



SANLIN FERRITES

MnZn MATERIAL FERRITE CORES
NEW PUBLICATION 2002

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INTRODUCTION

SANLIN Electronics Co., Ltd., founded in Haining, Zhejiang Province in 1997, is a enterprise specialized in both designing and manufacturing of ferrite cores and electronic transformers. Now it has more than 1,000 employees, The annual output is over 3,000 tons ferrite cores and 80,000,000 pieces magnetic components.

“ To satisfy customers’ need endlessly” is the mission of SANLIN. As market expansion, SANLIN keeps self-improvement continuously, in the aspect of updating facilities, increasing production capability and upgrading product quality. SANLIN has established a set of quality assurance system. Complete, uniformed and accurate technical documentation ensure the stability and credibility of the product quality. At the meantime, SANLIN pays great effort to train and recruit talented engineers, gradually formed a excellent work team in designing, techniques and quality control.



ISO9001:2000 Quality Assurance System

Equivalent Materials

SANLIN	TDK	HITACHI	FDK	YAGEO FERROXCUBE	SIEMENS EPCOS	THOMSON	SAMWAH
SK					N41, N72		
SP3	PC30	ML32D	6H10	3C85	N27, N67		PL-3
SP4	PC40	ML26D	6H20	3C90, 3C95	N87	F1	PL7
SL5	H5B	GP-7	2H06	3E4	T65, N30	A5	
SL7	H5B2	GP-9	2H07		T35, T37	A3	SM-70S
SL10	H5C2	GP-11	2H10	3E5	T38	A2	

Application:

- **SMPS Transformers**
- **Pulse and Wide Band Transformers**
- **Noise suppression and energy storage inductors**
- **Common Mode Chokes**
- **Telecom Transformers**
- **SMD Inverters**
- **Axial and Radial Lead Type Inductors**
- **Power Transformers**
- **Other components and spot market supply**

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MnZn Power Ferrite Material Characteristics

*Characteristics		Unit	SP3	SP4	SK	
μ_i (initial Permeability)			2500± 25%	2300± 25%	3000± 25%	
μ_a (Amplitude Permeability)			3200min	3000min	/	
(H=1194A/m) Saturation magnetic flux density	25?	mT	510	510	470	
	100?	mT	390	390	370	
Remanence	25?	mT	110	100	120	
	100?	mT	60	55	85	
Coercivity	25?	A/m	12	14	12	
	100?	A/m	10	9	7.0	
Pcv Power loss	25KHz,200mT	25?	kW/m ³	/	/	168
		100?	kW/m ³	/	/	154
	100KHz, 200mT	25?	kW/m ³	700	600	/
		100?	kW/m ³	600	410	/
		120?	kW/m ³	/	500	/
Electrical resistivity		O-m	9	6.5	/	
Curie temperature		?	230	215	190	
Density		kg/m ³	4.8x10 ³	4.8x10 ³	4.8x10 ³	

*Testing magnetic field 1600A/m;- 500kHz,50mT. The value on all the forms are typical value, which does not include customers' special request;If the customer have special request, it should be noted on the booking agreement or deal clearly.

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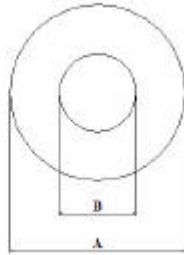
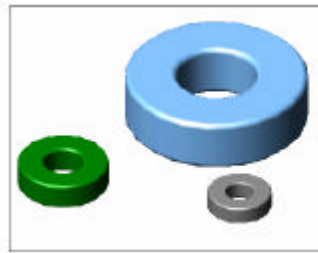
MnZn High μ_i Ferrite Material Characteristics

*Characteristics	Unit	SL5	SL7	SL10
μ_i (initial Permeability)		5000± 25%	7000± 25%	10000± 30%
α_{μ_i} Relative temperature coefficient of initial permeability	$10^{-6}/^\circ\text{C}$	-0.5~2.0 (20~60 $^\circ\text{C}$)	-0.5~2.0 (20~60 $^\circ\text{C}$)	-0.5~1.5 (20~60 $^\circ\text{C}$)
$\tan\delta / \mu_i$ Relative loss factor	10^{-6}	<6.5	<6.5	<7.0
D_F (1 to 10minutes) Disaccommodation factor	$\times 10^{-6}$	<3.0	<2.5	<2.0
B_s [H=1194A/m] Saturation magnetic flux Density 25 $^\circ\text{C}$	mT	420	420	400
Remanence 25 $^\circ\text{C}$	mT	140	100	90
Coercivity 25 $^\circ\text{C}$	A/m	8	7.5	7.2
ρ (Electrical resistivity)	$\Omega\cdot\text{m}$	1	0.3	0.15
Curie temperature	$^\circ\text{C}$	130	120	120
Density	Kg/m^3	4.8×10^3	4.9×10^3	4.9×10^3

*Testing magnetic field 1600A/m;- 500kHz,50mT. The value on all the forms are typical value, which does not include customers' special request;If the customer have special request, it should be noted on the booking agreement or deal clearly.

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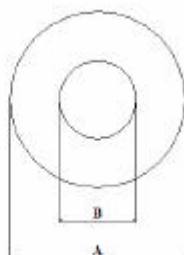
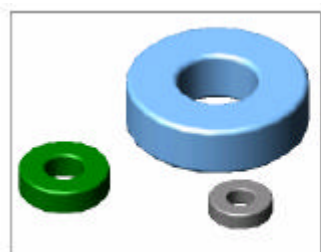
Toroidal Cores



Type	Dimensions (mm)			C ₁ mm ⁻¹	A _e mm ²	L _e mm	V _e mm ³	AL(nH/N ²)±25%			Weight(g)
	A	B	C					SK	SP3	SP4	
T4x2x2	4.0±0.3	2.0±0.3	2.0±0.3	4.55	1.9	8.74	16.73	820	690	630	0.09
T8x5x3	8.0±0.3	5.0±0.3	3.0±0.3	5.1	4.0	20.3	81.1	740	610	560	0.33
T9x5x4	9.0±0.3	5.0±0.3	4.0±0.3	2.7	7.8	20.8	161.5	1400	1160	1070	0.85
T10x6x3	10.0±0.4	6.0±0.3	3.0±0.3	4.1	5.9	24.1	141.3	920	760	700	
T10x6x5	10.0±0.4	6.0±0.3	5.0±0.3	2.5	9.8	24.1	235.6	1300	1100	950	1.2
T12x6x4	12.0±0.4	6.0±0.3	4.0±0.3	2.3	11.5	26.1	301.3	2100	1400	1200	1.6
T12.8x7.2x6.4	12.8±0.4	7.2±0.4	6.4±0.3	1.7	17.4	29.7	518.6	2210	1850	1700	2.70
T14x9x5	14.0±0.5	9.0±0.4	5.0±0.3	2.8	12.3	35.0	430.2	1340	1120	1030	3.02
T16x12x8	16.0±0.5	12.0±0.4	8.0±0.3	2.75	15.9	43.4	689.3	1270	1040	950	3.4
T18x10x10	18.0±0.5	10.0±0.4	10.0±0.4	1.25	38.9	41.5	1614.9	2800	2500	2100	7.9
T22x14x12	22.0±0.5	14.0±0.4	12.0±0.4	1.2	47.2	54.7	2879.9	2900	2450	2250	13.5
T25x15x7	25.0±0.5	15.0±0.4	7.0±0.3	1.8	34.2	60.2	2061.1	2000	1600	1500	12.0
T25x15x10	25.0±0.5	15.0±0.4	10.0±0.4	0.98	63.6	60.2	3827.8	3500	3000	2800	20.5
T28x14x11	28.0±0.5	14.0±0.4	11.0±0.4	0.8	74.0	61.0	4511.3	4600	3800	3500	23.5
T31x19x13	31.0±0.5	19.0±0.4	13.0±0.4	1.0	76.5	75.5	5771.9	3500	3000	2900	29.0
T37x23x15.5	37.0±0.5	23.0±0.5	15.5±0.5	0.9	106.5	90.8	9667.1	3900	3400	3100	48
T42x26x18	42±0.8	26±0.6	18±0.5	0.7	141.1	102.8	14510.9	3600	2400	2200	74.5

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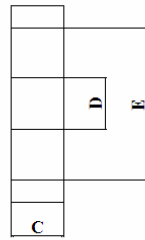
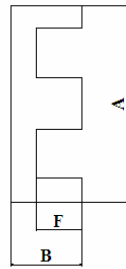
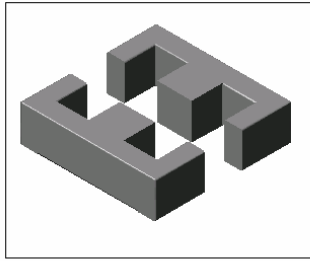
Toroidal Cores



Type	Dimensions (mm)			C ₁ mm ⁻¹	A _e mm ²	L _e mm	V _e mm ³	AL(nH/N ²)±25%			Weight (g)
	A	B	C					SL5	SL7	SL10	
T3.5x1.5x2	3.5±0.2	1.5±0.2	2.0±0.2	3.7	1.9	7.0	13.2	1700	2370	3390 min	0.075
T4x2x2	4.0±0.3	2.0±0.3	2.0±0.3	4.55	1.9	8.74	16.73	1330	1860	2200 min	0.09
T4x2x6	4.0±0.3	2.0±0.3	6.0±0.4	1.5	5.8	8.7	50.2	4180	5860	8370 min	0.27
T6x3x3	6.0±0.3	3.0±0.3	3.2±0.3	2.8	4.6	13.1	60.3	2240	3140	4480 min	0.33
T9x5x3	9.0±0.3	5.0±0.3	3.0±0.3	3.05	5.8	20.8	121.1	1710	2420	2760 min	0.67
T9.5x4.75x4.75	9.5±0.3	4.75±0.3	4.75±0.3	1.9	10.8	20.7	224.3	3300	4630	6610 min	1.2
T10x6x3	10.0±0.4	6.0±0.4	3.0±0.3	4.1	5.9	24.1	141.3	1530	2140	3060 min	0.8
T10x6x5	10.0±0.4	6.0±0.4	5.0±0.3	2.55	9.8	24.1	235.6	2550	3500	4000 min	1.2
T12.8x6.8x5.5	12.8±0.4	6.8±0.4	5.5±0.3	1.8	16.0	28.8	460.1	3490	4880	6980 min	2.45
T12.8x7.2x6.4	12.8±0.4	7.2±0.4	6.4±0.3	1.7	17.4	29.7	518.6	3690	5170	7390 min	2.70
T14x9x5	14.0±0.5	9.0±0.4	5.0±0.3	2.8	12.3	35.0	430.2	2240	3140	4480 min	2.9
T16x12x8	16.0±0.5	12.0±0.4	8.0±0.3	2.75	15.9	43.4	689.3	2280	3200	3680 min	3.8
T18x10x10	18.0±0.5	10.0±0.4	10.0±0.3	1.25	38.9	41.5	1614.9	5710	8000	9200 min	7.9
T22x14x8	22.0±0.6	14.0±0.4	8.0±0.3	1.7	31.5	54.7	1719.9	3690	5170	7390 min	7.2
T22x14x12	22.0±0.6	14.0±0.4	12.0±0.4	1.25	47.2	54.7	2879.9	5330	7460	8560 min	13.5
T25x15x7	25.0±0.6	15.0±0.4	7.0±0.3	1.85	34.2	60.2	2061.1	3500	4900	5630min	12.0
25x15x10	25.0±0.6	15.0±0.4	10.0±0.5	0.98	63.6	60.2	3827.8	5000	7000	8000min	20.5
T28x14x11	28.0±0.6	14.0±0.5	11.0±0.4	0.8	74.0	61.0	4511.3	7650	10000	12000min	23.5
T31x19x13	31.0±0.6	19.0±0.5	13.0±0.4	1.0	76.5	75.5	5771.9	6240	8730	10040min	29
T37x22x15.5	37.0±0.6	23.0±0.4	15.5±0.5	0.9	106.5	90.8	9667.1	6880	9250	10050min	48
T42x26x18	42±0.8	26±0.6	18±0.5	0.7	141.1	102.8	14510.9	4400	6220	8800	74.5

SANLIN FERRITES

EE cores



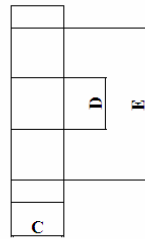
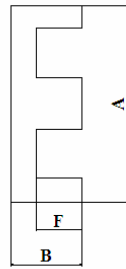
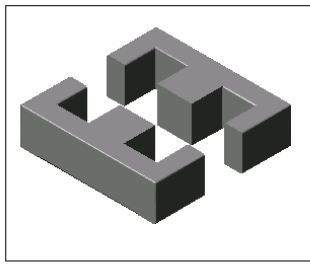
TYPE	Dimensions (mm)					
	A	B	C	D	E	F
EE10	10.3 ± 0.3	5.5 ± 0.2	5.0+0/-0.3	2.5 ± 0.2	7.5	4.3 ± 0.2
EE13	13.0 ± 0.4	6.0+0.2/-0.1	5.9 ± 0.3	2.8+0/-0.4	9.8	4.6+0.3-0.1
EE16A	16.0 ± 0.4	7.3 ± 0.3	5.1+0/-0.4	4.0 ± 0.2	11.7	5.2+0.3-0
EE16B	16.0 ± 0.4	12.4 ± 0.3	5.1+0/-0.4	4.0 ± 0.2	12.4	10.4 ± 0.3
EE16	16.0+0.7/-0.5	8.2+0/-0.3	4.7+0/-0.4	4.7+0/-0.4	11.3	5.7+0.1/-0.1
EE19A	19.0 ± 0.4	8.0 ± 0.3	5.0+0/-0.5	5.0+0/-0.5	13.8	5.6+0.4/-0.1
EE19B	19.2 ± 0.4	13.6 ± 0.3	5.0+0/-0.5	5.0+0/-0.5	14.0	11.3 ± 0.3
EE20A	20.2 ± 0.3	10.1+0/-0.27	5.55 ± 0.15	5.75+0/-0.22	14.5+0.27/-0	7.10+0.22/-0
EE20B	20.5 ± 0.5	10.7 ± 0.3	7.0 ± 0.3	5.0 ± 0.3	4.7	7.0 ± 0.3
EE25A	25.0 ± 0.5	9.9 ± 0.3	6.35 ± 0.25	6.35 ± 0.2	18.6	6.9 ± 0.3
EE25B	25.0 ± 0.5	9.8 ± 0.2	6.1 ± 0.3	5.8 ± 0.2	18.6	6.8 ± 0.2
EE25C	25.4 ± 0.6	9.6+0.3/-0.6	6.75 ± 0.2	6.35 ± 0.25	18.6	6.5+0.3/-0.1
EF25	25.05 ± 0.75	12.55 ± 0.25	7.2 ± 0.3	7.25 ± 0.25	17.5	8.95 ± 0.25
EE25D	25.4 ± 0.4	9.8+0.3/-0.1	6.4 ± 0.3	6.4 ± 0.3	18.6	6.8+0.3/-0.1
EE25E	25.0 ± 0.26	12.2+0/-0.27	7.10 ± 0.18	7.25+0/-0.22	17.8+0.27/-0	8.7+0.22/-0.1
EE28A	28.0 ± 0.5	16.5 ± 0.5	7.7+0/-0.5	7.5+0/-0.5	18.6	12.3 ± 0.3
EE28B	28.0 ± 0.6	10.5 ± 0.3	11.5 ± 0.25	7.7 ± 0.3	18.6	5.9 ± 0.3
EE30	30.5 ± 0.5	14.95 ± 0.3	7.0 ± 0.3	6.9 ± 0.3	19.5	10.2

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TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N ₂) ± 25%			Weight(g)
					SP3	SP4	SK	
EE10	2.1	12.7	26.1	330.7	700	810	810	1.9
EE13	1.7	17.2	30.0	513.8	860	1000	1000	3.6
EE16A	19.2	18.4	35.5	655	950	1100	1100	3.3
EE16B	2.8	19.6	55.2	1080	680	750	750	5.3
EE16	1.87	20.1	37.6	750	1000	800	800	4.0
EE19A	1.68	23.3	39.2	914	1050	1200	1200	5.0
EE19B	2.65	23.4	62.1	1450	1000	840	840	7.5
EE20A	2.63	20.1	52.9	1062	1430	1190	1100	7.6
EE20B	1.21	39	47.1	1840	2100	1900	1800	9.7
EE25A	1.25	39.6	49.5	1963	1600	1900	1900	10.2
EE25B	1.3	36.9	49.4	1823	1400	1600	1600	9.0
EE25C	1.15	43.4	48.2	2091	1600	1800	1800	10.0
EF25	1.34	33.5	44.9	1500	1630	1900	1900	14.8
EE25D	1.20	40.7	49.2	2004	1600	1800	1800	11
EE25E	1.20	49.2	57.9	2850	1600	1850	1850	13.5
EE28A	0.95	71.6	63.0	4508	3400	3060	2850	35
EE28B	0.57	99.8	48.1	4801	4500	4000	4000	23.5
EE30	1.1	59.4	65.5	3879	2200	1900	1900	22

SANLIN FERRITES

EE cores



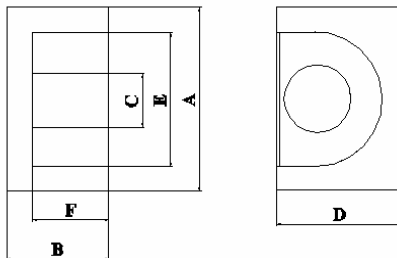
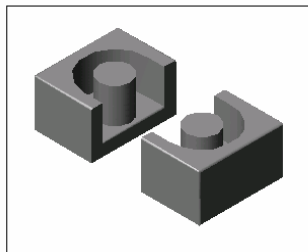
TYPE	Dimensions (mm)					
	A	B	C	D	E	F
EE5	5.25 ± 0.1	2.65 ± 0.88	1.95 ± 0.1	1.35 ± 0.1	3.8	2.0 ± 0.08
EE8	8.3 ± 0.3	4.0 ± 0.2	3.9 ± 0.2	$2.0+0/-0.3$	6.0	$3.0+0.2/-0.1$
EE10	10.3 ± 0.3	5.5 ± 0.2	$5.0+0/-0.3$	2.5 ± 0.2	7.5	4.3 ± 0.2
EE13	13.0 ± 0.4	$6.0+0.2/-0.1$	5.9 ± 0.3	$2.8+0/-0.4$	9.8	$4.6+0.3-0.1$
EE16A	16.0 ± 0.4	7.3 ± 0.3	$5.1+0/-0.4$	4.0 ± 0.2	11.7	$5.2+0.3-0$
EE16B	16.0 ± 0.4	12.4 ± 0.3	$5.1+0/-0.4$	4.0 ± 0.2	12.4	10.4 ± 0.3
EF16	$16.0+0.7/-0.5$	$8.2+0/-0.3$	$4.7+0/-0.4$	$4.7+0/-0.4$	11.3	$5.7+0.1/-0.1$
EE19A	19.0 ± 0.4	8.0 ± 0.3	$5.0+0/-0.5$	$5.0+0/-0.5$	13.8	$5.6+0.4/-0.1$
EE19B	19.2 ± 0.4	13.6 ± 0.3	$5.0+0/-0.5$	$5.0+0/-0.5$	14.0	11.3 ± 0.3
EE20A	20.2 ± 0.3	$10.1+0/-0.27$	5.55 ± 0.15	$5.75+0/-0.22$	$14.5+0.27/-0$	$7.10+0.22/-0$
EE20B	20.5 ± 0.5	10.7 ± 0.3	7.0 ± 0.3	5.0 ± 0.3	14.7	7.0 ± 0.3
EE25A	25.0 ± 0.5	9.9 ± 0.3	6.35 ± 0.25	6.35 ± 0.2	18.6	6.9 ± 0.3

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Type	Cl mm-1	Ae mm ²	Le mm	Ve mm ³	ALmin(nH/N ²)			Weight(g)
					SL5	SL7	SL10	
EE5	1.1	5.1	5.8	29.7		2850	2630	0.2
EE8	1.76	19.2	8.0	153.2		850	1275	1.0
EE10	2.2	12.7	26.1	315		1125	1688	1.8
EE13	1.7	17.0	30.3	517.0		1400	2300	3.6
EE16A	18.2	19.2	35.0	672.0		2000	3500	4.0
EE16B	2.84	19.4	55.0	1067		1600	2200	6.2
EF16	1.87	20.1	37.6	750		800	800	4.0
EE19A	1.68	23.3	39.2	914.2		2400	3400	4.8
EE19B	2.64	23.4	61.7	1443		1750	2450	7.1
EE20A	1.33	35.2	46.7	1358		2360	2170	7.6
EE20B	1.21	39	47.1	1840		1900	1800	9.7
EE25A	1.23	40.3	49.7	2003		4000	5600	10.2

SANLIN FERRITES

EP cores

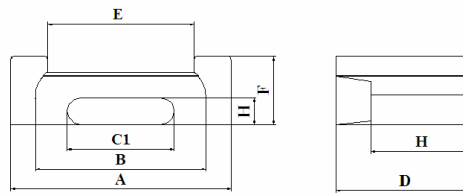
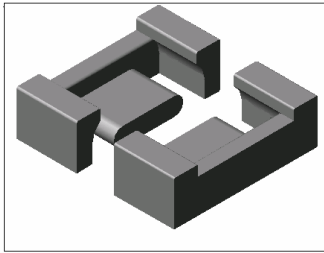


TYPE	dimensions (mm)					
	A	B	C	D	E	F
EP5	6.0 ± 0.15	2.8 ± 0.1	1.7 ± 0.1	3.8 ± 0.1	4.4 ± 0.15	2.0 ± 0.1
EP7	9.2 ± 0.2	3.7 ± 0.2	$3.4+0/-0.2$	$6.6+0/-0.4$	$7.6+0/-0.4$	$2.5+0/-0.4$
EP10	11.5 ± 0.3	5.1 ± 0.2	3.3 ± 0.2	$7.9+0/-0.4$	$9.6+0/-0.4$	$3.6+0/-0.4$
EP13	12.5 ± 0.3	6.5 ± 0.3	4.4 ± 0.2	$9.1+0/-0.4$	10.0 ± 0.3	$4.5+0/-0.4$
EP17	18.0 ± 0.4	8.4 ± 0.4	$5.9+0/-0.4$	$11.3+0/-0.6$	12.0 ± 0.2	$5.5+0/-0.4$
EP20	24 ± 0.5	10.7 ± 0.2	8.8 ± 0.3	16.5 ± 0.4	16.5 ± 0.4	$7.0+0/-0.4$

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N ²)		Weight(g)
					SP3	SP4	
EP5	3.20	3.00	9.70	28.7	400 min	380 min	0.45
EP7	1.52	10.3	15.7	163	880min	830min	1.4
EP10	1.7	11.3	19.2	208	850min	800min	2.8
EP13	1.24	19.6	24.2	476	1250min	1170min	4.9
EP17	0.84	33.9	28.5	966	1950min	1840min	11.8
EP20	0.51	79	39.8	3120	3450min	3200min	28

SANLIN FERRITES

EPC cores

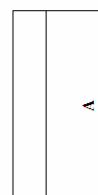
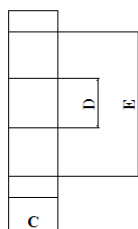
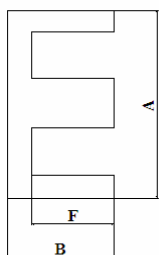
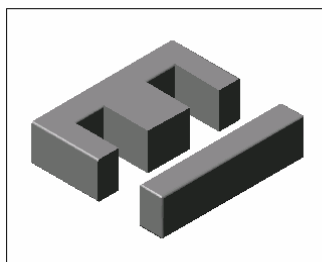


TYPE	dimension (mm)							
	A	Bmin	C1	C2	D	E min	F	H
EPC10	10.2 ± 0.2	7.6	5.0 ± 0.1	1.9 ± 0.1	4.05 ± 0.1	5.3	3.4 ± 0.1	2.65 ± 0.1
EPC13	13.3 ± 0.3	10.5	5.6 ± 0.15	2.05 ± 0.1	6.6 ± 0.2	8.3	4.6 ± 0.15	4.5 ± 0.2
EPC17	17.6 ± 0.4	14.3	7.7 ± 0.15	2.8 ± 0.1	8.55 ± 0.2	11.5	6.0 ± 0.15	6.05 ± 0.2
EPC19	19.1 ± 0.5	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
EPC30	30.1 ± 0.5	23.6	15.0 ± 0.3	4.0 ± 0.1	17.5 ± 0.2	20.0	8.0 ± 0.2	13.0 ± 0.3

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	$AL(nH/N^2) \pm 25\%$	Weight(g)
					SP4	
EPC10	1.89	9.39	17.8	167	1000	1.1
EPC13	2.46	12.5	30.6	382	870	2.1
EPC17	1.76	22.8	40.2	917	1150	4.5
EPC19	2.03	22.7	46.1	1047	940	5.3
EPC25	1.28	46.4	59.2	2748	1560	13
EPC30	1.32	61	81.6	5035	1570	23

SANLIN FERRITES

EI cores

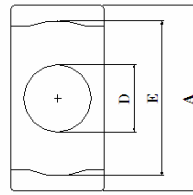
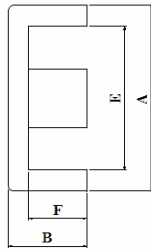
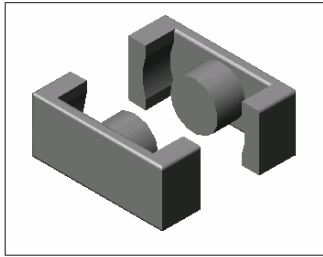


TYPE	Dimensions (mm)						
	A	B	C	D	E min	F	I
EI12.5	12.5 ± 0.3	7.4 ± 0.2	5.0 ± 0.2	2.4 ± 0.2	9.1	5.1 ± 0.2	1.5 ± 0.15
EI16	16.0 ± 0.4	12.4 ± 0.3	4.8 ± 0.2	4.0 ± 0.2	11.7	10.4 ± 0.3	2.0 ± 0.2
EI19	19.2 ± 0.4	13.6 ± 0.4	5.1+0/-0.5	5.1+0/-0.5	14.0	11.0+0.6/-0.2	2.4 ± 0.2
EI22A	22.0 ± 0.6	15.0 ± 0.3	6.0+0/-0.5	6.0+0/-0.5	15.6	11.0 ± 0.3	4.0 ± 0.3
EI22B	22.0 ± 0.6	14.6 ± 0.3	6.0+0/-0.5	6.0+0/-0.5	15.6	10.6 ± 0.3	4.5 ± 0.3
EI25	25.4 ± 0.5	16.3+0.5/-0.1	6.8+0/-0.5	6.6 ± 0.3	18.6	13.0+0.5/-0.1	3.0 ± 0.2
EI28	28.0 ± 0.6	16.75 ± 0.25	11.0+0/-0.5	7.25 ± 0.25	18.6	12.25 ± 0.25	3.5 ± 0.3
EI30	30.5 ± 0.5	21.5+0.6/-0.2	11.0+0/-0.5	11.0+0/-0.5	20.0	16.5+0.6/-0.2	5.5 ± 0.3
EI33	33.0 ± 0.6	24.0+0.5/-0	13.0+0/-0.5	9.7 ± 0.3	23.8	19.0+0.5/-0	5.0 ± 0.3

TYPE	C1 mm-1	Ae mm2	Le mm	Ve mm3	AL(nH/N2) ± 25%			Weight(g)
					SK	SP3	SP4	
EI12.5	1.44	14.4	20.6	297.5	1300	1200	1200	1.9
EI16	1.84	19.7	34.9	685.3	1400	1000	1000	3.3
EI19	1.5	24	39.0	1028.2	1500	1200	1200	5.0
EI22A	1.1	40.1	42.3	1697.0	1600	1800	1800	9.8
EI22B	0.94	42	39.3	1650.6	1700	1900	1900	9.8
EI25	1.1	44.3	48.5	2145	1500	1800	1800	9.8
EI28	0.52	92.3	48.9	4515	4500	3800	3800	22.0
EI30	0.5	115.6	58.2	6731.1	4900	4000	3700	34.0
EI33	0.57	124.9	67.3	8408	3390	4200	4000	41.0

SANLIN FERRITES

ER cores

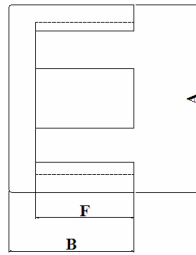
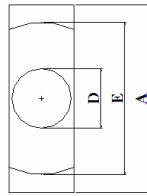
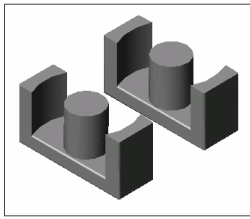


TYPE	Dimensions (mm)					
	A	B	C	D	E min	F
ER7.5	7.5 ± 0.15	2.5 ± 0.1	4.0 ± 0.1	2.6 ± 0.1	6.1	1.75 ± 0.1
ER9.5	$9.5+0/-0.3$	2.45 ± 0.05	4.9 ± 0.1	3.4 ± 0.1	7.0	1.675 ± 0.075
ER11.5	$11.0+0/-0.35$	2.45 ± 0.05	$6.0+0/-0.2$	$4.25+0/-0.25$	8.7	$1.5+0.15/-0$
ER14.5	14.5 ± 0.2	2.95 ± 0.05	$6.8+0/-0.2$	$4.8+0/-0.2$	11.6	$1.55+0.2/-0$

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	$AL(nH/N2) \pm 25\%$	
					SP4	Weight (g)
ER7.5	2.2	6.0	13.0	77.5	700	0.5
ER9.5	1.67	8.6	14.0	121	1540	0.7
ER11.5	1.23	11.9	14.7	174	2160	1.0
ER14.5	1.08	17.6	19.0	333	2400	1.8

SANLIN FERRITES

EER cores

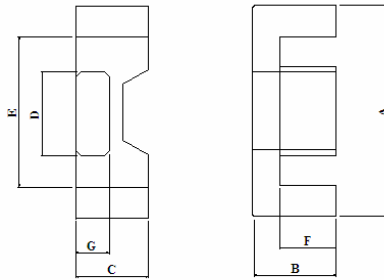
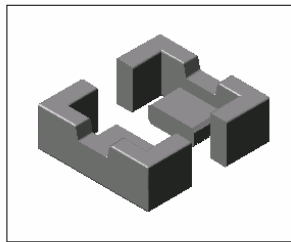


TYPE	Dimensions (mm)					
	A	B	C	D	E min	F
EER25	25.3 ± 0.6	9.3 ± 0.3	7.5 ± 0.3	7.5 ± 0.3	19.8	6.2 ± 0.3
EER28A	28.5 ± 0.6	14.0 ± 0.3	11.4 ± 0.3	9.9 ± 0.3	21.2	9.6 ± 0.3
EER28B	28.5 ± 0.6 16.9	16.9 ± 0.3	11.4 ± 0.3	9.9 ± 0.3	21.2	12.5 ± 0.3
ETD29	29.8 ± 0.8	15.8 ± 0.2	9.5 ± 0.3	9.5 ± 0.3	22.0	11.0 ± 0.3
EER35A	35.0 ± 0.7	21.0 ± 0.3	11.3 ± 0.4	11.3 ± 0.3	25.3	15.0 ± 0.3
EER35B	35.0 ± 0.7	16.8 ± 0.3	11.3 ± 0.4	11.3 ± 0.3	25.3	10.8 ± 0.3
ETD44	44.0 ± 1.0	22.3 ± 0.2	14.8 ± 0.4	14.8 ± 0.4	33.3 ± 0.8	16.5 ± 0.4

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N ²) ± 25%		Weight (g)
					SP3	SP4	
EER25	1.09	44.3	48.3	2140	2050	1920	12
EER28A	0.79	82.1	64	5254	3080	2870	28
EER28B	0.86	85.6	73.2	6266	2660	2520	33
ETD29	0.95	73.6	70.6	5196	2100	2200	28
EER35A	0.84	107	90.8	9716	2580	2600	53
EER35B	0.68	107	72.8	7790	2770	2770	51
ETD44	0.59	173.0	103.0	17720	4110	4000	94

SANLIN FERRITES

EFD cores

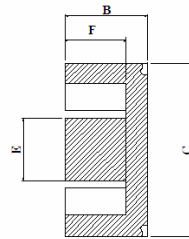
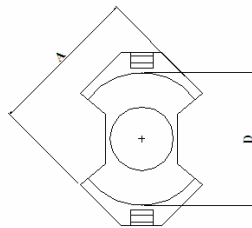
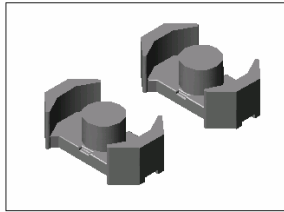


TYPE	Dimensions (mm)						
	A	B	C	D	E	F	G
EFD10	10.5 ± 0.3	5.2 ± 0.1	2.7 ± 0.1	4.55 ± 0.15	7.65 ± 0.25	3.75 ± 0.15	1.45 ± 0.05
EFD12	12.5 ± 0.3	6.2 ± 0.1	3.5 ± 0.1	5.4 ± 0.15	9.0 ± 0.25	4.55 ± 0.15	2.0 ± 0.1
EFD15	15.0 ± 0.4	7.5 ± 0.15	4.65 ± 0.15	5.3 ± 0.15	11.0 ± 0.35	5.5 ± 0.25	2.4 ± 0.1
EFD20	20.0 ± 0.6	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 ± 0.7	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 ± 0.25	9.1 ± 0.3	14.6 ± 0.3	22.4 ± 0.75	11.2 ± 0.75	4.9 ± 0.2

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N ²) ± 25%	
					SP4	Weight (g)
EFD10	3.29	7.2	23.7	171	500	0.9
EFD12	2.5	11.4	28.5	325	700	1.15
EED15	2.27	15	34	510	780	6.8
EFD20	1.52	31.0	47.0	1460	1200	7.4
EFD25	1.0	58.0	57.0	3300	1800	16.6
EFD30	0.99	69.0	68.0	4700	2050	24

SANLIN FERRITES

RM cores

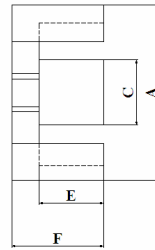
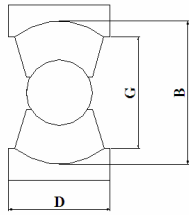
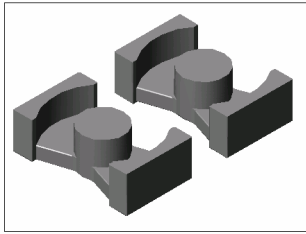


TYPE	Dimensions (mm)					
	A	B	C	D	E	F
RM4	9.8+0/-0.4	5.2 ± 0.1	11.6 ± 0.2	8.15 ± 0.2	3.9 ± 0-0.2	3.5 ± 0.2-0
RM5	12.3 ⁺⁰ _{-0.5}	5.2 ± 0.1	14.65 ± 0.25	10.4 ± 0.2	4.8 ± 0.1	3.25 ± 0.1
RM6	14.4 ± 0.3	6.2 ± 0.1	17.6 ± 0.3	12.65 ± 0.25	6.3 ± 0.1	4.1 ± 0.1
RM8	19.7 ⁺⁰ _{-0.7}	8.2 ± 0.1	23.2 ⁺⁰ _{-0.9}	17.0 ± 0.6-0	8.55 ± 0.-0.3	5.5 ± 0.1
RM10	24.5 ± 0.55	9.3 ± 0.1	27.85 ± 0.65	21.65 ± 0.45	10.7 ± 0.2	6.35 ± 0.15
RM12	29.2 ± 0.6	11.75 ± 0.1	36.75 ± 0.65	25.5 ± 0.5	12.8 ± 0-0.4	8.55 ± 0.15
RM14	34.2 ± 0.5	14.4 ± 0.1	41.6 ± 0.6	29.5 ± 0.5	14.75 ± 0.25	10.55 ± 0.15

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	ALmin(nH/N ²)		Weight (g)
					SP3	SP4	
RM4	1.62	13.9	22.5	313	720	680	1.7
RM5	0.94	23.8	22.3	530	1350	1250	3.2
RM6	0.78	37	29.0	1050	1720	1600	5.5
RM8	0.59	64.0	38.0	2400	2200	1950	12.5
RM10	0.453	98	44.0	4310	3900	3630	23
RM12	0.40	140	56.9	7960	4500	4150	42
RM14	0.40	178	71.0	12600	5000	4600	70

SANLIN FERRITES

PQ cores



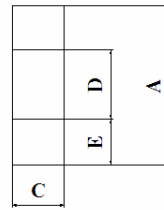
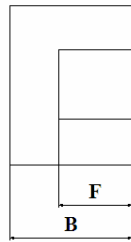
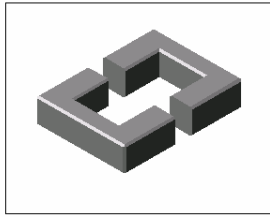
Dimensions (mm)

TYPE	Dimensions (mm)						
	A	B	C	D	E	F	G min
PQ20/16	20.5± 0.4	18.0± 0.4	8.8± 0.2	14.0± 0.4	5.0+0.3/-0	8.0+0.2/-0	12.0
PQ20/20	20.5± 0.4	18.0± 0.4	8.8± 0.2	14.0± 0.4	7.0+0.3/-0	10.2+0/-0.2	12.0
PQ26/20	26.5± 0.45	22.5± 0.45	12.0± 0.2	19.0± 0.45	5.75± .0.15	9.95+0.25/-0	15.5
PQ26/25	26.5± 0.45	22.5± 0.45	12.0± 0.2	19.0± 0.45	8.05±0.15	12.5+0/-0.25	15.5
PQ32/20	32.5± 0.5	27.5± 0.5	13.45± 0.25	22.0± 0.5	5.75± 0.15	10.4+0/-0.25	19.0
PQ32/30	32.5± 0.5	27.5± 0.5	13.45± 0.25	22.0± 0.5	10.5+0.3/-0	15.3+0/-0.3	19.0

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N2) ± 25%		Weight(g)
					SP3	SP4	
PQ20/16	0.605	62.0	37.4	2310	3880	3430	13
PQ20/20	0.738	62.0	45.4	2790	3310	2920	15
PQ26/20	0.391	119	46.3	5490	6170	5510	31
PQ26/25	0.472	118	55.5	6530	5250	4670	36
PQ32/20	0.326	170	55.5	9420	6940	6200	42
PQ32/30	0.464	161	74.6	12000	5880	4900	55

SANLIN FERRITES

UF cores

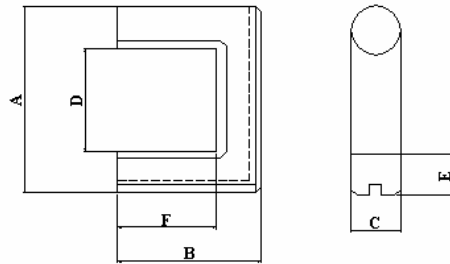
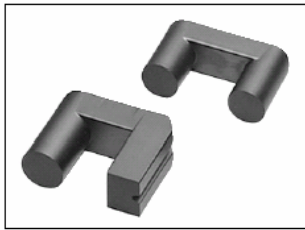


TYPE	Dimensions (mm)					
	A	B	C	D min	E	F
UF8.6	8.6 ± 0.2	6.45 ± 0.2	3.6 ± 0.2	4.0	2.2 ± 0.15	4.2 ± 0.2
UF9.8	9.8 ± 0.3	7.1 ± 0.2	2.9 ± 0.2	4.1	2.9 ± 0.2	4.3 ± 0.2
UF10.5	10.5 ± 0.3	7.8 ± 0.45	5.0 ± 0.2	5.2	2.4 ± 0.2	5.3 ± 0.3
UF16	16.0+0.4/-0.2	10.0 ± 0.3	6.0 ± 0.2	6.7	4.6 ± 0.2	6.0 ± 0.3
UF20	19.7 ± 0.3	17.7 ± 0.2	6.0 ± 0.2	7.4	6.0 ± 0.2	11.7 ± 0.2

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N2) ± 25%			Weight(g)
					SL5	SL7	SL10	
UF8.6	4.1	7.8	32.2	251.9		960	1500 min	1.3
UF9.8	4.3	8.1	34.33	275.9	1300	1500	1800 min	1.4
UF10.5	4.15	8.6	35.7	307		1005	1100 min	1.5
UF16	1.97	27.2	51.9	1412.6	2600	3300	4000 min	7.4
UF20	2.25	36.0	81.0	2916	2100	2750	3800 min	15

SANLIN FERRITES

UYF & UY cores

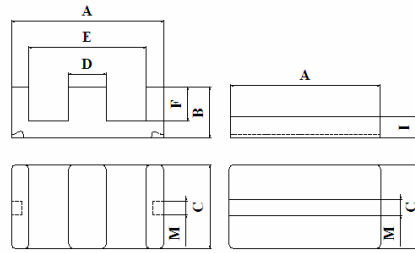
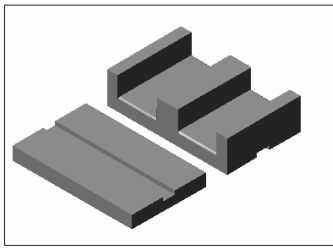


TYPE	Dimensions (mm)					
	A	B	C	D min	E	F
UYF9.8	33.0 ± 0.5	22.3 ± 0.3	9.8 ± 0.4	12.0	9.4 ± 0.4	14.5 ± 0.3
UYF14	4.08 ± 0.7	34.3 ± 0.3	14.5 ± 0.3	13.8	12.0 ± 0.3	22.3 ± 0.3

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	Weight(g)
UYF9.8	1.5	74	111.6	8241	44
UYF14	0.96	163.5	156.5	25587	132

SANLIN FERRITES

Planer E cores

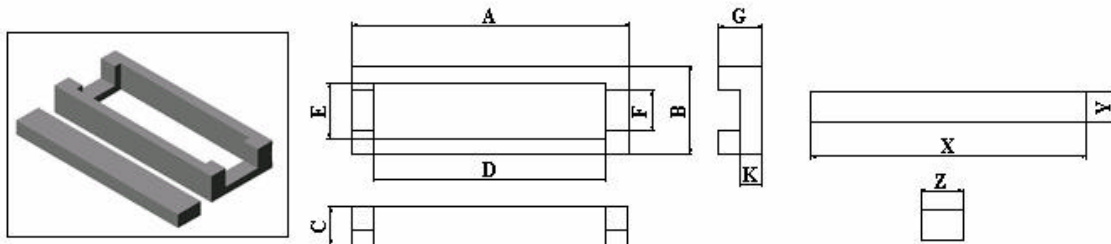


TYPE	Dimensions (mm)							
	A	B	C	D	E	F	I	M
E14/3.5/5R	14.0 ± 0.3	3.5 ± 0.1	5.0 ± 0.1	3.0 ± 0.05	11 ± 0.25	2.0 ± 0.1	1.5 ± 0.05	2.6 ± 0.1
E18/4/10R	18.3 ± 0.3	4.0 ± 0.1	10.0 ± 0.3	4.0 ± 0.1	14.0 ± 0.3	2.0 ± 0.1	2.0 ± 0.05	2.6 ± 0.1
E22/6/16R	21.8 ± 0.4	5.7 ± 0.2	15.8 ± 0.3	5.0 ± 0.1	16.8 ± 0.4	3.2 ± 0.2	2.9 ± 0.1	2.9 ± 0.1

TYPE	C1 mm-1	Ae mm ²	Le mm	Ve mm ³	AL(nH/N ²) ± 25%		Weight(g)
					SP4		
E14/3.5/5R	1.15	14.2	16.4	230	1500		1.1
E18/4/10R	0.514	39.5	20.3	800	2900		4.1
E22/6/16R	0.324	78.5	26.1	2100	5000		10.5

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UI cores



TYPE	Dimensions (mm)					
	A	B	C	D	E	F
UI8.3	27.4 ± 0.5	8.30 ± 0.2	2.95 ± 0.05	22.4 ± 0.5	6.5 ± 0.15	5.40 ± 0.1
UI29	$28.3+0/-0.6$	16.6 ± 0.25	3.7 ± 0.15	$20.3+0.3/-0$	$12.6+0.3/-0$	9.8 ± 0.2
UI9.8	23.8 ± 0.3	16.6 ± 0.25	3.7 ± 0.15	$20.3+0.3/-0$	$12.6+0.3/-0$	9.8 ± 0.2
UI15	19.7 ± 0.3	14.8 ± 0.3	4.6 ± 0.1	15.6 ± 0.3	11.4 ± 0.25	7.0 ± 0.1
UI12	21.0 ± 0.2	11.8 ± 0.25	3.5 ± 0.1	16.2 ± 0.15	8.9 ± 0.2	7.0 ± 0.1

TYPE	Dimensions (mm)					AL(nH/N2) $\pm 25\%$
	G	K	X	Y	Z	
UI8.3	3.8 ± 0.2	1.05 ± 0.15	28.3 ± 0.5	3.85 ± 0.1	1.35 ± 0.03	250
UI29	-	1.8 ± 0.1	$28.3+0.6/-0$	7.9 ± 0.2	1.9 ± 0.1	450
UI9.8	4.3 ± 0.1	1.30 ± 0.1	24.1 ± 0.3	4.4 ± 0.1	2.0 ± 0.05	370
UI15	4.6 ± 0.1	1.8 ± 0.05	19.9 ± 0.3	4.45 ± 0.15	4.45 ± 0.15	500
UI12	4.0 ± 0.1	1.2 ± 0.1	21.8 ± 0.3	5.5 ± 0.2	1.8 ± 0.1	400



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IF YOU NEED OTHER TYPE OF CORES,PLEASE CONTACT US!

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