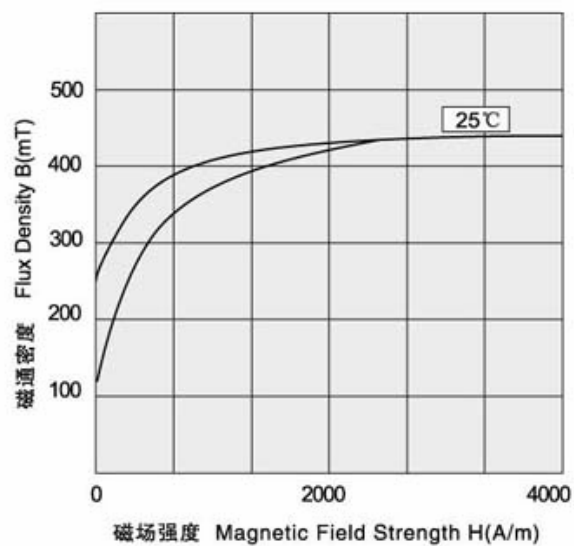
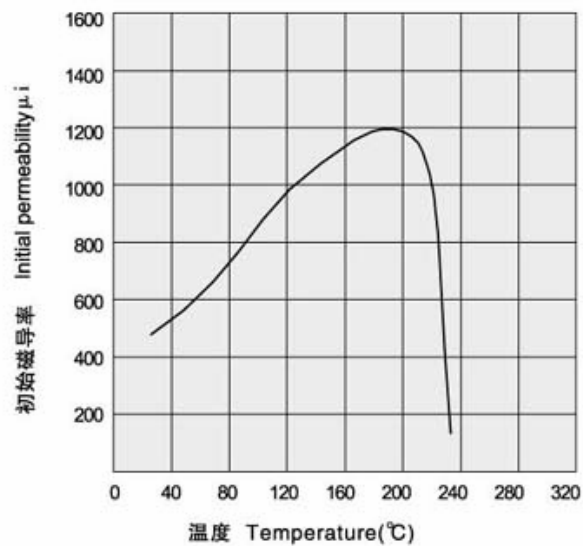


DN40B 材料特性曲线 DN40B Material Characteristics



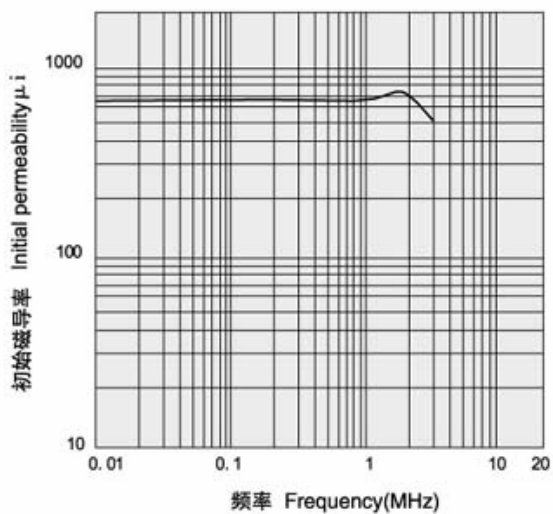
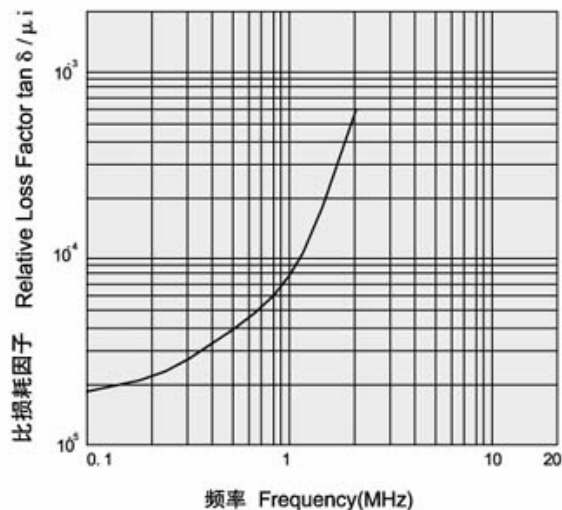
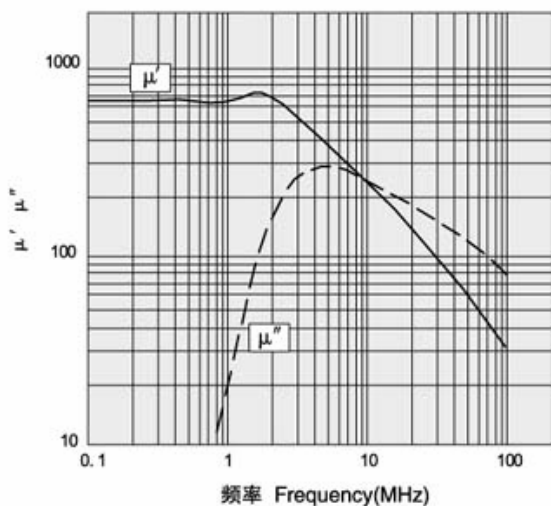
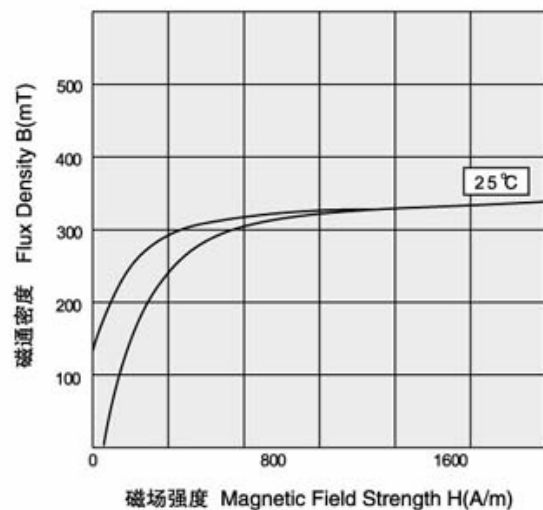
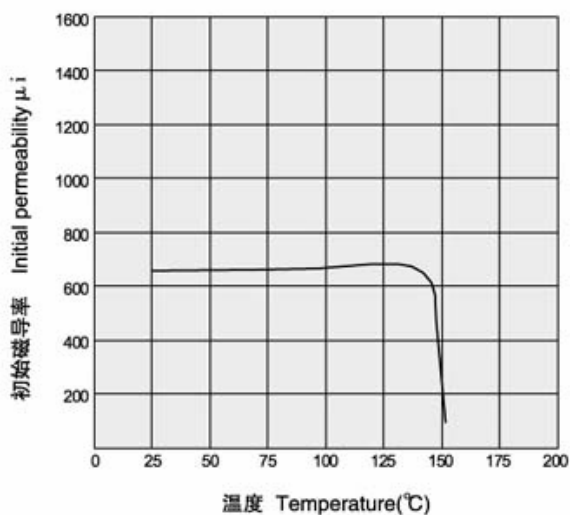
DN50B 材料特性曲线

DN50B Material Characteristics



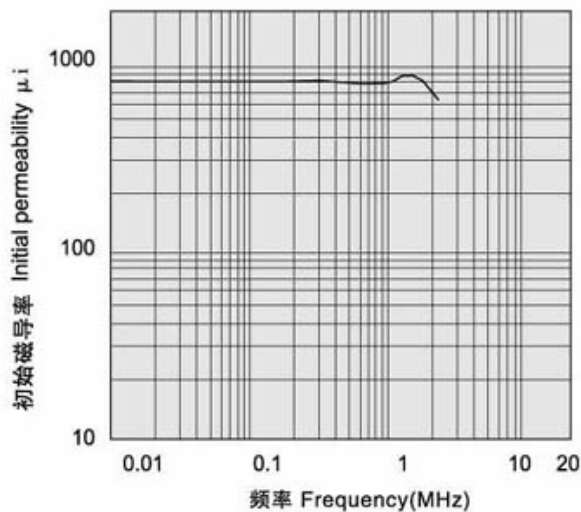
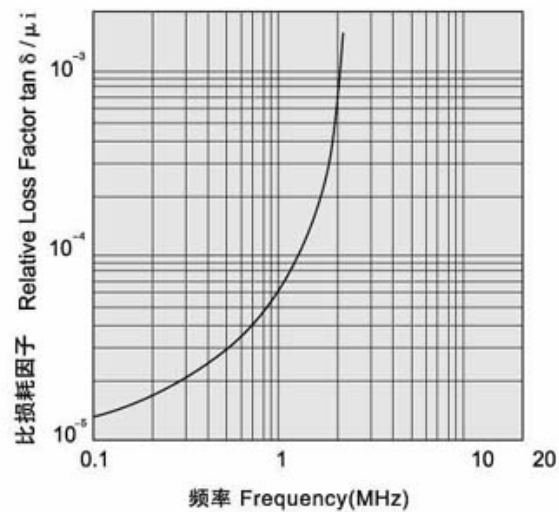
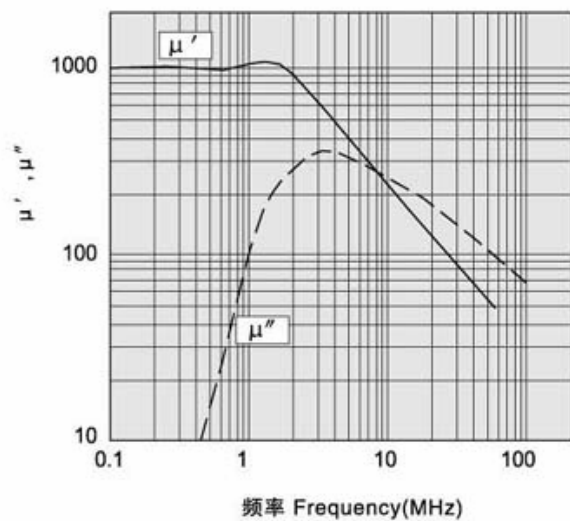
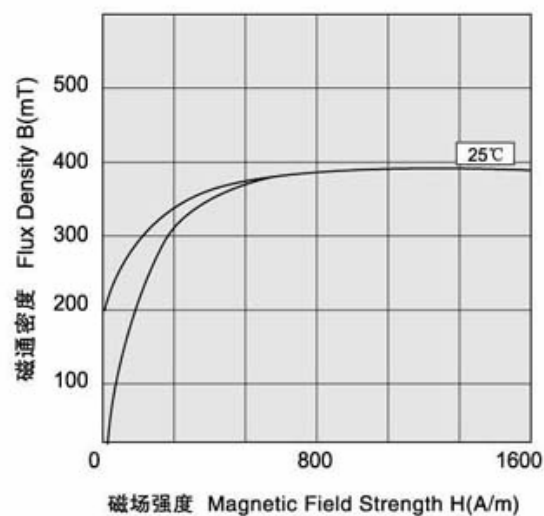
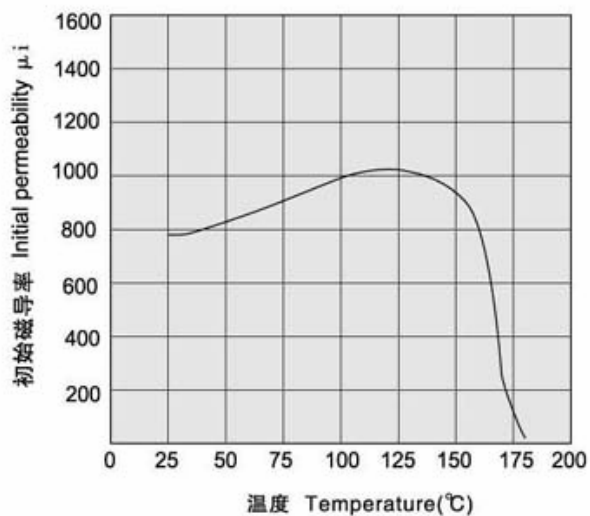
DN65H 材料特性曲线

DN65H Material Characteristics



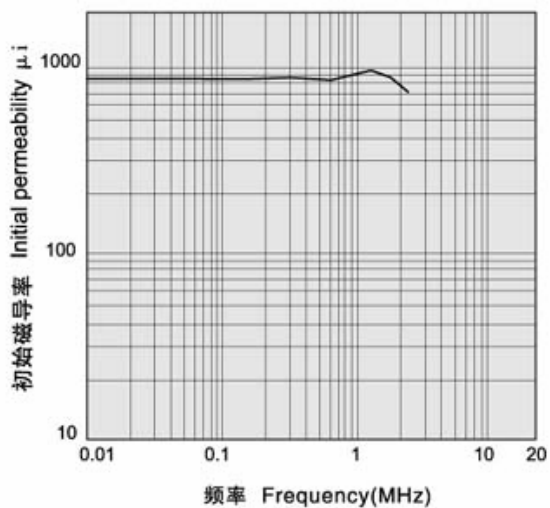
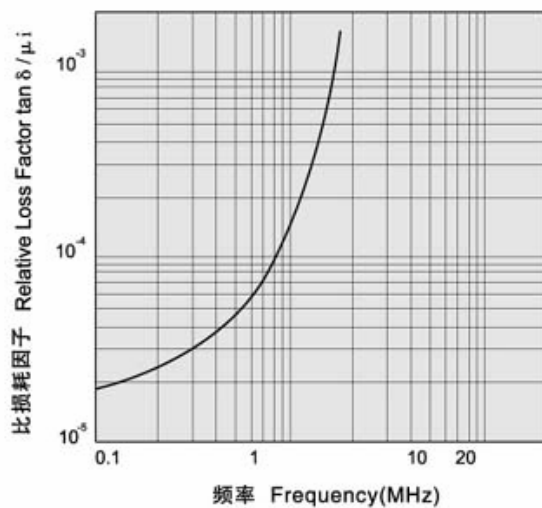
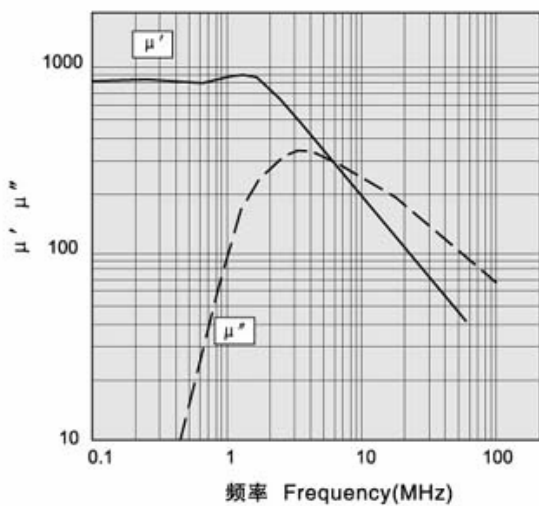
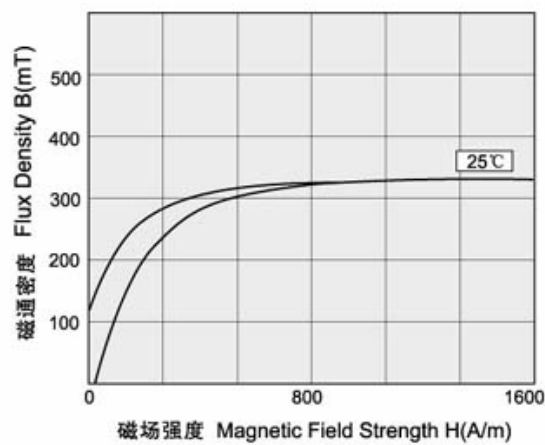
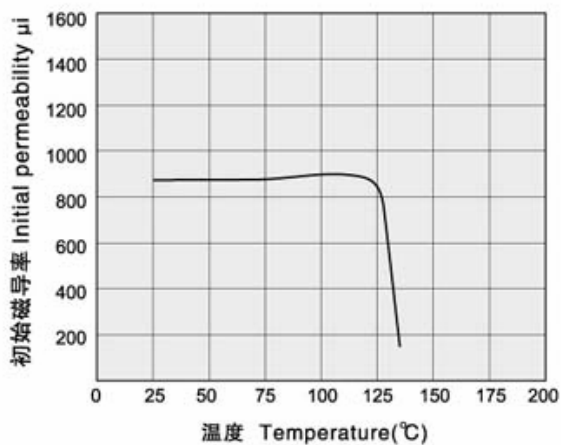
DN80H 材料特性曲线

DN80H Material Characteristics



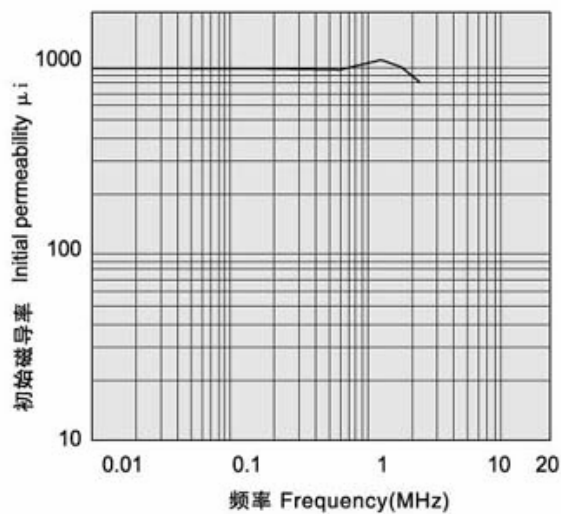
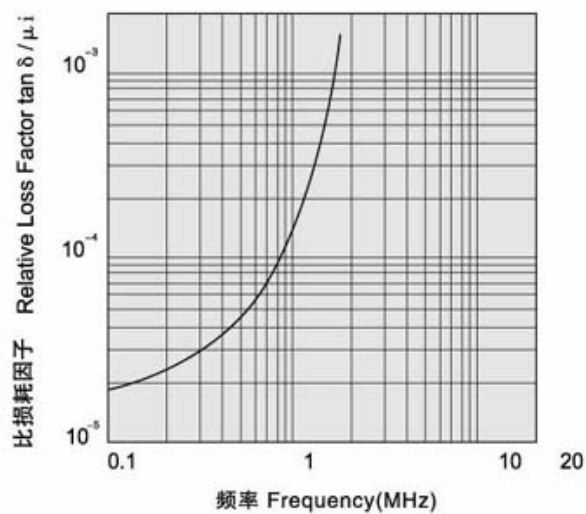
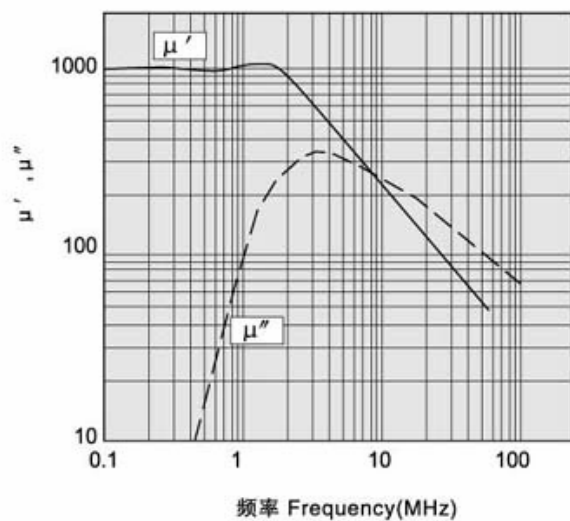
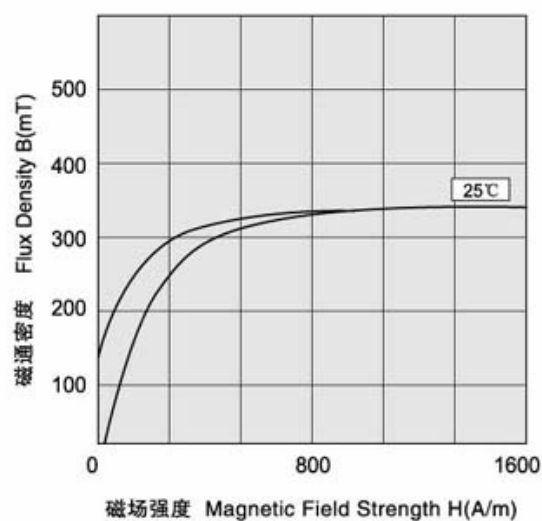
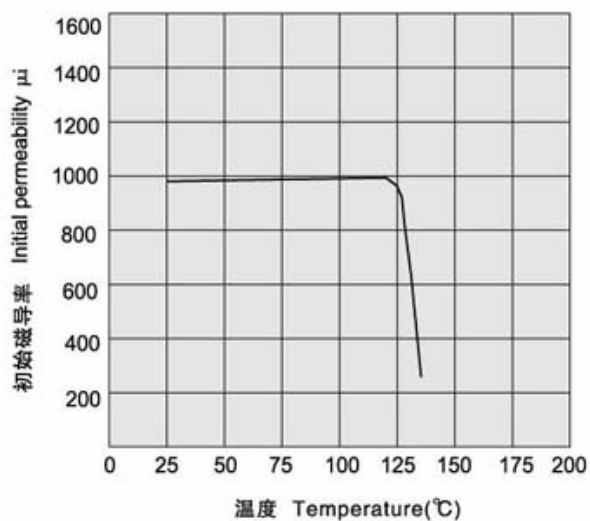
DN85H 材料特性曲线

DN85H Material Characteristics



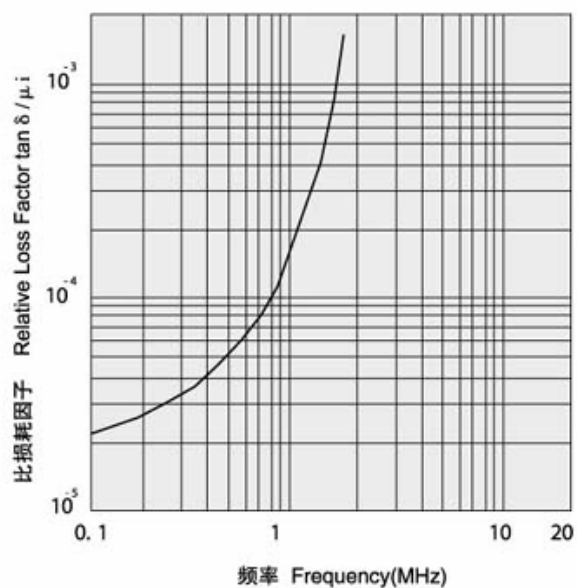
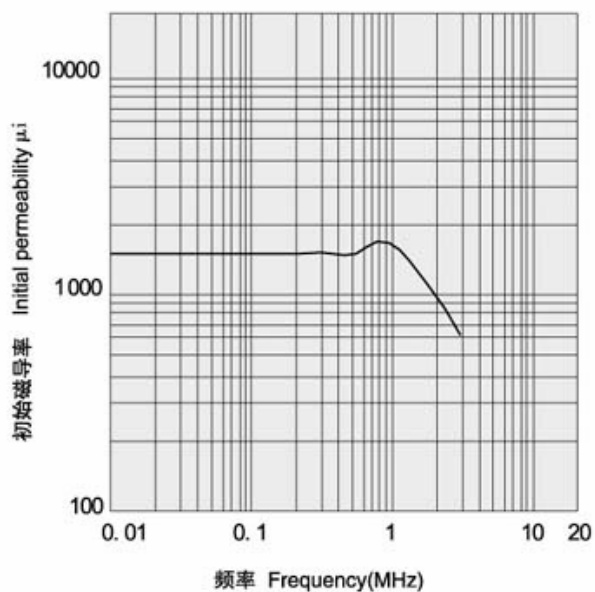
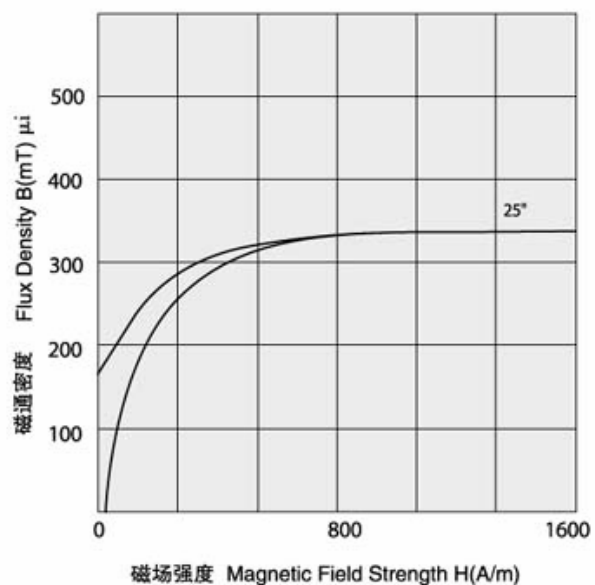
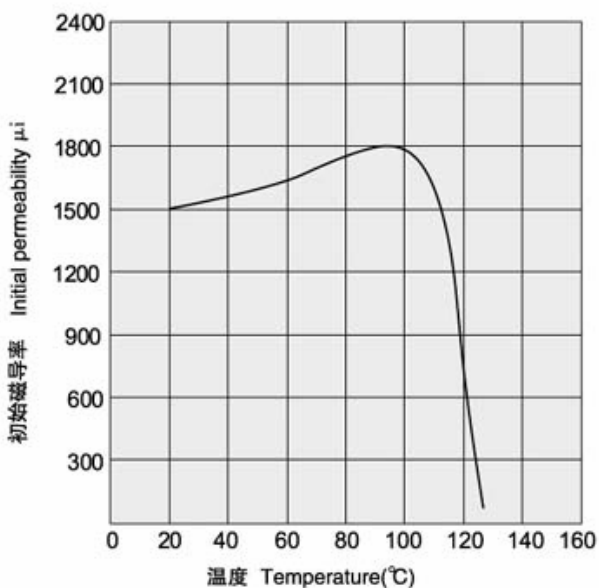
DN100H 材料特性曲线

DN100H Material Characteristics



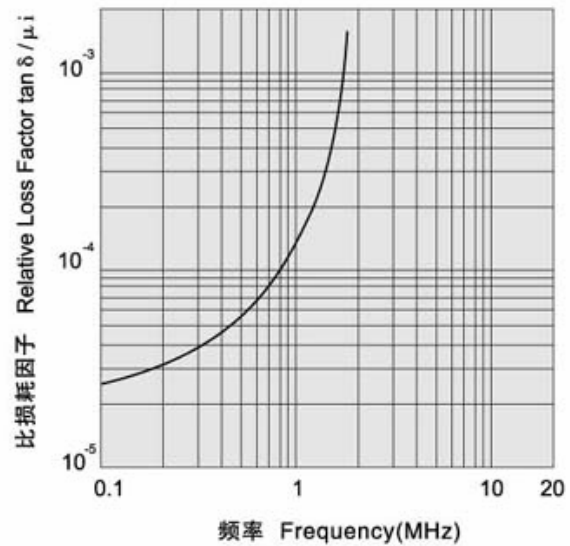
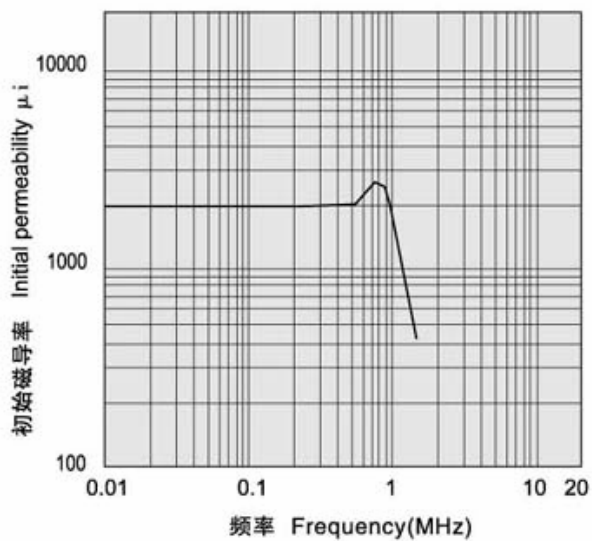
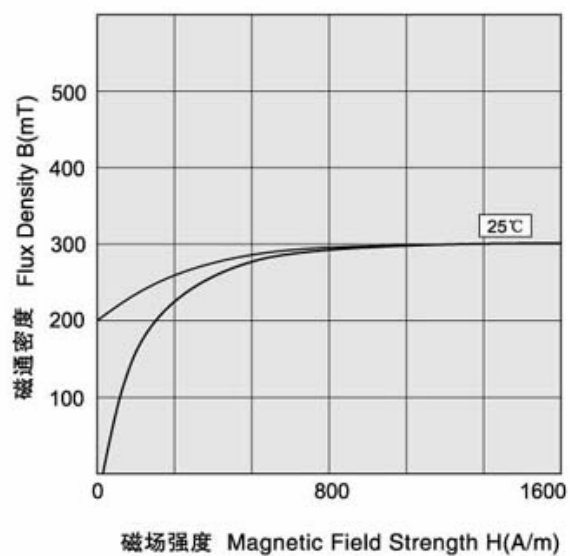
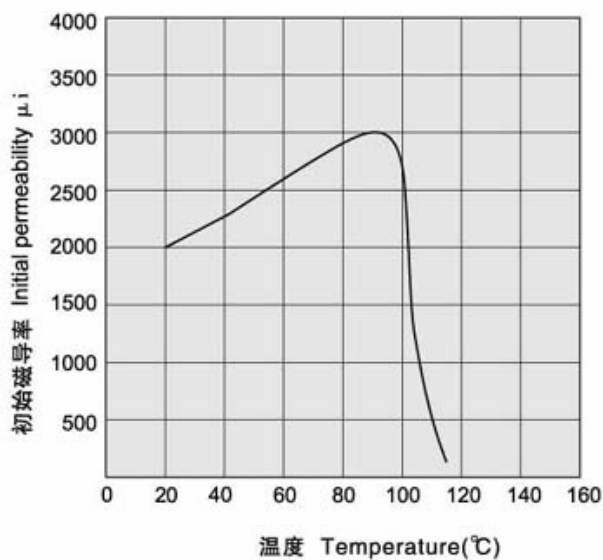
DN150H 材料特性曲线

DN150H Material Characteristics



DN200 材料特性曲线

DN200 Material Characteristics



H 型磁心

H Cores

ORDERING CODE SYSTEM

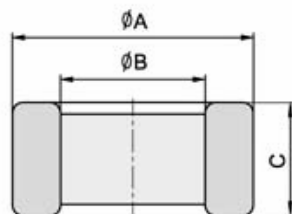


Fig.1

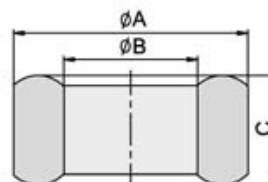


Fig.2

Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

型号 Part number	图号 Fig.	尺寸 Dimensions(mm)			Le (mm)	Ae (mm ²)	Ve (mm ³)	重量 weight (g)	阻抗 Impedance	
		ϕA	ϕB	C					25MHz	100MHz
H2.54x1.27x1.27P	1	2.54±0.15	1.27±0.15	1.27±0.15	6.21	0.775	4.82	0.025	8.2	20
H3.05x1.65x1.65P	1	3.05±0.12	1.65±0.12	1.65±0.12	7.6	1.12	8.52	0.043		
H3.43x1.78x2P	1	3.43±0.12	1.78±0.12	2.0±0.12	8.48	1.59	13.49	0.07		
H3.5x0.8x9P	1	3.5±0.15	0.8±0.1	9.0±0.3	8.06	10.17	82.02	0.42	92	14.2
H3.5x1.3x9P	1	3.5±0.15	1.3±0.15	9.0±0.3	8.18	9.12	74.61	0.38	30	
H3.5x1.5x9P	1	3.5±0.15	1.5±0.15	9.0±0.3	8.33	8.48	70.65	0.36		
H3.5x1.8x9P	1	3.5±0.15	1.8±0.15	9.0±0.3	8.64	7.37	63.65	0.32		
H4x2x2P	1	4.0±0.2	2.0±0.2	2.0±0.2	9.81	1.92	18.84	0.096	7.5	18
H4.3x2.8x2.5	2	4.3±0.15	2.8±0.15	2.5±0.15	11.3	1.85	20.9	0.11	11	
H4.5x2.7x1.2	2	4.5±0.2	2.7±0.2	1.2±0.15	11.51	1.06	12.2	0.062		
H5x3x2P	1	5.0±0.3	3.0±0.3	2.0±0.3	12.82	1.96	25.12	0.13	5	
H5x3x6P	1	5.0±0.3	3.0±0.3	6.0±0.3						
H6x3x12P	1	6.0±0.2	3.0±0.2	12.0±0.5	14.71	17.29	254.34	1.3		
H6.15x3.18x12.34	2	6.15±0.66	3.18±0.46	12.34±0.86	15.19	17.67	268.42	1.4		
H6.3x3.8x2.5P	1	6.3±0.15	3.8±0.15	2.5±0.15	16.19	3.06	49.55	0.25	12	23
H6.4x3.2x5P	1	6.4±0.2	3.2±0.15	5.0±0.2	15.68	7.69	120.57	0.6		
H7x4x3	2	7.0±0.4	4.0±0.3	3.0±0.3	17.74	4.38	77.71	0.4	15	
H7.4x4.3x4P	1	7.4±0.3	4.3±0.2	4.0±0.2	18.82	6.05	113.88	0.6		

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

H型磁心

H Cores

ORDERING CODE SYSTEM

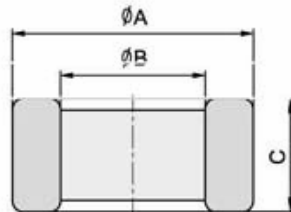
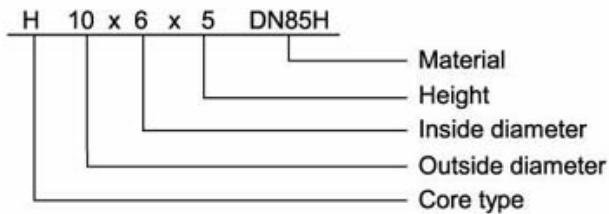


Fig.1

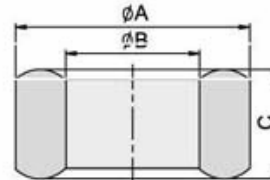


Fig.2

Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

型号 Part number	图号 Fig.	尺寸 Dimensions(mm)			Le (mm)	Ae (mm ²)	Ve (mm ³)	重量 weight (g)	阻抗 Impedance	
		ΦA	ΦB	C					25MHz	100MHz
H7.5x2.39x7.54P	1	7.5±0.2	2.39±0.2	7.54±0.3	17.29	17.3	299.12	1.5		
H8x3.1x9.5P	1	8.0±0.2	3.1±0.2	9.5±0.3	18.77	21.61	405.61	2.1	54	
H8x4x4	2	8.0±0.2	4.0±0.2	4.0±0.2	19.6	7.69	150.72	0.77	18	30
H8.1x4.35x4	2	8.1±0.2	4.35±0.2	4.0±0.2	20.19	7.26	146.59	0.75		
H9x5.3x4.9	2	9.0±0.2	5.3±0.3	4.9±0.2	22.97	8.86	203.51	1	16	
H9.4x4.8x4.67	1、2	9.4±0.25	4.8±0.25	4.67±0.25	23.14	10.35	239.45	1.2	24	
H9.53x4.75x3.2P	1	9.53±0.2	4.75±0.2	3.2±0.2	23.32	7.35	171.46	0.87		
H10x5x5	1、2	10.0±0.3	5.0±0.3	5.0±0.3	24.51	12.01	294.37	1.5	23	
H10x6x5	1、2	10.0±0.3	6.0±0.3	5.0±0.3	25.65	9.79	251.2	1.3	12	25
H10.5x5.5x20	2	10.5±0.3	5.5±0.25	20.0±0.5	26	48.29	1256	6.4	102	155
H11.8x6x4P	1	11.8±0.2	6.0±0.2	4.0±0.2	29.02	11.17	324.17	1.7	19	42
H12x5.6x20P	1	12.0±0.3	5.6±0.2	20±0.3						
H12.7x7.14x6.35P	1	12.7±0.4	7.14±0.3	6.35±0.3	32.02	17.17	549.86	2.8	23	
H12.7x7.9x5P	1	12.7±0.3	7.9±0.3	5.0±0.3	32.94	11.78	388.1	2	18	
H13.2x7.1x12.7P	1	13.2±0.4	7.1±0.3	12.7±0.4	32.9	37.52	1234.5	6.3	57	115
H14x7x7P	1	14.0±0.4	7.0±0.2	7.0±0.2	34.31	23.54	807.76	4.1	29	
H14x8x7	1、2	14.0±0.4	8.0±0.3	7.0±0.3	35.45	20.46	725.34	3.7	26	39
H14x9x6	1、2	14.0±0.4	9.0±0.3	6.0±0.3	36.7	14.76	541.65	2.8	18	49

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

H型磁心

H Cores

ORDERING CODE SYSTEM

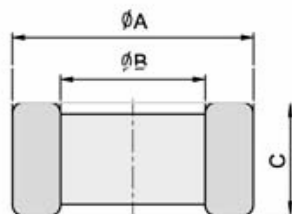
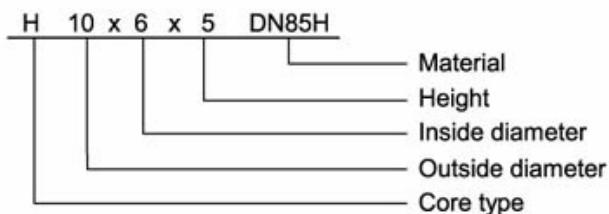


Fig.1

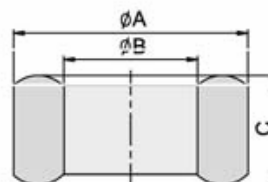


Fig.2

Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

型号 Part number	图号 Fig.	尺寸 Dimensions(mm)			Le (mm)	Ae (mm ²)	Ve (mm ³)	重量 weight (g)	阻抗 Impedance	
		ΦA	ΦB	C					25MHz	100MHz
H14.22x6.35x28.5	2	14.2±0.4	6.35±0.3	28.5±0.7	34.04	106	3609	18.4	175	280
H16x8x30	1、2	16.0±0.5	8.0±0.3	30.0±0.5	39.2	115.3	4521.6	23.1	128	270
H16x9x6	2	16.0±0.5	9.0±0.3	6.0±0.3	40.34	20.43	824.25	4.2	24	
H16x9.6x6.35	1、2	16.0±0.5	9.6±0.3	6.35±0.3	41.08	19.88	816.7	4.2		
H16x10x7P	1	16.0±0.3	10.0±0.3	7.0±0.3	41.57	20.62	857.22	4.4		
H16x12x8	2	16.0±0.5	12.0±0.3	8.0±0.3	44.26	15.89	703.36	3.6	18	56
H17.5x9.5x13.5P	1	17.5±0.4	9.5±0.3	13.5±0.4	43.7	52.35	2289.1	11.7		
H17.5x9.5x28.5	1、2	17.5±0.4	9.5±0.3	28.5±0.7	43.7	110.5	4832.5	24.6	100	150
H17.5x10.7x28.5	2	17.5±0.4	10.7±0.3	28.5±0.7	45.17	94.97	4290.2	21.9	80	120
H18x10x15	2	18.0±0.5	10.0±0.5	15.0±0.3	45.24	58.3	2637.6	13.5	60	135
H18x10.4x7	1、2	18.0±0.3	10.4±0.2	7.0±0.2	45.72	25.94	1186	6	24	
H18.5x9.7x7.4P	1	18.5±0.3	9.7±0.3	7.4±0.3	45.83	31.45	1441.5	7.4		
H20x10x10	1、2	20.0±0.5	10.0±0.3	10.0±0.3	49.02	48.04	2355	12	50	100
H20x12x15	2	20.0±0.5	12.0±0.3	15.0±0.3	51.34	58.71	3014.4	15.4		
H20.3x6.6x15P	1	20.3±0.4	6.6±0.3	15.0±0.3						
H21x13.8x8	2	21.0±0.4	13.8±0.3	8.0±0.3						
H22x14x8	2	22.0±0.5	14.0±0.3	8.0±0.3	57.48	31.46	1808.6	9.2		

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

H型磁心

H Cores

ORDERING CODE SYSTEM

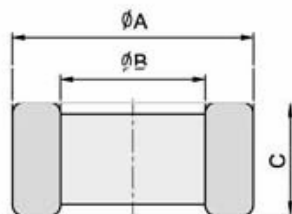
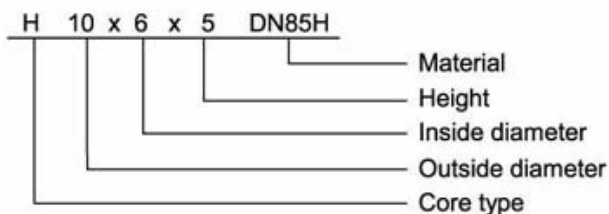


Fig.1

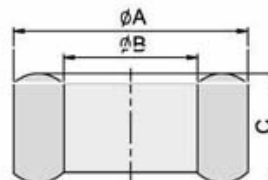


Fig.2

Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

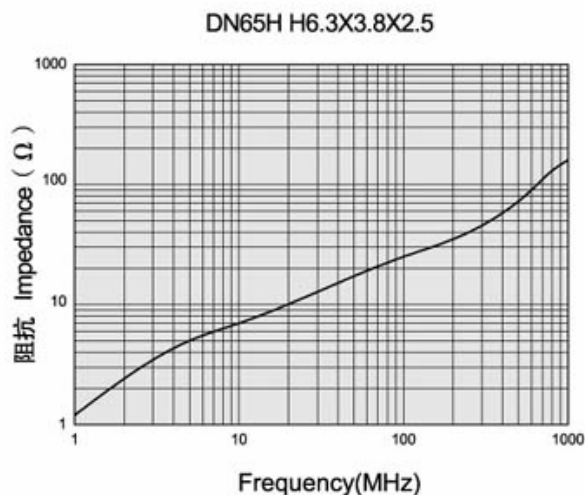
型号 Part number	图号 Fig.	尺寸 Dimensions(mm)			Le (mm)	Ae (mm ²)	Ve (mm ³)	重量 weight (g)	阻抗 Impedance	
		ΦA	ΦB	C					25MHz	100MHz
H23.1x13.7x6.9	2	23.1±0.6	13.7±0.4	6.9±0.4	59.1	31.7	1873.6	9.6	34	70
H25x15x12	1、2	25.0±0.4	15.0±0.4	12.0±0.3	64.17	58.71	3768	19.2	45	80
H25.9x12.8x28.5P	1	25.9±0.5	12.8±0.4	28.5±0.7	63.33	179.1	11342	57.8	125	182
H28x16x13	2	28.0±0.5	16.0±0.4	13.0±0.3	70.91	75.99	5388.2	27.5	33	88
H29x19x15	1、2	29.0±0.5	19.0±0.4	15.0±0.3	76.49	73.89	5652	28.8	24	
H30.5x19.4x8	2	30.5±0.5	19.4±0.4	8.0±0.3	79.69	43.65	3478.4	17.7		
H30x20x8P	1	30.0±0.5	20.0±0.4	8.0±0.3	79.57	39.46	3140	16		
H31x19x13	1、2	31.0±0.5	19.0±0.5	13.0±0.4	80.08	76.46	6123	31.2	20	50
H36x23x15	1、2	36.0±0.8	23.0±0.6	15.0±0.5	94.19	95.88	9031.4	46.1	59	100
H37.5x26x15	2	37.5±0.8	26.0±0.6	15.0±0.5	100.81	85.29	8598.6	43.9		
H38x19x13P	1	38.0±0.8	19.0±0.5	13.0±0.5	93.13	118.67	11052	56.4	57	91
H38x22x15P	1	38.0±0.8	22.0±0.5	15.0±0.5	96.57	117.05	11304	57.7	53	91.5
H38.1x25.4x15.9P	1	38.1±0.8	25.4±0.5	15.9±0.5	101.06	99.59	10065	51.3		
H47x27x15	1、2	47.0±0.8	27.0±0.6	15.0±0.5	119.19	146.21	17427	88.9		102
H48x30x15	2	48.0±0.8	30.0±0.6	15.0±0.5	124.73	132.54	16532	84.3	46	81
H50x25x20P	1	50.0±0.8	25.0±0.6	20.0±0.5	122.54	240.22	29437	150	80	120
H63x38x25P	1	63.0±1.0	38.0±0.8	25.1±0.6	161.98	305.92	49553	253	70	100

注：其它尺寸可以根据需求来制作。

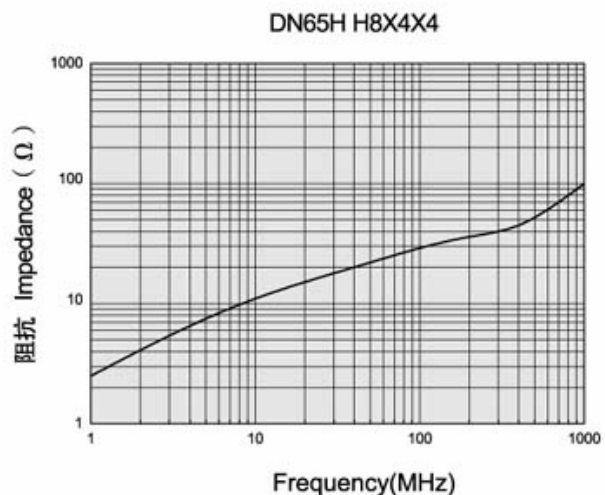
REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

典型 EMI 抑制磁心阻抗曲线 (一)

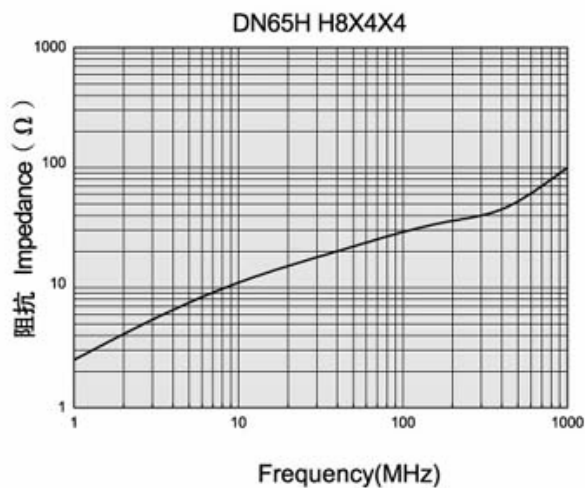
Typical EMI Suppression Cores Impedance Curve (一)



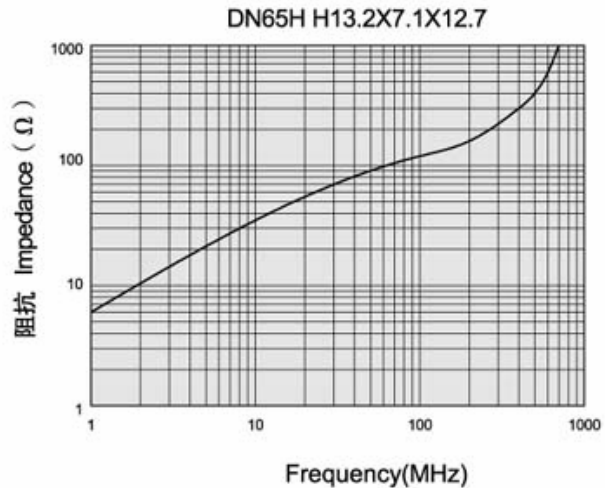
TEST WIRE: 2UEW0.65X25.4mm 1/2Ts
TEST MEIER: HP4291B



TEST WIRE: 2UEW0.65X25.4mm 1/2Ts
TEST MEIER: HP4291B



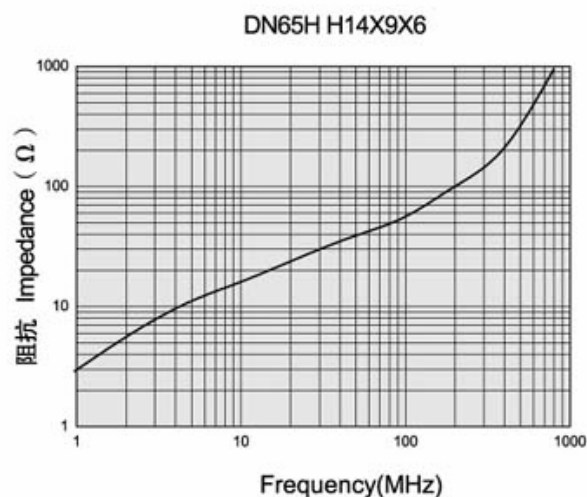
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TEST MEIER: HP4291B



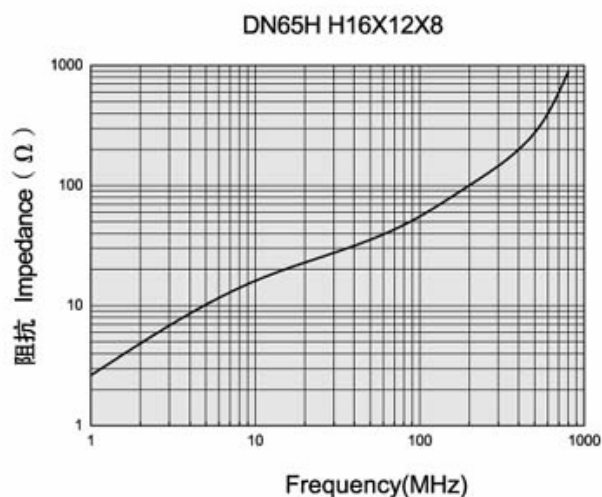
TEST WIRE: 2UEW1.0X100mm 1/2Ts
TEST MEIER: HP4291B

典型 EMI 抑制磁心阻抗曲线 (二)

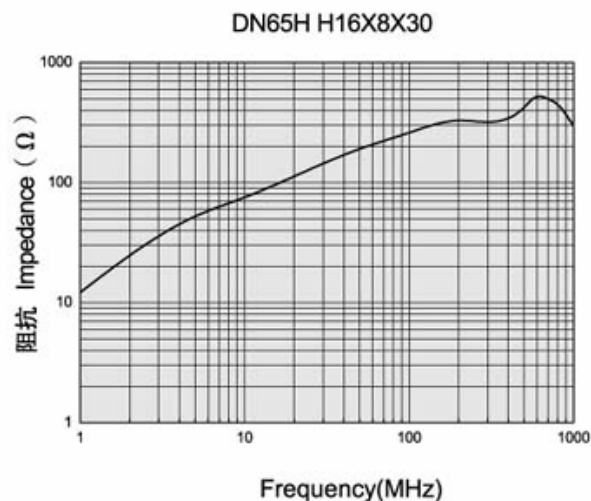
Typical EMI Suppression Cores Impedance Curve (二)



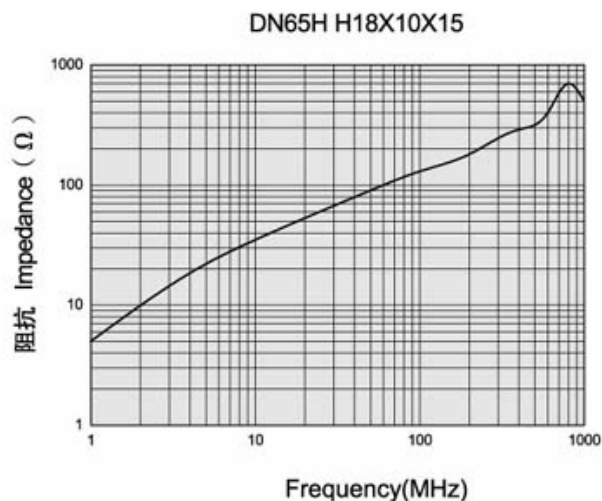
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TEST MEIER: HP4291B



TEST WIRE: 2UEW1.0X100mm 1/2Ts
TEST MEIER: HP4291B



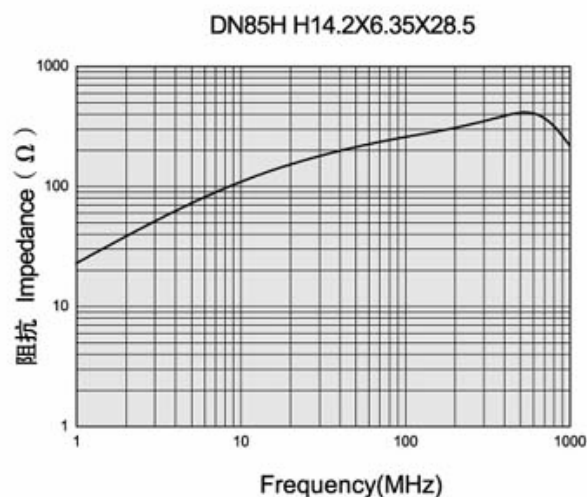
TEST WIRE: 2UEW1.0X100mm 1/2Ts
TEST MEIER: HP4291B



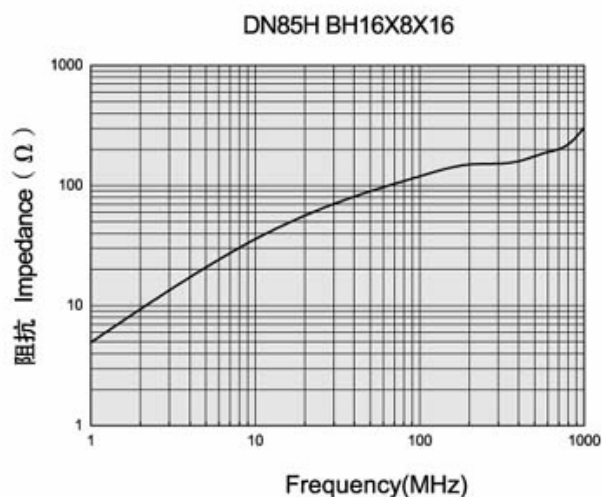
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TEST MEIER: HP4291B

典型 EMI 抑制磁心阻抗曲线 (三)

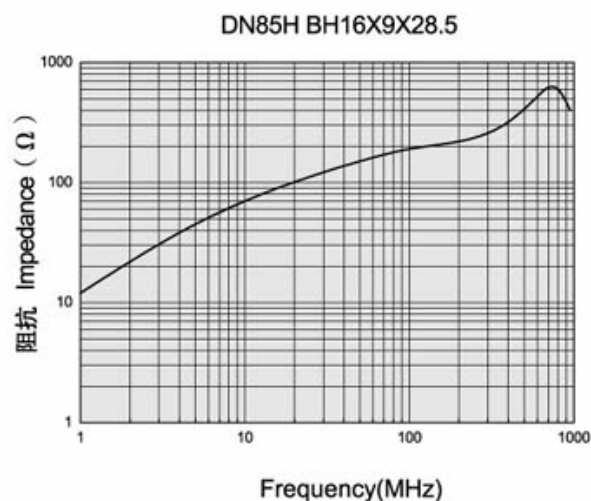
Typical EMI Suppression Cores Impedance Curve (三)



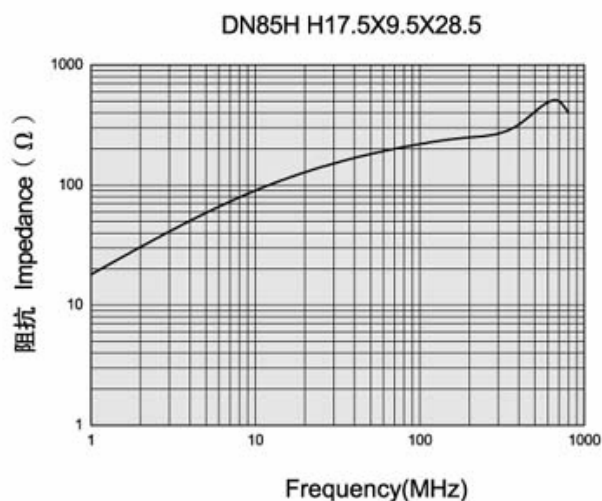
TEST WIRE: 2UEW1.0X100mm 1/2Ts
TEST MEIER: HP4291B



TEST WIRE: 2UEW0.5X38mm 1/2Ts
TEST MEIER: HP4291B



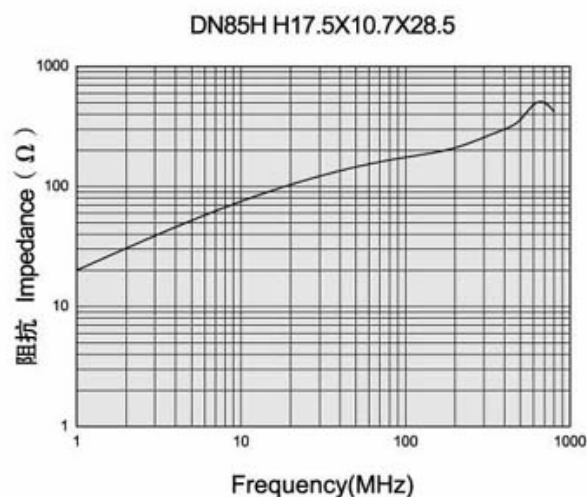
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TEST MEIER: HP4291B



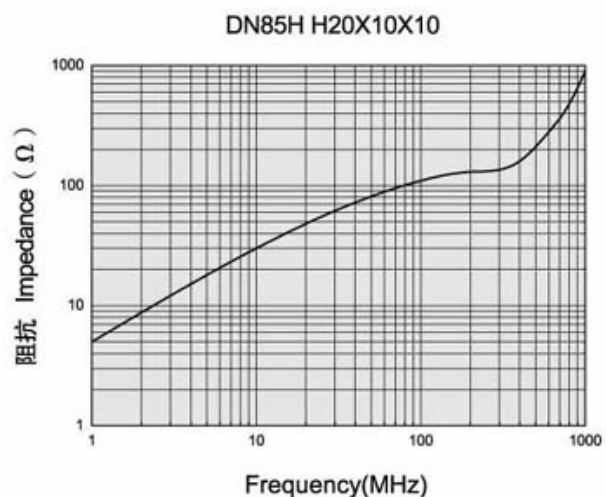
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TEST MEIER: HP4291B

典型 EMI 抑制磁心阻抗曲线 (四)

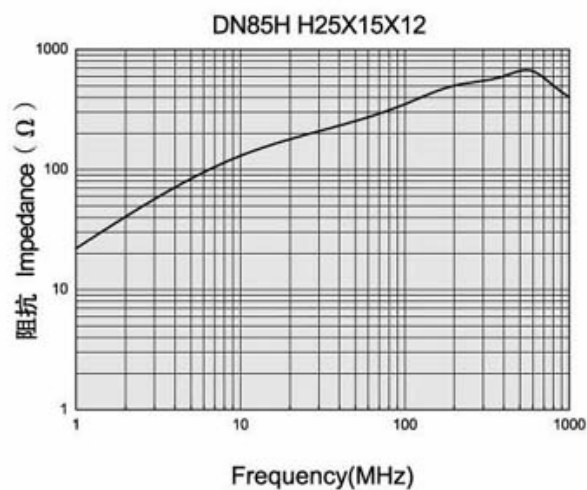
Typical EMI Suppression Cores Impedance Curve (四)



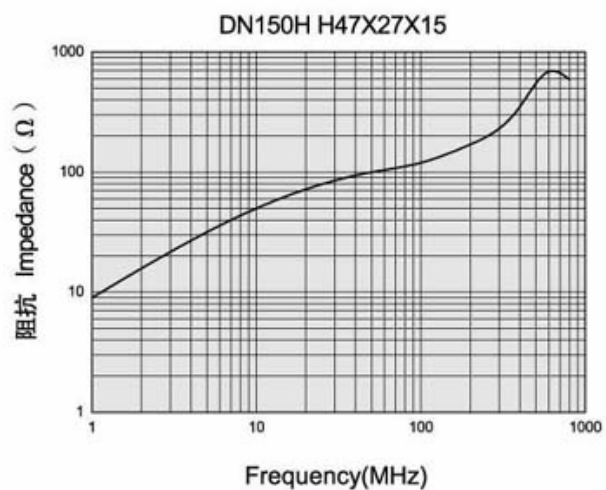
TEST WIRE: 2UEW1.0X100mm 1/2Ts
TEST MEIER: HP4291B



TEST WIRE: 2UEW1.0X70mm 1/2Ts
TEST MEIER: HP4291B



TEST WIRE: 2UEW0.65X120mm 1/2Ts
TEST MEIER: HP4291B

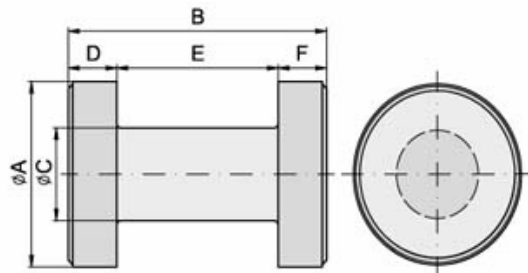


TEST WIRE: 2UEW1.0X100mm 1/2Ts
TEST MEIER: HP4291B

I 型磁心

I Cores

ORDERING CODE SYSTEM



Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

型号 Part number	尺寸 Dimensions(mm)						重量 weight (g)
	ΦA	B	ΦC	D	E	F	
I 2.53x1.1x1.9	2.53±0.05	1.9±0.1	1.1±0.1	0.5±0.1	0.9±0.1	0.5±0.1	0.03
I 3.7x1.7x2.3	3.7±0.07	2.3±0.1	1.7±0.06	0.5±0.07	1.3±0.07	0.5±0.07	0.07
I 4.2x1.4x2	4.2±0.12	2.0±0.15	1.4±0.1	0.5±0.1	1.0±0.15	0.5±0.1	0.08
I 4.2x1.65x2.26	4.2±0.12	2.26±0.1	1.65±0.1	0.5±0.1	1.26±0.15	0.5±0.1	0.09
I 4.5x1.4x2.1	4.5±0.05	2.1±0.1	1.4±0.1	0.5±0.1	1.1±0.1	0.5±0.1	0.09
I 5.3x2.45x2.45	5.3±0.1	2.45±0.15	2.45±0.1	0.5±0.1	1.45±0.15	0.5±0.1	0.15
I 5.3x2.55x2.8	5.3±0.1	2.8±0.15	2.55±0.1	0.5±0.1	1.8±0.15	0.5±0.1	0.16
I 6x2.8x8	6.0±0.15	8.0±0.3	2.8±0.2	2.0±0.1	4.0±0.1	2.0±0.1	0.7
I 6.5x3x7.5	6.5±0.2	7.5±0.2	3.0±0.1	1.75±0.1	4.0±0.1	1.75±0.1	0.7
I 6.95x2.7x3	6.95±0.2	3.0±0.2	2.7±0.15	0.7±0.1	1.6±0.15	0.7±0.1	0.3
I 7.8x3x5.5	7.8±0.1	5.5±0.15	3.0±0.12	1.15±0.1	3.2±0.15	1.15±0.1	0.7
I 8x3.5x11	8.0±0.2	11.0±0.2	3.5±0.2	2.0±0.15	7.0±0.15	2.0±0.15	1.4
I 8x6x12	8.0±0.15	12±0.2	6.0±0.15	1.8ref	8.4±0.2	1.8ref	2.2
I 8.3x4.5x10	8.3 ⁰ _{±0.3}	10.0±0.2	4.5±0.15	1.05±0.15	7.9±0.15	1.05±0.15	1.2
I 8.5x4x4.3	8.5±0.15	4.3±0.15	4.0±0.12	1.0±0.15	2.3±0.15	1.0±0.15	0.7
I 8.5x3.45x2.8	8.5±0.2	2.8±0.15	3.45±0.15	0.75±0.15	1.3±0.15	0.75±0.15	0.5
I 9x4x12	9.0±0.2	12.0±0.2	4.0±0.15	2.0±0.15	8.0±0.15	2.0±0.15	1.8
I 9.9x5.0x4.9	9.9±0.15	4.9±0.15	5±0.15	1.05±0.1	2.8±0.1	1.05±0.1	1.1
I 9.9x5.2x3.65	9.9±0.15	3.65±0.15	5.2±0.15	0.825±0.1	2.0±0.15	0.825±0.1	0.9
I 9.9x6.4x7	9.9±0.15	7.0±0.15	6.4±0.15	1.1±0.1	4.8±0.15	1.1±0.1	1.7

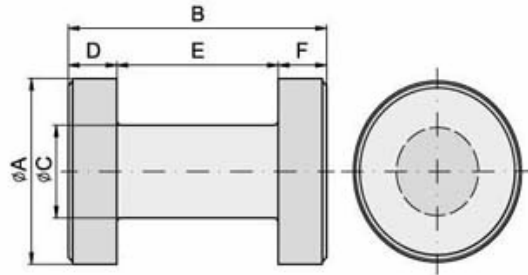
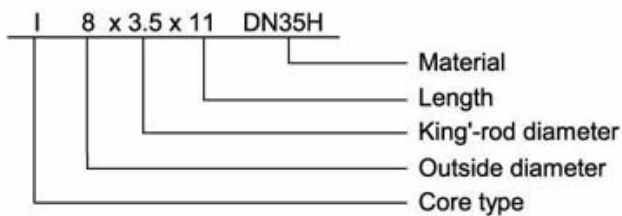
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

ORDERING CODE SYSTEM



Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

型号 Part number	尺寸 Dimensions(mm)						重量 weight (g)
	ΦA	B	ΦC	D	E	F	
I 10x3x12	10.0±0.2	12.0±0.15	3.0±0.2	2.0±0.2	8.0±0.2	2.0±0.2	1.9
I 10x5.25x5.2	10.0±0.2	5.2±0.2	5.25±0.15	1.1±0.1	3.0±0.15	1.1±0.1	1.2
I 11.18x5.1x4.19	11.18±0.25	4.19±0.12	5.1±0.15	0.84±0.1	2.51±0.15	0.84±0.1	1.1
I 12x5.2x15	12.0±0.2	15.0±0.3	5.2±0.15	2.5±0.2	10.0±0.2	2.5±0.2	4
I 12x6x20	12.0 ⁺⁰ _{-0.2}	20.0±0.3	6.0±0.15	3.0±0.2	14.0±0.2	3.0±0.2	5.5
I 12.7x5.8x5.8	12.7±0.15	5.8±0.15	5.8±0.15	1.3±0.15	3.2±0.15	1.3±0.15	2.1
I 13x5x15	13.0±0.2	15.0±0.3	5.0±0.15	3.0±0.2	9.0±0.2	3.0±0.2	5
I13x6.4x13	13.0±0.2	13.0±0.25	6.4±0.15	3.0±0.2	7.0±0.2	3.0±0.2	5.2
I14x4.9x15	14.0±0.2	15.0±0.3	4.9±0.15	2.5±0.2	10.0±0.3	2.5±0.2	4.9
I14x6x15	14.0±0.2	15.0±0.3	6.0±0.15	2.5±0.2	10.0±0.3	2.5±0.2	5.4
I14x8x20	14.0±0.2	20.0±0.3	8.0±0.15	4.0±0.25	12.0±0.25	4.0±0.25	9.4
I 15x8.5x25	15.0±0.2	25.0±0.4	8.5±0.2	2.5±0.2	20.0±0.2	2.5±0.2	10.3
I 15x9.5x27.5	15.0±0.2	27.5±0.4	9.5±0.2	3.75±0.25	20.0±0.25	3.75±0.25	14
I 15x9.8x23	15.0±0.2	23.0±0.4	9.8±0.2	2.5±0.3	18.0±0.3	2.5±0.3	11.4
I16x10x18	16.0±0.4	18.0±0.4	10.0±0.3	2.5±0.2	13.0±0.4	2.5±0.2	10.3
I18x10.5x22	18.0±0.3	22.0±0.3	10.5±0.3	2.0±0.2	18.0±0.2	2.0±0.2	13.1

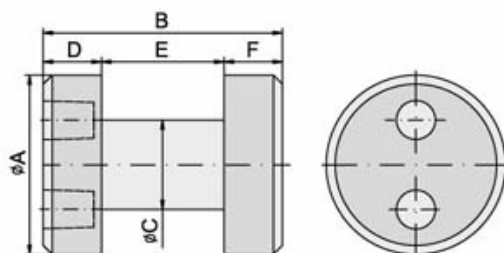
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

ORDERING CODE SYSTEM



Material : DN10H DN35H DN30B DN40B DN50B DN65H DN85H DN100H DN150H DN200

型号 Part number	尺寸 Dimensions(mm)						重量 weight (g)
	ΦA	B	ΦC	D	E	F	
IC 6x3x8	6.0±0.15	8.0±0.3	3.0±0.15	1.9±0.15	4.2±0.2	1.9±0.15	0.7
IC 8x4x10	8.0±0.15	10.0±0.3	4.0±0.15	2.0±0.15	6.0±0.2	2.0±0.15	1.4
IC 9x4x12	9.0±0.2	12.0±0.3	4.0±0.2	2.5±0.15	7.0±0.2	2.5±0.15	2.1
IC 10x3.5x11	10.0±0.2	11.0±0.3	3.5±0.2	2.0±0.15	7.0±0.15	2.0±0.15	1.9
IC 10x4x10	10.0±0.2	10.0±0.3	4.0±0.15	2.0±0.15	6.0±0.2	2.0±0.15	2
IC 10x4.3x12	10.0±0.2	12.0±0.3	4.3±0.15	2.5±0.15	7.0±0.2	2.5±0.15	2.5
IC 10x6x16	10.0±0.2	16.0±0.3	6.0±0.15	2.75±0.15	10.5±0.2	2.75±0.15	3.7
IC 12x5.2x16	12.0±0.3	16.0±0.3	5.2±0.2	3.0±0.2	10.0±0.3	3.0±0.2	4.5
IC 13x5x15	13.0±0.3	15.0±0.3	5.0±0.2	2.5±0.2	10.0±0.3	2.5±0.2	4.4
IC 14x6.5x15	14.0±0.3	15.0±0.3	6.5±0.2	2.5±0.2	10.0±0.3	2.5±0.2	5.6
IC 14x8x15	14.0±0.2	15.0±0.3	8.0±0.2	2.5±0.2	10.0±0.3	2.5±0.2	6.5
IC 14x8.6x15	14.0±0.2	15.0±0.3	8.6±0.2	2.5±0.2	10.0±0.3	2.5±0.2	6.9
IC 14x8x19	14.0±0.2	19.0±0.3	8.0±0.15	2.5±0.15	14.0±0.15	2.5±0.15	7.5
IC 15x4.5x12	15.0±0.3	12.0±0.3	4.5±0.2	3.0±0.2	6.0±0.3	3.0±0.2	5.9
IC 15x5x13	15.0±0.3	13.0±0.3	5.0±0.2	2.2±0.2	8.6±0.2	2.2±0.2	4.8
IC 16x8x18	16.0±0.3	18.0±0.4	8.0±0.25	2.5±0.2	13.0±0.4	2.5±0.2	8.5
IC 16x10x18	16.0±0.2	18.0±0.3	10.0±0.15	2.5±0.15	13.0±0.15	2.5±0.15	10.3
IC 18x12x22	18.0±0.4	22.0±0.5	12.0±0.3	4.0±0.2	14.0±0.3	4.0±0.2	18.4

注：其它尺寸可以根据需求来制作。

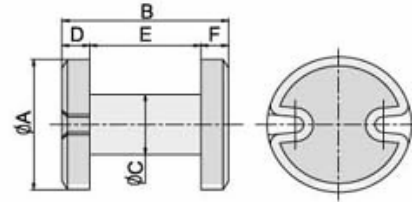
REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

ORDERING CODE SYSTEM

IA 13 x 6 x 15 DN85H

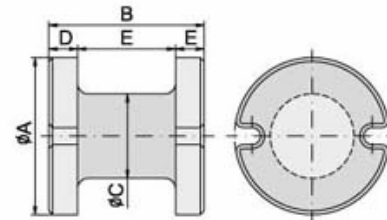


Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)						重量 weight
	ϕA	B	ϕC	D	E	F	(g)
IA 13x4.35x15.2	13.0 $\pm$ 0.2	15.2 $\pm$ 0.3	4.35 $\pm$ 0.15	2.5 $\pm$ 0.2	10.2 $\pm$ 0.2	2.5 $\pm$ 0.2	4.2
IA 13x6x15	13.0 $\pm$ 0.2	15.0 $\pm$ 0.3	6.0 $\pm$ 0.2	2.5 $\pm$ 0.15	10.0 $\pm$ 0.2	2.5 $\pm$ 0.15	4.8

ORDERING CODE SYSTEM

IG 4.5 x 2 x 2.2 DN85H



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)						重量 weight
	ϕA	B	ϕC	D	E	F	(g)
IG 4.5x2x2.2	4.5 $\pm$ 0.15	2.2 $\pm$ 0.15	2.0 $\pm$ 0.15	0.5 $\pm$ 0.1	1.2 $\pm$ 0.15	0.5 $\pm$ 0.1	0.1
IG 4.5x2.25x3.2	4.5 $\pm$ 0.15	3.2 $\pm$ 0.15	2.25 $\pm$ 0.15	0.6 $\pm$ 0.1	2.0 $\pm$ 0.15	0.6 $\pm$ 0.1	0.14
IG 12x4.8x15	12.0 $\pm$ 0.2	15.0 $\pm$ 0.3	4.8 $\pm$ 0.15	2.5 $\pm$ 0.15	10.0 $\pm$ 0.15	2.5 $\pm$ 0.15	3.8
IG 13x4.35x15.2	13.0 $\pm$ 0.15	15.2 $\pm$ 0.25	4.35 $\pm$ 0.15	2.5 $\pm$ 0.2	10.2 $\pm$ 0.2	2.5 $\pm$ 0.2	4.2
IG 13x6x15	13.0 $\pm$ 0.2	15.0 $\pm$ 0.3	6.0 $\pm$ 0.2	2.5 $\pm$ 0.2	10.0 $\pm$ 0.2	2.5 $\pm$ 0.2	4.8
IG 14x8x20	14.0 $\pm$ 0.2	20.0 $\pm$ 0.3	8.0 $\pm$ 0.2	4.0 $\pm$ 0.2	12.0 $\pm$ 0.2	4.0 $\pm$ 0.2	9.4
IG 14x9x19	14.0 $\pm$ 0.2	19.0 $\pm$ 0.5	9.0 $\pm$ 0.15	2.7 $\pm$ 0.15	13.6 $\pm$ 0.2	2.7 $\pm$ 0.15	8.6
IG 15x7x13	15.0 $\pm$ 0.25	13.0 $\pm$ 0.3	7.0 $\pm$ 0.15	2.2 $\pm$ 0.2	8.6 $\pm$ 0.3	2.2 $\pm$ 0.2	5.7

注：其它尺寸可以根据需求来制作。

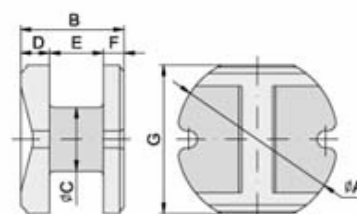
REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

ORDERING CODE SYSTEM

IGa 5.8 x 2.3 x 4.5 DN35H

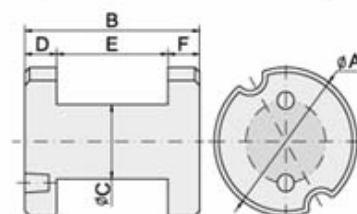
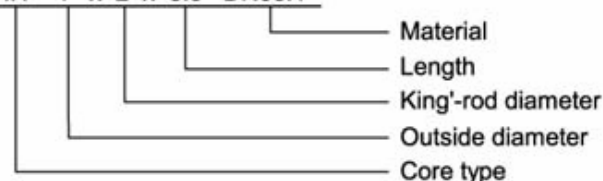


Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号	尺寸 Dimensions(mm)						重量 weight
Part number	ΦA	A'	B	ΦC	E	F	(g)
IGa5.8X2.3X4.5	5.8±0.1	5.2±0.1	4.5±0.1	2.3±0.12	2.4±0.1	1.3	0.5
IGa7.8X3.0X5.0	7.8±0.12	7.0±0.1	5.0±0.15	3.0±0.1	2.6±0.1	1.4	0.6

ORDERING CODE SYSTEM

IH 4 x 2 x 5.5 DN35H



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号	尺寸 Dimensions(mm)						重量 weight
Part number	ΦA	B	ΦC	D	E	F	(g)
IH 4x2x5.5	4.0±0.2	5.5±0.2	2.0±0.15	1.75±0.15	2.0±0.2	1.75±0.15	2.5
IH 7.8x3x6.5	7.8±0.15	6.5±0.15	3.0±0.1	1.25±0.15	4.0±0.15	1.25±0.15	7.5
IH 7.8x3.2x6.4A	7.8±0.12	6.4±0.15	3.2 ^{+0.15} _{-0.1}	1.35±0.1	3.7 ^{+0.15} _{-0.1}	1.35±0.1	
IH 8x4.5x10	8.0±0.2	10.0±0.3	4.5±0.15	2.0±0.15	6.0±0.2	2.0±0.15	1.5
IH 9x7x8	9.0 ^{+0.05} _{-0.25}	8.0±0.2	7.0±0.15	2.0±0.15	4±0.15	2.0±0.15	
IH 10x4.7x12	10.0±0.2	12.0±0.3	4.7±0.15	2.0±0.15	8.0±0.2	2.0±0.15	2.3
IH 10x5x10	10.0±0.2	10.0±0.3	5.0±0.15	2.25±0.15	5.5±0.15	2.25±0.15	1.9
IH 12x6x12	12.0±0.24	12.0±0.24	6.0±0.15	2.0±0.15	8.0±0.2	2.0±0.15	3.4

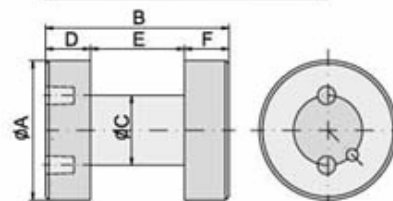
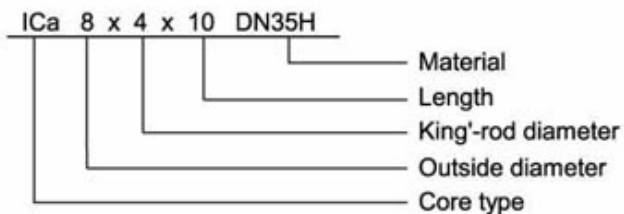
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

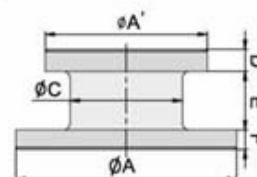
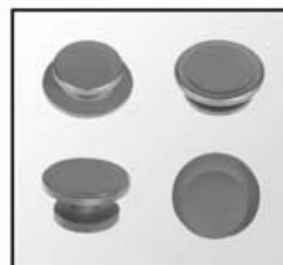
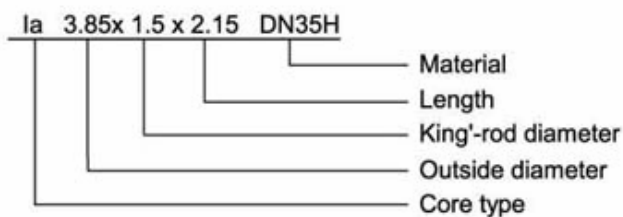
ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)						重量weight (g)
	ϕA	B	ϕC	D	E	F	
ICa 8x4x10	8.0±0.3	10.0±0.3	4.0±0.2	2.0±0.2	6.0±0.2	2.0±0.2	1.4
ICa 10x4.5x12	10.0±0.3	12.0±0.3	4.5±0.15	2.5±0.2	7.0±0.2	2.5±0.2	2.5
ICa 10x6x16	10.0±0.3	16.0±0.3	6.0±0.2	2.75±0.2	10.5±0.3	2.75±0.2	3.7
ICa 14x8x19	14.0±0.3	19.0±0.5	8.0±0.2	2.5±0.2	14.0±0.3	2.5±0.2	7.5
ICa 16x9x18	16.0±0.3	18.0±0.3	9.0±0.2	2.5±0.2	13.0±0.3	2.5±0.2	9.3
ICa 16x10x18	16.0±0.3	18.0±0.3	10.0±0.2	2.5±0.2	13.0±0.3	2.5±0.2	10.3
ICa 18x8x22	18.0±0.3	22.0±0.4	8.0±0.2	4.0±0.2	14.0±0.3	4.0±0.2	13.9

ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)							重量weight (g)
	ϕA	$\phi A'$	B	ϕC	D	E	F	
Ia 3.85x1.5x2.15	3.85±0.1	2.85±0.1	2.15±0.1	1.5±0.1	0.55±0.1	1.05±0.1	0.55±0.1	0.06
Ia 4.8x1.7x1.7	4.8±0.1	3.7±0.07	1.7±0.1	1.7±0.06	0.45±0.07	0.8±0.07	0.45±0.07	0.08
Ia 5.6x2x2.72	5.6±0.1	4.5±0.1	2.72±0.1	2.0±0.1	0.535±0.07	1.65±0.1	0.535±0.07	0.14
Ia 6.5x2.6x3.65	6.5±0.1	4.8±0.08	3.65±0.1	2.6±0.1	0.55±0.05	2.6±0.1	0.5±0.05	0.21
Ia 6.6x2.8x2.7	6.6±0.15	4.8 ⁺⁰ _{-0.2}	2.7±0.1	2.8±0.1	0.6±0.1	1.5±0.1	0.6±0.1	0.16
Ia 9.8x4.9x3.65	9.8±0.1	7.6±0.1	3.65±0.1	4.9±0.1	0.85±0.1	1.95±0.1	0.85±0.1	0.7
Ia 9.9x6.4x9.0	9.9 ^{+0.06} _{-0.1}	9.3 ^{+0.01} _{-0.05}	9±0.1	6.4±0.1	1.1±0.1	6.8±0.1	1.1±0.1	2.0

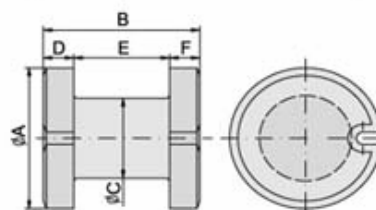
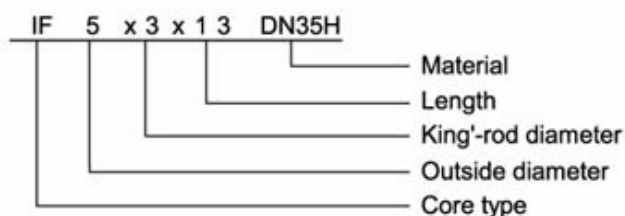
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

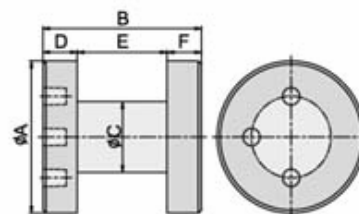
ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)						重量weight
	ΦA	B	ΦC	D	E	F	(g)
IF 5x3x13	5.0±0.15	13.0±0.3	3.0±0.15	2.0±0.2	9.0±0.25	2.0±0.2	0.7
IF 15x7.5x18	15.0±0.2	18.0±0.25	7.5±0.1	2.5±0.15	13.0±0.15	2.5±0.15	7.4

ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)						重量weight
	ΦA	B	ΦC	D	E	F	(g)
IL 9x3.8x12	9.0±0.15	12.0±0.4	3.8±0.15	2.75±0.15	6.5±0.15	2.75±0.15	2.1
IL 18x12x22	18.0±0.4	22.0±0.5	12.0±0.3	4.0±0.2	14.0±0.5	4.0±0.2	18.4

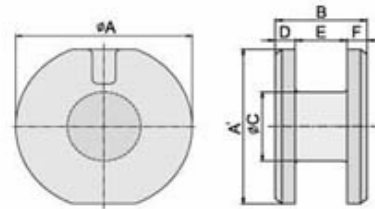
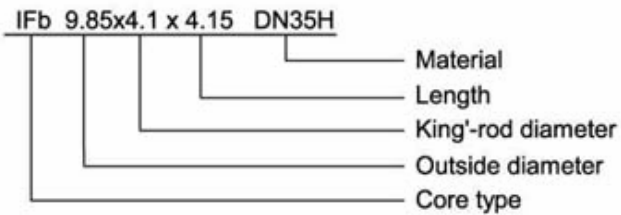
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

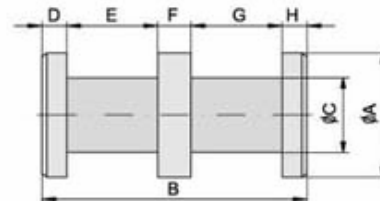
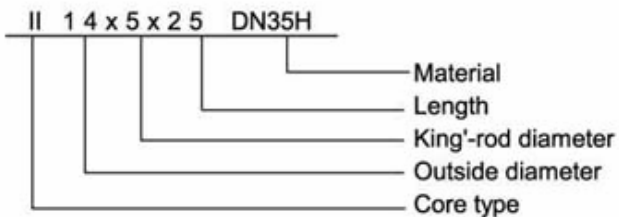
ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型 号	尺 寸 Dimensions(mm)							重量 weight (g)
Part number	ϕA	$\phi A'$	B	ϕC	D	E	F	
IFb9.85x4.1x4.15	9.85 $\pm$ 0.15	9.2 $\pm$ 0.1	4.15 $\pm$ 0.1	4.1 $\pm$ 0.1	0.9 $\pm$ 0.1	2.35 $\pm$ 0.1	0.9 $\pm$ 0.1	0.5

ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型 号	尺 寸 Dimensions(mm)						重量 weight (g)
Part number	ϕA	B	ϕC	D	E	H	
II 14x5x25	14.0 $\pm$ 0.2	25.0 $\pm$ 0.4	5.0 $\pm$ 0.1	2.5 $\pm$ 0.2	7.0 $\pm$ 0.3	2.5 $\pm$ 0.2	8
II 10x6x16	10.0 $\pm$ 0.2	16.0 $\pm$ 0.5	6.0 $\pm$ 0.2	1.5 $\pm$ 0.15	5.5 $\pm$ 0.15	1.5 $\pm$ 0.15	
II 10x7x16	10.0 $\pm$ 0.2	16.0 $\pm$ 0.5	7.0 $\pm$ 0.2	1.5 $\pm$ 0.15	5.5 $\pm$ 0.15	1.5 $\pm$ 0.15	

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

ORDERING CODE SYSTEM

IIC 9.6 x 4 x 11.3 DN35H

Material
Length
King'-rod diameter
Outside diameter
Core type

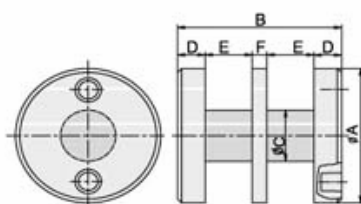
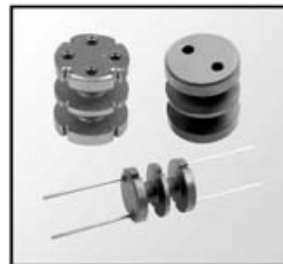


Fig.1

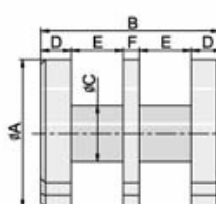


Fig.2

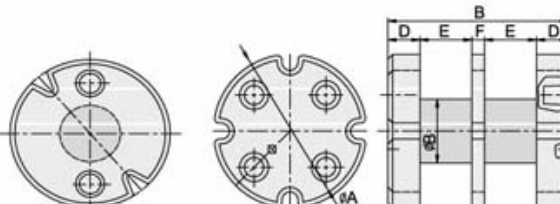


Fig.3

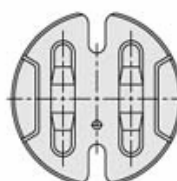
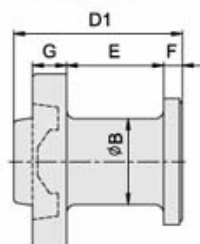
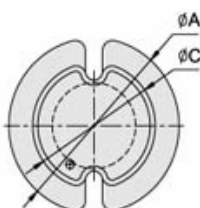
Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	图号 Fig.	尺寸 Dimensions(mm)					
		ΦA	B	ΦC	D	E	F
IIC 10x3.85x8.3	1	10.0±0.2	8.3±0.15	3.85±0.15	1.85±0.1	3.25±0.15	0.8±0.1
IIC 10x3.8x11.3A	2	10.0±0.2	11.3±0.5	3.8±0.15	1.9±0.1	3.25±0.15	1.0min
IIC 9.6x4x11.3 (4)	3	9.6±0.25	11.3±0.2	4.0±0.1	2.0±0.15	3.25±0.15	0.8±0.1

ORDERING CODE SYSTEM

INa 10x5.3x9.9(4) DN35H

Material
Number of holes
Length
King'-rod diameter
Outside diameter
Core type



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

NO.	型号 Part number	尺寸 Dimensions(mm)							
		ΦA	ΦB	ΦC	D1	D2	E	F	G
1	INa 10x5.3x9.9(4)	10.0±0.12	5.3±0.12	7.2±0.12	9.9±0.2	8.8±0.12	5.7±0.15	1.1±0.1	2.0±0.12
2	INa 10x4.9x9.9(4)	10.0±0.12	4.9±0.12	7.2±0.12	9.9±0.2	8.8±0.12	5.7±0.15	1.1±0.1	2.0±0.12

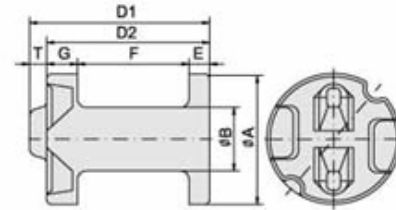
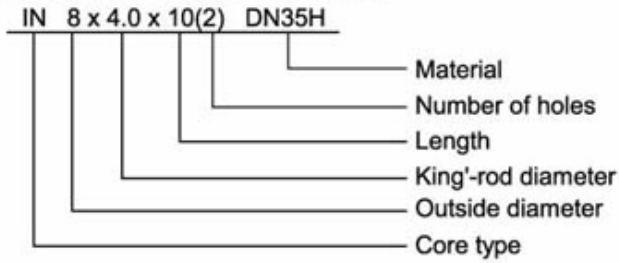
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

I 型磁心

I Cores

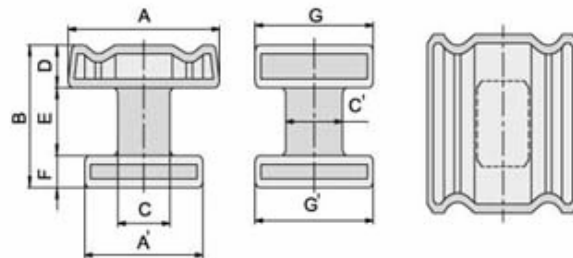
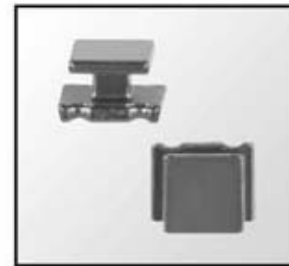
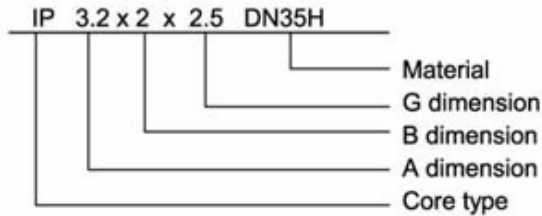
ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

NO.	型号 Part number	尺寸 Dimensions(mm)					
		ΦA	B	ΦC	D	E	F
1	IN4.5x2.0x6.35(2)	4.5±0.08	6.35±0.15	2.0±0.1	0.95±0.07	3.3±0.15	2.1REF
2	IN4.5x2.0x7.0(2)	4.5±0.08	7.0±0.15	2.0±0.1	1.0±0.07	3.9±0.15	2.1REF
3	IN7.8x3.8x10.5A(2)	7.8±0.12	10.5±0.2	3.8±0.12	1.2±0.1	6.5±0.15	2.8±0.15
4	IN8×4.0x10(2)	8.0±0.2	10.3±0.3	4.0±0.15	1.65±0.15	5.2±0.15	3.15±0.15
5	IN8×4.5x11(2)	8.0±0.2	11.0±0.3	4.5±0.15	1.5±0.15	6.5±0.15	3.0±0.15
6	IN10x5.3x14(2)	10.0±0.2	14.0±0.3	5.3±0.2	2.8±0.15	7.1±0.15	4.1±0.15
7	IN12×6x16(2)	12.0±0.3	16.0±0.3	6.0±0.2	2.0±0.2	9.5±0.3	4.5±0.2

ORDERING CODE SYSTEM



Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

型号 Part number	尺寸 Dimensions(mm)								
	A	A'	B	C	D	E	F	G	G'
IP 3.2x2x2.5	3.2±0.08	2.5±0.08	2.0±0.08	1.1±0.08	0.6±0.08	0.95±0.08	0.45±0.08	2.5±0.08	2.5±0.08
IP 4.5x2.65x3.2	4.5±0.10	3.7±0.10	2.65±0.10	1.7±0.10	0.7±0.10	1.35±0.10	0.6±0.10	3.2±0.10	3.2±0.10

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

RI 型磁心

RI Cores

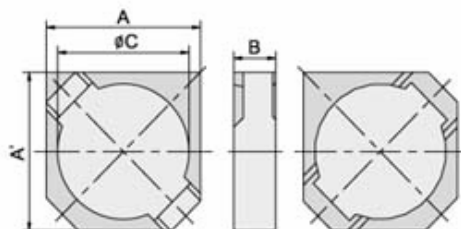


Fig.1

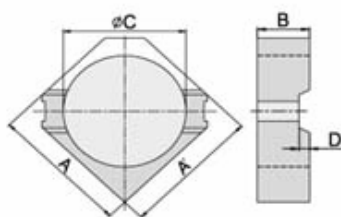


Fig.2

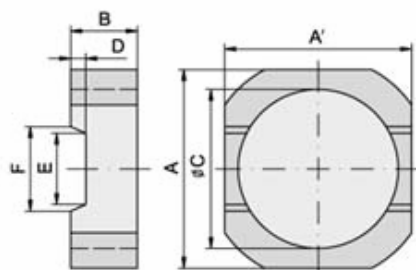


Fig.3

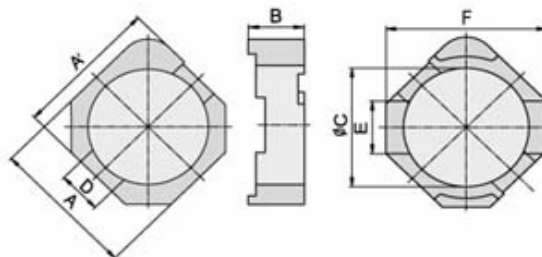


Fig.4

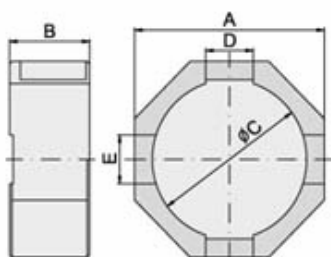


Fig.5

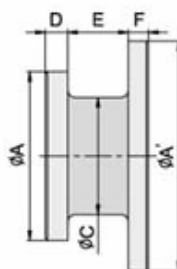


Fig.6

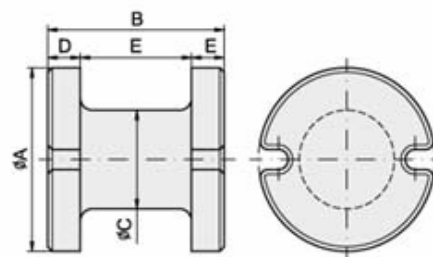


Fig.7

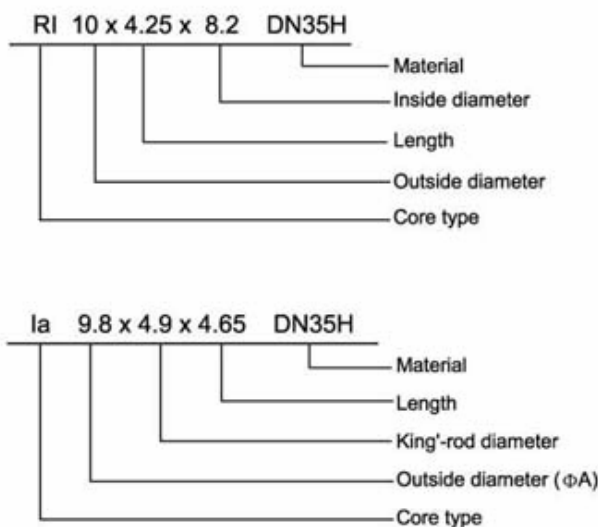
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

RI 型磁心

RI Cores

ORDERING CODE SYSTEM



Material: DN25H DN35H DN65H DN80H DN100H DN30B DN40B DN50B

NO.	型 号 Part number	图号 Fig.	尺 寸 Dimensions (mm)						
			A (ΦA)	A' ($\Phi A'$)	B	C (ΦC)	D	E	F
1	RI 4.8x1.3x4.1	1	4.8±0.1	4.8±0.1	1.3±0.07	4.1±0.05			
	la 4.8x1.7x1.7	5	4.8±0.1	3.7±0.07	1.7±0.1	1.7±0.06	0.45±0.07	0.8±0.07	0.45±0.07
2	RI 5.6x2.1x4.9	1	5.6±0.1	5.6±0.1	2.1±0.07	4.9±0.1			
	la 5.6x2.0x2.72	5	5.6±0.1	4.5±0.1	2.72±0.1	2.0±0.1	0.535±0.07	1.65±0.1	0.535±0.07
3	RI 6.6x2.0x5.7	2	6.6±0.1	6.6±0.1	2.0±0.1	5.7±0.1	0.4±0.05		
	la 6.6x2.8x2.7	5	6.6±0.15	4.8 ⁺⁰ _{-0.2}	2.7±0.1	2.8±0.1	0.6±0.1	1.5±0.1	0.6±0.1
4	RI 6.0x2.0x4.8	3	6.0±0.2	5.6±0.2	2.0±0.1	4.8±0.15	0.45±0.05	2.15±0.05	2.55±0.05
	IG 4.5x2.0x2.2	6	4.5±0.15		2.2±0.1	2.0±0.15	0.5±0.1	1.2±0.15	0.5±0.1
5	RI 6.0x3.05x4.8	3	6.0±0.2	5.6±0.2	3.05±0.1	4.8±0.15	0.45±0.05	2.15±0.05	2.55±0.05
	IG 4.5x2.25x3.2	6	4.5±0.15		3.2±0.1	2.25±0.15	0.6±0.1	2.0±0.15	0.6±0.1
6	RI 8.0x3.38x6.5	7	8.0±0.12		3.38±0.08	6.5±0.08	2	2	
	la 8.0x4.1x4.2	5	8.0±0.1	5.78±0.08	4.2±0.1	5.78±0.08	0.85±0.08	2.5	0.85±0.08
7	RI 10x3.35x8.2	4	10.0±0.2	10.0±0.2	3.35±0.2	8.2±0.15	3.1±0.15	3.8±0.15	10.5±0.2
	la 9.8x4.9x3.65	5	9.8±0.1	7.6±0.1	3.65±0.1	4.9±0.1	0.85±0.1	1.95±0.1	0.85±0.1
8	RI 10x4.25x8.2	4	10.0±0.2	10.0±0.2	4.25±0.2	8.2±0.15	3.1±0.15	3.8±0.15	10.5±0.2
	la 9.8x4.9x4.65	5	9.8±0.1	7.6±0.1	4.65±0.1	4.9±0.1	0.85±0.1	2.95±0.1	0.85±0.1

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

FY 型磁心

FY Cores

ORDERING CODE SYSTEM

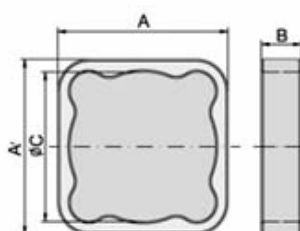
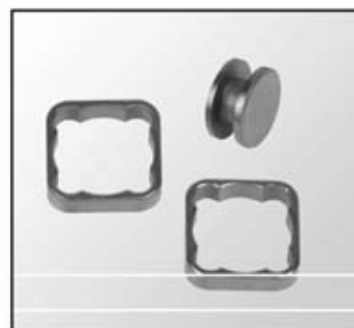
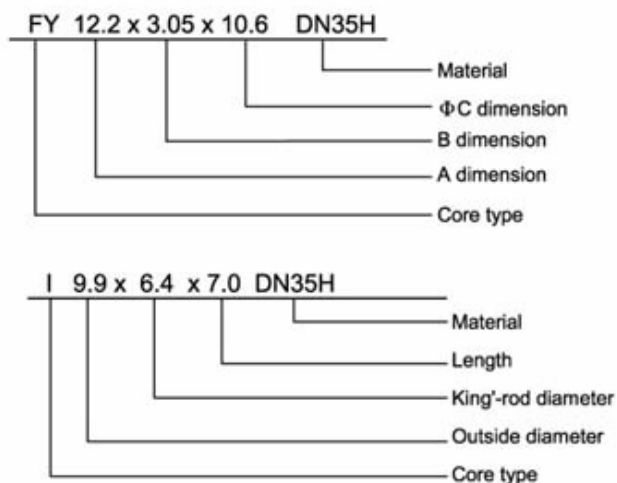


Fig1

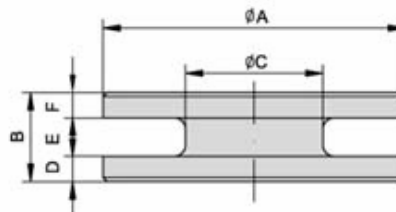


Fig2

Material: DN25H DN35H DN65H DN80H DN30B DN40B DN50B

NO.	型 号 Part number	图号 Fig.	尺 寸 Dimensions(mm)						
			A (ΦA)	A' ($\Phi A'$)	B	C(ΦC)	D	E	F
1	FY 12.2x3.05x10.6	1	12.2±0.2	12.2±0.2	3.05±0.1	10.6±0.15			
	I 9.9x5.0x3.65	2	9.9±0.1		3.65±0.1	5.0±0.1	0.925±0.1	1.8±0.15	0.925±0.1
2	FY 12.2x4.38x10.6	1	12.2±0.2	12.2±0.2	4.38±0.1	10.6±0.15			
	I 9.9x5.2x5.05	2	9.9±0.1		5.05±0.1	5.2±0.1	1.1±0.1	2.85±0.15	1.1±0.1
3	FY 12.2x6.41x10.6	1	12.2±0.2	12.2±0.2	6.41±0.1	10.6±0.15			
	I 9.9x6.4x7.0	2	9.9±0.1		7.0±0.1	6.4±0.1	1.1±0.1	4.8±0.15	1.1±0.1
4	FY 13.8x2.5x11.8	1	13.8±0.2	13.8±0.2	2.5±0.1	11.8±0.15			
	I 11x5x3.1	2	11.0±0.1		3.1±0.1	5.0±0.1	0.9±0.1	1.3±0.15	0.9±0.1

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

P 型磁心

P Cores

ORDERING CODE SYSTEM

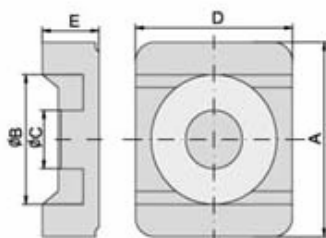
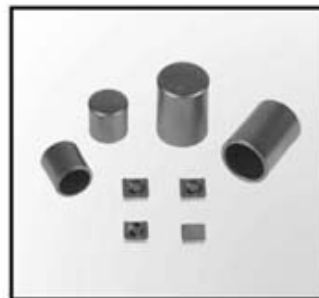
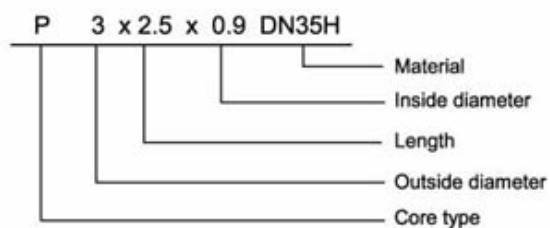


Fig.1

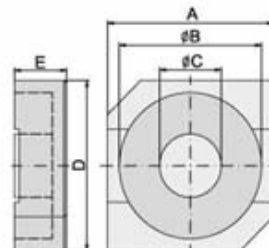


Fig.2

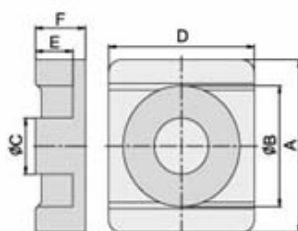


Fig.3

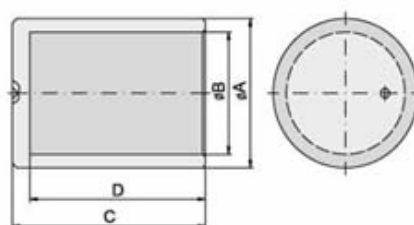


Fig.4

Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

NO.	型号	图号	尺寸 Dimensions(mm)				
	Part number	Fig.	A (ϕ A)	B	C (ϕ C)	D	E
1	P 3x2.5x0.9	1	3.0 $\pm$ 0.1	2.0 $\pm$ 0.15	0.9 $\pm$ 0.1	2.5 $\pm$ 0.1	0.9 ^{+0.05} _{-0.1}
2	P3.5x3.5x1.1	2	3.5 $\pm$ 0.1	3.0 $\pm$ 0.1	1.3 $\pm$ 0.1	3.5 $\pm$ 0.1	1.1 $\pm$ 0.075
3	P4.0x3.5x1.2	3	4.0 $\pm$ 0.15	2.8 $\pm$ 0.15	1.3 $\pm$ 0.1	3.5 $\pm$ 0.1	1.2 $\pm$ 0.1
4	P12.7x13	4	12.7 ^{+0.2} _{-0.1}	10.2 ^{+0.2} _{-0.1}	13 $\pm$ 0.2	11.4 $\pm$ 0.2	
5	P16.5x22	4	16.5 $\pm$ 0.5	13.5 $\pm$ 0.3	22.00 $\pm$ 0.12	20.00 $\pm$ 1.2	

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

SDI 型磁心

SDI Cores

ORDERING CODE SYSTEM

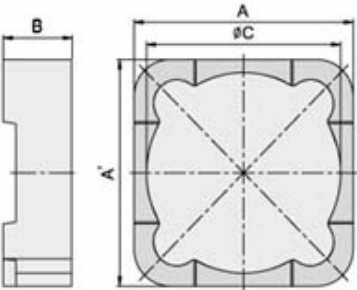
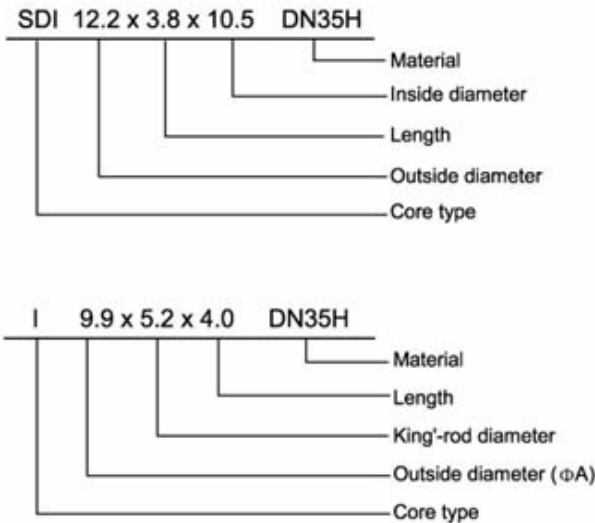


Fig.1

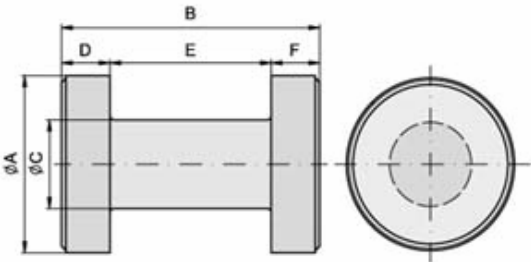


Fig.2

Material: DN25H DN35H DN65H DN80B DN30B DN40B DN50B

NO.	型 号 Part number	图号 Fig.	尺 寸 Dimensions (mm)						
			A (ΦA)	A' (ΦA')	B	C (ΦC)	D	E	F
1	SDI 12.2x3.8x10.5	1	12.2±0.2	12.2±0.2	3.8±0.2	10.5±0.15			
	I 9.9x5.2x4.0	2	9.9±0.1		4.0±0.2	5.2±0.15	1.0±0.15	2.0±0.1	1.0±0.15
2	SDI 12.2x5.0x10.5	1	12.2±0.2	12.2±0.2	5.0±0.2	10.5±0.15			
	I 9.9x5.2x5.2	2	9.9±0.1		5.2±0.2	5.2±0.15	1.1±0.15	3.0±0.15	1.1±0.15
3	SDI 12.2x6.6x10.5	1	12.2±0.2	12.2±0.2	6.6±0.2	10.5±0.15			
	I 9.9x6.4x7.0	2	9.9±0.1		7.0±0.2	6.4±0.15	1.1±0.15	4.8±0.15	1.1±0.15

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

SRI 型磁心

SRI Cores

ORDERING CODE SYSTEM

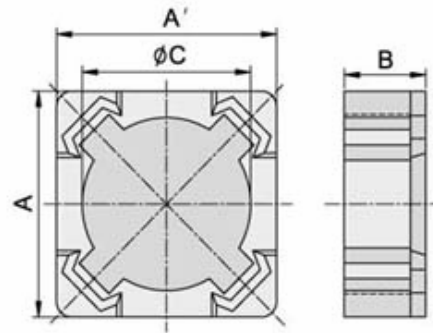
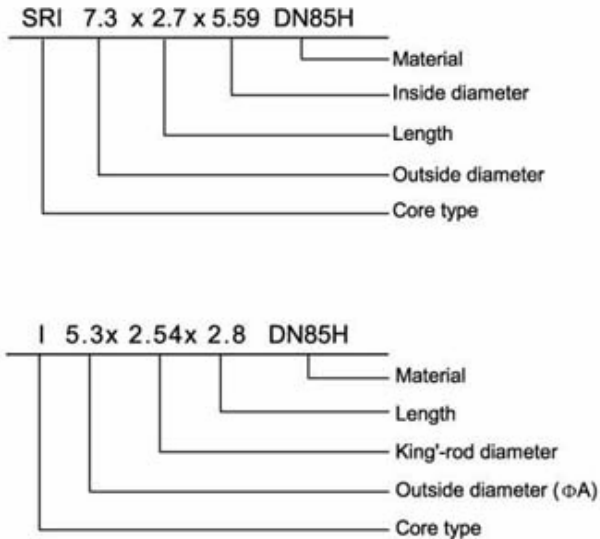


Fig.1

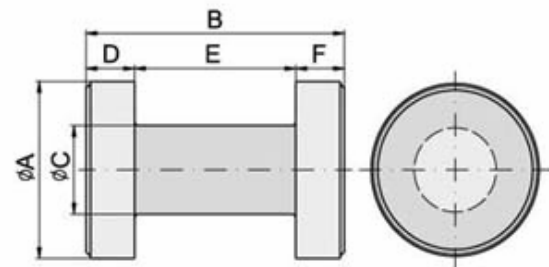


Fig.2

Material :DN35H DN65H DN80H DN100H DN30B DN40B DN50B

NO.	型号	图号	尺寸 Dimensions(mm)						
	Part number	Fig.	A (ΦA)	A' ($\Phi A'$)	B	C	D	E	F
1	SRI 7.3x2.7x5.59	1	7.3 $\pm$ 0.15	7.3 $\pm$ 0.15	2.7 $\pm$ 0.15	5.59 $\pm$ 0.13			
	I 5.3x2.54x2.8	2	5.3 $\pm$ 0.1		2.8 $\pm$ 0.15	2.54 $\pm$ 0.127	0.675 $\pm$ 0.15	1.45 $\pm$ 0.15	0.675 $\pm$ 0.15
2	SRI 7.3x3.5x5.59	1	7.3 $\pm$ 0.15	7.3 $\pm$ 0.15	3.5 $\pm$ 0.2	5.59 $\pm$ 0.13			
	I 5.3x2.8x3.7	2	5.3 $\pm$ 0.1		3.7 $\pm$ 0.2	2.8 $\pm$ 0.127	0.67 $\pm$ 0.15	2.36 $\pm$ 0.15	0.67 $\pm$ 0.15

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

Hb 型磁心

Hb Cores

ORDERING CODE SYSTEM

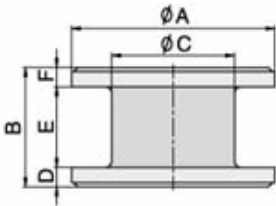
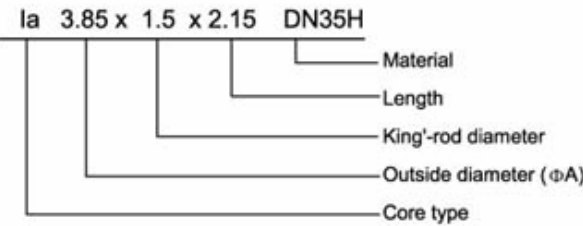
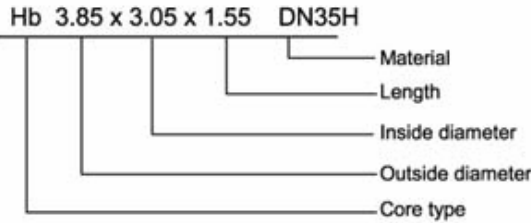


Fig.1

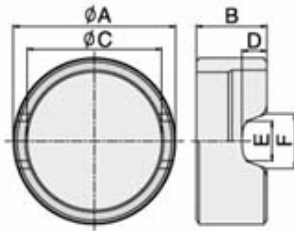


Fig.2

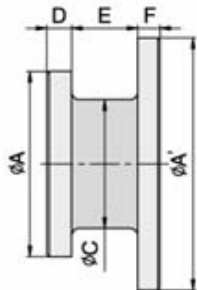


Fig.3

Material: DN25H DN35H DN65H DN80B DN30B DN40B DN50B

NO.	型号	图号	尺寸 Dimensions(mm)						
	Part number		A (ΦA)	A' (ΦA')	B	ΦC	D	E	F
1	Hb 3.85×3.05×1.55	2	3.85±0.1		1.55±0.1	3.05±0.1	0.4	0.8	1
	Ia 3.85×1.5×2.15	3	3.85±0.1	2.85±0.1	2.15±0.1	1.5±0.1	0.55±0.1	1.05±0.1	0.55±0.1
2	Hb 6.8×5.8×2.8	2	6.8 ^{+0.1} _{-0.2}		2.8±0.15	5.8±0.2	0.9	1.5	2
	I 5.3×2.55×2.8	1	5.3±0.15		2.8±0.15	2.55±0.15	0.67±0.15	1.46±0.15	0.67±0.15

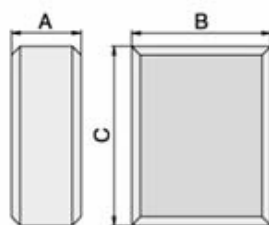
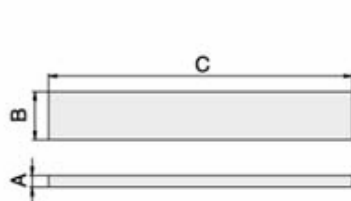
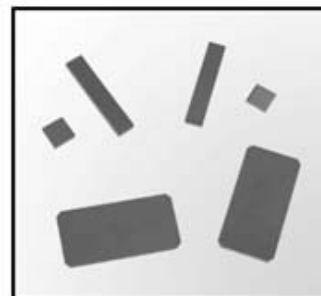
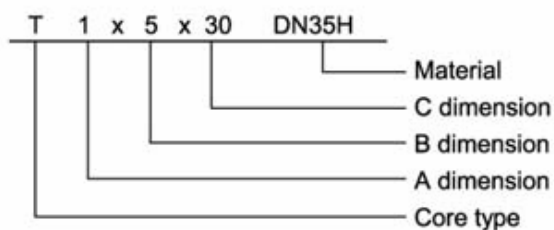
注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

T 型磁心

T Cores

ORDERING CODE SYSTEM



Material: DN10H DN25H DN35H DN30B DN40B DN50B

型 号 Part number	图号 Fig.	尺 寸 Dimensions(mm)			重量 (g)
		ΦA	B	C	
T 1x5x30	1	1.0±0.1	5.0±0.2	30.0±0.5	0.8
T 1.2x12.5x12.5	3	1.2±0.1	12.5±0.15	12.5±0.15	1
T 2x3.5x24	1	2.0±0.1	3.5±0.2	24.0±0.3	0.9
T 2x4.7x18	1	2.0±0.1	4.7±0.2	18.0±0.2	0.9
T 2x6x32	1	2.0±0.1	6.0±0.2	32.0±0.5	2
T 2x6x50	1	2.0±0.1	6.0±0.2	50.0±0.5	3.1
T 2x25x60	1	2.0±0.2	25.0±0.5	60.0±0.8	15.6
T 2.5x43x43	3	2.5±0.3	43.0±1.0	43.0±1.0	
T 3x8x9	2	3.0±0.1	8.0±0.2	9.0±0.2	1.1
T 3x4x16	1	3.0±0.2	4.0±0.2	16.0±0.3	1
T 3x25x60	1	3.0±0.2	25.0±0.5	60.0±0.8	23.4
T 4x4x30	1	4.0±0.1	4.0±0.1	30.0±0.5	2.5
T 4x8x10	2	4.0±0.1	8.0±0.1	10.0±0.2	1.6
T 4x20x62	1	4.0±0.1	20.0±0.2	62.0±0.5	25
T 5x10x50	1	5.0±0.1	10.0±0.2	50.0±0.5	13
T 6x8x19	1	6.0±0.1	8.0±0.2	19.0±0.2	4.7
T 6x8x27	1	6.0±0.1	8.0±0.2	27.0±0.2	6.6
T 10x35x35	3	10.0±0.1	35.0±0.3	35.0±0.5	63

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

EC/T 型磁心

EC/T Cores

ORDERING CODE SYSTEM

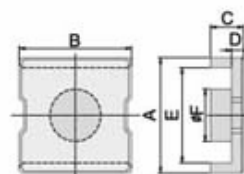
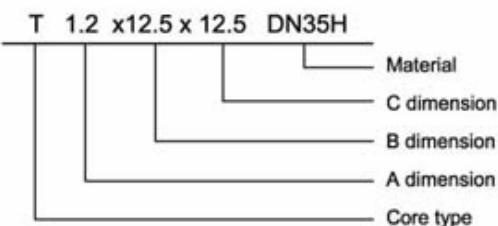
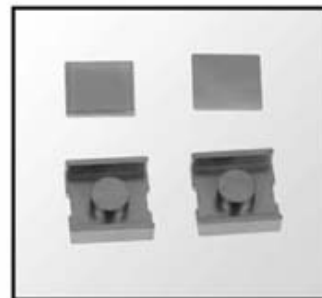
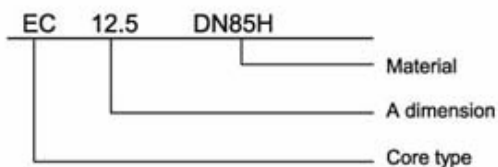


Fig.1

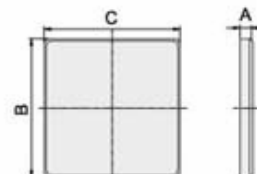


Fig.2

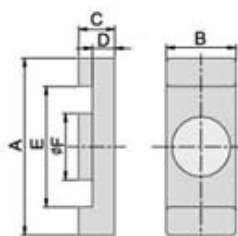


Fig.3

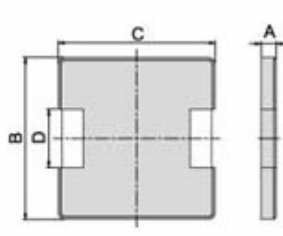


Fig.4

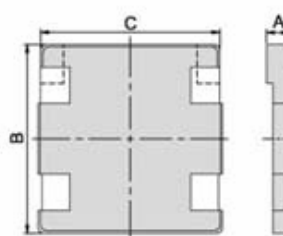


Fig.5

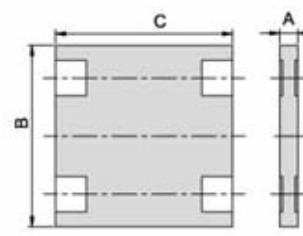


Fig.6

Material: DN25H DN35H DN65H DN30B DN40B DN50B

NO.	型 号 Part number	图号 Fig.	尺 寸 Dimensions (mm)					
			A	B	C	D	E	ΦF
1	EC12.5	1	12.5±0.2	12.5±0.15	3.7±0.05	1.2±0.05	10.3±0.15	5.7±0.1
	T 1.2x12.5x12.5	2	1.2±0.1	12.5±0.15	12.5±0.15			
2	EC12.5A	1	12.5±0.15	12.5±0.15	3.4±0.05	1.2±0.05	10.3±0.15	5.7±0.1
	T 1.2x12.5x12.5	2	1.2±0.1	12.5±0.15	12.5±0.15			
3	EC12.5B	1	12.5±0.15	12.5±0.15	4.4±0.05	1.2±0.05	10.3±0.15	5.7±0.1
	T 1.2x12.5x12.5	2	1.2±0.1	12.5±0.15	12.5±0.15			
4	EC12.5	1	12.5±0.2	12.5±0.15	3.7±0.05	1.2±0.05	10.3±0.15	5.7±0.1
	T 1.2x12.5x12.5A	4	1.2±0.1	12.5±0.15	12.5±0.15	4.5±0.05		
5	EC14.5A	3	14.5±0.2	10.0±0.15	3.4±0.15	2.05±0.15	11.8±0.2	5.8±0.15
	T 1.3x14.5x14.5	6	1.3±0.1	14.5±0.25	14.5±0.25			
6	EC14.5A	3	14.5±0.2	10.0±0.15	3.4±0.15	2.05±0.15	11.8±0.2	5.8±0.15
	T 1.8x14.5x14.5	5	1.8±0.15	14.5±0.2	14.5±0.2			

注：其它尺寸可以根据需求来制作。

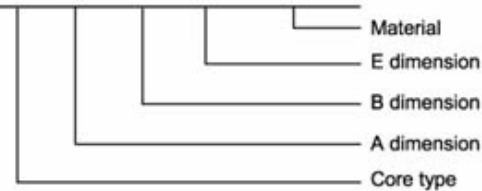
REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

FH/TA 型磁心

FH/TA Cores

ORDERING CODE SYSTEM

FH 1.2 x 12.5 x 2.2 DN35H



TA 12.4 x 12.4 x 2.15 DN35H

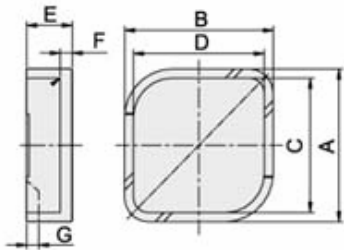
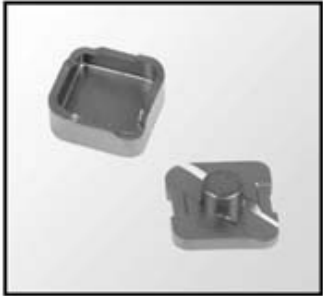
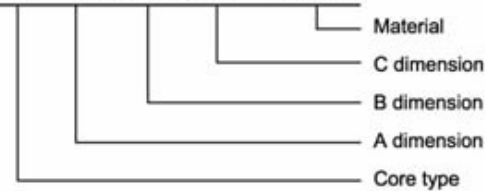


Fig.1

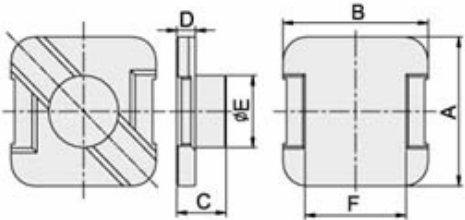


Fig.2

Material: DN25H DN35H DN65H DN30B DN40B DN50B

NO.	型 号 Part number	图号 Fig.	尺 寸 Dimensions(mm)						
			A	B	C	D	E (ΦE)	F	G
1	FH 12.5x12.5x2.2	1	12.5±0.25	12.5±0.25	10.9±0.2	10.9±0.2	2.2±0.15	1.0±0.1	1
	TA 12.4x12.4x2.15	2	12.4±0.25	12.4±0.25	2.15±0.15	1.05±0.1	6.0±0.15	7.6	
2	FH 12.5x12.5x2.9	1	12.5±0.25	12.5±0.25	10.9±0.2	10.9±0.2	2.9±0.15	1.0±0.1	1
	TA 12.4x12.4x2.8	2	12.4±0.25	12.4±0.25	2.8±0.15	1.2±0.1	6.0±0.15	7.6	
3	FH 12.5x12.5x3.8	1	12.5±0.25	12.5±0.25	10.9±0.2	10.9±0.2	3.8±0.15	1.0±0.1	1
	TA 12.4x12.4x3.8	2	12.4±0.25	12.4±0.25	3.8±0.15	1.2±0.1	6.0±0.15	7.6	
4	FH 12.5x12.5x3.9	1	12.5±0.25	12.5±0.25	10.9±0.2	10.9±0.2	3.9±0.15	1.0±0.1	1
	TA 12.4x12.4x4.2	2	12.4±0.25	12.4±0.25	4.2±0.15	1.6±0.1	6.0±0.15	9	

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

BH 型磁心

BH Cores

ORDERING CODE SYSTEM

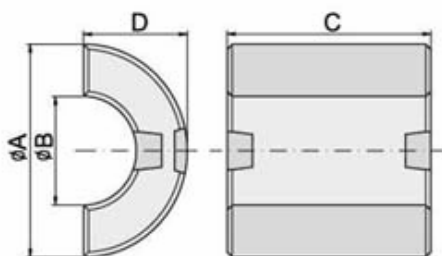
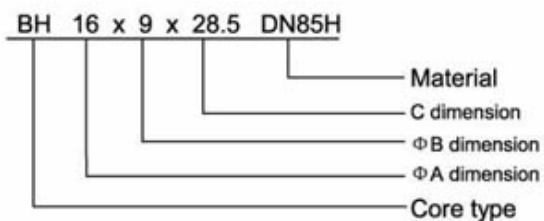


Fig.1

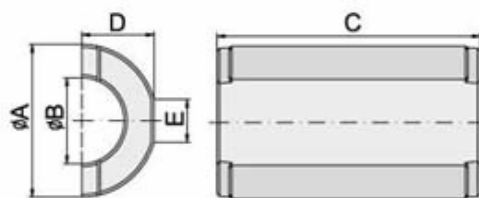


Fig.2

Material: DN80H DN85H DN100H DN150H DN200

NO.	型 号 Part number	图号 Fig.	尺 寸 Dimensions (mm)					阻抗 (Ω) Impedance	
			ΦA	ΦB	C	D	E	25MHZ	100MHZ
1	BH 12x7.4x15.2	2	12±0.3	7.4±0.4	15.2±0.3	5.6±0.2	5.0		
2	BH 16x8x16	1	16.3±0.3	8.3 ⁺⁰ _{-0.3}	16.0±0.4	8.3 ⁺⁰ _{-0.3}		63	115
3	BH 16x9x28.5	2	16.0±0.4	9.0±0.4	28.5±0.6	7.8±0.4	6.0	117	192
4	BH 16x8x13.1	1	16.3±0.3	8.3 ⁺⁰ _{-0.3}	13.1±0.2	8.3 ⁺⁰ _{-0.3}			
5	BH16x9x29.8	2	16±0.3	9.0±0.4	29.8±0.3	8.1±0.1	4.0		
6	BH20x13.4x29	2	20±0.3	13.4±0.4	29±0.3	9.7±0.2	4.86		
7	BH26x13x29.6	2	26±0.3	13±0.4	29.6±0.3	13.5±0.2	7±0.15	110	160

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

SK&RnH 型磁心

SK&RnH Cores

ORDERING CODE SYSTEM

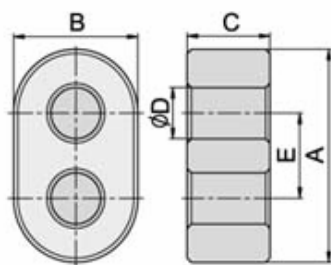
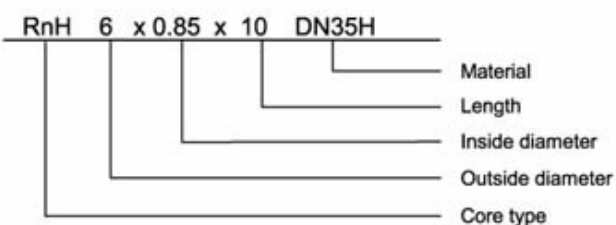
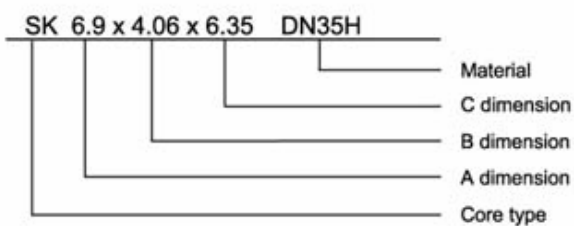


Fig.1

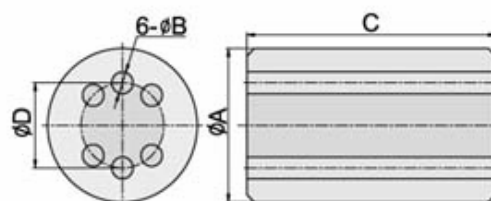


Fig.2

Material : DN65H DN80H DN85H DN100H DN150H DN200

NO	型 号 Part number	图号 Fig	尺 寸 Dimensions(mm)				
			A(ΦA)	B(ΦB)	C	ΦD	E
1	SK 6.9x4.06x6.35	1	6.9±0.3	4.06±0.25	6.35±0.38	1.85±0.15	2.92±0.1
2	SK 13.6x7.6x28	1	13.6±0.3	7.6±0.3	28.0±0.5	3.74±0.2	6.0±0.2
3	R6H 6x0.85x10	2	6.0±0.3	0.85±0.1	10.0±0.5	3.32±0.15	

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

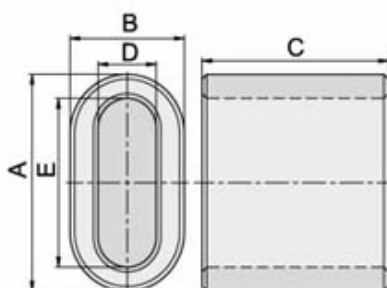
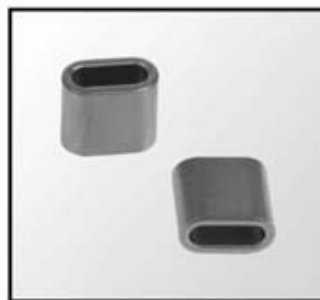
TY 型磁心

TY Cores

ORDERING CODE SYSTEM

TY 40 x 6.5 x 12 DN65H

Material
C dimension
B dimension
A dimension
Core type



Material: DN10H DN65H DN80H DN85H DN100H DN150H

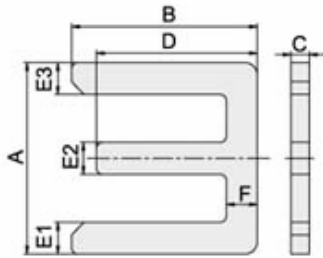
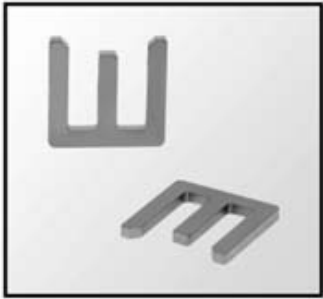
型 号 Part number	尺 寸 Dimensions(mm)				
	A	B	C	D	E
TY7.0x4.0x8.0	7.0±0.5	4.0±0.3	8.0±0.5	1.6 ^{+0.5} _{-0.3}	5.0±0.5
TY9x4.9x8	9.0±0.5	4.9±0.3	8±0.5	2.5 ^{+0.5} _{-0.3}	7.0±0.5
TY28x5x6	28±0.5	5±0.4	6±0.4	0.8 ^{+0.4} _{-0.2}	24±0.5
TY28x5x9	28±0.4	5±0.3	9±0.3	0.8 ^{+0.3} _{-0.1}	24.0±0.4
TY31x5x15	31±0.7	5±0.4	15±0.5	0.8±0.3	27±0.7
TY33.5x6.5x12	33.5±0.4	6.5±0.3	12±0.3	1.4±0.2	28.4±0.4
TY35x6.5x12	35.0±0.3	6.5±0.26	12±0.25	1.4±0.25	31.0±0.3

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

其它型磁心

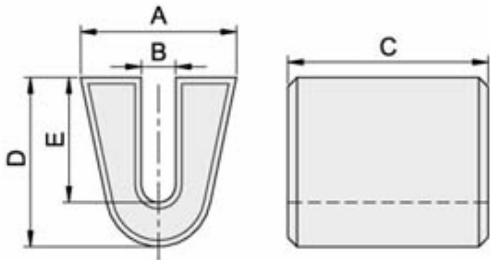
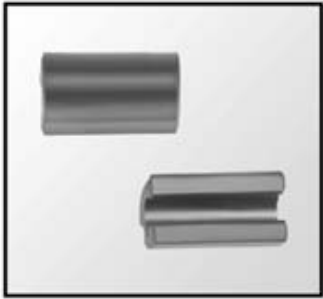
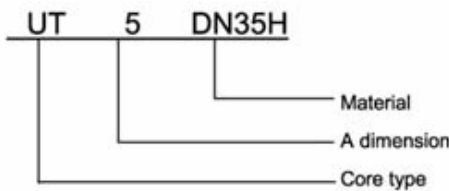
OTHER Cores
ORDERING CODE SYSTEM



Material: DN35H DN65H

型 号 Part number	尺 寸 Dimensions(mm)					
	A	B	C	D	E	F
EE30C	30.0±0.5	30.0±0.3	3.0±0.1	26.0±0.3	5.0±0.2	5.0±0.2

ORDERING CODE SYSTEM



Material: DN35H DN65H

型 号 Part number	尺 寸 Dimensions(mm)				
	A	B	C	D	E
UT3.78	3.78 ⁺⁰ _{-0.15}	1.27±0.075	6.35±0.38	3.51 ⁺⁰ _{-0.2}	2.29 ^{+0.2} ₋₀
UT5	5.08 ⁺⁰ _{-0.25}	0.86 ⁺⁰ _{-0.2}	6.35±0.76	5.36 ⁺⁰ _{-0.25}	3.71 ^{+0.2} ₋₀

注：其它尺寸可以根据需求来制作。
REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST

其它型磁心

OTHER Cores

ORDERING CODE SYSTEM

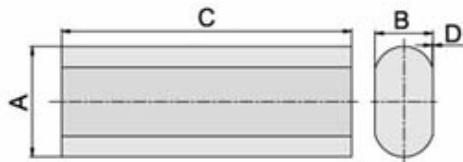
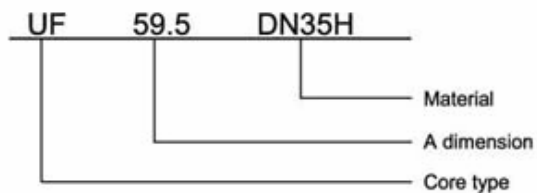


Fig-1

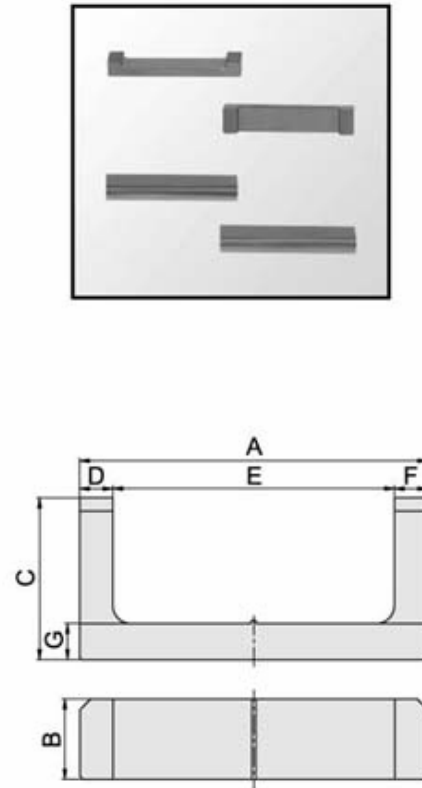


Fig-2

Material: DN35H DN65H

型 号 Part number	图号 Fig.	尺 寸 Dimensions (mm)						
		A	B	C	D	E	F	G
UF59.5	1	16.4±0.25	9.0±0.25	44.0±0.5	0.1			
	2	59.0±1.0	13.3±0.25	26.6±0.3	5.65	47.2min	5.65	6.0±0.1
UF48.4	1	12.0 ⁺⁰ _{-0.3}	6.4 ⁺⁰ _{-0.4}	48.4±0.5				
	2	48.4±0.5	10.0±0.2	6.0±0.2	5.5±0.1	37.4	5.5±0.1	3.5±0.1
UF45	1	12.0 ⁺⁰ _{-0.3}	6.4 ⁺⁰ _{-0.4}	45.0±0.5				
	2	45.0±0.5	10.0±0.2	6.0±0.2	5.65±0.2	33.7	5.65±0.2	3.5±0.1

注：其它尺寸可以根据需求来制作。

REMARK: OTHER SIZE ARE AVAILABLE UPON REQUEST