

# CONTENT - FERRITE CORE

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**$\mu_i$**  Initial permeability  
 The initial permeability  $\mu_i$  is the limit value at the initial magnetization curve's origin point and is given by the following formula:

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

$\mu_0$ : Permeability of vacuum  
 H: Magnetic field strength(A/m)  
 B: Magnetic flux density(T)

**$\mu_e$**  Effective permeability  
 This is usually defined as the permeability of a core forming a closed circuit where leakage flux is negligibly small.

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

**Bs** Saturation magnetic flux density (T)  
 The magnetic flux density at a magnetic field where H is up to an approximate saturation magnetic field value.

**Br** Residual magnetic flux density  
 The value of flux density retained by the core where the magnetic field is reduced from the state of the effective saturation magnetic flux density to zero.

**Hc** Coercivity (A/m)  
 The value of magnetic field strength where by the flux density becomes zero under the intensification, in the opposite direction, of the magnetic field.

**Tan $\delta$ / $\mu$**  Relative loss factor  
 This is the ratio of loss factor to permeability

**Q** Quality factor  
 This is the reciprocal of the loss factor and is given by  

$$Q = 1/\text{Tan}\delta$$

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

**D<sub>F</sub>** Disaccommodation factor  
 This is the factor representing the variation of permeability through time after a complete demagnetization of the core at a constant temperature.

$$D_F = \frac{\mu_{i1} - \mu_{i2}}{\mu_{i1}^2} \times \frac{1}{\text{Log}(t_1/t_2)}$$

**$\rho$**  Electrical resistivity( $\Omega$ /m)  
 This is the electrical resistance per unit length and cross-sectional area of a magnetic core.

**d** This is the weight per unit volume of a magnetic core

$$d = W/V$$

W: weight of magnetic body(kg)  
 V: volume of magnetic body(m<sup>3</sup>)

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

$$A_L = L/N^2$$

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

Effective Core Parameters

$$C_1 = \sum L/A \text{ (cm}^{-1}\text{)}$$

The summation of the magnetic path lengths of each section of a magnetic circuit divided by the corresponding magnetic area of the same section.

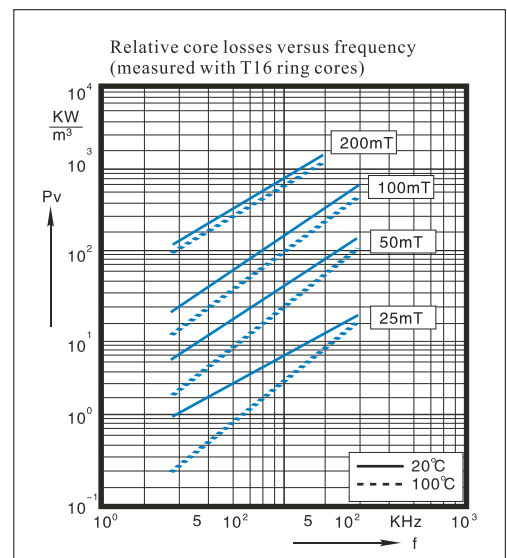
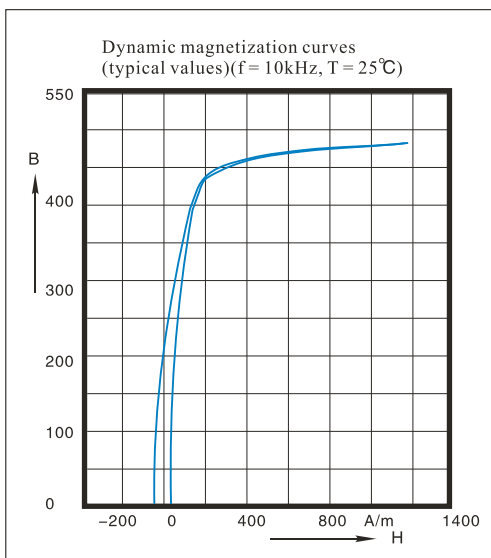
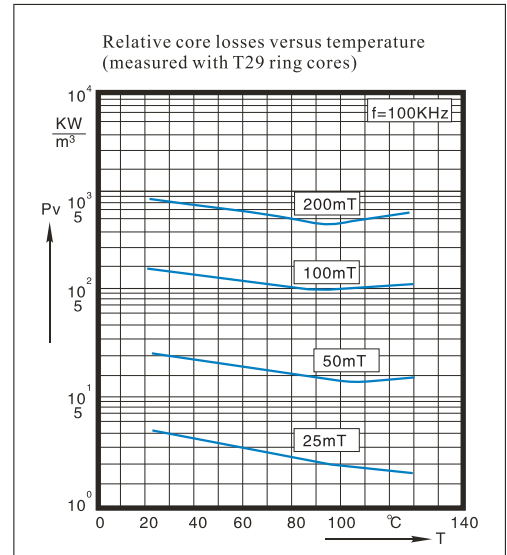
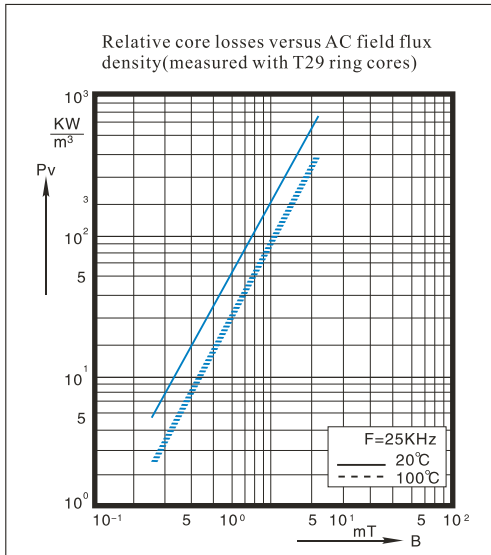
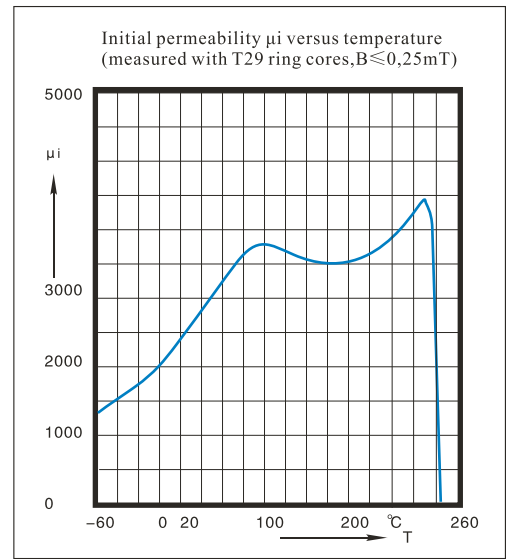
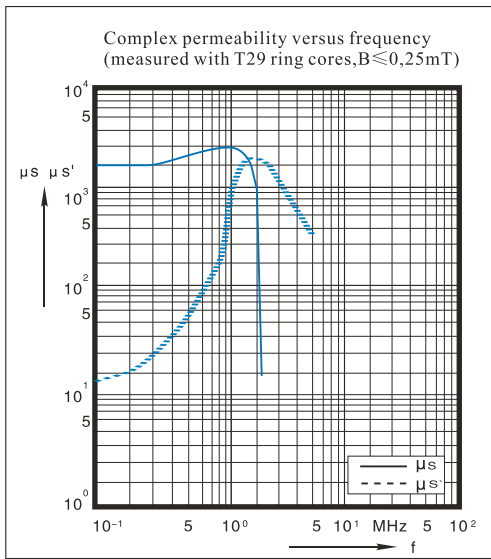
$$C_2 = \sum L/A^2 \text{ (cm}^{-3}\text{)}$$

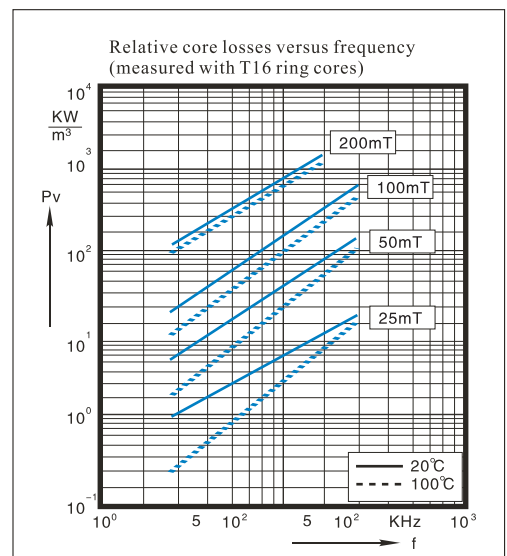
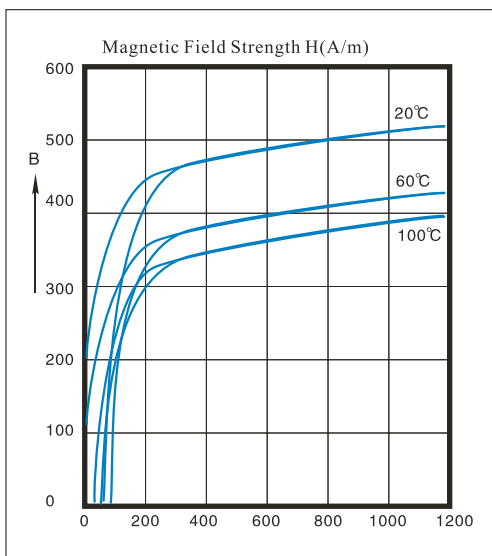
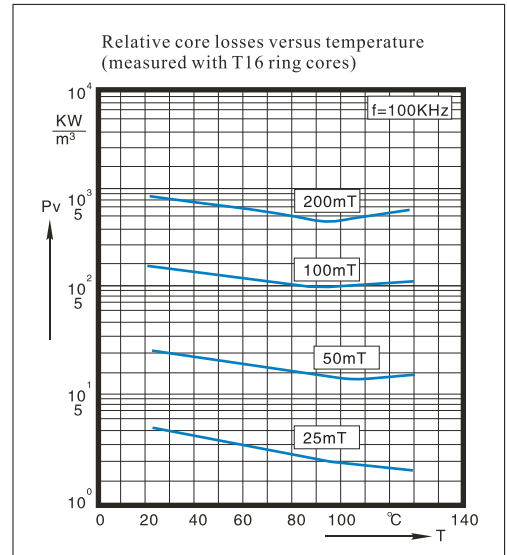
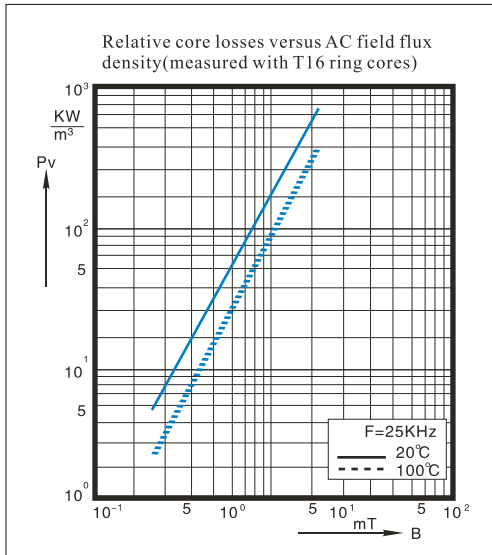
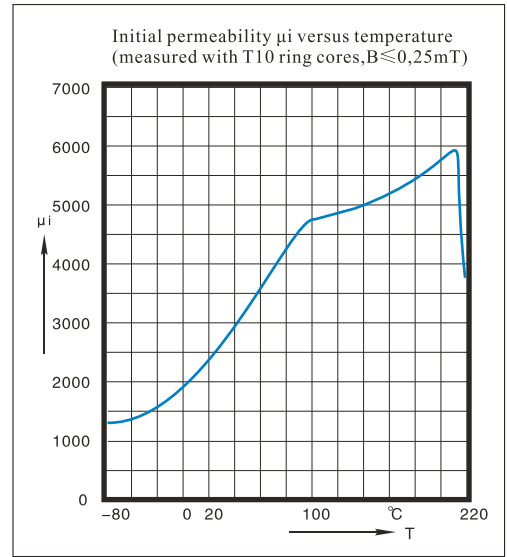
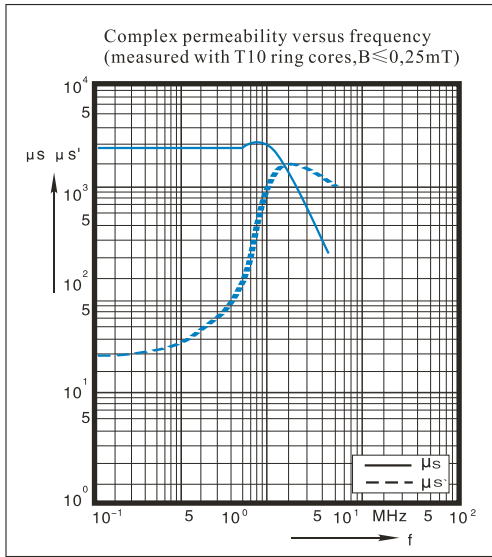
$L_e = C_1^2 / C_2$  (cm) Effective magnetic path length  
 $A_e = C_1 / C_2$  (cm<sup>2</sup>) Effective magnetic path length  
 $A_e = C_1^3 / C_2^2$  (cm<sup>3</sup>) Effective magnetic path length  
 $A_w$  (mm<sup>2</sup>) Winding area of core  
 $A_c$  (mm<sup>2</sup>) cross-sectional centre leg area  
 W(g) Approx. weight of core

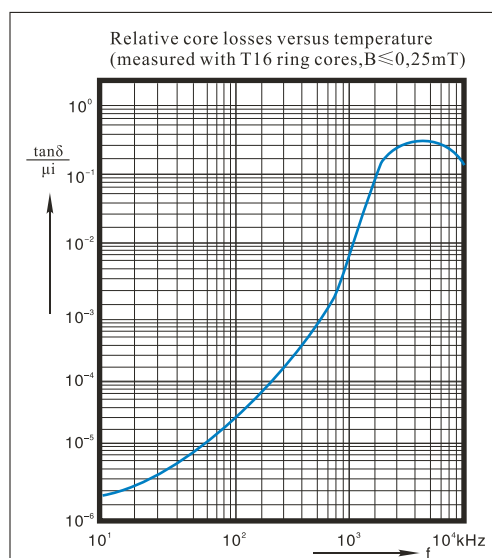
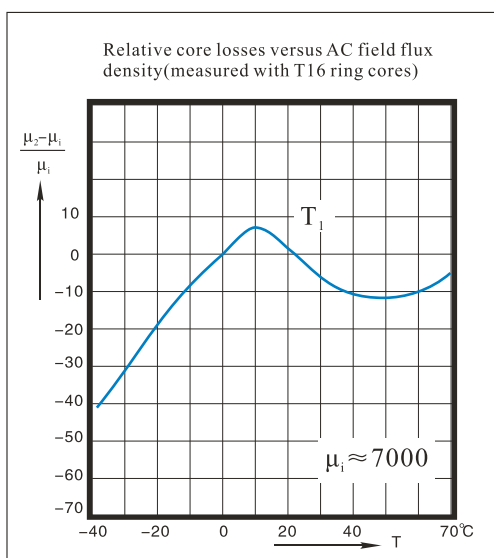
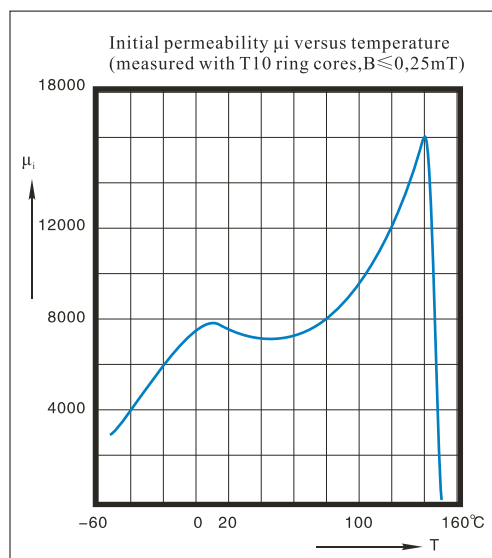
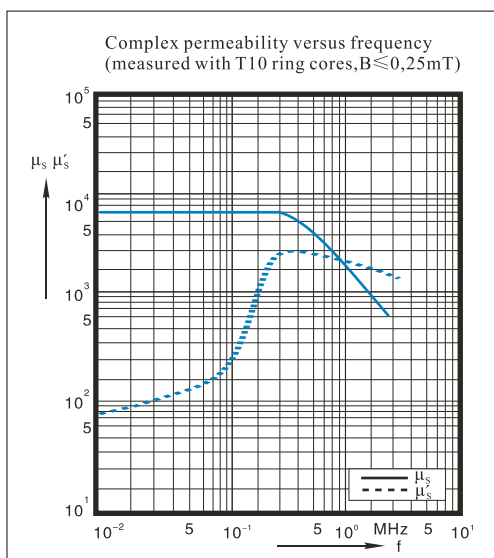
特性 Characteristics			符号 Sybol	单位 Unit	M7K	M10K	M12K	M15K
初始磁导率 Initial permeability			$\mu_i$		7000 $\pm 25\%$	10000 $\pm 25\%$	12000 $\pm 25\%$	15000 $\pm 25\%$
相对损耗因数 Relative loss factor			$\tan\delta/\mu_i$	$\times 10^{-6}$	$\leq 7$ (10KHz)	$\leq 7$ (10KHz)	$\leq 7$ (10KHz)	$\leq 7$ (10KHz)
饱和磁通密度 Saturation flux density		25°C	Bs	mT	400	400	390	380
		100°C						
剩磁 Remanence			Br	mT	90	90	90	90
矫顽力 Corerivity			Hc	A/m	10.4	7.2	4.4	4.4
功率损耗 Powr loss	F=1Hz B=150mT	25°C	Pc	Kw/m <sup>3</sup>				
		60°C						
		80°C						
		100°C						
	F=25KHz B=20mT	25°C	Pc	Kw/m <sup>3</sup>				
		60°C						
		80°C						
		100°C						
	F=100KHz B=200mT	25°C	Pc	Kw/m <sup>3</sup>				
		60°C						
		80°C						
		100°C						
居里温度 Curie temperature			Tc	°C	>140	>120	>115	>110
电阻率 Resistivity			$\rho$	$\Omega \cdot m$	0.3	0.15	0.15	0.15
密度 Density			d	$Kg/m^3$ $\times 10^3$	4.9	4.9	4.95	4.95
相对温度系数 Relative temperature coefficient			$\alpha_{\mu r}$	$\times 10^{-6} \cdot 1/K$	0-1.5 (-30-20°C) 0-2 (30-55°C)	-0.5-1.5 (-30-20°C) -0.5-1.5 (20-70°C)	-0.5-1.5 (-30-20°C) -0.5-1.5 (20-70°C)	-0.5-1.5 (-30-20°C) -0.5-1.5 (20-70°C)
减落因数 Disaccommodation factor			D <sub>F</sub>	$\times 10^{-6}$	$\leq 3$	$\leq 2$	$\leq 2$	$\leq 2$

特性 Characteristics			符号 Sybol	单位 Unit	M3K	M2	M3	M5K
初始磁导率 Initial permeability			$\mu_i$		3000 $\pm 25\%$	2500 $\pm 25\%$	2300 $\pm 25\%$	5000 $\pm 25\%$
相对损耗因数 Relative loss factor			$\tan\delta/\mu_i$	$\times 10^{-6}$				
饱和磁通密度 Saturation flux density		25°C	Bs	mT	480	510.0	510	420.0
		100°C				390.0	390	
剩磁 Remanence			Br	mT	120	117.0	95	150.0
矫顽力 Corerivity			Hc	A/m	16	12.0	14.3	8.0
功率损耗 Powr loss	F=1Hz B=150mT	25°C	Pc	Kw/m <sup>3</sup>	$\leq 12^*$			
		60°C			$\leq 11^*$			
		80°C						
		100°C			$\leq 12^*$			
	F=25KHz B=20mT	25°C	Pc	Kw/m <sup>3</sup>				
		60°C						
		80°C						
		100°C						
	F=100KHz B=200mT	25°C	Pc	Kw/m <sup>3</sup>				
		60°C						
		80°C						
		100°C						
居里温度 Curie temperature			Tc	°C	>210	>230	>215	>140
电阻率 Resistivity			$\rho$	$\Omega \cdot m$		10	6.5	0.3
密度 Density			d	$Kg/m^3$ $\times 10^3$		4.8	4.8	4.9
相对温度系数 Relative temperature coefficient			$\alpha_{\mu r}$	$\times 10^{-6} \cdot 1/K$				0-1.5 (20-60°C)
减落因数 Disaccommodation factor			D <sub>F</sub>	$\times 10^{-6}$				$\leq 3$

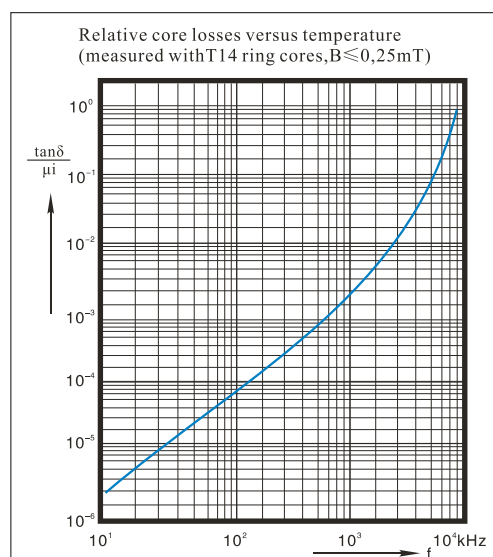
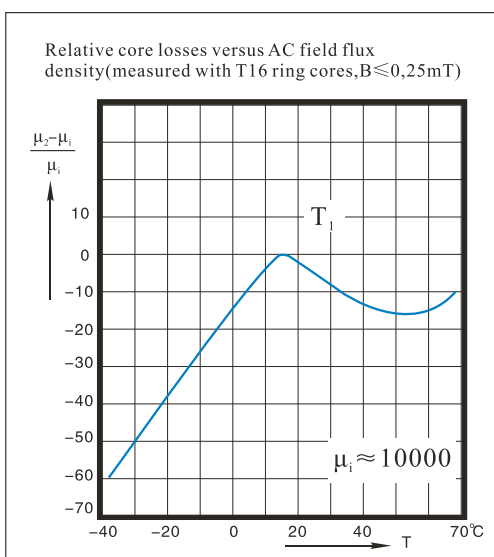
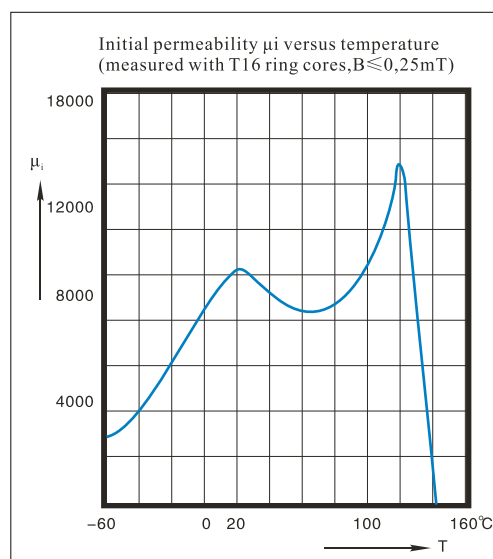
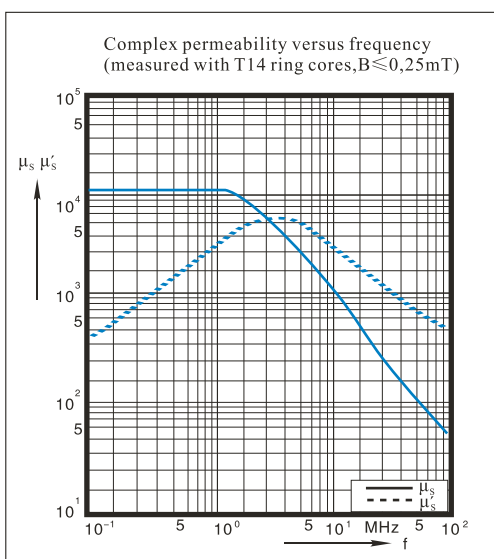
MEISONGBEI	MTL	M2	M3	M3K	M5K	M7K	M10K	M12K	M15K
	μi	2500	2300	3000	5500	7000	10000	12000	15000
TDK		PC30	PC40	H7C2	H7A	H1D	H5C2	H5D	H5C3
EPCOS		N67 N87	N67 N87	N41 N61	T35	T37 T44	T38	T42	T46
FERROXCUBE		N41 N27 N26	3F3 3C94	3E1 3E28	3E4 3C11	3E27 3E26	3E5 3E55	3E6	3E7
FDK		6H10	6H20			2H07	2H10	2H12	2H15
TOKIN		2500B	2500B2 BH2	NC-1L	NC-1J	NC-7	NC-10H	NC-12H	NC-15H
SAMWHA		PL-5	PL-7		SM-50	SM-70S	M-100		SM-150
ISU		PM-1	PM-7		HM2A	HM3A	HM5A		HM7A
TDG		TP1	TP4		TL5	TL7	TL10	TL13	TL15
DMEGC		DMR30	DMR40	R4K	R5K	R7K	R10K	R12K	R15K
TOMITA		2E6	2G8	2F6	2F1 2G4	2E1 2G1	2E2	2H2	2H1
KAWATETSU		MB-2	MB-3		MA-040	MA-070	MA-100	MA-120	MA-150
NIPPON		SB-5S	SB-7C	SB-5S	GP-7	GP-9	GP-11	MT10T	
LCC		F1	F2		A6/T6	A2	A3		
ISKRA		25G 45G	35G		19G	22G	12G	32G	52G
NICERA		NC-1H NC-1M	NC-2H	NC-1L	NC-1J	NC-7	NC-10H	NC-12H	NC-15H
MAGNETICS		P	R	F	J		W		H

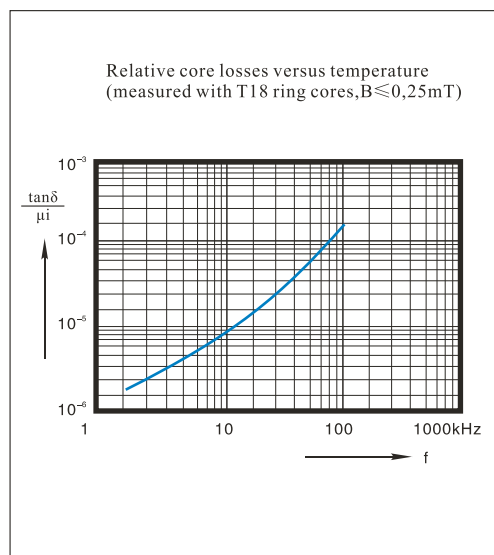
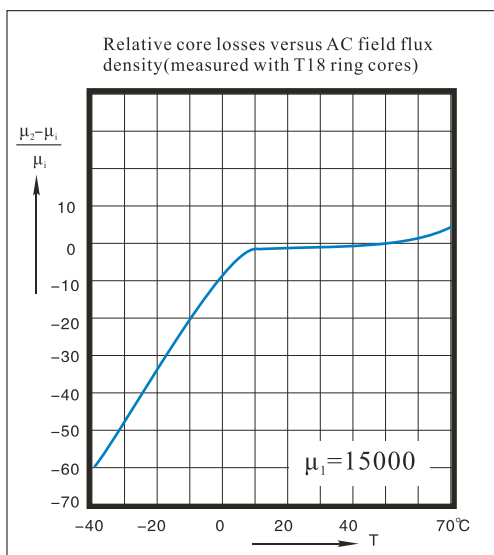
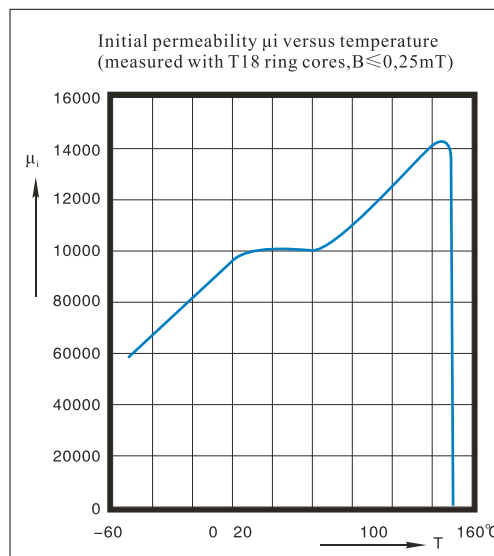
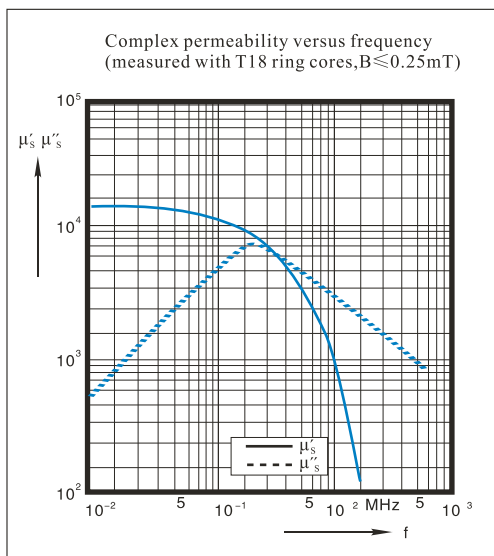








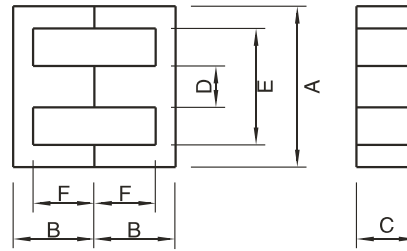




# EE & EF CORES

**Meisongbei**

Material: M5K, M7K, M10K

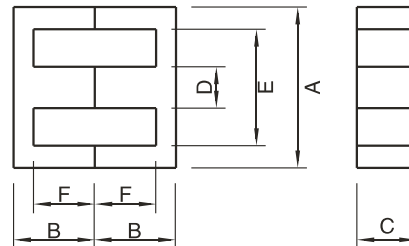


Type	Dimension(mm)						Effective Parameter				AL(nH/N <sup>2</sup> )			Weight (g)
	A	B	C	D	E min	F	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	MSK (±25%)	M7K (±25%)	M10K (±25%)	
EE5	5.25±0.1	2.65±0.1	1.95±0.1	1.35±0.1	3.8	2.0±0.1	4.85	12.63	2.6	32.88			640	0.2
EE8.3	8.3±0.3	4.0±0.1	3.9±0.2	2.0±0.3	6.1	3.0±0.2	2.75	19.2	7	134	1200	1300	1500	0.7
EE10	10.2±0.3	5.5±0.1	4.75±0.15	2.45±0.15	7.9	4.2±0.15	2.16	26.1	12.1	315	1700	2000	2300	1.5
EE13	13.0±0.6	6.0±0.3	6.0±0.3	2.9±0.3	10.1	4.6±0.3	1.77	30.2	17.1	517	2200	2700	3100	2.7
EE16	16.0±0.3	7.4±0.3	5.0±0.3	4.0±0.2	11.8	5.2±0.3	1.8	34.8	19	670	2400	2800	3200	4.4
EF16	16.0±0.5	8.1±0.3	4.5±0.2	4.5±0.2	11.4	5.9±0.2	1.87	37.6	20.1	754	2300	2800	3200	4.5
EEL16	16.0±0.5	12.2±0.3	5.0±0.3	4.0±0.2	11.8	10.0±0.5	2.9	55.1	19	1048	1700	2100	2500	5.2
EE19	19.1±0.3	8.1±0.3	5.2±0.3	4.7±0.4	14.4	5.5±0.3	1.73	39.8	23	910	2600	3100	3600	4.8
EEL19	19.1±0.3	13.3±0.3	5.2±0.3	4.7±0.4	13.8	11.0±0.5	2.78	62.2	22.4	1393	1800	2300	2800	7.0
EEL20	20.1±0.3	13.6±0.2	5.0±0.3	5.0±0.3	14.9	11.4±0.3	2.82	62.5	23	1452	2200	2800	3500	8.0
EE20	20.0±0.4	10.6±0.3	4.8±0.3	4.8±0.3	12.3	6.6±0.3	1.71	47.1	27.6	1300	2700	3400	4000	6.9
EF20	20.0±0.4	9.9±0.2	5.9±0.5	5.9±0.4	14.1	7.2±0.2	1.38	43	31	1340	3300	4000	4700	7.5
EE22	22.0±0.4	9.1±0.5	6.0±0.5	6.0±0.5	16	5.3±0.4	1.16	42.1	36.2	1525	3900	4700	5600	7.6
EEL22	22.0±0.5	14.4±0.5	6.0±0.5	6.0±0.5	15.6	10.6±0.4	1.82	636	35	2220	2800	3500	4200	11.1
EE25	25.4±0.5	10.2±0.3	6.35±0.2	6.35±0.3	18.5	7.0±0.3	1.16	50	43	2193	4100	5100	6000	10.7
EF25	25.0±0.5	12.5±0.3	7.0±0.4	6.8±0.3	18.6	9.1±0.2	1.22	57.8	47.2	2700	4100	5100	6100	13
EEL25	25.4±0.5	16.3±0.5	6.6±0.2	6.6±0.2	18.9	13.0±0.5	1.9	76.7	40.4	3097	2800	3600	430	15.5

# EE & EF CORES

**Meisongbei**

Material: M3K, M2, M3



Type	Dimension(mm)						Effective Parameter				AL(nH/N <sup>2</sup> )			Weight (g)
	A	B	C	D	E min	F	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3K (±25%)	M2 (±25%)	M3 (±25%)	
EE5	5.25±0.1	2.65±0.1	1.95±0.1	1.35±0.1	3.8	2.0±0.1	4.85	12.63	2.6	32.88			250	0.2
EE8.3	8.3±0.3	4.0±0.1	3.9±0.2	2.0±0.3	6.1	3.0±0.2	2.75	19.2	7	134	630	590	550	0.7
EE10A	10.2±0.3	5.5±0.1	4.75±0.15	2.45±0.15	7.9	4.2±0.15	2.16	26.1	12.1	315	940	880	800	1.5
EE10B	10.5±0.5	5.5±0.15	9.8±0.3	2.4±0.3	7.6	4.3	1.1	26.4	23.1	611.6	2500	2100	1900	3.2
EE13A	13.0±0.6	6.3±0.3	6.0±0.3	2.7±0.3	10.0	4.7±0.3	1.77	30.2	17.1	517	1200	1100	1000	2.7
EE13B	13.0±0.6	6.3±0.3	9.8±0.3	2.7±0.3	9.8	4.7±0.3	1.2	29.8	35.6	1062	2600	2300	2300	3.5
EE13C	13.3±0.4	6.0±0.3	6.1±0.3	2.7±0.2	10.4	4.8±0.2	2.28	30.2	17.1	517	1200	1100	1000	2.7
EE16	16.0±0.5	7.3±0.3	5.0±0.3	4.0±0.3	11.8	5.2±0.3	1.8	34.8	19	670	1300	1200	1100	3.3
EE16W	16.0±0.5	7.3±0.3	6.7±0.3	4.0±0.3	11.8	5.2±0.3	1.44	37.9	26.2	993	2217	1700	1330	4.6
EF16	16.2±0.6	8.1±0.3	4.5±0.3	4.5±0.3	11.4	5.9±0.3	1.87	37.6	20.1	754	1300	1200	1000	3.9
FEE16	16.2±0.5	5.95±0.3	7.0±0.3	4.5±0.3	11.4	3.65±0.3	1.87	37.6	20.1	754	1300	1200	1000	5.0
EEL16	16.0±0.3	12.2±0.5	5.0±0.4	4.0±0.2	11.8	10.0±0.5	2.9	55.1	19	1048	950	860	770	5.2
EE19A	19.2±0.5	8.1±0.3	5.2±0.4	4.7±0.4	14.4	5.5±0.3	1.73	39.8	23	910	1400	1300	1200	4.8
EE19B	19.2±0.5	8.1±0.3	9.5±0.3	4.7±0.3	14.4	5.5±0.3	0.9	39.9	44.5	1777.5	2000	1800	1700	9.2
EEL19A	19.1±0.3	13.3±0.5	5.2±0.4	4.7±0.4	13.8	11.0±0.5	2.78	62.2	22.4	1393	1030	930	830	7.0
EEL19B	19.2±0.5	13.7±0.3	4.9±0.3	4.7±0.3	14	11.5±0.3	2.65	62.1	23.4	1450	1000	840	840	7.5
EE20	20.0±0.6	6.8±0.3	6.8±0.3	4.8±0.3	16	6.6±0.3	1.71	47.1	27.6	1300	1500	1400	1250	6.9
EF20	20.0±0.5	10.1±0.3	5.7±0.3	5.7±0.3	14.1	7.6±0.3	1.38	43	31	130	1800	1700	1500	7.5
EE22	22.4±0.5	9.5±0.4	5.9±0.5	5.9±0.5	16	5.6±0.4	1.16	42.1	36.2	1525	2160	1980	1790	7.0
EEL22	22.0±0.4	14.9±0.5	6.0±0.5	6.0±0.5	15.6	11.1±0.4	1.82	63.6	35	2220	1600	1400	1300	11.1

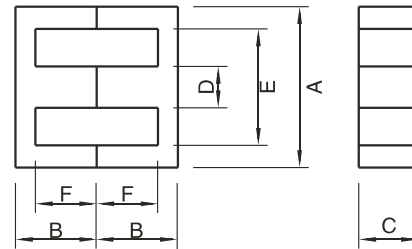
SHANGHAI MEISONGBEI ELECTRONICS CO.,LTD

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# EE & EF CORES

**Meisongbei**

Material: M3K, M2, M3



Type	Dimension(mm)						Effective Parameter				AL(nH/N2)			Weight (g)
	A	B	C	D	E min	F	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3K (±25%)	M2 (±25%)	M3 (±25%)	
EE25A	25.4±0.5	10.0±0.3	6.4±0.3	6.0±0.3	18.5	7.0±0.3	1.16	50	43	2193	2300	2100	1900	10.7
EE25B	25.4±0.5	10.0±0.3	6.8±0.2	6.0±0.3	18.5	7.0±0.3	1.117	50.7	42.4	2149	2300	2100	1900	14
EF25	25.0±0.6	12.5±0.4	7.0±0.4	6.8±0.3	18.6	9.1±.3	1.22	57.8	47.2	2700	2300	2100	1900	13
EE125	25.4±0.5	16.3±0.4	6.3±0.3	6.3±0.3	18.6	13.3±0.4	1.9	76.7	40.4	3097	1600	1400	1300	15.5
EE26.5	26.5±0.7	10.8±0.3	11.0±0.3	7.2±0.3	19	6.8±0.3	1.36	77.6	57.1	4430	4000	3900	3600	22
EE28	28.5±0.6	10.0±0.3	10.4±0.3	7.2±0.3	19	6.8±0.3	0.57	48.1	99.8	4801	4200	4000	4000	23.5
EE128	28.0±0.7	17.1±0.3	10.4±0.3	7.1±0.3	18.9	12.8±0.4	0.9	74.4	87.5	6508.4	3100	2600	2400	35
EE30/7	30.1±0.7	15.0±0.4	7.3±0.5	7.2±0.5	19.5	9.9±0.25	1.12	66.9	59.7	4000			2100	21
EE30/11	30.0±0.5	15.0±0.4	10.7±0.3	7.2±0.5	19.5	9.9±0.25	0.86	57.8	110	6358			2800	32
EE40	40.0±0.7	17.3±0.3	11.6±0.3	11.6±0.3	26.8	10.3±0.3	0.53	77.28	145.74	11262.77			4000	56
EE42	42.0±0.7	21.2±0.4	15.0±0.4	12.3±0.4	29.5	9.9±0.25	0.6	97.8	180	17600	5300	4800	4200	88
EE55A	55.0±0.8	27.5±0.3	17.0±0.7	17.0±0.6	38	18.8±0.3	0.428	80	186	14880	4300	4000	3700	178
EE55B	55.0±2.0	27.8±0.6	20.9±0.5	17.0±0.5	37.5	18.7±0.7	0.35	123	354	43542	8000	6700	6500	210
EE65A	65.2±1.3	32.5±.3	19.6±0.3	19.6±0.3	44.2	22.5±0.3	0.373	146.8	393.1	57728.4			5800	280
EE65B	65.2±1.3	32.5±0.3	19.6±0.3	27.0±0.3	44.2	22.5±0.3	0.274	147	535	78700			7800	380
EE70	70.5±1.0	35.5±0.5	24.5±0.6	16.7±0.5	48	24.6±0.6	0.344	159	461	73200			6500	370
EE70B	70.7±1.5	32.0±0.4	30.5±0.6	21.5±0.5	48	22.0±0.6	0.226	150	665	99800			9000	500
EE80	80.0±0.8	37.95±0.4	20.4±0.4	20.0±0.4	60	28.0±0.3	0.446	183.5	399	73150			6100	368
EE85	85.0±1.2	43.5±0.5	26.0±0.6	26.4±0.6	56	30.5±0.5	0.49	196.3	433	79150			7500	700
EE100	100.0±2.0	60.0±0.6	28.0±1.0	28.0±1.0	71.5	46.5±1.2	0.349	271	775	209768			7800	1028
EE110	110±2.0	55.0±0.6	36.0±1.0	36.0±1.0	75	37.0±1.2	0.212	274.5	1296	355750			13300	1796.5
EE130	130.0±3.0	63.0±1.0	20.0±1.0	40.0±2.0	89	43.0±0.8	0.352	284	1600	454000			12000	2190
EE140	140.0±3.0	53.0±1.0	35.0±1.0	35.0±1.0	100	35.0±0.6	0.216	259.3	1200.2	311212			7000	1550
EE160	160.0±3.0	83.0±1.0	20.0±1.5	40.0±2.0	120	64.0±1.0	0.498	398	1600	637000			9000	2500
EE185	185.0±3.0	77.0±1.5	27.5±1.0	53.0±1.0	128	50.0±1.5	0.24	370	1488	551000			12000	5700
EE240	240.0±3.0	117.0±1.0	40.0±1.5	56.0±3.0	176	86.5±1.0	0.235	556.4	2359	1312421			12500	5900

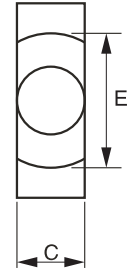
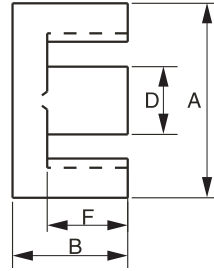
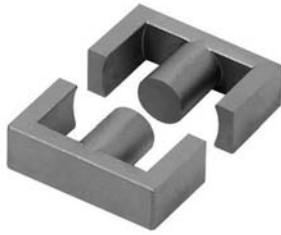
SHANGHAI MEISONGBEI ELECTRONICS CO.,LTD

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# EC CORES

**Meisongbei**

Material: M3K, M2, M3

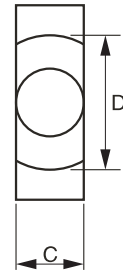
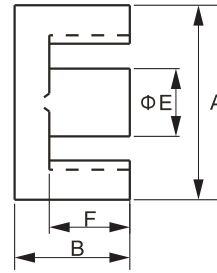
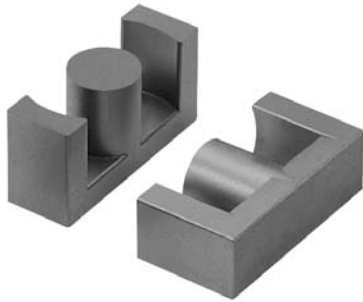


Type	Dimension(mm)						Effective Parameter				AL(nH/N <sup>2</sup> )			Weight (g)
	A	B	C	D	E min	F	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3K (±25%)	M2 (±25%)	M3 (±25%)	
EC28A	28.5±0.6	14.0±0.5	11.2±0.3	9.8±0.3	21.0	9.7±0.3	0.978	80.2	82	6550.0		2800	2500	32.0
EC28B	28.5±0.6	8.5±0.3	11.2±0.3	9.8±0.3	21.0	4.9±0.3	0.928	75.5	81.4	6143		2900	2600	18.3
EC34	34.2±0.6	17.3±0.5	10.8±0.4	10.8±0.3	25.6	12.1±0.3	0.810	78.6	97.1	7632	2800	2600	2500	40.0
EC35A	35.3±0.7	21.5±0.4	11.3±0.4	11.3±0.3	26.4	15.4±0.3	0.839	91.6	109.3	10110		3400	3000	48.0
EC35B	35.0±0.7	21.0±0.5	11.3±0.4	11.3±0.3	25.6	15.6±0.5	0.840	90.0	107.0	9630	2800	2800	2570	54.0
ECL36	36.0±0.6	21.8±0.3	11.3±0.2	11.3±0.15	27.0	16.0±0.3	0.860	91.6	107.0	9780		3300	2900	55.0
EC39	39.1±0.7	20.4±0.5	12.5±0.3	12.5±0.3	29.0	15.0±0.5	0.737	92.1	125.0	11510	3200	3000	2800	60.0
EC40	40.0±1.0	22.0±0.4	13.3±0.3	13.3±0.15	28.8	15.4±0.3	0.652	100.4	154.0	15460		4400	3900	82.0
EC42A	42.0±0.6	22.4±0.3	15.5±0.25	15.5±0.25	28.9	15.4±0.3	0.509	98.8	194.0	19160		5600	5000	102.0
EC42B	42.0±0.5	21.5±0.3	15.2±0.2	15.2±0.2	30.6	15.5±0.3	0.531	97.7	184	17940		5400	4700	100.0
EC42C	42.0±0.5	22.4±0.5	15.5±0.3	15.5±0.3	29.4	15.4±0.5	0.500	95.5	203.7	19455.5	4200	4000	3800	90.0
EC43	43.0±0.8	22.4±0.4	15.0±0.4	15.0±0.3	31.5	15.4±0.3	0.563	98.8	176	17340		5100	4500	96.0
EC49A	49.0±1.0	26.6±0.5	17.0±0.2	17.0±0.2	36.4	18.8±0.4	0.485	117.8	243	28630		61000	5300	148.2
EC49B	49.0±0.7	24.7±0.25	16.3±0.25	16.3±0.25	36.1	18.2±0.25	0.485	117.8	243	28630		6100	5300	122.0
EC50	50.5±0.5	27.0±0.4	18.7±0.3	18.7±0.3	38.3	18.7±0.4	0.486	130.6	269	35107		6200	5400	166.0
EC52	52.2±1.3	24.2±0.15	13.4±0.35	13.4±0.35	33.0±0.9	5.9±0.4	0.580	180	105	18800		5400	4700	111.0
EC53	53.5±1.0	17.8±0.2	17.9±0.4	17.9±0.4	40.7	10.3±0.3	0.362	89.1	246	21920		7800	6900	112.0

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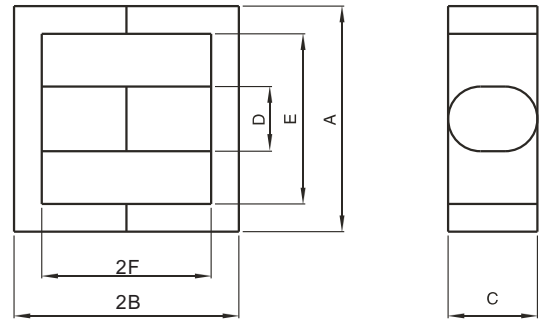
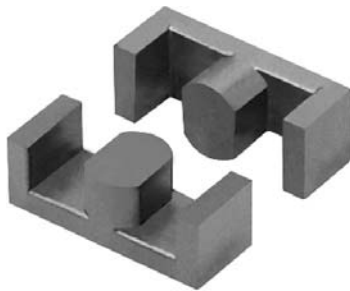
Material: M2, M3



Type	Dimension(mm)						Weight(g)
	A	B	C	D	E min	F	
ETD19	19.6±.4	13.65±0.25	7.40±0.25	14.4	7.40±.2	9.40±0.15	14
ETD24	24.70±.6	14.95±0.25	8.50±0.3	18.8	8.50±0.3	10.1±0.1	20
ETD29	30.6-1.6	15.8±0.2	9.8-0.6	22	9.8-0.6	11.0±0.3	28
ETD34	33.4+1.6	17.5-0.4	11.1-0.6	25.6	11.1-0.6	12.1±0.3	40
ETD39	38.2+1.8	19.8±0.2	12.8-0.6	29.3	12.8-0.6	14.2±0.8	60
ETD44	43.0+2.0	22.5-0.4	15.2-0.8	32.5	15.2-0.8	16.5±0.4	94
ETD49	48.6±1.1	24.7±0.2	16.7-0.6	36.1	16.7-0.6	17.7±0.8	124
ETD54	54.5±1.3	27.6±0.2	18.9±0.4	40.1	18.9±0.4	20.2±0.4	180
ETD59	59.8±1.3	31.0±0.5	21.65±0.5	43.6	21.65±0.5	22.5±0.5	260

Type	Effective Parameter				AL(nH/N <sup>2</sup> )	
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M2 (±25%)	M3 (±25%)
ETD19	1.320	54.6	41.3	2260		1720
ETD24	1.140	61.9	56.3	3480		2125
ETD29	0.985	70.6	73.6	5193	2670	
ETD34	0.810	78.6	97.1	7640	2850	
ETD39	0.737	92.0	125.0	11500	3240	
ETD44	0.588	103.0	175.0	18000	4110	
ETD49	0.534	114.0	213.0	24200	4570	
ETD54	0.454	127.0	280.0	35500		4400
ETD59	0.378	139.0	368.0	51200		5400

Material: M2, M3

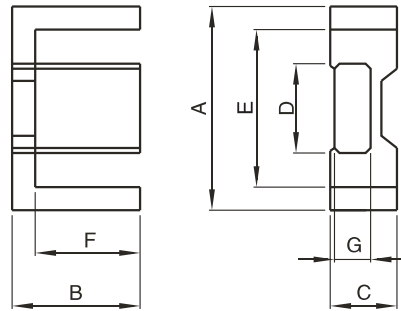
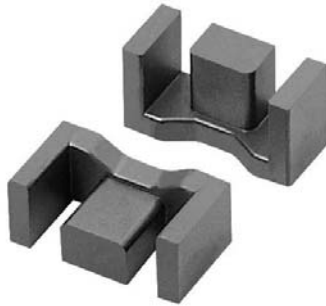


Type	Dimension(mm)					
	A	B	C	D	E min	F
ED28	28.0±0.5	10.4±0.3	12.1±0.5	8.5±0.2	20.5	6.7±0.3
ED29	29.8±0.8	14.8±0.2	11.6±0.2	8.4±0.2	21.8	11.2±0.2
ED33	33.3±0.5	21.4±0.4	11.7±0.2	8.4±0.2	25.6	14.4±0.2

Type	Effective Parameter				AL(nH/N <sup>2</sup> )		Weight (g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M2 (±25%)	M3 (±25%)	
ED28	0.59	50.5	86.1	4350	720	680	1.7
ED29	0.84	69.5	83.1	5770.0	1350	1250	3.2
ED33	0.69	57.9	84.4	4887.0	1720	1600	5.5



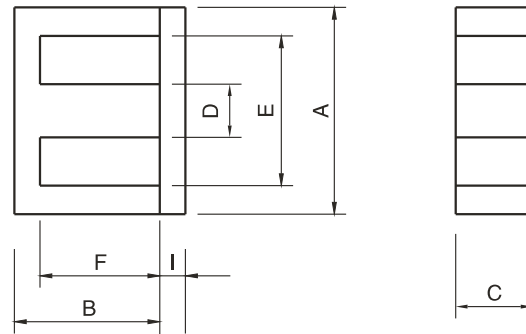
Material: M2, M3



Type	Dimension(mm)						
	A	B	C	D	E	F	G
EFD15	15.0±0.4	7.5±0.15	4.65±0.15	5.3±0.15	11.0±0.35	5.5±0.25	2.4±0.1
EFD17	16.55±0.25	19.4±0.25	4.45±0.10	5.80±0.20	11.4min	16.45(+0.2/-0.15)	28.0±0.1
EFD20	20.0±0.55	10.0±0.25	6.65(+0.2/-0.15)	8.9±0.2	15.4±0.5	7.7±0.25	3.6±0.2
EFD25	25.0±0.65	12.5±0.25	9.1±0.2	11.4±0.2	18.7±0.6	9.3±0.25	5.2±0.25
EFD30	30.0±0.8	15.0±.25	9.1±0.3	14.6±0.3	22.4±0.75	11.2±0.3	4.9±0.15

Type	Effective Parameter				AL(nH/N <sup>2</sup> )		Weight (g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M2 (±25%)	M3 (±25%)	
EFD15	2.27	34	15	510		780	2.74
EFD17	4.18	78.03	18.67	1456.82		678	8
EFD20	1.59	45.49	28.5	1296.4		1200	6.88
EFD25	1.03	55.81	53.92	3009.2	2200	2000	16.32
EFD30	0.985	68.0	69.0	4700	2050	2050	24

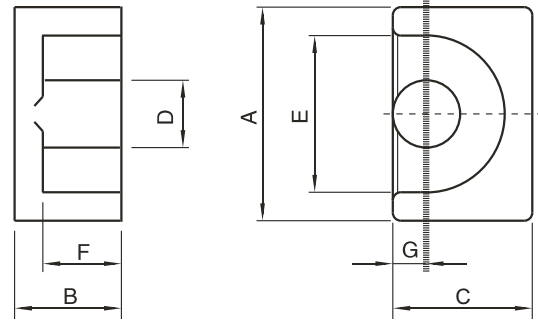
Material: M3K, M2, M3, M5K



Type	Dimension(mm)							Weight (g)
	A	B	C	D	E min	F	I	
EI16	16.0±0.3	12.3±0.3	28.0(+0.7/-0.3)	4.0(+0.0/-0.3)	11.7	10.2±.3	2.1±0.2	3.3
EI19	19.2±0.5	13.7±0.3	4.9±0.3	4.7±0.3	14	11.5±0.3	2.4±0.2	4.7
EI22	22.0±0.5	14.9(+0.5/-0.3)	28.0(+0.7/-0.3)	6.0(+0.0/-0.5)	15.8	11.0±0.3	3.6±0.3	7.7
EI25	25.4±0.5	16.3±0.4	6.3±0.3	6.3±0.3	18.6	13.3±0.4	3.0±0.3	10.0
EI28	28.0(+0.7/-0.3)	17.1±0.3	10.4±0.3	7.1±0.3	18.9	12.8±0.4	3.5±0.3	24.0
EI33	33.0(+0.8/-0.5)	24.3±0.4	28.0(+0.7/-0.3)	9.5±0.5	23.2	19.3(+0.5/-0.3)	4.75±0.3	41.5
EI35	35.0±0.6	24.0(+0.5/-0.0)	11.7±0.3	10.0±0.3	24.6	18.0(+0.0/-0.5)	5.0±0.3	41.5
EI40	40.0±0.7	27.0(+0.5/-0.3)	11.6±0.4	11.6±0.4	27.2	21.25±0.3	6.5±0.3	61.0
EI50	50.0±0.7	33.0(+0.7/-0.0)	28.0(+0.7/-0.3)	15.0(+0.0/-0.8)	34	24.5(+0.7/-0.0)	9.0±0.3	115.0
EI60	60.0(+1.0/-0.5)	35.9(+0.8/-0.2)	28.0(+0.7/-0.3)	15.8(+0.0/-0.8)	43.9	27.5(+0.7/-0.0)	8.5±0.5	129.3

Type	Effective Parameter				AL(nH/N <sup>2</sup> )			
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3K (±25%)	M2 (±25%)	M3 (±25%)	M5K (±25%)
EI16	1.8	34.8	19.6	679.6	1290	1190.0	1080	2400.0
EI19	1.5	39.1	263	1029		1200.0	1200	
EI22	1.16	42.1	36.2	1525	2160	1980.0	1790	3900.0
EI25	1.07	49.1	46	2270		2300.0	2000	
EI28	0.57	48.6	85.1	4139	4600	4200.0	3800	
EI33	0.57	66.9	118.1	7909	5100	4600	4100	
EI35	0.56	67.3	120	8090	5200	4700	4200	
EI40	0.55	76.8	140	10750	5500	5000.0	4400	
EI50	0.42	94.2	226	21500	7500	6700	5900	
EI60	0.46	110.1	242	26650	7200	6400	5600	

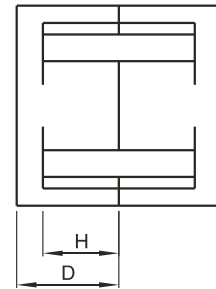
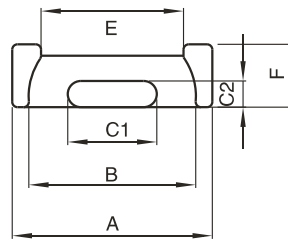
Material: M3K, M2, M3, M5K



Type	Dimension(mm)							Weight (g)
	A	B	C	D	E	F	G	
EP7	9.2±0.2	3.7±0.05	6.35±0.15	3.3±0.1	7.4±0.2	2.6±0.1		1.4
EP10	11.5±0.3	5.1±0.1	7.9(+0.0/-0.4)	3.3±0.2	9.6(+0.0/-0.4)	3.7±0.1		2.8
EP13	12.5±0.3	6.5±0.3	8.8±0.2	4.4±0.2	10.0±0.3	4.5(+0.4/-0.0)		4.9
EP17	18.1±0.4	8.4±0.4	11.3(+0.0/-0.6)	5.9(+0.0/-0.4)	12.0±0.4	5.5(+0.4/-0.0)	3.25±0.2	11.8
EP20	24.0±0.5	10.7±0.2	15.0±0.4	8.8±0.3	16.5±0.4	7.0(+0.4/-0.0)	45±0.2	28
EP30	31.5(+0.0/-1.0)	15.0±0.2	23.1±0.5	14.8(+0.0/-0.5)	23.8(+0.8/-0.0)	11.6(+0.4/-0.0)	4.5±0.25	75

Type	Effective Parameter				AL(nH/N <sup>2</sup> )					
	C1 (mm <sup>-1</sup> )	Lc (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3K (±25%)	M2 (±25%)	M3 (±25%)	M5K (±25%)	M7K (±25%)	M10K (±25%)
EP7	1.52	15.7	10.3	162	1010	1000	900	3400	4200	5050
EP10	1.70	19.2	11.30	217	1010	1000	900	3200	4000	4900
EP13	1.24	24.2	19.5	472	1600	1500	1400	4500	5800	7200
EP17	0.84	28.5	33.9	966	3000	2500	2400	6900	8900	11000
EP20	0.51	40.0	78.0	3100	4800	4400	4000	11000	14000	18000
EP30	0.35	62.6	179.0	11200	8200	7400	6600	16800	22000	27000

Material: M3



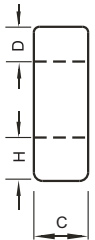
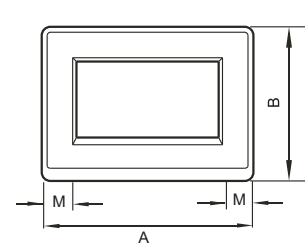
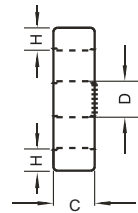
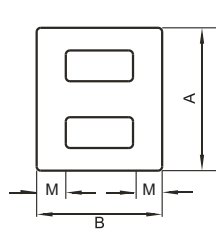
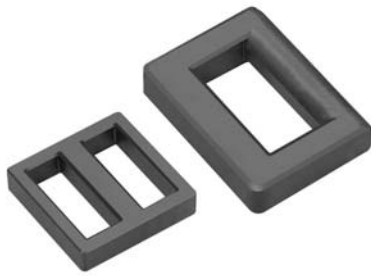
Type	Dimension(mm)							
	A	B	C1	C2	D	E min	F	H
EPC10	10.2±0.2	7.6	5.0±0.1	1.9±0.1	4.05±0.1	5.3	3.4±0.1	2.65±0.1
EPC13	13.3±0.3	10.5	5.6±0.15	2.05±0.1	6.6±0.2	8.3	6.6±0.15	4.5±0.2
EPC17	17.6±0.38	14.3	7.7±0.15	2.8±0.1	8.55±0.2	11.5	6.0±0.15	6.05±0.2
EPC19	19.1±0.48	15.8	8.5±0.15	2.5±0.1	9.75±0.2	13.1	6.0±0.15	7.25±0.2
EPC25	25.1±0.5	20.65	11.5±0.2	4.0±0.1	12.5±0.2	17.1	8.0±0.2	9.0±0.3
EPC27	27.1±0.05	21.6	13.0±0.3	4±0.1	16.0±0.2	18.5	8.0±0.2	12.0±0.3
EPC30	30.1±0.5	23.6	15.0±0.3	4±0.1	17.5±0.2	20	8.0±0.2	13.0±0.3

Type	Effective Parameter				Weight (g)	AL(nH/N <sup>2</sup> )
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )		M3 (±30%)
EPC10	2.03	19.28	8.36	161.23	0.92	1000
EPC13	2.46	30.6	12.5	382	2.1	870
EPC17	1.78	40.2	22.8	917	4.52	1360
EPC19	2.03	46.1	22.7	1047	5.3	940
EPC25	0.97	52.7	39.2	2866.93	12.2	1550
EPC27	1.34	73.1	54.6	3995	18	1540
EPC30	1.32	81.6	61.0	5035	23	1570

# ET & FT CORES

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Material: M5K, M7K, M10K, M12K, M15K



ET

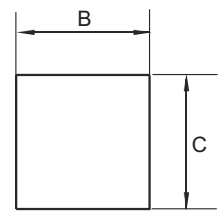
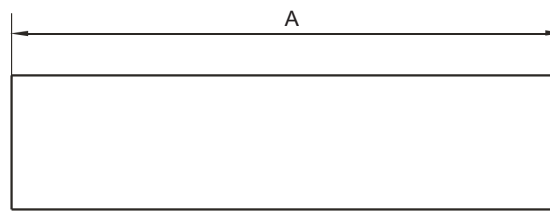
FT

Type	Dimension(mm)						Weight(g)
	A	B	C	D	H	M	
ET20	20.1±0.5	20.1±0.5	4.4±0.3	4.0±0.3	2.2±0.15	2.2±0.15	4.5
ET22	23.5(+0.2/-0.4)	22(+0.1/-0.2)	3.5(+0.2/-0.1)	3.8±0.1	2.2±0.15	2.2±0.15	4.0
ET24	24.2±0.5	24.2±0.5	4.0±0.3	4.0±0.3	2.4±0.15	2.4±0.15	5.6
ET24-Z	24.2±0.5	24.2±0.5	4.0±0.3	4.0±0.3	2.4±0.15	2.4±0.15	5.6
ET25	25.5±0.5	25.5±0.5	5.0±0.3	5.0±0.3	3.1±0.15	3.1±0.15	7.8
ET26	26.0(+0.4/-0.2)	26(+0.4/-0.2)	4.5±0.3	4.5±0.3	2.5±0.15	2.5±0.15	6.4
ET28	28.45±0.55	28.45±0.55	5.0±0.3	5.0±0.3	2.9±0.2	2.9±0.2	10.0
ET28-Z	28.45±0.55	28.45±0.55	5.0±0.3	5.0±0.3	2.9±0.2	2.9±0.2	10.0
ET29	29.0±0.3	30.0±0.3	5.0±0.3	5.0±0.3	3.0±0.2	3.0±0.2	10.5
ET35	35.3±0.6	35.3±0.6	7.5±0.3	7.5±0.3	4.0±0.2	4.0±0.2	24.5
ET35-Z	35.3±0.6	35.3±0.6	7.5±0.3	7.5±0.3	4.0±0.2	4.0±0.2	24.5
FT20	20.6±.3	14.2±0.3	4.3±0.3	4.2±0.2	2.4±0.2	2.4±0.2	3.7

Type	Effective Parameter				AL(nH/N <sup>2</sup> )				
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M5K (±25%)	M7K (±25%)	M10K (±25%)	M12K (±25%)	M15K (±25%)
ET20	2.96	52.1	17.6	917	2000	2700	3600	4400	
ET22	5.00	66.6	13.5	899.1		2000	3000		
ET24	3.42	61.0	17.8	1090	2000	2700	3600	4400	
ET24-Z	3.42	61.0	17.8	1090	2000	2700	3600		
ET25	3.24	63.0	20.0	1400	2500	3000	4000	4600	
ET26	3.12	66.0	21.1	1395		2800	3600		
ET28	2.61	71.4	27.4	1950	2600	3600	4500	5400	620
ET28-Z	2.61	71.4	27.4	1950	2600	3600	4500		
ET29	2.67	74.5	27.9	2070		3600	4500		
ET35	1.48	86.7	58.6	5080	4000	5000	6400	8500	9600
ET35-Z	1.48	86.7	58.6	5080	4000	5000	6400		
FT20	4.4	52	11.9	768	1600	2100	2900	3300	

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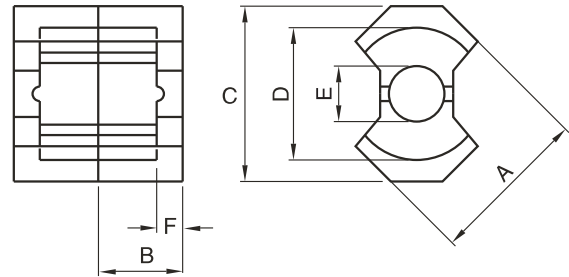


Type	Dimension(mm)		
	A	B	C
115 x 5 x 4	15.0±0.3	5.0±0.2	4.0±0.2
117 x 5 x 4.8	17.0±0.3	5.0±0.2	4.8±0.1
135 x 11 x 5.5	35.0±0.5	11.0(+0.8/-0.5)	5.5±0.2
135 x 11 x 5.6	35.8±0.3	11.4±0.2	5.6±0.2
145 x 15 x 5	45.0±0.8	5.0(+0.0/-0.5)	5.0(+0.0/-0.5)
160 x 5 x 2.3	60.5±0.5	5.1±0.15	2.3±0.1
160 x 5 x 4.9	60.0±0.4	15.0±0.3	4.9±0.2
160 x 15 x 5	60.0(+0.0/-1.0)	15.0(+0.0/-0.5)	5.0(+0.0/-0.2)
1101.6 x 50.8 x 25.4	101.6±2.0	50.8±0.61	25.4±0.64

# RM CORES

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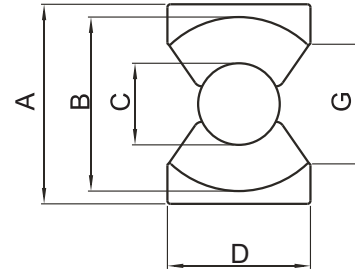
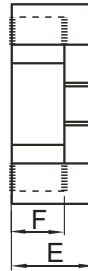
Material: M2, M3



Type	Dimension(mm)					
	A	B	C	D	E	F
RM4	9.8(+0.0/-0.4)	5.2±0.1	11.6±0.2	8.15±0.2	9.8(+0.0/-0.4)	3.5(+0.2/-0.0)
RM5	12.3(+0.0/-0.5)	5.2±0.1	14.65±0.25	10.4±0.2	4.8±0.1	3.25±0.1
RM6	14.4±0.3	6.2±0.1	17.6±0.3	12.65±0.25	6.3±0.1	4.1±0.1
RM8	19.7(+0.0/-0.7)	8.2±0.1	23.2(+0.0/-0.9)	17.0(+0.6/-0.0)	8.55(+0.0/-0.3)	5.5±0.1
RM10	24.2±0.55	9.3±.1	27.85±0.65	21.65±0.45	10.7±0.2	6.35±0.1
RM12	29.2±0.6	11.75±0.1	36.75±0.65	25.5±0.5	12.8(+0.0/-0.4)	8.55±0.15
RM14	34.2±0.5	14.4±.0	41.6±0.6	29.5±0.5	14.75±0.25	10.55±0.15

Type	Effective Parameter				AL(nH/N <sup>2</sup> )		Weight (g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M2 (±25%)	M3 (±25%)	
RM4	1.62	22.5	13.9	313	720.0	680	1.7
RM5	0.94	22.3	23.8	530	1350.0	1250	3.2
RM6	0.78	29	37	1050	1720	1600	5.5
RM8	0.59	38	64	2400	2200	1950	12.5
RM10	0.45	44	98	4310	3900	3630	23
RM12	0.4	56.9	140	7960	4500	4150	42
RM14	0.4	71	178	12600	5000	4600	70

Material: M3



Type	Dimension(mm)						
	A	B	C	D	E	F	G min
PQ2016	20.5±0.40	18.00±0.40	8.80±.20	14.00±0.40	8.20±0.20	5.20±0.20	12.00
PQ2020	20.5±0.40	18.00±0.40	8.80±0.20	14.00±0.40	10.20±0.20	7.20±0.20	12.00
PQ2620	26.5±0.50	22.50±0.50	12.00±0.20	19.00±0.50	10.20±0.20	5.80±0.20	15.50
PQ2625	26.5±0.50	22.5±0.50	12.00±0.20	19.00±0.50	12.40±0.20	8.10±0.20	15.50
PQ3220	32.00±0.60	27.50±0.50	13.50±0.30	22.00±0.50	10.30±0.20	5.80±0.20	19.00
PQ3225	32.00±0.60	27.50±0.50	13.50±0.30	22.00±0.30	12.70±0.20	8.20±0.20	19.00
PQ3230	32.00±0.60	27.50±0.50	13.50±0.30	22.00±0.50	15.20±0.20	10.70±0.20	19.00
PQ3535	35.20±0.60	32.00±0.60	14.20±0.30	26.00±0.60	17.40±0.20	12.50±0.20	23.50
PQ4040	40.50±0.90	37.00±0.80	14.70±0.40	28.00±0.60	19.90±0.20	14.80±0.20	27.50
PQ5050	50.00±1.20	44.00±1.00	19.80±0.40	32.00±0.70	25.00±0.20	19.10±0.20	31.50

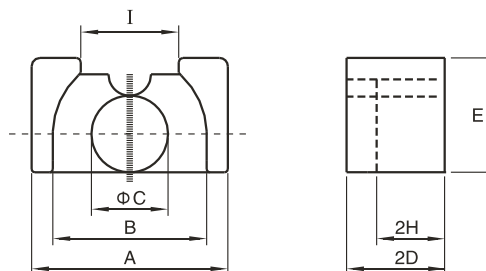
Type	Effective Parameter				AL(nH/N <sup>2</sup> )	Weight(g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3 (±25%)	
PQ2016	0.605	37.4	62	2310.0	3880	13
PQ2020	0.738	45.4	62	2790	3150	15
PQ2620	0.391	46.3	119	5490	6170	31
PQ2625	0.472	55.5	118	6530	5250	36
PQ3220	0.326	55.5	170	9420	6700	42
PQ3225	0.404	65.0	161	10465	5200	50
PQ3230	0.464	74.6	161	11970	5140	56
PQ3535	0.448	87.9	196	17260	4860	69
PQ4040	0.508	101.9	201	20450	4300	91
PQ5050	0.346	113.0	328	37238	6720	187



# LP CORES

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Material: M3



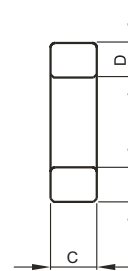
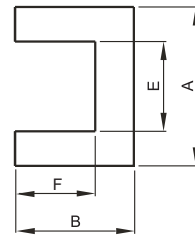
Type	Dimension(mm)							Weight(g)
	A	B	C	D	E	F	G	
LP2308	16.50±0.30	12.50±0.30	5.70±0.20	8.70±0.20	11.80±.20	8.80±.20	9.00±0.50	10
LP2213	25.00±.40	19.00±0.30	8.60±0.20	12.90±0.30	16.00±0.30	12.10±0.20	13.50±0.50	21
LP3213	25.00±0.40	19.00±0.30	8.60±0.20	12.90±0.30	16.00±0.20	12.10±0.20	13.50±0.50	30

Type	Effective Parameter				AL(nH/N <sup>2</sup> )
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3 (±25% )
LP2308	1.41	44.1	31.3	1337	1530±25%
LP2213	0.72	49.0	67.9	3327	3170±25%
LP3213	0.91	64.0	70.3	4498	2520±25%

# UF CORES

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Material: M3, M5K, M7K, M10K



Type	Dimension(mm)						Weight(g)
	A	B	C	D	E	F	
UF9.8	9.8±0.2	7.2±0.2	2.7±0.2	2.8±0.1	4.1	4.2±0.2	1.3
UF10.5	10.5±0.3	7.9±0.2	5.0±0.3	2.5±0.2	5.2	5.35±0.2	2.5
UF15	15.0±0.4	11.7±0.3	6.4±0.2	4.6±0.3	5.4	6.5±0.2	8.0
UF15.2	15.0±0.4	11.2±0.4	6.56.5±0.25	5.0±0.2	5.0	6.0±0.3	8.2
UF15.7	15.7±0.4	9.7±0.3	6.0±0.2	4.5±0.2	6.7	6.0±0.3	6.7
UF16	16.0±0.4	10.0±0.3	5.9±0.2	4.5±0.2	6.8	6.0±0.2	6.9
UF17	17.0±0.4	15.5±0.3	6.0±0.2	4.5±0.2	6.1	11.8±0.3	9.0
UF19	19.7±0.4	17.7±0.3	6.0±0.2	6.0±0.2	7.4	11.7±0.3	15.0
UF25	25.4±0.5	16.0±0.3	6.35±0.25	6.35±0.25	12.4	9.65±0.2	16.5
UF30	30.0±0.5	12.7±0.15	6.25±0.15	6.1±0.2	17.3	6.2±0.25	17.0
UF33	33.0±0.5	13.8±0.15	7.2±0.2	7.2±0.2	18.0	6.2±0.25	23.0
UF64	65.0±1.5	63.5±1.0	20.0±0.5	40.0±0.5	24.4	43.0±0.7	1100
UF66	66.0±1.5	55.0±1.0	39.6±0.6	19.5±0.5	25.0	36.5±1.0	925
UF80A	80.0±2.0	64.5±.5	29.5±0.5	21.5±0.5	36.0	43.0±0.5	970
UF80B	80.0±2.0	85.0±1.0	40.0±1.0	20.0±0.5	40.0	65.0±1.0	1500
UF93	93.0±2.5	79.0±1.0	28.0±0.5	28.0±0.5	36.5	49.5±1.0	1450
UF96	96.0±3.0	80.5±0.5	30.0±0.5	30.0±0.5	37.0	50.0±0.5	1490
UF100	100.0±3.0	70.5±1.0	30.0±1.0	30.5±0.5	36.7	45.0±1.0	1670
UF120A	120.0±3.0	80.0±1.0	40.0±1.5	30.0±0.5	59.0	50.0±1.0	2290
UF120B	120.0±3.0	117.0±1.0	40.0±1.5	30.0±0.5	59.0	87.0±1.0	3020

Type	Effective Parameter				AL(nH/N <sup>2</sup> )			
	CI (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3 (±25%)	H5K (±25%)	H7K (±25%)	H10K (±25%)
UF9.8	4.46	34.1	7.7	262	440	800	900	1200
UF10.5	3.22	40.3	12.5	503	650	930	1170	1690
UF15	1.74	52.5	30.1	1580	1400	1900	3000	
UF15.2	1.53	50.4	32.9	1660	1400			
UF15.7	2.02	49.9	24.8	1240	1000	2600	3250	
UF16	2.03	51.2	25.1	1290	1000	1600	2080	2700
UF17	2.99	75.6	25.3	1910	890	1750	2600	3200
UF19	2.25	81.0	36.0	2920	1000	1590	2080	
UF25	2.08	83.9	40.3	3390	1100		1600	
UF30	2.06	80.4	39.1	3140	1050		2800	
UF33	1.59	84.7	53.7	4600	1360		3000	
UF64	0.36	286	8.6	230000	6400			
UF66	0.34	260	759	197000	6000			
UF80A	0.49	312.5	632.9	197812	4500			
UF80B	0.54	435	801	348000	5500			
UF93	0.45	362	797	289000	5000			
UF96	0.41	369	900	331695	5000			
UF100	0.45	353	895	316000	5100			
UF120A	0.34	407	184.61	482098	6100			
UF120B	0.47	564	1200	677000	4800			

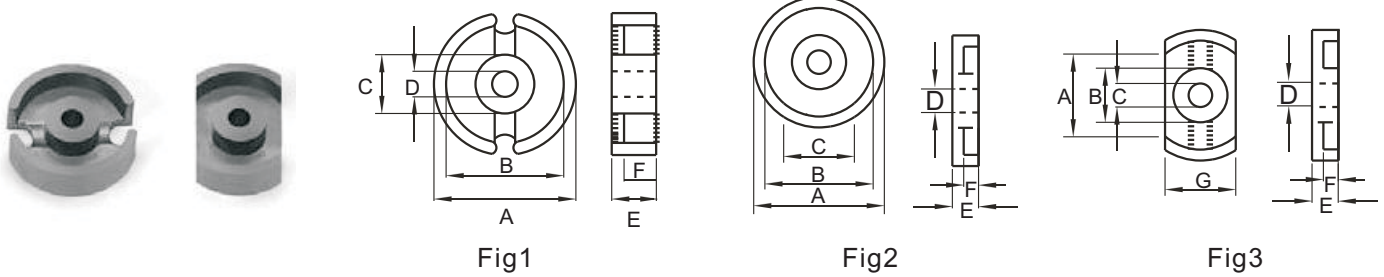
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# POT & CUT CORES

**Meisongbei**

Material: M3



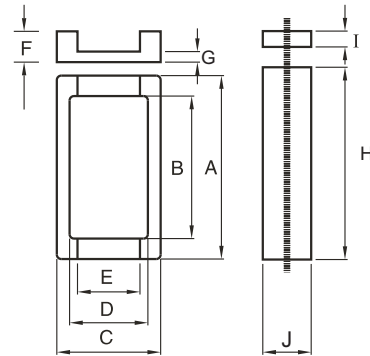
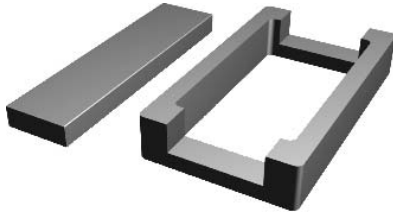
Type	Fig	Dimension(mm)						
		A	B	C	D	E	F	G
POT9×5	1	9.20±0.20	7.70±0.20	3.75±0.15	2.10±0.10	2.65±0.10	1.90±0.10	
POT11×7	1	11.10±0.20	9.20±0.20	4.60±0.10	2.10±0.10	3.25±0.10	2.30±0.10	
POT14×8	1	14.00±0.25	11.60min	6.00max	3.10±0.10	4.20±0.20	2.80min	
POT18×11	1	18.10±0.50	15.20±0.40	7.45±0.25	3.05±0.15	5.65±0.15	3.80±0.20	
POT22×14	1	21.70±0.50	18.30±0.50	9.15±0.25	4.50±0.20	6.85±0.15	4.80±0.20	
POT26×16	1	25.50±0.50	21.60±0.40	11.30±0.20	5.70±0.20	8.10±0.10	5.90±0.20	
POT30×20	1	30.10±0.60	25.50±.60	13.25±0.35	5.50±0.20	9.85±0.15	7.25±0.25	
POT36×22	1	33.70±0.60	26.50min	13.50±0.30	23.70±0.50	12.05±0.20	9.25±0.20	
POT23×11	2	22.90±0.5	18.20±.25	9.70±0.20	5.08±0.10	5.54±0.125	3.78±0.15	
CUT14×8	3	14.00±0.25	11.60min	6.00max	3.10±0.10	4.20±0.20	2.80min	9.40(+0.35/-0.15)
CUT18×11	3	18.10±0.50	15.20±0.40	7.45±0.25	3.05±0.15	5.65±0.15	3.80±0.20	11.90±0.20
CUT23×11	3	22.90±0.45	18.20±0.25	9.70±0.20	5.08±0.10	5.54±0.125	3.78±0.15	15.20±0.25
CUT30×19	3	30.40±0.60	25.40±0.60	13.30±0.35	20.30±0.40	9.50±0.20	6.70±0.30	17.50min
CUT33×19	3	33.70±0.60	26.50min	13.50±0.30	23.70±0.50	9.50±0.20	6.60±.20	
CUT33×24	3	35.75±0.75	30.55±0.75	15.80±0.40	5.50±0.20	11.25±0.15	7.60±0.30	

Type	Effective Parameter				AL(nH/N <sup>2</sup> )	Weight(g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3 (±25%)	
POT9×5	1.25	12.2	9.8	119.6	1200	0.9
POT11×7	0.96	15.5	16.2	251.1	1550	1.8
POT14×8	0.789	19.8	25	495	2130	3.2
POT18×11	0.579	25.8	43.3	1120	2960	6.6
POT22×14	0.502	31.6	63	2000	3300	13
POT26×16	0.4	37	93.9	3531	4600	21
POT30×20	0.331	45	136	6100	5800	35
POT36×22						
POT23×11	0.497	31.5	63.4	1197		13.4
CUT14×8	0.906	21.1	23.3	492	1930	2.7
CUT18×11	0.67	27.2	40.6	1110	2500	5.4
CUT23×11	0.497	28.6	61	1746	4150	10
CUT30×19	0.422	46.4	110	5104	4500	24.5
CUT33×19						
CUT33×24	0.257	52	202	10600	9000	62

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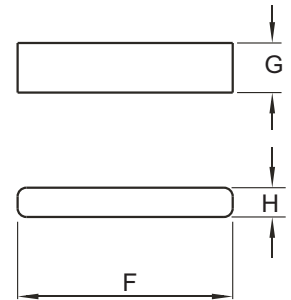
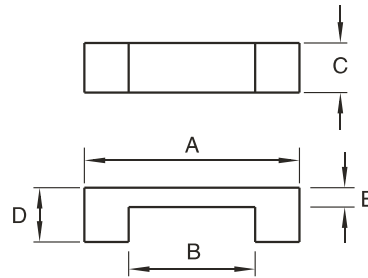
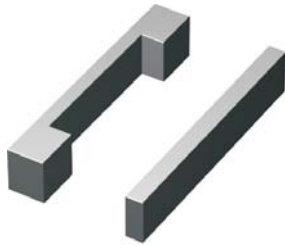
Material: M3



Type	Dimension(mm)									
	A	B	C	D	E	F	G	H	I	J
FUI8.3	27.40±0.50	22.40±0.50	8.30±0.20	6.50±0.15	5.40±0.10	2.95±0.05	1.05±.15	28.30±0.50	3.85±0.10	1.35±0.05
FUI9.8	23.80±0.30	19.20±0.30	9.80±0.20	7.30±0.20	5.70±0.20	3.85±0.05	1.30±0.10	24.10±0.30	4.40±0.10	2.00±0.05
FUI12	21.00±0.30	16.20±.15	11.80±0.25	8.90±0.20	7.00±0.10	3.50±0.10	2.30±.10	21.80±0.30	5.50±0.20	1.80±0.10
FUI15	19.70±0.30	15.60±0.30	14.80±0.30	11.40±0.25	7.00±0.10	4.60±0.10	1.80±0.05	19.90±0.30	4.45±0.15	4.45±0.15
FUI29	28.00±0.30	20.45±0.15	16.60±0.25	12.75±0.15	9.80±0.20	3.70±0.15	1.80±0.10	28.60±0.30	7.90±0.20	1.90±0.10

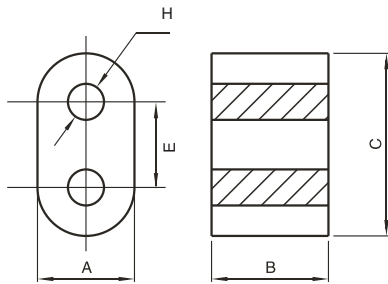
Type	Effective Parameter				AL(nH/N <sup>2</sup> )	Weight(g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3 (±25%)	
FUI8.3	9.33	53.6	5.19	589	250	2
FUI9.8	5.96	44.9	7.5	337.49	370	2.33
FUI12	4.04	40.8	10.08	411.46	400	2.35
FUI15	4.6	42.5	10.5	585	500	2.64
FUI29					450	

Material: M3



Type	Dimension(mm)							
	A	B	C	D	E	F	G	H
CI8.3	28.80±0.50	21.60 min	2.70±0.15	3.60±0.10	2.05±0.10	29.50±.50	3.15±0.15	1.75±0.05
CI8.5	28.80±0.50	21.60 min	3.20±0.15	3.60±0.10	2.35±0.10	29.50±0.50	3.50±0.10	2.20±0.05
CI10	23.10±0.25	20.30±0.20	7.40±0.15	2.30±.10	1.10±0.10	23.10±0.25	7.40±0.15	1.20±0.05
CI15	26.10±0.50	22.10+0.30/-0.15	12.40+0.30/-0.20	3.60±0.10	1.25+0.15/-0.10	26.10+0.60	9.80+0.05/-0.10	1.80±0.05
CI17	22.90±0.25	18.90±0.0	13.25±0.20	3.70±0.10	2.00±0.05	22.90±0.25	1.80±0.05	2.00±0.05

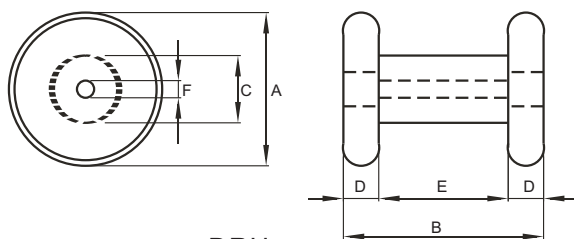
Type	Effective Parameter				AL(nH/N <sup>2</sup> )	Weight(g)
	C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3 (±25% )	
CI8.3	9.71	55.27	5.69	314.49	300	2
CI8.5	7.15	55.4	7.8	429.66	400	2.05
CI10	6.45	48.5	7.52	585.26	380	1.95
CI15					765	
CI17	1.791	48.19	26.9	1669.47	1392	6.2



RID



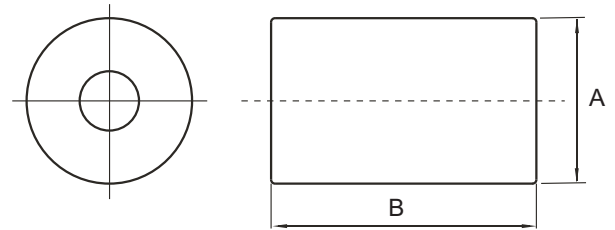
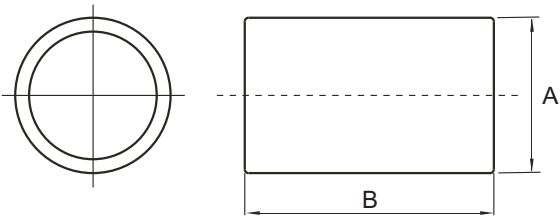
Type	Dimension(mm)				
	A	B	C	H	E
RID3.3x2.0x5.2	3.3±0.2	2.0±0.2	5.2±0.3	1.2±0.1	2.6
RID3.0x2.0x5.2	3.0±0.2	2.0±0.2	5.2±0.3	1.2±0.1	2.6
RID3.3x3.0x5.2	3.3±0.2	3.0±0.2	5.2±0.3	1.2±0.1	2.6
RID3.0x3.0x5.2	3.0±0.2	3.0±0.2	5.2±0.3	1.2±0.1	2.6
RID3.3x5.0x5.2	3.3±0.2	5.0±0.3	5.2±0.3	1.2±0.1	2.6
RID3.0x4.0x6.0	3.0±0.2	4.0±0.3	6.0±0.3	1.5±0.1	3.0
RID3.0x10.0x6.5	3.0±0.2	10.0±0.4	6.5±0.3	1.0±0.1	3.5
RID6.5x4.0x12.0	6.5±0.3	4.0±0.3	12.0±0.5	3.8±0.25	5.5
RID7.5x5.0x13.3	7.5±0.3	5.0±0.3	13.3±0.5	3.8±0.25	5.8
RID7.5x7.0x13.3	7.5±0.3	7.0±0.3	13.3±0.5	3.8±0.25	5.8
RID8.0x7.0x15.0	8.0±0.3	7.0±0.3	15.0±0.5	5.0±0.25	7.0
RID8.0x14.0x15.0	8.0±0.3	14.0±0.5	15.0±0.5	5.0±0.25	7.0



DRH



Type	Dimension(mm)					
	A	B	C	D	E	F
DRH18x20	18.03±0.8	20.0±1.0	11.0±0.4	3.75	12.5±0.5	3.2±0.2
DRH22x18	22.0±1.0	18.5±1.0	12.5±0.3	3.5	11.5±0.5	3.75±0.2
DRH28x22	28.0±1.0	22.0±0.15	17.0±0.4	4	14.0±0.6	4.2±0.6



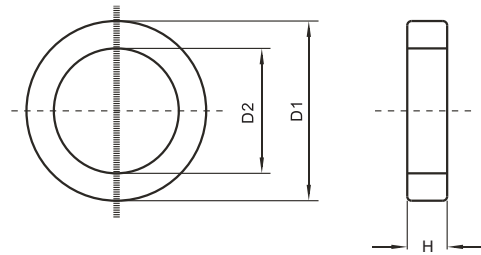
Type	Dimension(mm)	
	A	B
R 1.2X5.8	1.2±0.1	5.8±0.2
R 1.85X7.7	1.85±0.1	7.7±0.3
R 3X7	3.0±0.1	7±0.3
R 3X9(10)	3.0±0.1	9(10)±0.3
R 3X12d-29	3.0±0.1	12±0.3
R 3X13	3.0±0.1	13±0.3
R 3X14(18)	3.0±0.1	14(18)±0.4
R 3X20	3.0±0.1	20±0.5
R 3.15X11.2	3.15±0.05	11.2±0.5
R 3.3X11	3.3±0.05	11.0±0.5
R 3.5X7.5	3.5±0.1	7.5±0.3
R 3.5X14	3.5±0.1	14±0.4
R 3.5X17.5	3.5±0.1	17.5±0.4
R 3.7X14	3.7±0.1	14±0.4
R 4X9	4.0±0.1	9±0.3
R 4X12	4.0±0.1	12±0.3
R 4X16	4.0±0.1	16±0.5
R 4X18	4.0±0.1	18±0.5
R 4X20	4±0.15	20±0.6
R 4X25	4±0.15	25±0.8
R 4.5X7	4.5±0.1	7±0.5
R 4.5X11	4.5±0.15	11±0.6
R 4.5X30	4.5±0.15	30±0.8
R 5X15(16)	5±0.15	15(16)±0.4
R 5X25	5±0.15	25±0.8
R 5X30(30.6)	5±0.15	30(30.6)±0.8

Type	Dimension(mm)	
	A	B
R 5.5X14	5.5±0.15	14±0.4
R 5.5X17	5.5±0.15	17±0.4
R 6X15	6±0.15	15±0.4
R 6X20	6±0.15	20±0.4
R 5.8X30	5.8±0.15	30±0.4
R 6X22	6±0.15	22±0.4
R 6X23.5	6±0.15	23.5±0.4
R 6X23d-29	6±0.15	23±0.4
R 6X28.5	6±0.15	28.5±0.4
R 6X30	6±0.15	30±0.8
R 6.5X15	6.5±0.15	15±0.4
R 6.5X30	6.5±0.15	30±0.8
R 7.6X30	7.6±0.15	30±0.8
R 7.6X40	7.6±0.15	40±0.8
R 8X15	8±0.2	15±0.4
R 8X22	8±0.2	22±0.4
R 8X25	8±0.2	25±0.4
R 8X32(33)	8±0.2	32(33)±0.8
R 9.5X19	9.5±0.2	19±0.5
R 9.53X25.4	9.53±0.2	25.4±0.8
R 9.53X31.75	9.53±0.2	31.75±0.8
R 10X18	10±0.2	18±0.5
R 10X21(25)	10±0.2	21(25)±0.6
R 10X30	10±0.2	30±0.8
R 12X30	12±0.2	30±1.0
R 15X30	15±0.2	30±0.8

# T CORES

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Material: M3K, M2, M3, M5K, M7K, M10K



Type	Dimension(mm)			Weight (g)	Effective Parameter				AL(nH/N <sup>2</sup> )					
	D1	D2	H		C1 (mm <sup>-1</sup> )	Le (mm)	Ae (mm <sup>2</sup> )	Ve (mm <sup>3</sup> )	M3K (±20%)	M2 (±20%)	M3 (±20%)	M5K (±20%)	M7K (±20%)	M10K (±20%)
T6X3X3	6.0±0.3	3.0±0.3	3.0±0.2	0.3	3.13	14.1	4.5	63.5	1300	1150	1000	2250	3150	4200
T9X5X3	9.0±0.3	5.0±0.3	3.0±0.2	0.6	3.61	21.4	6.1	134	1100	990	850	1900	2600	3500
T10X6X5	10.0±0.3	6.0±0.3	5.0±0.3	1.0	2.46	25.1	10.2	256	1600	1400	1200	2800	3800	5100
T12.7X7.92X6.35	12.7±0.4	7.97±0.3	6.35±0.3	2.3	2.09	31.2	14.9	465	1900	1680	1440	3300	4500	6000
T14X9X5	14.0±0.4	9.0±0.3	5.0±0.3	2.1	2.89	36	12.5	452	1400	1240	1060	2400	3300	4400
T16X8X5	16.0±0.3	8.0±0.3	5.0±0.3	3.5	1.81	36.2	20	724	2200	1940	1660	3800	5200	6900
T16X12X8	16.0±0.3	12.0±0.3	8.0±0.3	3.4	2.73	43.4	15.9	689	1500	1300	1100	2500	3500	4600
T18X10X6.335	18.0±0.4	10.0±0.3	6.35±0.3	5.3	12.68	41.5	24.7	1020	2400	2100	1800	4100	5600	7500
T18X10X10	18.0±0.4	10.0±0.3	10.0±0.3	8.3	1.07	41.5	38.9	1610	3800	3300	2800	500	8800	11800
T20X10X7	20.0±0.4	10.0±0.3	8.0±0.3	8.0	1.14	46.6	26.8	1650	3200	2800	2300	6400	8600	12400
T20X10X10	20.0±0.4	10.0±0.3	10.0±0.3	10.5	1.08	52.4	36.2	2240	4200	3800	3300	6930	920	13860
T22X14X8	20.0±0.4	14.0±0.4	12.7±0.3	8.2	1.74	54.7	31.4	1720	2300	2000	1700	4000	5400	7200
T22X14X10	22.0±0.4	14.0±0.4	10.0±0.3	9.5	1.24	64.8	31.4	2460	3600	3200	2800	6800	8000	10000
T22X14X12.7	22.0±0.4	14.0±0.4	12.7±0.3	13.6	1.02	72.6	31.4	3780	3800	3400	3000	7800	9200	11500
T25X15X10	25.0±0.4	15.0±0.4	10.0±0.3	14.8	0.98	60.2	63.6	3827	2900	2600	2200	5400	7500	9200
T25X15X12	25.0±0.4	15.0±0.4	12.0±0.3	17.5	1.03	60.2	58.7	3530	3900	3400	2900	6700	9200	12000
T25X15X13	25.0±0.4	15.0±0.4	13.0±0.3	19	0.95	60.2	63.6	3830	4300	3700	3200	7300	10000	13300
T10X6X2.8	10.0±0.3	6.0±0.3	2.8±0.2	0.6	4.58	25.1	5.48	138		800				
T10X6X3.5	10.0±0.3	6.0±0.3	3.5±0.2	0.75	3.66	25.1	6.85	172		950				
T10X6X4	10.0±0.3	6.0±0.3	4.0±0.2	0.9	3.2	25.1	7.82	196		1100				
T28X12.4X7.6	28.0±0.4	12.4±0.3	7.6±0.3	23	1.01	56.9	56.1	3195		2900				
T28X16X16	28.0±0.4	16.0±0.4	16.0±0.3	31	0.92	75.2	58.5	4860	5600	5100	4600	8950	12500	17900
T28X18X13	28.0±0.4	18.0±0.4	13.0±0.3	23	0.96	72.4	63.2	4320	4000	3500	3000	5500	7600	11000
T28X18X14	31.0±0.5	18.0±0.5	14.0±0.4	33.6	0.98	76.2	79.2	6750	4800	4300	3800	8600	10500	14000
T31X19X13	31.0±0.5	19.0±0.5	13.0±0.4	29	0.99	75.5	76.5	5770	4100	3600	3100	7000	9500	12700
T31X19X15	31.0±0.5	19.0±0.5	15.0±0.4	31.5	1	77.6	81.2	6300	4700	4200	3701	7800	11200	13600
T36X23X15	31.0±0.5	23.0±0.5	15.0±0.4	44	0.929	89.6	96.5	865	4300	3800	3200	7400	10100	13500
T38X19X13	36.0±0.5	19.0±0.5	13.0±0.4	52.5	0.7	86.1	123	10590	5800	5000	4300	9900	13500	18000
T48X30X15	38.0±0.5	30.0±0.5	15.0±0.5	75	0.89	118	133	15700	4500	3900	3400	7800	10600	14000
T63X38X12.7	63.0±1.0	38.0±0.5	12.7±0.5	106	0.62	146	235	34300	6500	4900	17200	6840	10200	13690

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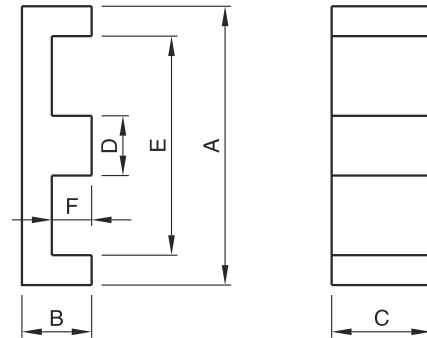
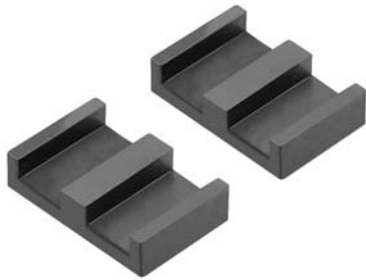
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# PEE CORES

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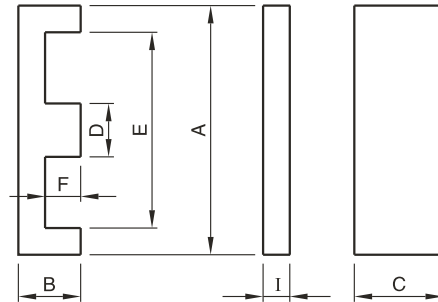
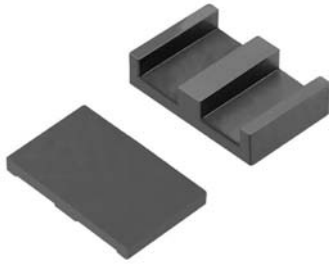
Material: M3



Type	Dimension(mm)					
	A	B	C	D	E	F
PEE14	14.00±0.30	3.50±0.10	5.00±0.10	3.00±0.05	10.50min	2.00±0.10
PEE18	18.00±0.30	4.00±0.10	10.00±0.20	4.00±0.10	14.00±0.30	2.00±0.10
PEE22	21.80±0.40	5.70±0.10	15.80±0.50	5.00±0.10	16.80±0.4	3.20±0.10
PEE32	31.75±0.64	6.35±0.13	20.32±0.41	6.35±0.13	24.9min	3.18±0.20
PEE38	38.10±0.76	8.26±0.13	25.40±0.51	7.62±0.15	30.23min	4.45±0.13
PEE43	43.20±0.90	9.53±0.13	27.90±0.60	8.10±0.20	34.7min	5.40±0.13
PEE58	58.42±1.17	10.54±0.20	38.10±0.78	8.10±0.20	50.39min	6.35min
PEE64	64.00±0.76	10.20±0.10	50.80±0.81	10.16±0.18	53.16min	5.03min

Type	Effective parameter				Weight(g)	AL(nH/N <sup>2</sup> )
	C1(mm <sup>-1</sup> )	Le	Ae	Ve		M3(±25%)
PEE14	1.43	20.7	14.5	300	1.40	1200
PEE18	0.616	24.3	39.5	960	4.80	2520
PEE22	0.414	32.5	78.5	2550	13.00	4040
PEE32	0.315	41.4	130	5380	26.00	5673
PEE38	0.27	52.4	194	10200	50.90	7006
PEE43	0.267	61.1	229	18900	70.60	7292
PEE58	0.270	81.2	301	24600	130.00	7546
PEE64	0.155	80.2	516	41400	210.00	13020

Material: M3



Type	Dimension(mm)					
	A	B	C	D	E	F
PEI14	14.00±0.30	3.50±0.10	5.00±0.10	3.00±0.05	10.50min	2.00±0.10
PEI18	18.00±0.30	4.00±0.10	10.00±0.20	4.00±0.10	14.00±0.30	2.00±0.10
PEI22	21.80±0.40	5.70±0.10	15.80±0.50	5.00±0.10	16.80±0.4	3.20±0.10
PEI32	31.75±0.64	6.35±0.13	20.32±0.41	6.35±0.13	24.9min	3.18±0.20
PEI38	38.10±0.76	8.26±0.13	25.40±0.51	7.62±0.15	30.23min	4.45±0.13
PEI43	43.2±0.90	9.53±0.13	27.90±0.60	8.10±0.20	34.7min	5.40±0.13
PEI58	58.42±1.17	10.54±0.20	38.10±0.78	8.10±0.20	50.39min	6.35min
PEI64	64.00±0.76	10.20±0.10	50.80±0.81	10.16±0.18	53.16min	5.03min

Type	Effectiveparameter					AL(nH/N <sup>2</sup> )
	C1(mm <sup>-1</sup> )	Le	Ae	Ve	Wt(g/set)	M3(±25%)
PEI14	1.6	16.7	14.5	240	1.27	1105
PEI18	0.498	20.3	40.8	830	4.29	2851
PEI22	0.332	26.1	75.5	2040	11.42	4880
PEI32	0.27	35.1	130	4560	22.00	6422
PEI38	0.225	43.7	194	8460	42.50	8132
PEI43	0.220	50.4	229	11500	58.00	8525
PEI58	0.224	68.3	305	20829	110.00	8844
PEI64	0.137	69.9	511	35539	181.00	14565