



日照亿鑫电子材料有限公司

Rizhao
Yixin
Electronic Material
Co.,LTD

产品指南
Products Guide



公司简介

日照亿鑫电子材料有限公司是研发、生产软磁铁氧体的专业高新技术企业，公司位于美丽的海滨城市山东省日照市北经济开发区，国家4A级风景名胜区五莲山脚下，东临青岛，南依日照，地处“三市”（青岛、日照、潍坊）交界，区位优势，交通便利。距青岛港85公里，距日照港25公里，距“同三”高速公路14公里，334省道和潮石公路纵横贯穿，紧贴规划建设の日潍高速公路。

公司于2010年8月份成立，注册资金1000万元，占地面积41000余平方米，建筑面积20000余平方米，下设磁芯生产部和粉料生产部，均从国内外引进各种当前最先进的生产设备，拥有一大批多年从事磁性材料研发与生产的高科技人才，建有专业的技术研发中心并与国内外知名企业和专家合作，技术实力雄厚，是目前山东省规模最大的磁性材料生产厂家。公司于2011年通过了ISO9001国际质量体系认证。

公司所生产的软磁铁氧体类产品主要有五大系列：具有高磁导率特性的YH系列磁芯；具有高磁导率、高Q值、高阻抗、宽频特性的YHB系列磁芯；具有高磁导率、高BS、宽温、高直流叠加特性的YHP系列磁芯；具有低功耗特性的YP系列磁芯；具有低功耗、宽温特性的YPT系列磁芯。产品广泛应用于通讯设备、汽车、家电、抗电磁干扰等领域。

公司本着“创益求精、铸造品质、尊商重义、携手共赢”的经营理念，一如既往，以优质的产品、合理的价格、及时周到的售后服务，继续与广大新老客户携手合作，共同发展。



Corporation Introduction

Rizhao Yixin Electronic Material Co., Ltd is a professional high-tech enterprise which specializes in the research and production of soft magnet oxysome. It is located in North Economic Development Zone in Rizhao, a beautiful coastal city in Shangdong Province. The corporation is at the foot of Wulian Moutain proclaimed as the national 4A scenic spots, facing Qingdao to the East and Rizhao to the South, so it is located in the junction of three cities(Qingdao, Rizhao and Weifang), enjoying a very superior location and convenient communication. It is 85km to Qingdao Port , 25 km to Rizhao Port, and 14 km to Tongsan Highway. The No.334 provincial Road and Chaoshi Road cross nearby. It is also very close.

The corporation was established in August 2010, with the registered capital of 10 million. It covers an area of 41000 square meters and a construction area of 20000 square meters, and consists of magnetic core department and powder production department equipped with the most advanced production equipment imported from abroad. We have a large number of high-tech talents who have engaged in the research and production of magnetic materials. We have established a special technology research center and have cooperated with many well known companies and experts. At present, the corporation is the largest magnetic material manufacturer in Shandong Province. In 2011, it passed the ISO9001 international quality system certification.

The soft magnetic oxysome produced by the company are of five series: YH magnetic core series with high permeability; YHB magnetic core series with high permeability, high Q value, high impedance and broadband; YHB magnetic core series with high permeability, high BS, fargoing-temperature, high direct current segistration; YP magnetic core series with low power consumption and fargoing-temperature; YPT magnetic core series with fargoing-temperature. They are broadly used in communication equipments, automobiles, domestic electric appliances, lighting, and anti-electromagnetic interference etc.

In the light of the business strategy of "innovation, quality, ties of friendship and mutual benefit", we shall, just as in the past, continue to cooperate and jointly develop with our old and new clients by providing high quality products, reasonable prices and timely and considerate services.



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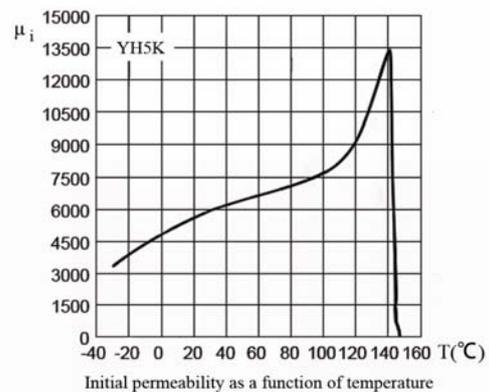
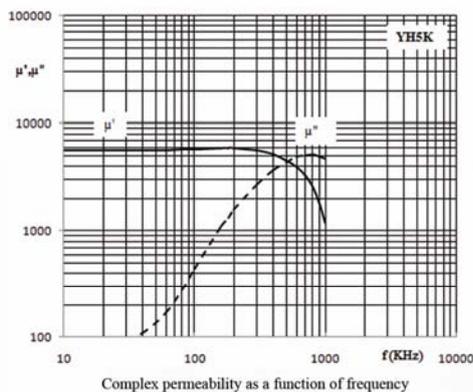
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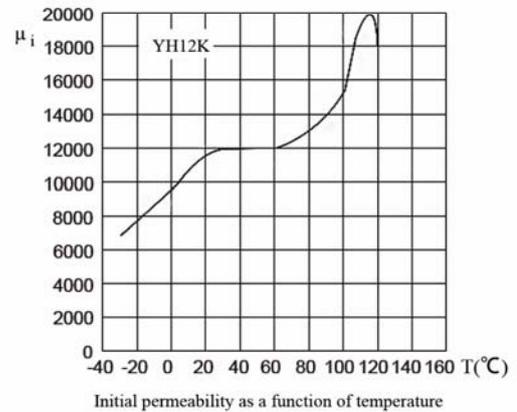
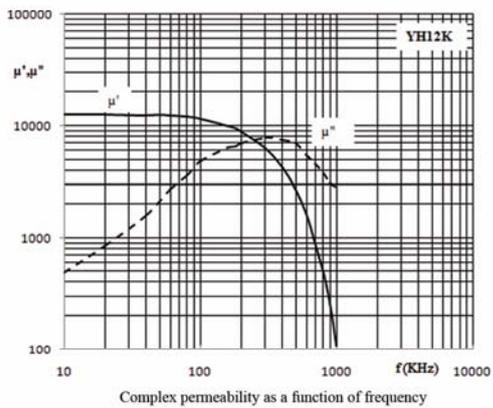
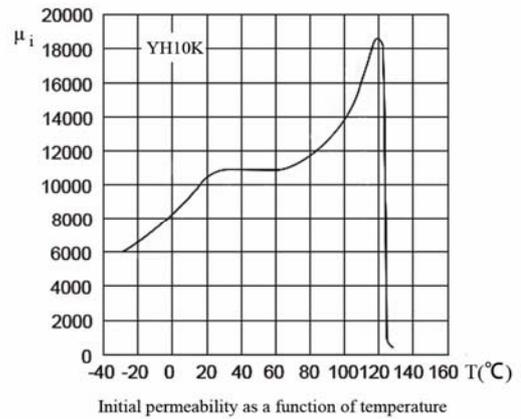
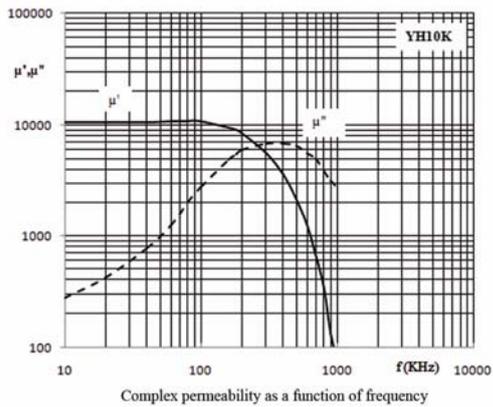
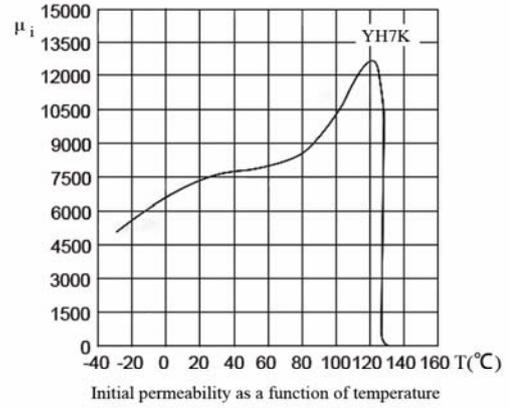
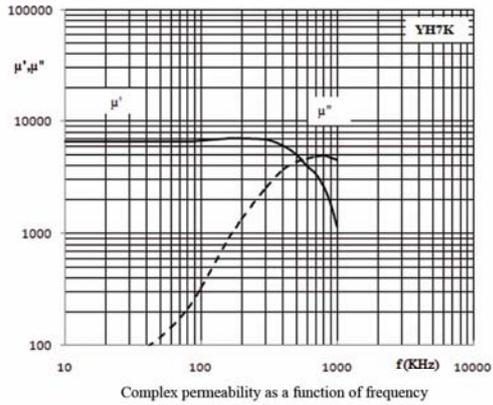
Mn-Zn 高磁导率铁氧体材料 Mn-Zn High μ_i Ferrite Materials

特性 Characteristics	符号 Symbol	单位 Unit	YH5	YH7	YH10	YH12	YH15	
初始磁导率 Initial permeability	μ_i	10KHz	5500 ± 25%	7000 ± 25%	10000 ± 25%	12000 ± 25%	15000 ± 25%	
		100KHz	5500 ± 25%	7000 ± 25%	95000 ± 25%			
		500KHz	4500min	5000min				
比损耗因数 Relative loss factor	$\tan \delta / \mu_i$	$\times 10^{-6}$	< 15 (100KHz)	< 7 (10KHz)	< 7 (10KHz)	< 8 (10KHz)	< 10 (10KHz)	
比温度系数 Relative temperature coefficient	$\alpha_{\mu r}$	$\times 10^{-6}/^{\circ}\text{C}$	0~1.5 (20~60°C)	0~1.5 (-30~20°C) 0~2 (20~55°C)	-0.5~1.5 (-30~20°C) -0.5~1.5 (20~70°C)	-0.5~1.5 (0~70°C)	-1.0~1.5 (0~70°C)	
饱和磁通密度 (H=1194A/m) Saturation flux density	B_s	mT	25°C	420	400	400	380	360
			100°C					
剩磁 Remanence (H=1194A/m)	B_r	mT	150	90	90	150	140	
矫顽力 Coercivity (H=1194A/m)	Hc	A/m	8	10.4	7.2	5	4	
减落因数 Disaccommodation factor	D_F	$\times 10^{-6}$	< 3	< 3	< 2	< 2	< 2	
居里温度 Curic temperature	T_c	°C	> 150	> 130	> 125	> 120	> 110	
电阻率 Resistivity	ρ	$\Omega \cdot \text{m}$	0.3	0.3	0.15	0.15	0.15	
密度 Density	d	Kg/m^3	4.85×10^3	4.90×10^3	4.95×10^3	4.95×10^3	4.95×10^3	



高磁导率铁氧体磁芯

High Permeability Ferrite Core

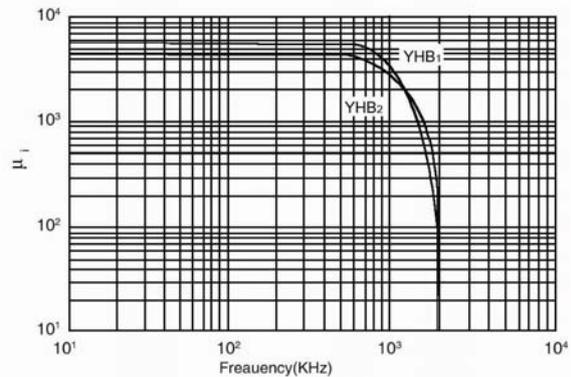
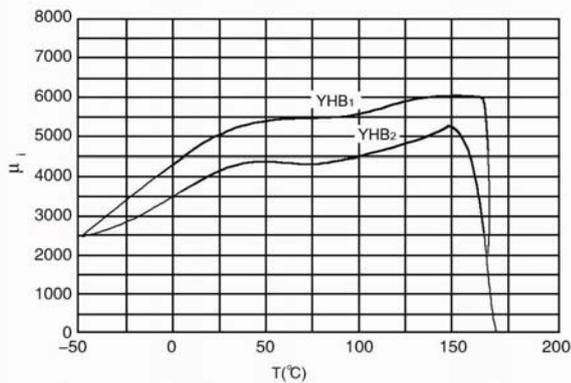




高磁导率铁氧体材料特性 MATERIAL CHARACTERISTICS

特性Characteristics	符号 Symbol	单位 Unit	YHB1	YHB2	
初始磁导率 Initial permeability	μ_i		5000 \pm 25%	4500 \pm 25%	
饱和磁通密度 (H=1194A/m) Saturation flux density	B_s	mT	25 $^{\circ}$ C	500	450
			100 $^{\circ}$ C	380	
剩磁 Remanence (H=1194A/m)	B_r	mT	25 $^{\circ}$ C	120	50
			100 $^{\circ}$ C		
矫顽力 Coercivity (H=1194A/m)	Hc	A/m	10	6	
比损耗因数 Relative loss factor	$\tan \delta / \mu_i$	$\times 10^{-6}$	< 10 (10KHz)	< 14 (10KHz)	
比温度系数 Relative temperature coefficient	α_{μ}	$\times 10^{-6} / ^{\circ}$ C	0-1.3 (20-60 $^{\circ}$ C)	3.0 (-20-20 $^{\circ}$ C) 1.0 (20-80 $^{\circ}$ C)	
居里温度 Curic temperature	Tc	$^{\circ}$ C	> 160	> 160	
密度 Density	d	kg/m 3	4.85 $\times 10^3$	4.85 $\times 10^3$	

Mn-Zn 宽温高直流叠加 (DC-Bias) 铁氧体材料



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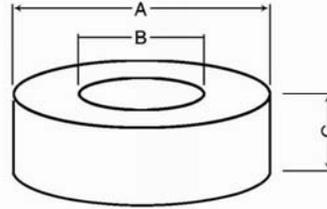


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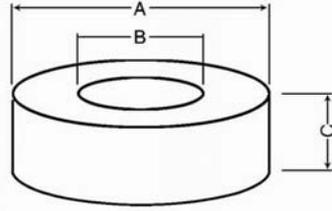
T 型
T CORES



型号 TYPE	尺寸 Dimensions			重量 (克/ 付) Wt (g/set)	AL-Value(Nh/N ²)± 25%		AL-Value(Nh/N ²)± 30%	
	A	B	C		YH5K	YH7K	YH10K	YH12K
T3.05*1.78*2.07	3.05±0.15	1.78±0.15	2.07±0.15	0.045	1050	1500	2150	2680
T3.45*1.75*1.3	3.45±0.15	1.78±0.15	1.3±0.15	0.042	830	1160	1600	1920
T3.5*1.8*1.8	3.50±0.15	1.8±0.15	1.8±0.15	0.050	1150	1600	2300	2760
T5.84*3.05*3.05	5.84±0.20	3.05±0.15	3.05±0.15	0.15	2100	2605	3800	4360
T6*3*2	6.0±0.3	3.0±0.3	2.0±0.25	0.21	1385	2000	2800	3323
T6*3*3	6.0±0.3	3.0±0.3	3.0±0.3	0.32	2000	2800	4000	4800
T8*4*2	8.0±0.3	4.0±0.2	2.0±0.2	0.37	1330	1870	2670	3200
T8*4*3	8.0±0.3	4.0±0.2	3.0±0.2	0.56	2000	2800	4000	4800
T8*4*4	8.0±0.3	4.0±0.2	4.0±0.2	0.76	2650	3700	5300	6400
T9*5*3	9.1±0.3	5.1±0.3	3.0±0.3	0.60	1760	2470	3520	4220
T9*5*4	9.1±0.3	5.1±0.3	4.0±0.3	0.82	2350	3290	4700	5640
T9*5*5	9.1±0.3	5.1±0.3	5.0±0.3	1.0	2940	4110	5870	7050
T9.53*4.75*3.2	9.53±0.25	4.75±0.25	3.2±0.125	0.76	2230	3120	4450	5340
T10*6*4	10.1±0.3	6.1±0.3	4.0±0.3	0.98	2040	2850	4080	4890
T10*6*5	10.1±0.3	6.1±0.3	5.0±0.3	1.25	2550	3570	5100	6120
T10*6*6	10.1±0.3	6.1±0.3	6.0±0.4	1.48	3060	4290	6130	7350
T11.9*6*4	11.9±0.3	6.0±0.3	4.0±0.3	1.50	—	—	4990	—
T12*6*4	12.0±0.4	6.0±0.3	4.0±0.3	1.50	2700	3800	5400	6480
T12.7*7.14*4.7	12.7±0.4	7.14±0.3	4.7±0.3	2.00	2700	3780	5400	6490
T12.7*7.9*4.5	12.7±0.4	7.9±0.3	4.5±0.3	1.53	2120	2980	4270	5120
T12.7*7.9*4.7	12.7±0.4	7.9±0.3	4.7±0.3	1.61	2220	3110	4460	5350
T12.7*7.9*4.9	12.7±0.4	7.9±0.3	4.9±0.3	1.70	2310	3240	4630	5555
T12.7*7.9*5.2	12.7±0.4	7.9±0.3	5.2±0.3	1.80	2455	3440	4910	5890
T12.7*7.9*6.3	12.7±0.4	7.9±0.3	6.3±0.3	2.33	2990	4190	5950	7140
T12.7*7.9*7	12.7±0.4	7.9±0.3	7.0±0.3	2.40	3300	4627	6610	7930
T13*7*5	13.0±0.35	7.0±0.3	5.0±0.3	2.14	3400	4330	6190	7428
T14*7*7	14.0±0.4	7.0±0.3	7.0±0.3	3.88	4670	6540	9300	11210
T14*8*3	14.0±0.4	8.0±0.3	3.0±0.3	1.47	1670	2350	3350	4020

高磁导率铁氧体磁芯

High Permeability Ferrite Core



T 型
T CORES



型号 TYPE	尺寸 Dimensions			重量(克 /付) Wt (g/set)	AL-Value(Nh/N ²)± 25%		AL-Value(Nh/N ²)± 30%	
	A	B	C		YH5K	YH7K	YH10K	YH12K
T14*8*4	14.0±0.4	8.0±0.3	4.0±0.3	1.97	2240	3130	4480	5370
T14*8*7	14.0±0.4	8.0±0.3	7.0±0.3	3.45	3920	5480	7840	9400
T14*8*9	14.0±0.4	8.0±0.3	9.0±0.3	4.48	5040	7040	10080	12090
T14*8.5*5.5	14.0±0.4	8.5±0.3	5.5±0.3	2.59	—	4250	5750	6600
T14*9*5	14.0±0.4	9.0±0.3	5.0±0.3	2.08	2210	3090	4420	5300
T16*9*5	16.0±0.4	9.5±0.4	5.0±0.3	3.19	2600	3650	5210	6250
T16*9*8	16.0±0.4	9.5±0.4	8.0±0.3	4.94	4080	5710	8160	8160
T16*10*5	16.0±0.4	10.0±0.3	5.0±0.3	3.00	2350	3290	4700	5520
T16*10*7	16.0±0.4	10.0±0.3	7.0±0.3	4.10	3286	4600	6572	7887
T16*10*8	16.0±0.4	10.0±0.3	8.0±0.3	4.70	3755	5258	7512	9014
T16*12*8	16.0±0.4	12.0±0.3	8.0±0.3	3.53	2300	3220	4600	5520
T18*10*7	18.0±0.4	10.0±0.3	7.0±0.3	6.13	4110	5760	8230	9870
T18*10*8	18.0±0.4	10.0±0.3	8.0±0.3	6.91	4700	6580	9400	11280
T18*10*10	18.0±0.4	10.0±0.3	10.0±0.3	8.77	5880	8230	11750	14100
T18*10*12	18.0±0.5	10.0±0.4	12.0±0.4	10.30	7800	9600	11000	12000
T19*13*6	19.0±0.3	13.0±0.3	6.0±0.3	4.30	2300	3200	4550	5400
T20*10*10	20.0±0.4	10.0±0.3	10.0±0.3	11.24	6750	9400	13500	16000
T20*10*12	20.0±0.4	10.0±0.4	12.0±0.3	13.53	8000	11200	16000	19000
T20*12*8	20.0±0.4	12.0±0.3	8.0±0.3	7.92	4000	5720	8170	9790
T20*12*10	20.0±0.4	12.0±0.3	10.0±0.3	9.90	5600	7600	10200	12240
T22*14*6.5	22.0±0.5	14.0±0.4	6.5±0.3	6.77	2940	4110	5870	7040
T22*14*8	22.0±0.5	14.0±0.4	8.0±0.3	8.61	3620	5060	7230	8670
T22*14*9	22.0±0.5	14.0±0.4	9.0±0.3	9.77	4070	5690	8130	9760
T22*14*10	22.0±0.5	14.0±0.4	10.0±0.3	11.33	4520	6330	9040	10840
T22*14*12.7	22.0±0.5	14.0±0.4	12.7±0.4	14.04	5740	8040	11480	13770
T25*15*5	25.0±0.5	15.0±0.4	5.0±0.3	7.44	2550	3570	5110	6130
T25*15*8	25.0±0.5	15.0±0.4	8.0±0.3	12.06	4090	5720	8200	9840
T25*15*9	25.0±0.5	15.0±0.4	9.0±0.3	13.63	4600	6440	9220	11040
T25*15*10	25.0±0.5	15.0±0.4	10.0±0.3	14.89	5110	7150	10220	12260



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	A	B	C		YH5K	YH7K	YH10K	YH12K
T25*15*12	25.0±0.5	15.0±0.4	12.0±0.4	17.95	6130	8580	12260	14710
T25*15*13	25.0±0.5	15.0±0.4	13.0±0.4	19.43	6640	9300	12920	15670
T25*15*15	25.0±0.5	15.0±0.4	15.0±0.4	23.30	7660	10730	15330	18390
T28*19*12	28.0±0.5	19.0±0.5	12.0±0.4	19.40	4590	6430	9180	11010
T28*19*15	28.0±0.5	19.0±0.5	15.0±0.4	24.25	5740	8040	11490	13780
T29*19*7.5	29.0±0.5	19.0±0.5	7.5±0.3	12.90	3170	4430	6340	7495
T31*19*6	31.0±0.5	19.0±0.5	6.0±0.3	13.22	2940	4110	5880	7050
T31*19*6.5	31.0±0.5	19.0±0.5	6.5±0.3	14.32	3180	4460	6350	7620
T31*19*8	31.0±0.5	19±0.5	8.0±0.3	18.12	3920	5480	7830	9390
T31*19*12	31±0.5	19±0.5	12±0.4	26.99	5870	8220	11740	12420
T31*19*13	31±0.5	19±0.5	13±0.4	29.04	6360	8910	12730	14080
T31*19*15	31±0.6	19±0.5	15±0.4	29.10	7200	10080	14400	17280
T36*23*15	36±0.6	23.45±0.5	15±0.4	41.37	7400	9000	13400	14500
T37*22*10	37±0.6	22±0.5	10±0.4	33.96	5200	7280	10350	12420
T37*22*13	37±0.6	22±0.5	13±0.4	41.92	6750	9460	13450	16140
T37*22*14	37±0.6	22±0.5	14±0.4	48.07	7270	10180	14550	17460
T37*22*15	37±0.6	22±0.5	15±0.4	50.51	7790	10900	1550	18600
T38*19*13	38±0.8	19±0.6	13±0.5	53.19	9000	12600	18000	21600
T38*22*16	38±0.8	22±0.8	16±0.5	58.00	8400	11800	16800	20800
T42*26*18	42±0.8	26±0.8	18±0.5	73.50	8620	11400	12900	16300
T47*27*15	47±0.8	27±0.8	15±0.5	79.50	9100	12500	16600	19800
T49*34*16	49.1±0.7	33.8±0.7	15.9±0.35	76.80	6500	8900	11900	14390
T50*25*20	50.0±0.8	25.0±0.8	20.0±0.5	143.00	15200	20800	27700	33200
T50*30*20	50.0±0.8	30.0±0.8	20.0±0.5	121.90	11200	15300	20400	24500
T50*35*20	50.0±0.8	35.0±0.8	20.0±0.5	97.10	7800	10700	14200	17100
T50*30*19	50.0±0.8	30.0±0.8	19.0±0.5	117.90	10600	13500	19400	21300

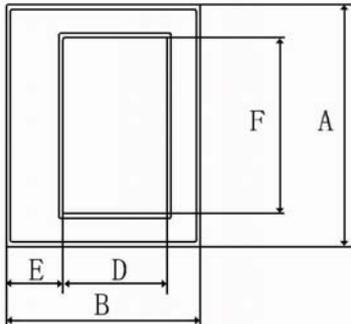
注：可提供磁环喷涂加工，参考指标如下：

规格 (mm)	涂层厚度 (mm)	耐压值 (KV)
φ 6.0— φ 12.0	0.20±0.05	1.0
φ 12.7— φ 22.0	0.25±0.05	1.5
φ 25.0— φ 38.0	0.30±0.05	2.0

测试条件：交流、1.0mA。

高磁导率铁氧体磁芯

High Permeability Ferrite Core

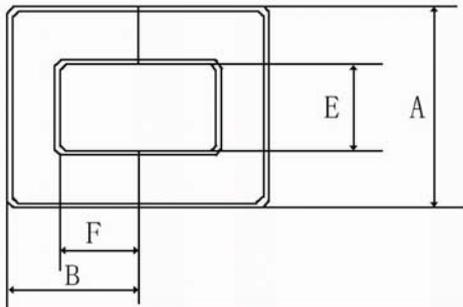


FT 型
FT Cores

型号 TYPE	尺寸 Dimensions					
	A	B	C	D	E	F
FT20	20.6±0.4	14.0±0.3	4.5±0.3	7.3min	4.1±0.3	15.7min
FT25	25.6±0.4	17.6±0.3	5.2±0.25	8.7min	3.4±0.15	19.3min
FT30	30.0±0.4	19.8±0.3	6.4±0.25	8.9min	4.2±0.15	22.4min

型号 TYPE	AL-Value(nH/N ²)±25%		AL-Value(nH/N ²)±30%		重量 (克/付) Wt(g/set)
	YH5K	YH7K	YH10K	YH12K	
FT20	1530	2140	3060	3670	3.76
FT25	1450	2030	3320	3480	6.4
FT30	1925	2695	4400	4720	10.9

注: AL值测试条件: 1KHz、250mV、100TS、25℃±3℃。



UU 型
UU Cores

型号 TYPE	尺寸 Dimensions				
	A	B	C	E	F
UU9.8	9.8±0.3	7.2±0.2	2.7±0.2	4.10min	4.3±0.2
UU10.5	10.5±0.3	8.0±0.3	5.0±0.25	5.32min	5.4±0.3
UU15.7	15.7±0.3	9.9±0.3	6.0±0.2	6.5min	6.3±0.25
UU16	16.0±0.3	10.1±0.2	5.9±0.2	6.70min	6.1±0.3

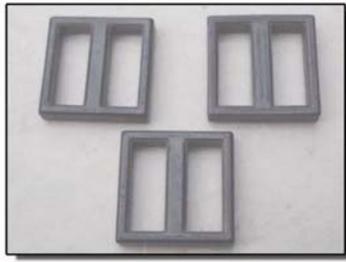
型号 TYPE	AL-Value(nH/N ²)±25%		AL-Value(nH/N ²)±30%		重量 (克/付) Wt(g/set)
	YH5K	YH7K	YH10K	YH12K	
UU9.8	1000	1400	2000	2500min	1.5
UU10.5	1400	1700	2500	3000min	2.5
UU15.7	2500	2800	3550	4000min	6.1
UU16	1800	2500	3550	4000min	6.2

注: AL值测试条件: 1KHz、250mV、100TS、25℃±3℃。

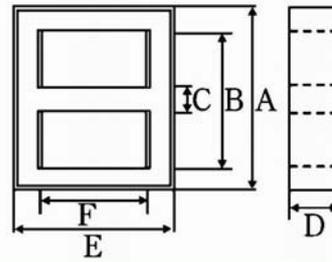


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Rizhao Yixin Electronic Material co.,LTD



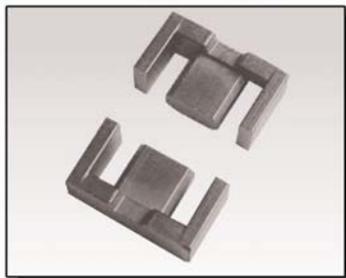
ET 型
ET CORES



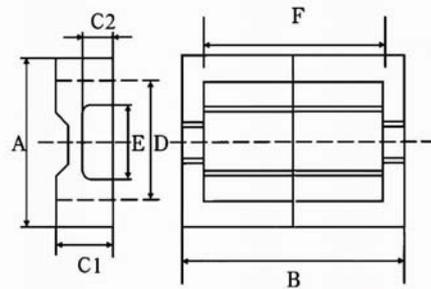
型号 TYPE	尺寸 Dimensions					
	A	B	C	D	E	F
ET20	20.1±0.4	15.7min	4.0±0.2	4.4±0.2	20.1±0.4	15.7min
ET24	24.2±0.5	19.0min	4.0±0.3	4.0±0.3	24.2±0.5	19.0min
ET28	28.4±0.5	22.0min	5.0±0.3	5.0±0.3	28.4±0.5	22.0min
ET35	35.3±0.7	26.5min	7.5±0.3	7.0±0.3	35.3±0.6	26.5min

型号 TYPE	AL-Value(nH/N ²)±25%	AL-Value(nH/N ²)±30%		Wt(g/set)
	YH7K	YH10K	YH12K	
ET20	3100	4400	5280	4.45
ET24	2800	3800	4560	5.5
ET28	3650	4600	5500	9.8
ET35	6350	8400	9680	26

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。



EFD 型
EFD Cores



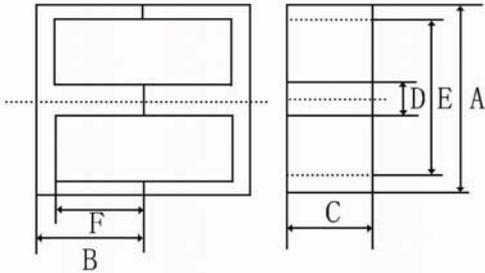
型号 TYPE	尺寸 Dimensions						
	A	B	C1	C2	D	E	F
EFD15	15.0±0.4	15.0±0.4	4.65±0.15	2.4±0.1	11.0±0.35	5.3±0.15	11.0±0.4
EFD25	25.0±0.55	25.0±0.3	9.1±0.2	5.2±0.15	18.7±0.6	11.4±0.2	18.6±0.5

型号 TYPE	AL-Value(nH/N ²) ±25%	AL-Value(nH/N ²)±25%		重量 (克/付) Wt(g/set)
	YH7K	YH10K	YH12K	
EFD15	———	2450min	2660min	2.88
EFD25	4500	———	———	16.38

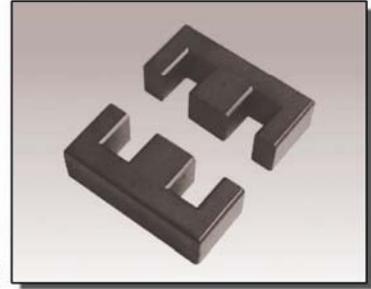
注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

高磁导率铁氧体磁芯

High Permeability Ferrite Core



EE 型
EE Cores



TYPE	尺寸 Dimensions					
	A	B	C	D	E	F
EE5	5.25±0.15	2.65±0.15	1.95±0.1	1.35±0.1	3.8min	2.0±0.1
EE8.3	8.3±0.3	4.0±0.2	3.9±0.15	2.1±0.2	6.3±0.2	3.0±0.2
EE8.9	8.9±0.6	4.1 ⁺⁰ _{-0.3}	1.9±0.15	1.9±0.15	5.3±0.3	2.16±0.15
EE10	10.20±0.2	5.7±0.1	4.75±0.15	2.45±0.15	7.70min	4.2±0.15
EE13	13.0±0.3	6.0±0.2	6.15±0.15	2.95 ⁺⁰ _{-0.35}	10.5±0.3	4.65±0.15
EE16	16.0±0.3	7.3±0.2	4.8±0.2	4.0±0.2	11.7min	5.2±0.2
EEL16	16.0±0.3	12.3±0.3	4.75±0.25	4.0±0.2	11.6min	10.25±0.3
EE19	19.1±0.3	8.15±0.3	5.0±0.2	4.55±0.15	14.2	5.7±0.2
EEL19	20.0±0.3	13.7±0.25	5.0 ^{+0.05} _{-0.20}	4.55±0.2	14.3	11.15±0.15
EE25	25.4±0.6	9.7±0.3	6.3±0.3	6.3±0.4	18.8	6.6±0.35
EE25.4	25.4±0.4	15.9±0.25	6.35±0.25	6.35±0.3	18.8	12.75±0.25

型号 TYPE	AL-Value(nH/N ²) ± 25%	AL-Value(nH/N ²) ± 30%		重量 (克/付) Wt(g/set)
	YH7K	YH10K	YH12K	
EE5	500	980min	1200min	0.24
EE8.3	1150	1900min	2400min	0.78
EE8.9	950	1050min	1250min	0.52
EE10	1750	2000min	2300min	1.6
EE13	1950	3000min	3600min	2.4
EE16	2700	4500min	4800min	3.2
EE16	1950	2500min	2880min	5.5
EE19	3000	5100min	5400min	4.52
EE19	2280	3800min	4100min	7.4
EE25	4500	5800min	6750min	9.72
EE25.4	2800	3150min	3780min	15.84

注: AL值测试条件: 1KHz、250mV、100TS、25°C ± 3°C。

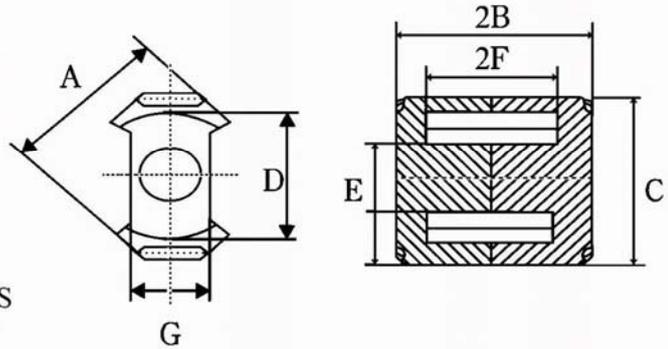


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RM 型
RM CORES



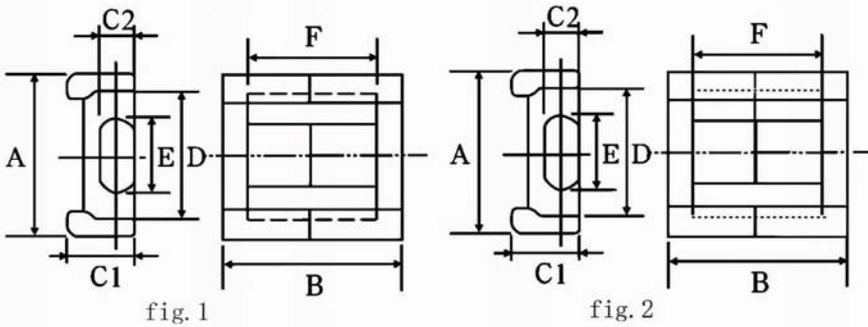
型号	尺寸 Dimensions						
TYPE	A	B	C	D	E	F	G
RM4	$9.8^{+0}_{-0.4}$	$5.1^{+0}_{-0.4}$	$11.0^{+0}_{-0.4}$	$7.95^{+0.4}_{-0}$	$3.9^{+0}_{-0.2}$	$3.5^{+0.4}_{-0}$	$4.6^{+0.1}_{-0}$
RM5	12.1 ± 0.3	5.1 ± 0.2	14.3 ± 0.3	10.3 ± 0.3	4.8 ± 0.2	3.3 ± 0.3	6.5 ± 0.3
RM6	14.5 ± 0.3	6.1 ± 0.2	17.6 ± 0.3	12.6 ± 0.3	6.2 ± 0.2	4.3 ± 0.3	7.0 ± 0.3
RM8	19.4 ± 0.4	8.2 ± 0.2	22.8 ± 0.5	17.3 ± 0.3	8.3 ± 0.25	5.5 ± 0.3	13.0 ± 0.3
RM10	24.15 ± 0.55	9.3 ± 0.1	27.85 ± 0.65	21.65 ± 0.45	10.7 ± 0.2	6.35 ± 0.3	13.25 ± 0.25

型号 TYPE	AL—Value(nH/N ²)±25%		AL—Value(nH/N ²)±30%		重量 (克/付) Wt(g/set)
	YH5KB	YH7K	YH10K	YH12	
RM4	———	———	2730min	3276min	1.4
RM5	3500	4900	5000min	6000min	3.6
RM6	4300	6020	6500min	7800min	5.5
RM8	5700	8000	8750min	9650min	12.7
RM10	6840	9576	11000min	12450min	22.0

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

高磁导率铁氧体磁芯

High Permeability Ferrite Core

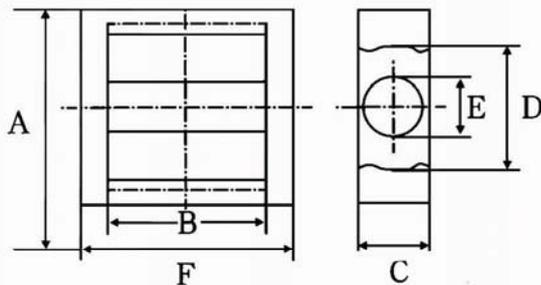


EPC 型 EPC Cores

型号 TYPE	尺寸 Dimensions							
	A	B	C1	C2	D	E	F	
EPC10	10.2±0.2	5.1±0.2	2.5±0.1	1.9±0.1	7.6 ₀	5.0±0.1	5.3±0.2	Fig.2
EPC13	13.2±0.4	13.2±0.4	4.6±0.2	2.05±0.15	10.7±0.4	5.6±0.05	9.0±0.4	Fig.1
EPC16.8	16.8±0.3	14.8±0.3	5.75±0.2	2.8±0.15	13.5 ₀	7.7±0.15	10.8±0.3	Fig.1
EPC19	19.0±0.5	19.5±0.4	6.0±0.25	2.5±0.15	16.0 ^{+0.5} _{0.3}	8.5±0.15	14.5±0.4	Fig.1

型号 TYPE	AL-Value(nH/N ²) ± 25%	AL-Value(nH/N ²) ± 30%		重量 (克/付) Wt(g/set)
	YH7K	YH10K	YH12K	
EPC10	-----	2450min	-----	0.92
EPC13	1500	2380min	2850min	2.2
EPC16.8	1140	3850min	-----	4.6
EPC19	2000	2492min	2890min	5.2

注：AL值测试条件：1KHz、250mV、100TS、25℃ ± 3℃。



EER 型
EER Cores

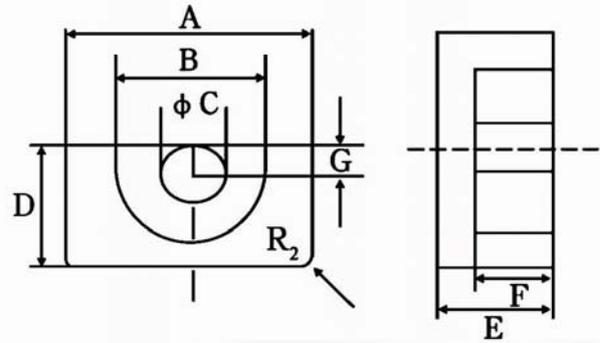
TYPE	尺寸 Dimensions					
	A	B	C	D	E	F
EER7.5	7.5±0.15	5.0±0.2	4.0±0.1	6.1 ^{+0.25} ₀	2.6±0.1	3.45 ^{+0.2} _{-0.1}
EER9.5	9.35±0.15	1.67±0.07	4.9±0.1	7.0	3.4±0.1	2.45±0.05
EER11	11.0±0.25	5.0±0.2	5.8±0.2	9.0±0.25	4.2±0.15	3.2±0.2
EER14.5	14.5±0.2	5.9±0.1	6.7±0.1	11.8±0.2	4.7±0.1	3.3±0.2

TYPE	AL-Value(nH/N ²) ± 25%	AL-Value(nH/N ²) ± 30%		Wt(g/set)
	YH7K	YH10K	YH15K	
EER7.5	900	1900min	2250min	0.41
EER9.5	1300	2500min	3000min	0.96
EER11	2350	4480min	5350min	1.28
EER14.5	2600	4650min	5500min	2.34

注：AL值测试条件：1KHz、250mV、100TS、25℃ ± 3℃。



EP 型
EP Cores



型号 TYPE	尺寸 Dimensions						
	A	B	C	D	E	F	G
EP7	9.3±0.3	7.4±0.2	3.3±0.2	6.4±0.2	3.7±0.2	2.7±0.2	1.6±0.3
EP10	11.5±0.3	9.4±0.2	3.3±0.15	7.65±0.2	5.2±0.1	3.7±0.1	1.85±0.1
EP13	12.5±0.3	10.2±0.3	4.3±0.2	8.8±0.2	6.5±0.15	4.6	2.5±0.25
EP17	18.0±0.4	12.0±0.4	5.68±0.18	11.0±0.25	8.4±0.2	5.65±0.3	---
EP20	24.0±0.5	16.5±0.4	8.75±0.25	14.95±0.35	10.7±0.2	7.15±0.3	---

型号 TYPE	AL-Value(nH/N ²) ± 25%	AL-Value(nH/N ²) ± 30%		重量 (克/付) Wt(g/set)
	YK7K	YH10K	Yh12K	
EP7	2800	3500min	4200min	1.5
EP10	2850	3450min	4200min	2.8
EP13	3850	4500min	5500min	5
EP17	7800	9750min	11700min	12
EP20	11820	14775min	16730min	28

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

功率铁氧体材料特性

Power Ferrites Materials

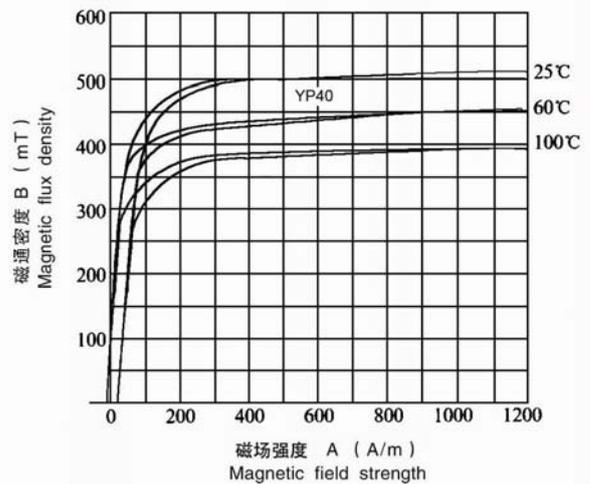
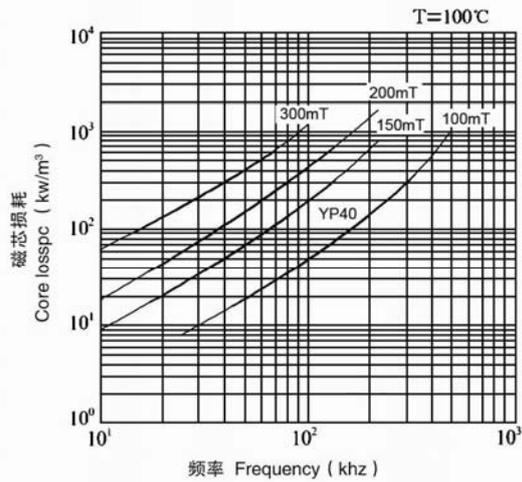
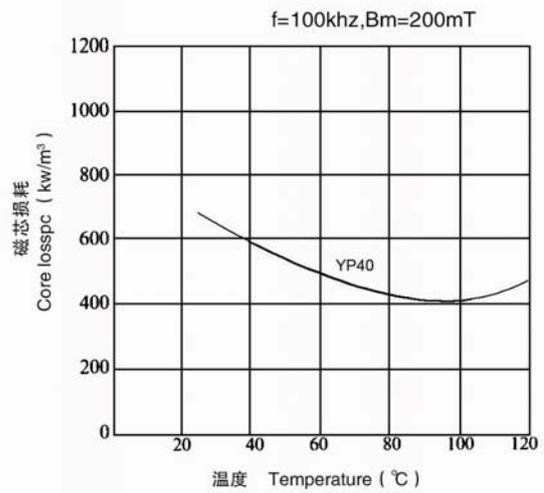
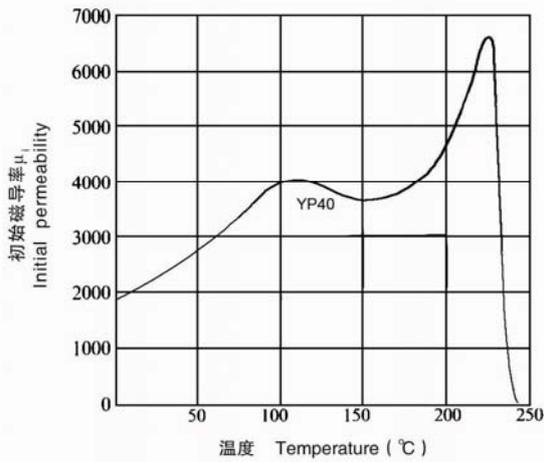
Mn-Zn功率铁氧体材料特性 Power ferrite material characteristics

特性 Characteristics	符号 Symbol	单位 Unit	YP40	YP44	YP50	YPT95	
初始磁导率 Initial permeability	μ		2300 ± 25%	2400 ± 25%	1400 ± 25%	3500 ± 25%	
饱和磁通密度 (H=1194A/m) Saturation flux density	B_s	mT	25°C	510	510	470	520
			100°C	390	390	370	390
剩磁 Remanence (H=1194A/m)	B_r	mT	25°C	110	110	150	90
			100°C	85	85	100	65
矫顽力 Coercivity (H=1194A/m)	H_c	A/m	14.3	13	36	10	
磁芯损耗 Coercivity (f=100khz, B=200mT)	P_c	kW / m ³	25°C	700	600		400
			60°C	450	400		380
			100°C	410	300		380
			100°C				
磁芯损耗 Core loss (f=500khz, B=50mT)	P_c	kW / m ³	25°C			130	
			60°C			80	
			100°C			80	
减落因数	D_f	$\times 10^{-6}$				< 2	
居里温度 Curic temperature	T_c	°C	> 230	> 220	> 240	> 215	
电阻率 Resistivity	ρ	$\Omega \cdot m$	6.5	6.5		6.0	
密度 Density	d	kg/m ³	4.8×10^3	4.8×10^3	4.8×10^3	4.8×10^3	

注：Mn-Zn功率铁氧体材料在高频、高磁通密度工作条件下，具有较低的功率损耗。该材料系列主要用于开关电源变压器、LCD及PDP电源转换器和外部电源适配器用磁芯等。

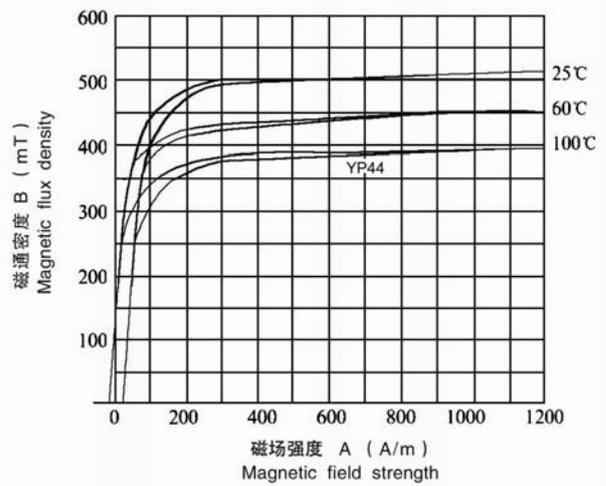
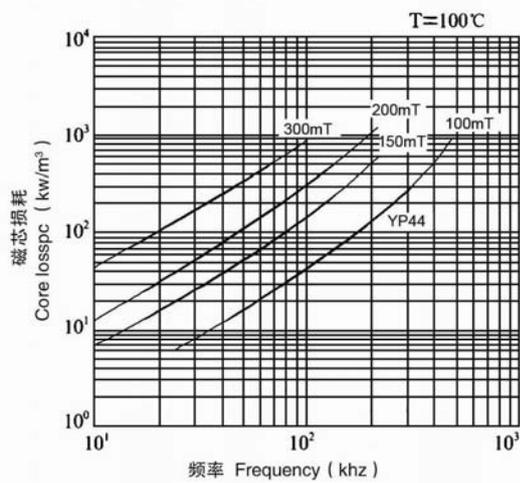
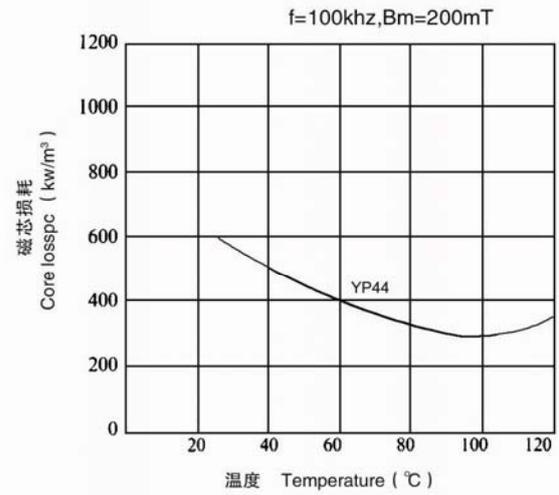
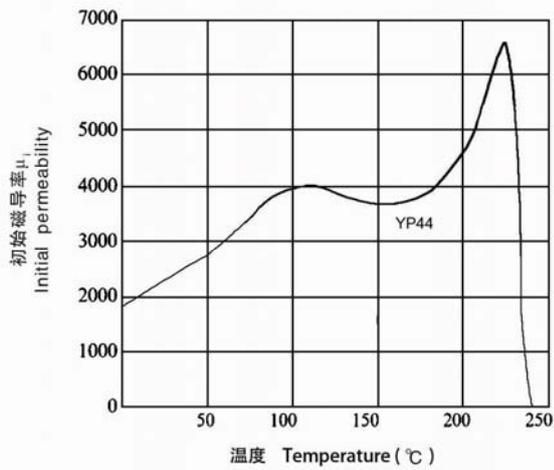


功率损耗与磁通密度的关系 Power Loss Vs Flux Density



功率铁氧体材料特性

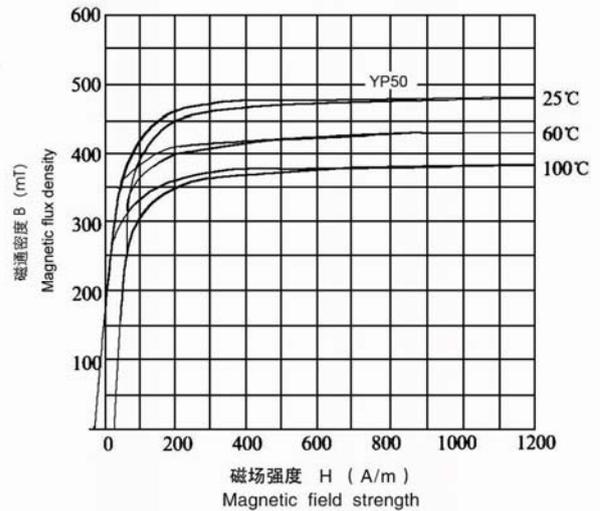
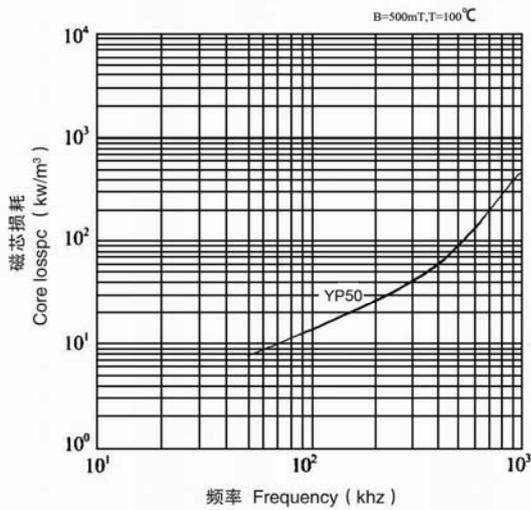
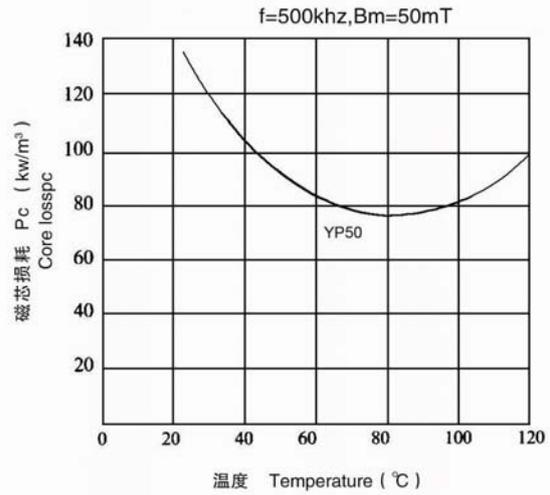
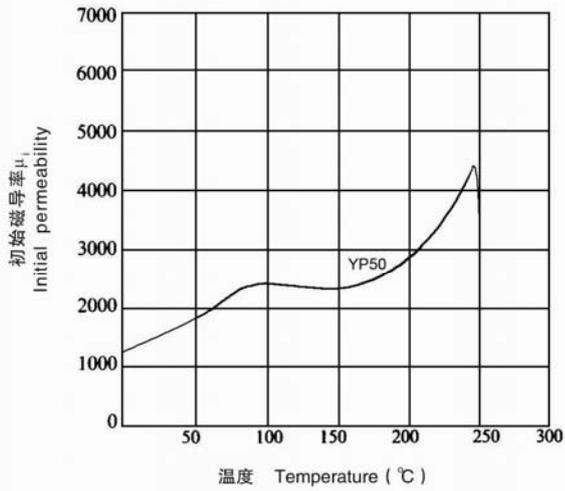
Power Ferrites Materials





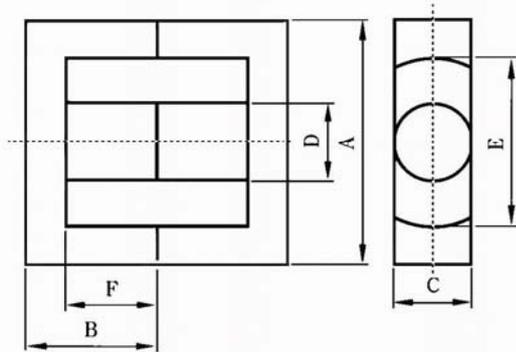
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Rizhao Yixin Electronic Material co.,LTD



功率铁氧体磁芯

Power Ferrites Materials



EC 型
EC CORES



型号 TYPE	尺寸 Dimensions(mm)						重量(克/付) Weight(g/set)
	A	B	C	D	E	F	
EC94	9.35±0.2	2.5±0.1	4.9±0.1	3.4±0.1	7.40 ^{+0.35} ₀	1.7±0.15	0.96
EC11A	10.8±0.2	2.45±0.1	5.9±0.1	4.1±0.15	8.7min	1.6±0.15	1.00
EC28A/14	28.55±0.55	14.0±0.2	11.4±0.25	9.9±0.25	21.2 min	9.65±0.25	28
EC28A/17	28.55±0.55	16.9±0.25	11.4±0.25	9.9±0.25	21.2 min	12.53±0.25	33
EC33A	33.0±0.6	9.75±0.2	14.00±0.25	12.5±0.25	24.7 min	5.3±0.2	32
EC34A	34.2±0.7	17.3±0.25	10.8±0.3	10.8±0.3	25.0 min	12.1±0.3	38
EC35A/17	35.0±0.7	16.8±0.3	11.3±0.3	11.3±0.3	25.6 min	10.8±0.3	45.1
EC35A/21	35.0±0.7	20.7±0.3	11.3±0.3	11.3±0.3	25.6 min	14.7±0.3	52
EC35C/21.5	35.65±0.8	21.5±0.3	11.3 ^{+0.25} _{0.04}	11.3 ^{+0.25} _{0.04}	26 min	15.5±0.3	57.59
EC36A	36.0±0.7	21.6±0.2	11.3±0.3	11.2±0.3	27.8 min	15.6±0.25	50.5
EC39D	39.1±0.7	20.0 ⁺⁰ _{0.4}	12.8 ⁺⁰ _{0.6}	12.8 ⁺⁰ _{0.6}	29.3 min	14.2 ^{+0.8} ₀	63
EC40A	40.0±0.8	22.4±0.3	13.3±0.3	13.3±0.3	28.8 min	15.4±0.3	75.9
EC42A	42.0±0.8	21.2±0.2	15.2±0.3	15.2±0.3	30.5 min	15.2±0.3	92.5
EC53A	55.0±0.8	24.4±0.3	21.5±0.3	20 ^{+0.2} _{0.3}	38.7 min	16.2±0.3	170

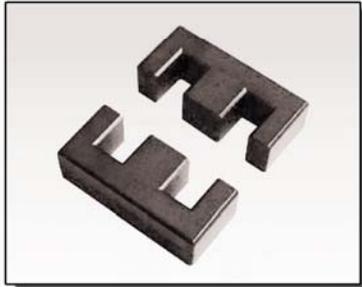
型号 TYPE	有效参数 Effective parameters				电感参数 AL(nH/N ²)±25%		
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YPT95	YP44
EC94	1.67	8.47	14.2	120	950		950
EC11A	1.235	11.9	14.7	175	1200		1700
EC28A/14	0.74	88.3	65.7	5800	2900	3800	3050
EC28A/17	0.88	87.7	77.1	6760	2500	3200	2600
EC33A	0.37	127.36	47.55	6016	5240		5470
EC34A	0.184	97	79	7670	2800		2800
EC35A/17	0.67	114	76.8	8755	3200		3360
EC35A/21	0.82	113	92.2	10400	2800		2920
EC35C/21.5	0.79	118.41	93.635	11087.5	2800		2900
EC36A	0.895	105.5	94.46	9970	2800		2800
EC39D	0.69	136	93.9	12760	3100	4080	3260
EC40A	0.633	153	97.2	14900	3700	4450	3700
EC42A	0.526	183	96.3	17600	4400	5360	4400
EC53A	0.333	319.5	106.7	34091	6400		6780

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

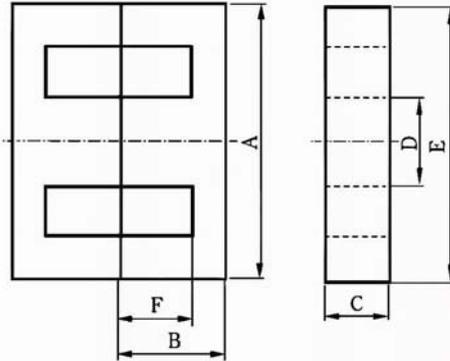


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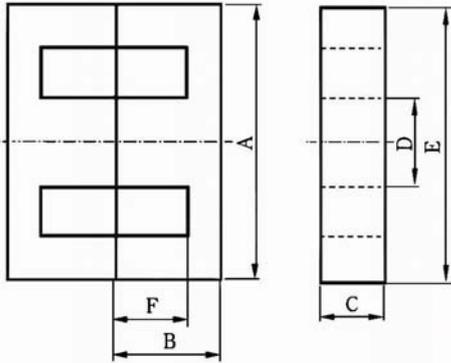
EE 型
EE CORES



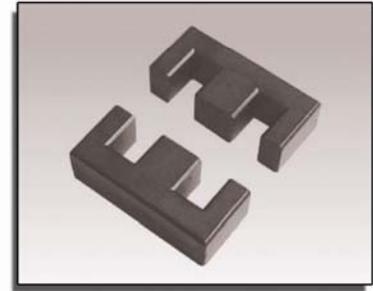
型号 TYPE	尺寸 Dimensions(mm)						重量(克/付) Weight(g/set)
	A	B	C	D	E (min)	F	
EE5.0	5.26±0.15	2.65±0.1	1.96±0.15	1.35±0.1	3.8min	2.0±0.1	0.16
EE8.3A	8.3±0.2	4.0±0.1	3.9±0.15	1.85±0.2	6.0 ^{+0.3} ₀	3.0±0.15	0.92
EE10.2A/5	10.2±0.2	5.5±0.15	4.8±0.2	2.4±0.2	7.8±0.2	4.3±0.2	1.8
EE10.2B/10	10.2±0.2	5.5±0.15	10.0 ⁰ _{-0.4}	2.4±0.2	7.8±0.2	4.3±0.2	3.65
EE10.6A	10.6±0.4	5.6±0.2	4.8±0.3	2.5±0.2	7.7min	4.3±0.2	1.65
EE12.5A	12.4±0.3	7.55±0.15	4.85±0.15	2.4±0.15	8.8min	5.1±0.15	2.40
EE12.5B	12.4±0.3	5.05±0.2	4.85±0.15	2.4±0.2	8.8min	2.6±0.15	1.90
EE12.7A	12.7±0.4	6.1±0.2	3.55±0.2	3.2±0.15	9.5±0.5	4.5±0.2	1.72
EE13B/10	12.95±0.3	6.5 ⁺⁰ _{-0.2}	10.0 ⁰ _{-0.4}	3.7 ⁰ _{-0.3}	8.9 ^{+0.5} ₀	4.5 ^{+0.4} ₀	5.2
EE13C	13.0±0.3	6.0±0.2	6.15±0.2	2.95 ⁺⁰ _{-0.35}	10.5±0.3	4.65±0.15	2.37
EE14A	14.0±0.3	3.5±0.15	5.0±0.2	3.0±0.2	11.0±0.2	2.0±0.1	1.6
EE16A	16.0±0.3	7.3±0.2	4.8±0.2	4.0±0.2	11.7min	5.2±0.2	3.4
EE16C	16.0 ^{+0.7} _{-0.5}	5.95±0.15	7.4 ⁺⁰ _{-0.5}	4.7 ⁺⁰ _{-0.3}	11.3 ^{+0.6} ₀	3.9±0.2	4.4
EE16E	16.0±0.3	4.4±0.15	10 ^{-0.2} _{-0.4}	4.15±0.15	12.0±0.4	2.4±0.2	5.0
EE16F	16.1±0.6	8.05±0.15	4.5±0.2	4.55±0.15	11.3min	5.9±0.2	4.0
EEL16A	16.0±0.3	12.2±0.2	4.8±0.2	4.0±0.2	11.7min	10.2±0.2	5.3
EEL16B	16.8±0.3	12.5±0.2	4.85±0.2	4.0±0.15	12.5min	10.3±0.3	5.5
EE18A	18.0±0.3	4.0±0.15	10.0±0.3	4.0±0.2	14.0±0.3	2.0±0.1	4.8
EE18B	17.9±0.3	7.45±0.2	4.9±0.2	4.65±0.2	13.0±0.4	5.3±0.15	4.19
EE19A	19.1±0.3	7.95±0.2	4.9±0.2	4.55±0.15	14.2	5.6±0.2	4.5
EE19C	19.29±0.32	8.1±0.18	4.75±0.2	4.75±0.15	14.05	5.72±0.2	4.6
EE19H	19.15±0.5	7.90±0.25	9.6 ^{+0.15} _{-0.2}	4.65 ^{-0.25} _{-0.15}	14.75±0.3	5.6±0.15	8.7
EEL19A	19.0±0.3	13.55±0.2	5.1 ⁺⁰ _{-0.5}	5.1 ⁺⁰ _{-0.5}	14.0±0.3	11.3±0.3	7.4

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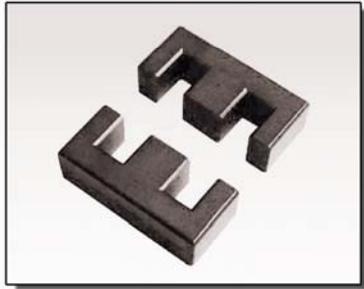
Power Ferrites Materials



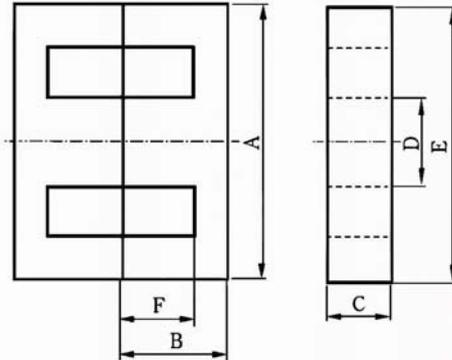
EE 型
EE CORES



型号 TYPE	有效参数 Effective parameters				电感因数 AL(nH/N ²)±25%		
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YPT95	YP44
EE5.0	4.97	2.55	12.68	32.36	270		300
EE8.3A	2.35	8.15	19.2	156	675		960
EE10.2A/5	2.27	11.6	26.4	307	1000	1200	1000
EE10.2B/5	1.123	23.5	26.4	622	2000	2300	2000
EE10.6A	2.17	12.30	26.74	323.84	950	1200	1000
EE12.5A	2.14	14.6	31.2	455	950		1050
EE12.5B	1.39	15.6	21.7	337	1380		
EE12.7A	2.45	11.75	28.78	338.04	810	1060	920
EE13B/10	0.855	35.0	30.0	105	2600		2650
EE13C	1.87	16.20	30.50	495	1300	1450	1300
EE14A	1.38	15.0	29.7	310.7	1360		1400
EE16A	1.76	19.0	35.0	699	1240	1500	1240
EE16C	0.922	31.6	29.1	920	2010	2800	2300
EE16E	0.595	40.0	23.8	951	2900		
EE16F	1.88	20.1	37.6	754	1160		1200
EEL16A	2.84	19.4	55.1	1079	800	1050	800
EEL16B	2.93	19.3	56.6	1090	750	1000	780
EE18A	0.61	40	24.3	971.3	3230		3600
EE18B	1.63	22.5	36.6	825	1320		1380
EE19A	1.74	22.8	39.5	899	1380	1630	1380
EE19C	1.76	22.8	40.0	913	1350	1560	1350
EE19H	0.911	43.5	39.7	1730	2400	3000	2480
EEL19A	2.64	23.4	61.7	1443	950	1080	950



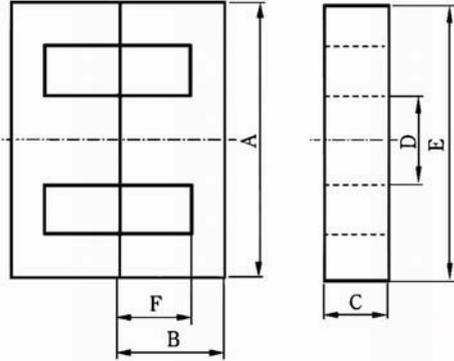
EE 型
EE CORES



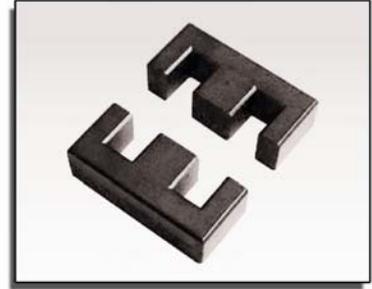
型号 TYPE	尺寸 Dimensions(mm)						重量 (克/付) Weight(g/set)
	A	B	C	D	E	F	
EE20B	20.0±0.3	13.55±0.25	4.9±0.15	4.7±0.2	14.4min	11.2±0.25	7.64
EE20C/6	20.0±0.4	10.0±0.2	5.65±0.25	5.7±0.2	14.1min±	7.2±0.2	7.4
EE20C/9	20.0±0.4	10±0.2	9.0 ⁺⁰ _{-0.4}	5.7±0.2	14.1min	7.2±0.2	11.8
EE20C/11	20.0±0.4	10.0±0.2	11.0 ⁺⁰ _{-0.5}	5.7±0.2	14.1min	7.2±0.2	14.2
EE20D	21.0±0.4	10.5±0.2	6.8±0.25	5.1±0.25	15.6±0.4	7.0±0.2	9.6
EE22A	22.0±0.4	9.4±0.2	5.7±0.3	5.75±0.25	15.6	5.4±0.2	8.5
EE22B	22.0±0.4	15.0±0.2	5.75±0.25	5.75±0.25	15.75min	11.0±0.2	11.9
EE25A	25.0±0.5	10.0 ^{+0.3} ₀	6.4±0.3	6.4±0.3	18.6±0.5	6.55 ^{+0.35} ₀	10.1
EE25B	25.05±0.5	12.55±0.25	7.2±0.3	7.25±0.25	17.5min	8.95±0.25	15.3
EE25B/11	25.05±0.5	12.55±0.25	11.0± ⁺⁰ _{-0.5}	7.25±0.25	17.5 ^{+0.8} ₀	9.0±0.3	22.6
EE25.4A	25.4±0.5	9.7±0.3	6.3±0.2	6.35±0.25	18.55min	6.65±0.35	9.72
EEL25.4A	25.4±0.4	15.85±0.3	6.35±0.25	6.35±0.3	18.7min	12.7±0.3	15.0
EE26	26.38±0.5	9.52±0.3	6.35±0.3	6.4±0.25	20.0min	6.42±0.3	18.6
EE28A	28.0±0.5	16.75±0.25	10.6±0.3	7.2±0.3	18.6min	12.25±0.25	33.5
EE30A	30.7±0.6	13.2±0.2	9.4±0.3	9.4±0.3	21.6min	8.7 ^{+0.2} _{-0.3}	25.6
EE30B	30.0±0.6	21.25±0.25	10.7±0.3	10.7±0.3	19.8min	16.3±0.3	52
EE30C	30.0±0.6	13.15±0.2	10.7±0.3	10.7±0.3	19.5min	8.2±0.2	32.6
EE30D	30.0 ^{+0.8} _{-0.6}	15.2 ⁺⁰ _{-0.4}	7.3 ⁺⁰ _{-0.5}	7.2 ⁺⁰ _{-0.5}	19.5min	9.7 ^{+0.6} ₀	22
EE32A	32.0 ^{+0.7} _{-0.5}	16.1±0.3	9.15±0.35	9.2±0.3	22.7	11.6±0.3	30.9
EE32A/11	32.0 ^{+0.7} _{-0.5}	16.4—0.6	11—0.7	9.5—0.6	22.7±1.0	11.2±0.6	32
EE33A	33.0±0.5	13.5±0.3	12.7±0.3	9.7±0.3	23.5min	9.25±0.25	38.2
EE35A	35.0±0.5	14.6±0.25	9.53±0.25	9.53±0.25	25.04min	9.9±0.25	33.04
EE35B	35.0 ^{+0.2} _{-0.5}	14.25±0.2	12.4 ⁺⁰ _{-0.5}	9.5 ^{+0.1} _{-0.3}	25.5 ^{+0.6} _{-0.5}	9.5 ^{+0.3} ₀	43

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EE 型
EE CORES



型号 TYPE	有效参数 Effective parameters				电感参数 AL(nH/N ²) ± 25%		
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YPT95	YP44
EE20B	2.59	24.4	62.1	1510	980	1100	980
EE20C/6	1.33	33.877	45.06	1526.5	1570	2050	1680
EE20C/9	0.859	52.764	45.06	2377.6	2500	3160	2600
EE20C/11	0.699	64.456	45.06	2904.4	2990	3860	3200
EE20D	1.24	38.4	47.5	1823	2100		
EE22A	0.976	41	40	1020	2200	2900	2300
EE22B	1.82	35.4	64.4	2280	1300	1500	1300
EE25A	1.15	42.1	48.5	2044	1950	2280	1950
EE25B	1.14	50.9	57.9	2946	1950	2240	1950
EE25B/11	0.75	77.1	57.9	4461	3000	3760	3000
EE25.4A	1.21	40.0	48.0	1962	1950	2280	1950
EEL25.4A	1.82	40.4	73.4	2960	1320		1350
EE26	1.21	50.06	10.06	2025	1920		1920
EE28A	0.82	86.1	70.6	6077	2930	3300	2930
EE30A	0.734	83.3	61.1	5000	2950	3800	3070
EE30B	0.83	108.0	90.0	9740	2650		2720
EE30C	0.527	110.0	57.9	6360	4200		4280
EE30D	1.11	60.0	66.0	3950	2000	2900	2000
EE32A	0.89	83	74	6140	2590	3170	2590
EE32A/11	0.76	971	74	7187	2850	3700	2980
EE33A	0.57	114.7	65.2	7474	3800		
EE35A	0.77	91.0	70.0	6410	2800	4400	2930
E35B	0.621	112.0	69.5	7770	3700	4700	3700

注：AL值测试条件：1KHz、250mV、100TS、25℃ ± 3℃。



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RM 型 RM CORES

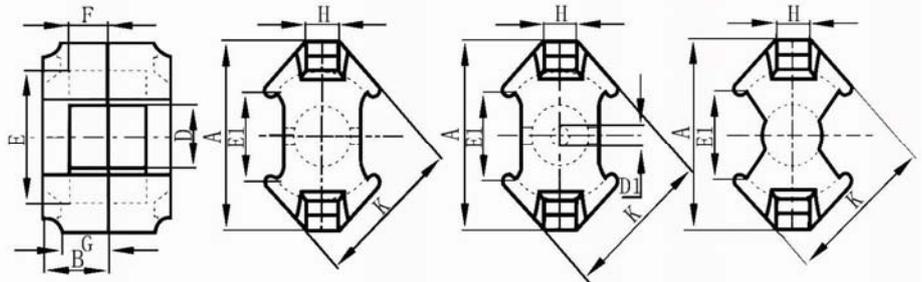


Fig1

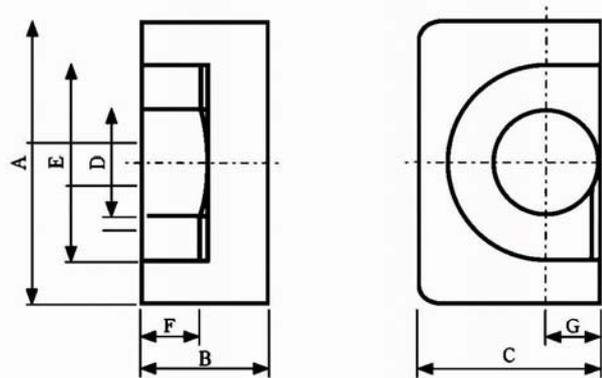
Fig2

Fig3

型号 TYPE	尺寸 Dimensions(mm)									Fig
	A	A1	B	C	D	φD1	E	E1	F	
RM4	10.8±0.2	9.6±0.2	5.20±0.1	4.50±0.15	3.8±0.1		8.15±0.2	5.8min	3.6±0.2	1
RM5A	14.65±0.4	12.05±0.4	5.20±0.1	6.60±0.2	4.8±0.15		10.4 ^{+0.3} _{-0.2}	6.0 min	3.35±0.3	1
RM5B	14.6±0.4	12.05±0.4	5.20±0.1	6.60±0.2	4.8±0.15	2.0 ⁰ _{-0.4}	10.4 ^{+0.3} _{-0.2}	6.0 min	3.35±0.3	2
RM6A	17.6±0.4	14.4±0.4	6.20±0.1	8.0±0.2	6.3±0.15		12.65 ^{+0.35} _{-0.25}	8.4 min	4.2±0.3	1
RM6B	17.6±0.4	14.4±0.4	6.20±0.1	8.0±0.2	6.3±0.15	2.95 ^{+0.2} _{-0.2}	12.65 ^{+0.35} _{-0.25}	8.4 min	4.2±0.2	2
RM7A	19.9±0.4	16.85±0.35	4.85±0.1		7.1±0.15		15.07±0.32	9.3 min	2.35 ^{+0.4} _{-0.4}	3
RM8	22.75±0.5	19.35±0.4	8.2±0.15	10.8±0.3	8.4±0.25		17.3±0.3	9.8 min	5.5±0.2	1
RM10	27.85±0.65	24.15±0.55	9.3±0.20	13.25±0.30	10.7±0.3		21.65±0.45	11.3 min	6.35±0.2	1



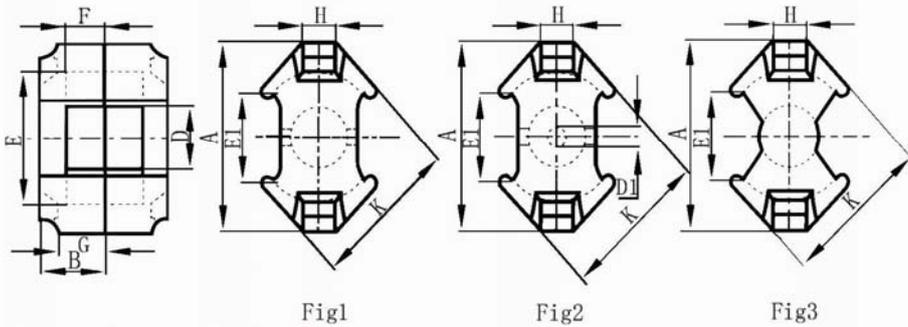
EP 型
EP Cores



型号 TYPE	尺寸 Dimensions(mm)						
	A	B	C	D	E	F	G
EP7	9.2±0.2	3.75±0.15	6.35±0.15	3.3±0.1	7.4±0.2	2.65±0.15	1.7
EP10	11.5±0.3	5.15±0.15	7.65±0.2	3.3±0.15	9.4±0.2	3.75±0.15	1.92
EP13	12.5±0.3	6.5±0.15	8.8±0.2	4.35±0.15	10.0±0.3	4.7±0.15	2.4

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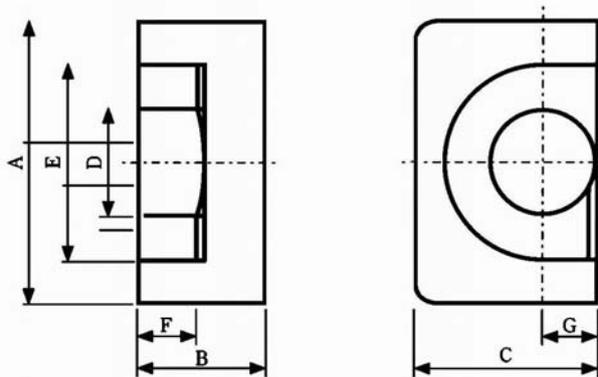
Power Ferrites Materials



RM 型 RM CORES

型号 TYPE	有效参数 Effective parameters				电感因数 AL(nH/N ²)±25%			重量 (克/付) Weight(g/set)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YPT95	YP44	
RM4	1.62	14.0	22.7	318.0	1000	1300	1050	1.9
RM5A	0.94	23.7	22.4	530.0	2000	2500	2100	3.3
RM5B	1.02	21.0	21.4	450.0	1565	1900	1650	3.0
RM6A	0.78	36.6	28.6	1050	2500	3100	2600	5.5
RM6B	0.86	31.0	27.0	840	2200	2750	2300	4.8
RM7A	0.52	45.3	23.5	1060	3300	4100	3400	5.7
RM8	0.59	64.0	38.0	2430	3700	4600	3800	13
RM10	0.45	98.0	44.0	4310	4800	6000	4900	23.1

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。



EP 型
EP Cores

型号 TYPE	有效参数 Effective parameters				电感因数 AL (nH/N ²) ±25%			重量 (克/付) Weight(g/set)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YPT95	YP44	
EP7	1.54	10.3	15.9	164	1100	1700	1400	1.4
EP10	1.72	11.3	19.4	220	1100	1560	1300	2.8
EP13	1.27	19.5	24.7	482	1600	2080	1760	5.1

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。



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EFD/EVD 型 EFD/EVD CORES

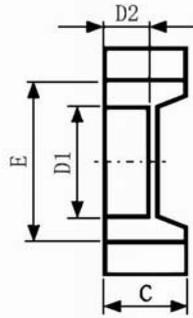


Fig1

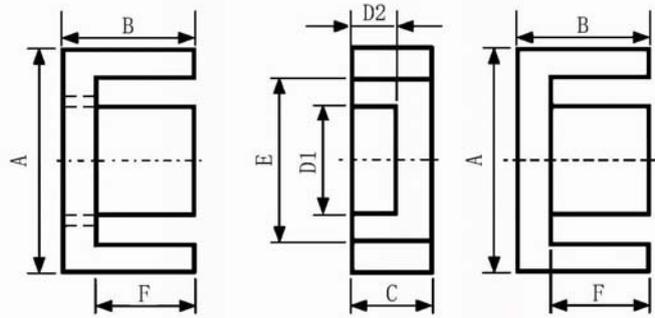
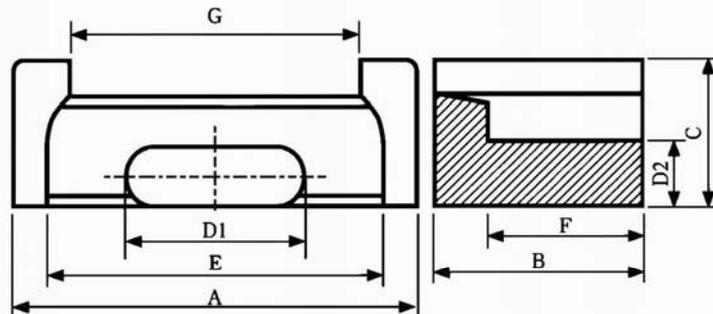


Fig2

型号 TYPE	尺寸 Dimensions(mm)							Fig
	A	B	C	D1	D2	E	F	
EF10	10.5±0.3	5.2±0.1	2.7±0.1	4.55±0.15	1.45±0.1	7.65±0.25	3.75±0.15	1
EFD15	15.0±0.4	7.5±0.15	4.65±0.15	5.3±0.15	2.4±0.1	11.0±0.35	5.5±0.25	1
EFD20	20.0±0.55	10.0±0.25	6.65 ^{+0.2} _{-0.15}	8.9±0.2	3.6±0.2	15.4±0.5	7.7±0.25	1
EFD25	25.0±0.65	12.5±0.25	9.1±0.2	11.4±0.2	5.2±0.25	18.7±0.6	9.3±0.25	1
EVD25	25.0 ^{+0.8} _{-0.7}	12.6±0.2	12.45±0.25	8.8±0.25	8.3±0.3	18.8min	9.55±0.25	2



EPC 型 EPC CORES



型号 TYPE	尺寸 Dimensions(mm)							
	A	B	C	D1	D2	E	F	G
EPC10	10.2±0.2	4.05±0.1	3.4±0.1	5.0±0.1	1.9±0.1	7.6min	2.65±0.1	5.3min
EPC13	13.3±0.3	6.6±0.2	4.6±0.15	5.6±0.15	2.05±0.1	10.5 min	4.5±0.2	8.3min
EPC17	17.8±0.4	8.75±0.2	6.0±0.15	7.4±0.15	2.8±0.1	14.3 min	6.05±0.2	11.5min
EPC19	19.1±0.48	9.75±0.2	6.0±0.15	8.5±0.15	2.5±0.1	15.4 min	7.25±0.2	13.1min

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EFD/EVD 型

EFD/EVD CORES

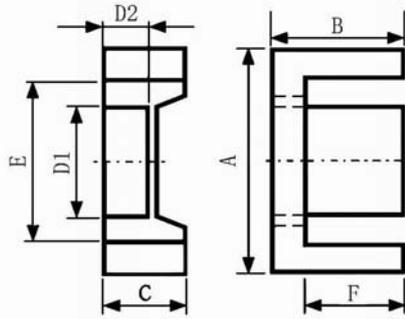


Fig1

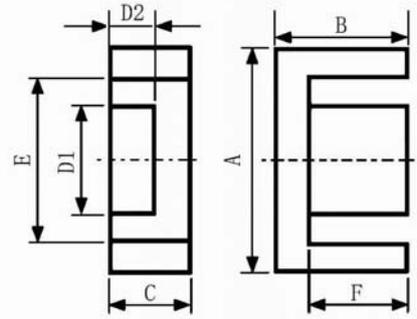
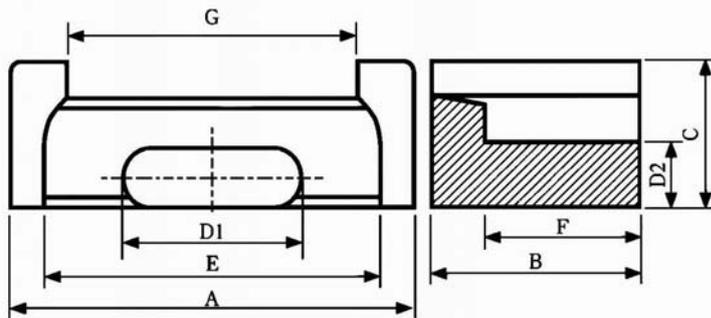


Fig2

型号 TYPE	有效参数 Effective parameters				电感因数 AL(nH/N ²)±25%		重量(克/付)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YP44	Weight(g/set)
EF10	3.21	7.2	23.1	166	600	680	0.8
EFD15	2.27	15	34	510	950	990	2.8
EFD20	1.52	31.0	47.0	1460	1400	1480	7.4
EFD25	1.0	58.0	57.0	3300	2100	2280	16.6
EVD25	0.807	73.1	58.9	4300	2550	2700	22

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

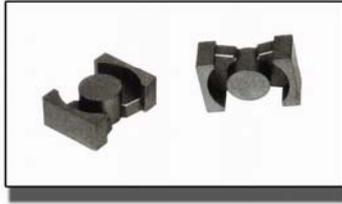


EPC 型

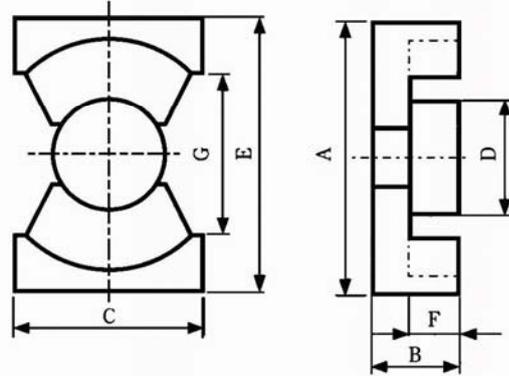
EPC CORES

型号 TYPE	有效参数 Effective parameters				电感因数 AL(nH/N ²)±25%		重量(克/付)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YP44	Weight(g/set)
EPC10	1.89	9.39	17.8	167	1000	1155	1.1
EPC13	2.46	12.5	30.6	382	870	890	2.1
EPC17	1.76	22.8	40.2	917	1150	1250	4.5
EPC19	2.03	22.7	46.1	1047	940	1070	5.3

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。



PQ 型
PQ CORES



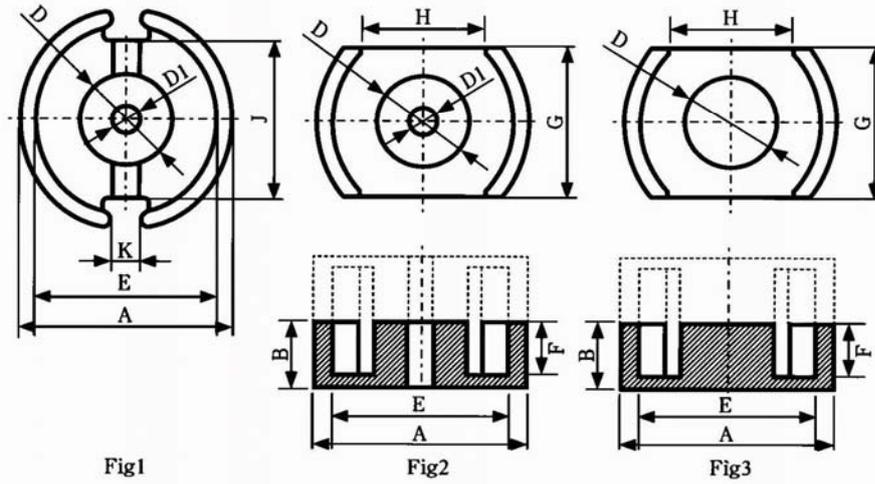
型号 TYPE	尺寸 Dimensions(mm)						
	A	B	C	D	E	F	G
PQ20/16	20.5±0.4	8.0 ^{+0.2} ₀	14.0±0.4	8.8±0.2	18.0±0.4	5.0 ^{+0.3} ₀	12.0min
PQ20/20	20.5±0.4	10.2 ⁺⁰ _{-0.2}	14.0±0.4	8.8±0.2	18.0±0.4	7.0 ^{+0.3} ₀	12.0min
PQ26/20	26.5±0.45	9.95 ^{+0.25} ₀	19.0±0.45	12.0±0.2	22.5±0.45	5.75±0.15	15.5 min
PQ26/25	26.5±0.45	12.5 ⁺⁰ _{-0.25}	19.0±0.45	12.0±0.2	22.5±0.45	8.05±0.15	15.5 min
PQ32/20	32.0±0.5	10.4 ⁺⁰ _{-0.25}	22.0±0.5	13.45±0.25	27.5±0.5	5.75±0.15	19.0 min
PQ32/30	32.0±0.5	15.3 ⁺⁰ _{-0.3}	22.0±0.5	13.7 ⁺⁰ _{-0.5}	27.5±0.5	10.5 ^{+0.3} ₀	19.0 min
PQ35/35	35.1±0.6	17.5 ⁺⁰ _{-0.25}	26.0±0.5	14.35±0.25	32.0±0.5	12.5±0.15	23.5 min

型号 TYPE	有效参数 Effective parameters				电感因数 AL(nH/N ²)±25%		重量(克/付) Weight(g/set)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YP44	
PQ20/16	0.605	62.0	37.4	2310	3560	3880	13
PQ20/20	0.738	62.0	45.4	2790	2920	3150	15
PQ26/20	0.391	119	46.3	5490	5510	6170	31
PQ26/25	0.472	118	55.5	6530	4670	5250	36
PQ32/20	0.326	170	55.5	9420	6730	7310	42
PQ32/30	0.464	161.0	74.6	12000	4900	5140	55
PQ35/35	0.448	196	87.9	17300	4860	5080	73

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

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POT/CUT 型

型号 TYPE	尺寸 Dimensions										Fi g
	A	B	D	E	F	J	K	D1	G	H	
POT14*8C H	14.0±0.25	4.18±0.15	5.99min	11.60min	2.79min	9.50± 0.6	3.30±0.6	3.10±0.10			1
CUT14*8	14.0±0.25	4.18±0.15	5.99min	11.60min	2.79min				9.4±0.15	7.60m in	3
POT18*11 CH	17.90±0.30	5.30±0.20	7.45±0.20	15.25±0.25	38.0±0.1	11.55± 0.3	3.20±0.3	3.10±0.10			1
CUT18*11 CH	17.90±0.30	5.30±0.20	7.45±0.20	15.20±0.25	38.0±0.1			3.10±0.10	11.90±0.2	10.50 min	2
CUT30*19	30.0±0.6	9.5±0.15	12.4±0.3	24.6±0.5	6.6±0.2				20.3±0.3	16.8m in	3

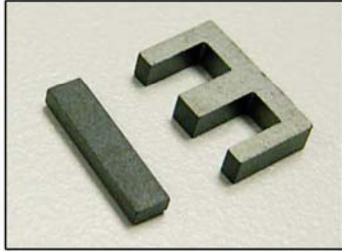
型号 TYPE	有效参数 Effective parameters				电感因数 AL(nH/N ²)±25%		重量 (克/付) Weight(g/set)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YP44	
POT14*8CH	0.789	25.0	19.8	495	1650	1750	3.76
CUT14*8	0.910	23.3	21.1	492	2000	2100	3.49
POT18*11CH	0.597	43.3	25.8	1120	2850	3000	7.86
CUT18*11CH	0.670	40.6	27.2	1110	2500	2700	7.11
CUT30*19	0.36	119	43	5117	4800	5500	26.8

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

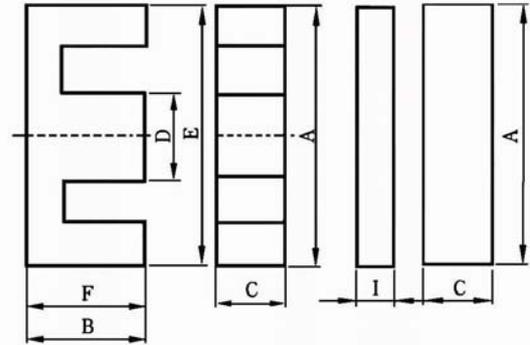


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EI 型
EI CORES



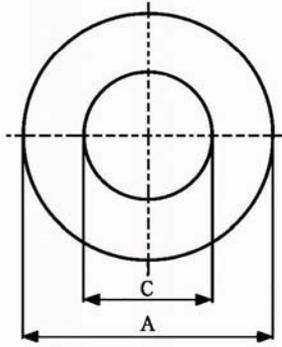
型号 TYPE	尺寸 Dimensions(mm)						
	A	B	C	D	E	F	I
EI12.5A	12.5±0.3	7.5±0.2	5.0±0.2	2.5 ^{+0.1} _{-0.2}	8.9min	5.0±0.15	1.6±0.15
EI16A	16.0±0.3	12.4±0.2	5.0 ⁺⁰ _{-0.4}	4.0 ⁺⁰ _{-0.4}	12..0 ^{+0.3} _{-0.1}	10.2 ^{+0.5} _{-0.2}	2.0±0.2
EI20B	20.0±0.3	13.55±0.25	4.9±0.15	4.7±0.2	14.4min	11.2±0.25	2.3±0.1
EI22B	22.0±0.4	15.0±0.2	5.7±0.3	5.7±0.3	15.6min	11.0±0.3	4.0±0.2
EI25A	25.0±0.5	15.75±0.25	6.75±0.25	6.5±0.25	18.15min	12.75±0.25	3.0±0.2
EI25.4A	25.3±0.5	15.55±0.25	6.75±0.25	6.5±0.3	19.0min	12.35±0.25	2.7±0.2
EI28A	28.0±0.5	17.0±0.3	11.0 ⁺⁰ _{-0.6}	7.2±0.3	18.6min	12.5±0.3	3.6±0.25
EI30	30.0±0.4	21.25±0.25	10.7±0.3	10.7±0.3	20.0 ^{+0.7} ₋₀	16.25±0.25	5.5±0.2
EI33A	33.0±0.7	23.5±0.3	13.0 ⁺⁰ _{-0.6}	10.0 ⁺⁰ _{-0.6}	23.8min	19.25±0.25	5.2±0.2
EI40A	40.5±0.8	27.3±0.3	11.7±0.3	11.7±0.3	27.0min	20.2±0.4	7.5±0.3
EI50	50.0±0.7	33.35±0.35	14.6±0.4	14.6±0.4	34.0min	24.75±0.25	9.0±0.3
EI60A	60.0±0.8	35.85±0.35	15.6±0.4	15.6±0.4	44.1	37.85±0.35	8.5±0.3

型号 TYPE	有效参数 Dimensions(mm)				电感因数 AL (nH/N ²) ±25%			重量(克/付) Weight(g/set)
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	YP40	YPT95	YP44	
EI12.5A	1.362	15.7	21.7	337	1200	1400	1280	1.8
EI16A	1.896	18.6	35.3	658	1140	1400	1190	3.0
EI20B	1.64	24.1	39.6	953	1400	1700	1400	4.9
EI22B	1.162	37	43	1591	2100	2400	2100	8.7
EI25A	1.087	43.24	46.99	2032.06	2000	2600	2080	10.4
EI25.4A	1.146	41	47	1927	2140	2400	2140	9.8
EI28A	0.569	86	48.9	4205.4	3800	5000	3960	22
EI30	0.52	110	58.4	6440	4690	5200	4690	32.5
EI33A	0.564	119.4	67.3	8040	3850	5100	4000	41
EI40A	0.5	147.4	77.2	11374	4500	5600	4500	60.9
EI50	0.41	231	94.6	21850	6100	7000		115
EI60A	0.4	272	111.8	30454.5	5600			139

注：AL值测试条件：1KHz、250mV、100TS、25℃±3℃。

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T 型
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型号 TYPE	尺寸 Dimensions(mm)			有效参数 Effective parameters				重量 (克) Weight (g)	电感因数 AL(nH/N ²)± 30%	
	A	C	D	C1	Ae	Le	Ve		YP40	YPT 95
T4*2*1	4.00±0.30	2.00±0.20	1.00±0.20	8.71	1.00	9.42	9.42	0.05	320	415
T4*2*2	4.00±0.20	2.00±0.20	2.00±0.20	4.71	2.00	9.42	18.84	0.09	640	820
T6*3*3	6.00±0.30	3.00±0.30	3.00±0.20	2.91	4.50	14.13	63.61	0.32	960	1250
T9*5*3	9.00±0.30	5.00±0.30	3.00±0.30	3.67	6.00	22.3	133	0.60	810	1150
T9*5*4	9.00±0.30	5.00±0.30	4.00±0.30	2.75	8.00	22.3	178	0.82	1080	1410
T10*6*4	10.00±0.30	6.00±0.30	4.00±0.30	3.18	8.0	25.44	203.52	0.96	940	1200
T10*6*5	10.00±0.30	6.00±0.30	5.00±0.30	2.46	10.00	25.44	254	1.27	1170	1530
T12.7*7.90*6.35	12.70±0.40	7.90±0.30	6.35±0.30	2.13	15.17	32.38	491	2.16	1368	1800
T14*9*5	14.00±0.40	9.00±0.30	5.00±0.30	2.89	12.50	36.12	451	2.27	1010	1320
T16*9*5	16.00±0.40	9.0±0.30	5.00±0.30	2.29	17.50	39.26	687	3.12	1320	1720
T16*12*8	16.00±0.30	12.00±0.30	8.00±0.30	2.75	16.00	43.98	704	3.35	1060	1380
T18*10*10	18.00±0.40	10.00±0.30	10.00±0.30	1.10	40.00	43.98	1759	8.77	2740	3520
T20*10*10	20.00±0.40	10.00±0.3	10.00±0.30	0.906	48.05	43.55	2092	11.3	3180	4150
T22*14*6.5	22.00±0.40	14.00±0.40	6.50±0.30	2.17	26.00	56.54	1470	6.82	1355	1760
T22*14*8	22.00±0.40	14.00±0.40	8.00±0.30	1.77	32.00	56.54	1809	8.72	1660	2168
T25*15*8	25.00±0.40	15.00±0.40	8.00±0.30	1.57	40.00	62.83	2513	12.41	1877	2450
T25*15*10	25.00±0.50	15.00±0.40	10.00±0.30	1.26	50.00	62.83	3141	15.16	2346	3060
T28*16*11	28.00±0.50	16.00±0.40	11.00±0.30	1.021	64.304	65.635	4220.61	21.9	2828	3690
T29*19*7.50	29.00±0.50	19.00±0.40	7.50±0.30	1.98	36.9	73.2	2700	13.6	1450	1900
T30*12*10	30.00±0.50	12.00±0.40	10.00±0.30	0.686	83.959	57.525	4833.701	28.5	4210	5492
T31*19*8	31.00±0.60	19.00±0.50	8.00±0.30	1.64	48.00	78.53	3769	18.12	1808	2350
T31*19*13	31.00±0.60	19.00±0.50	13.00±0.40	1.01	78.00	78.53	6126	29.04	2926	3810
T36*23*15	36.00±0.70	23.00±0.50	15.00±0.40	0.95	97.5	92.63	9031	41.37	3090	4030
T48*30*15	48.00±0.80	30.00±0.60	15.00±0.40	0.891	132.542	118.125	15656.5	79.4	3240	4230

附录：术语及定义

Appendix: terms & definitions

1、初始磁导率 Initial permeability, μ_i

初始磁导率是磁性材料的磁导率 (B/H) 在静态磁化曲线始端的极限值, 即 $\mu_i = \frac{1}{\mu_0} \lim_{H \rightarrow 0} \frac{B}{H}$ (H→0)
 式中 μ_0 为真空磁导率 ($4\pi \times 10^{-7} \text{H/m}$), H 为磁场强度 (A/m), B 为磁通密度 (T)

The initial permeability μ_i is the limit value at the initial magnetization curve's origin point and is given by the following formula: $\mu_i = \frac{1}{\mu_0} \lim_{H \rightarrow 0} \frac{B}{H}$ (H→0)

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

H: Magnetic field strength (A/m),

B: Magnetic flux density (T)

2、有效磁导率 Effective permeability, 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。

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

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)

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

Where: L: self-inductance of core with coil (H) N: number of turns

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

l_e : effective magnetic path length (m) A_e : effective cross-sectional area (m^2)

3、饱和磁通密度 Saturation magnetic flux density, B_s (T)

磁化到饱和状态的磁通密度.见图1。

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

4、剩余磁通密度 Residual magnetic flux density, B_r (T)

从饱和状态去除磁场后,剩余的磁通密度.见图1。

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)

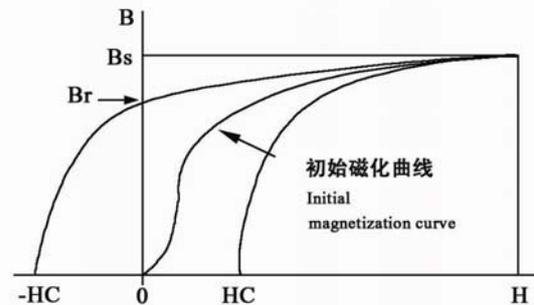


图1 Fig.1

5、矫顽力 Coercivity, H_c (A/m)

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

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、损耗因数 Loss factor, $\tan \delta$

损耗因数是磁滞损耗,涡流损耗和剩余损耗三者之和 $\tan \delta = \tan \delta_h + \tan \delta_e + \tan \delta_r$,

式中 $\tan \delta_h$ 为磁滞损耗因数, $\tan \delta_e$ 为涡流损耗因数, $\tan \delta_r$ 为剩余损耗因数。

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

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

Where: $\tan \delta_h$ is the hysteresis loss factor, $\tan \delta_e$ is the eddy current loss factor,

$\tan \delta_r$ is the residual loss factor

附录：术语及定义

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7、相对损耗因数 Relative loss factor, $\tan \delta / \mu$

相对损耗因数是损耗因数与磁导率之比:

$\tan \delta / \mu_i$ (适用于材料) , $\tan \delta / \mu_e$ (适用于磁路中含有气隙的磁芯)

This is the ratio of loss factor to permeability.

$\tan \delta / \mu_i$ (for materials) , $\tan \delta / \mu_e$ (for cores with gaps in the magnetic circuit)

8、品质因数 Quality factor, Q

品质因数为损耗因数的倒数: $Q = 1 / \tan \delta$

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

9、温度系数 Temperature coefficient, α_μ (1/K)

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

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

式中 μ_1 为温度为 T_1 时的磁导率, μ_2 为温度为 T_2 时的磁导率

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

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

Where μ_1 : permeability at temperature T_1 , μ_2 : permeability at temperature T_2 .

10、相对温度系数 Relative temperature coefficient, $\alpha_{\mu r}$ (1/K)

温度系数和磁导率之比, 即 $\alpha_{\mu r} = \frac{\mu_2 - \mu_1}{\mu_1} \cdot \frac{1}{T_2 - T_1} \quad (T_2 > T_1)$

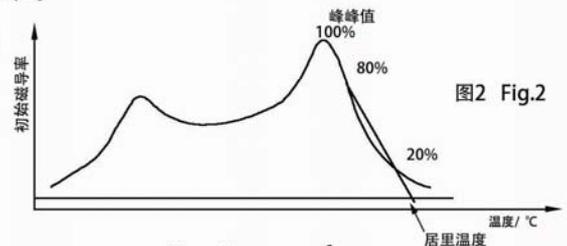
This is the temperature coefficient per unit permeability and is given by the following equation:

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

11、居里温度 Curie temperature, T_c (°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。

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 Disaccommodation factor, 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
式中 μ_1 为退磁后 t_1 分钟的磁导率, μ_2 为退磁后 t_2 分钟的磁导率

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

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

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

Where: μ_1 : permeability t_1 minutes after complete demagnetization.

μ_2 : permeability t_2 minutes after complete demagnetization.

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13、电阻率 Electrical resistivity, ρ (Ω / m)

具有单位截面积和单位长度的磁性材料的电阻。

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

14、密度 Density, d (kg/m^3)

单位体积材料的重量,即 $d = W/V$

式中 W 为磁芯的重量 (kg), V 为磁芯的体积 (m^3)

This is the weight per unit volume of a magnetic core as expressed below: $d = W/V$

Where W : weight of magnetic body (kg), V : volume of magnetic body (m^3)

15、功率损耗 Power loss P_c ($kW/m^3, W/kg$)

磁芯在高磁通密度下的单位体积损耗或单位重量损耗。该磁通密度可表示为 $B_m = \frac{E}{4.44fNA_e}$

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 (m^2)。

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. $B_m = \frac{E}{4.44fNA_e}$

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 (m^2).

16、电感因数 Inductance factor AL (nH / N^2)

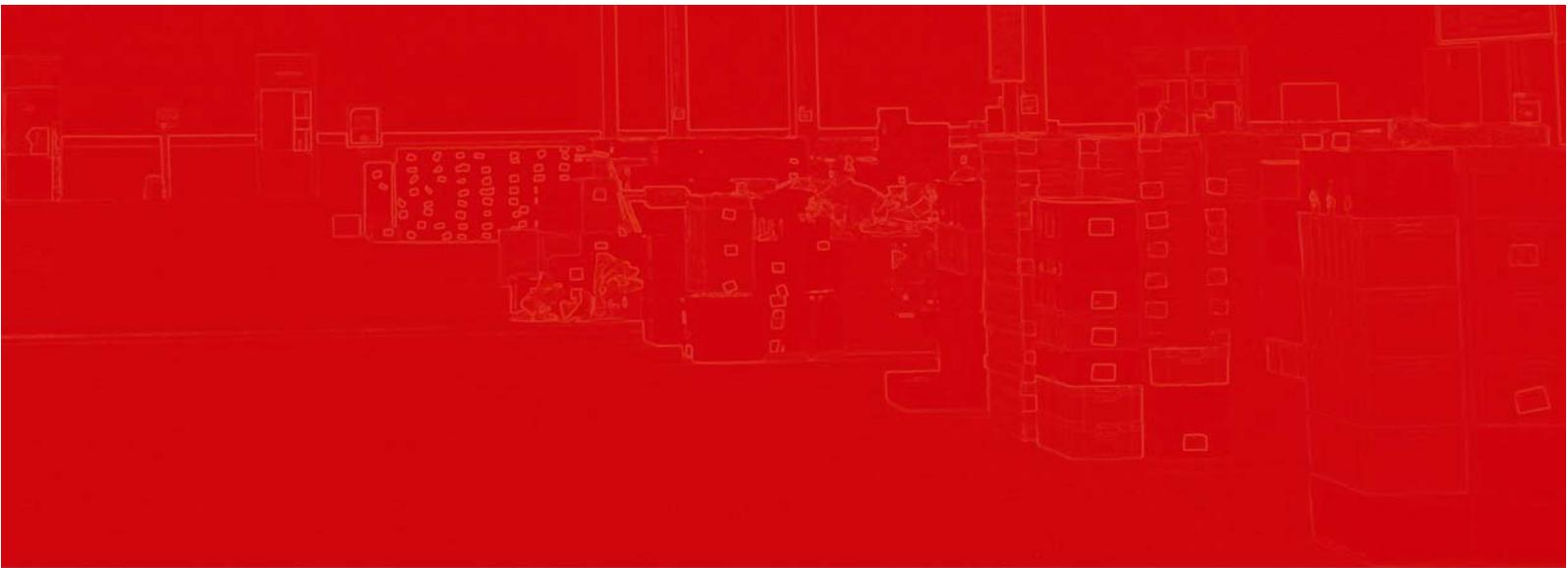
电感因数定义为具有一定形状和尺寸的磁芯上每一匝线圈产生的电感量,即 $AL = L / N^2$

式中 L 为装有磁芯的线圈的电感量 (H), N 为线圈匝数。

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

$AL = L / N^2$

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



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