

E CORES

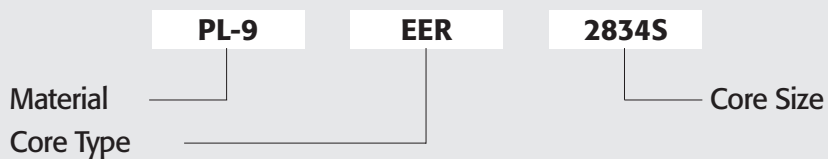
EE05 ~ EE80

EI13 ~ EI70

EER09 ~ EER60

EED28 ~ EED42

Ordering Code System

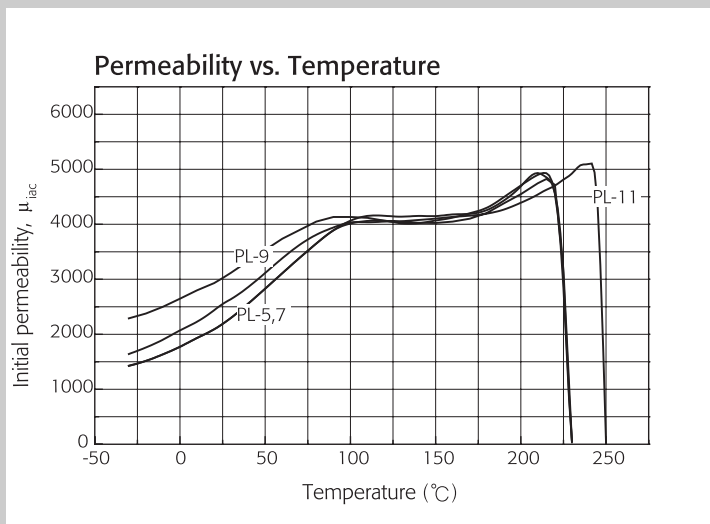
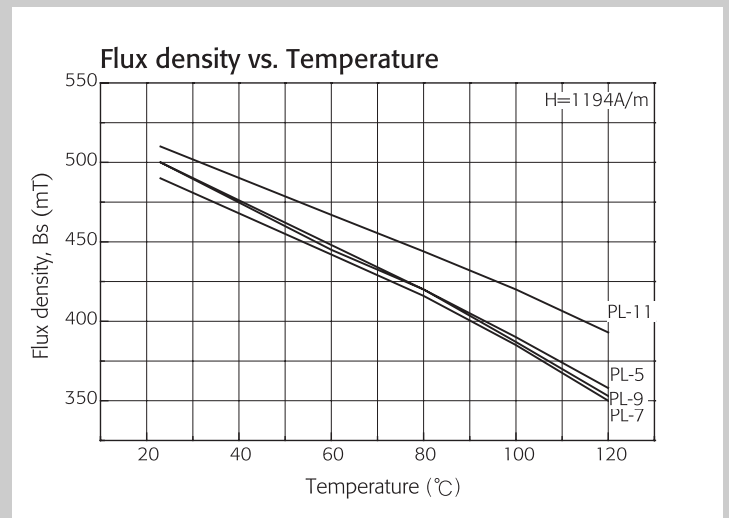
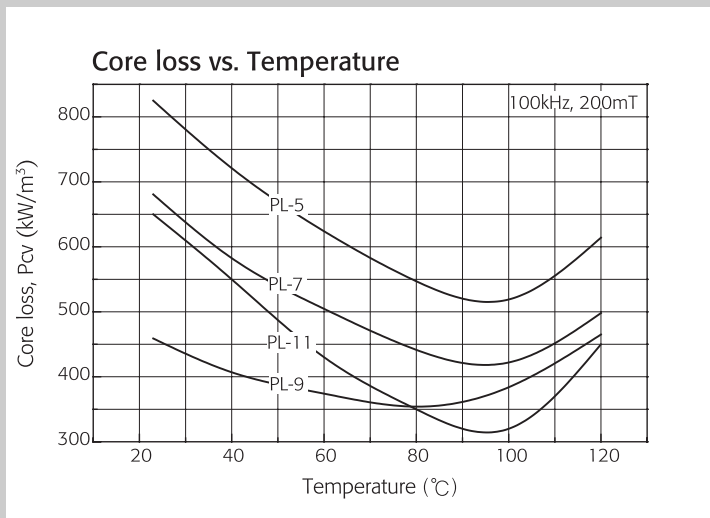


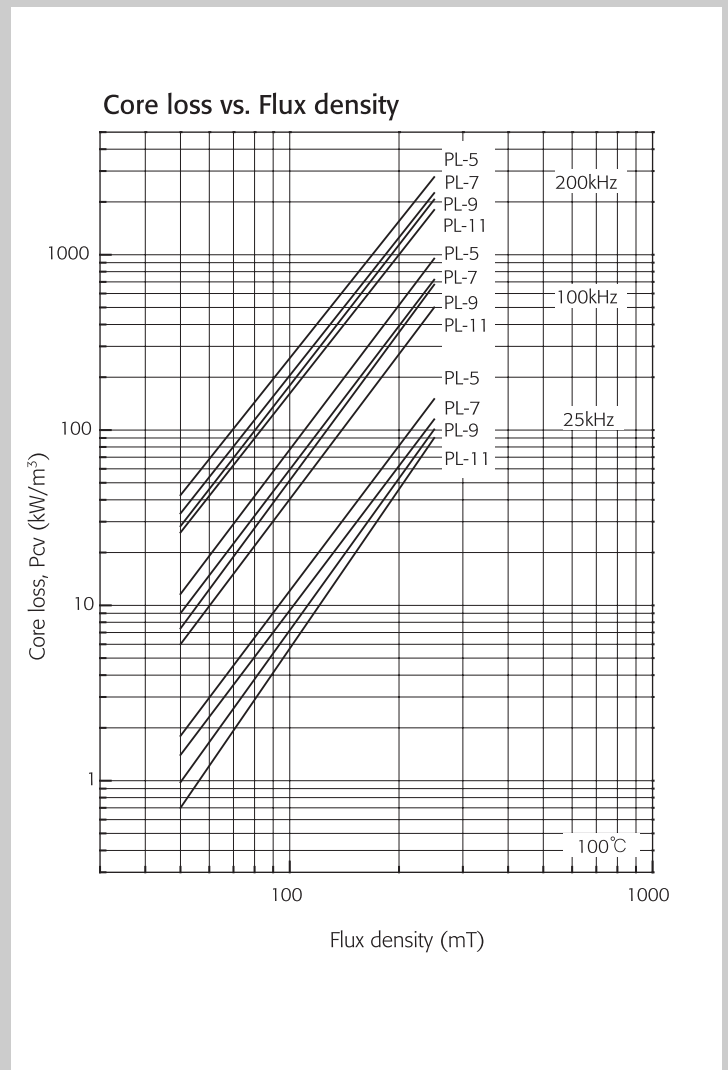
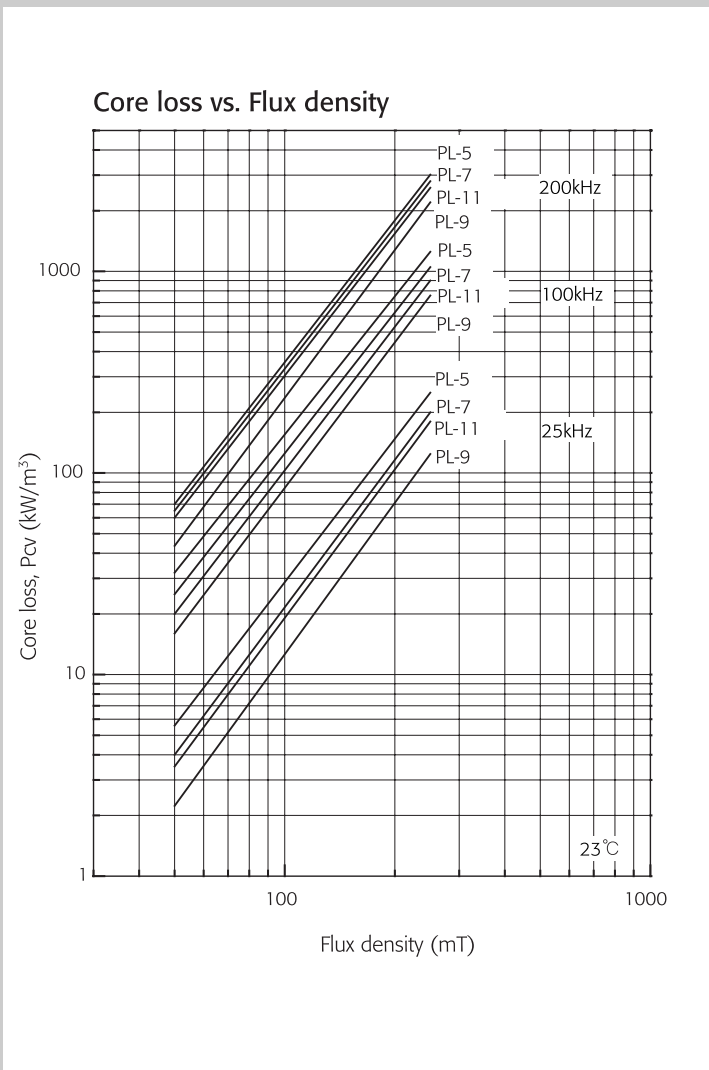
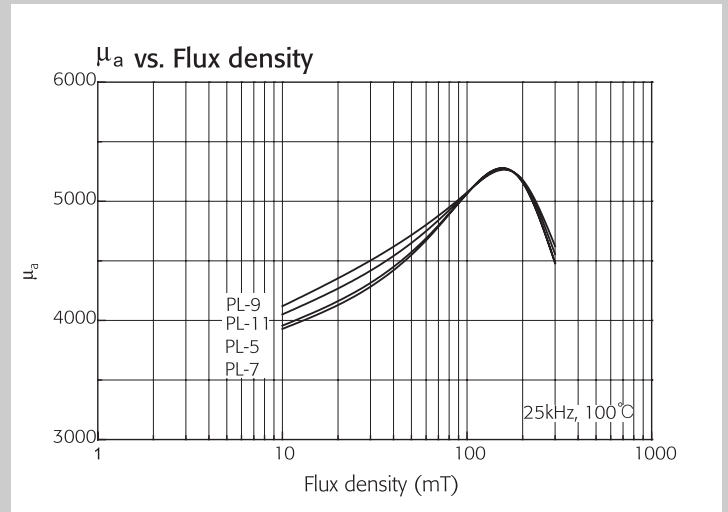
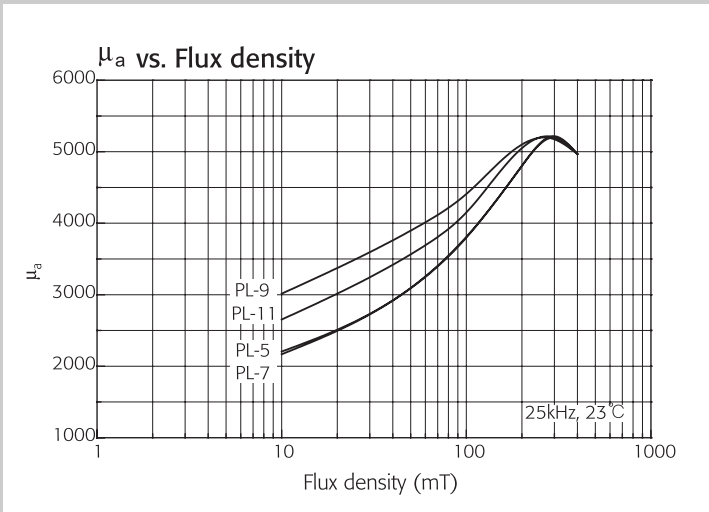
MATERIAL CHARACTERISTICS

Power Materials

Materials			PL-5	PL-7	PL-9	PL-11	
Initial permeability	μ_{iac}		2400±25%	2400±25%	3000±25%	2500±25%	
Core loss (100kHz, 200mT)	P _{cv}	kW/m ³	23°C	800	650	450	650
			80°C	550	450	350	350
			100°C	500	410	390	320
Saturation flux density (1194A/m)	B _s	mT	23°C	500	490	500	510
			100°C	390	380	380	420
Remanence	B _r	mT	23°C	180	150	150	130
Coercivity	H _c	A/m	23°C	15	12	10	10
Curie temperature	T _c	°C	> 220	> 220	> 220	> 220	
Density	d	kg/m ³	4.85 × 10 ³	4.85 × 10 ³	4.85 × 10 ³	4.85 × 10 ³	
Resistivity	ρ	Ω·m	6	5	7	5	

Note: 1) Typical values
 2) The values were obtained with toroidal cores(30×8-20H) at room temperature unless indicated otherwise.

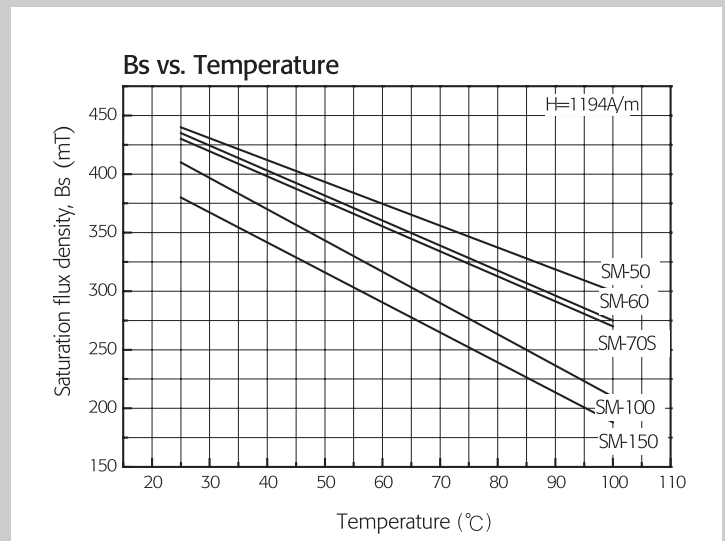
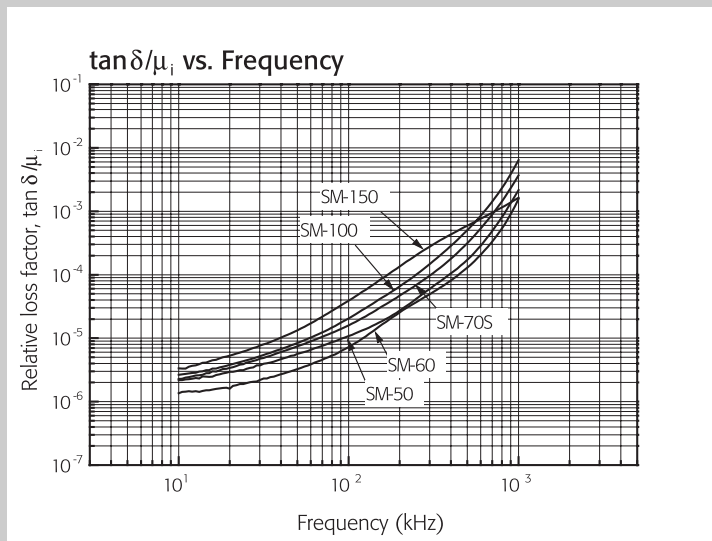
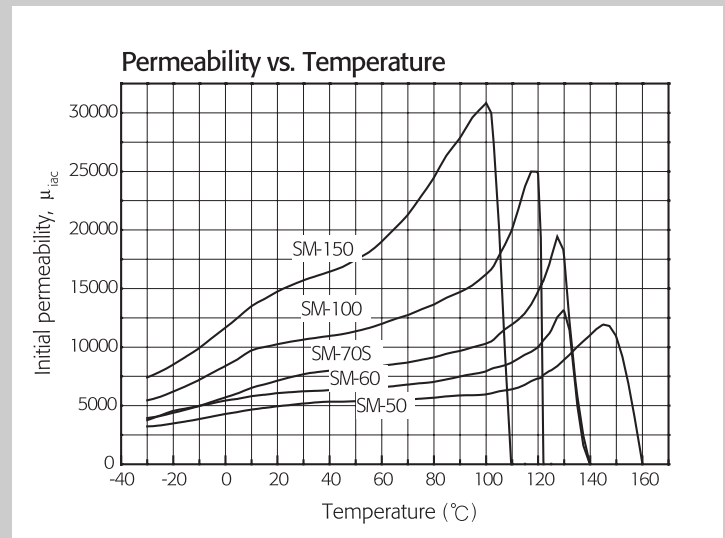
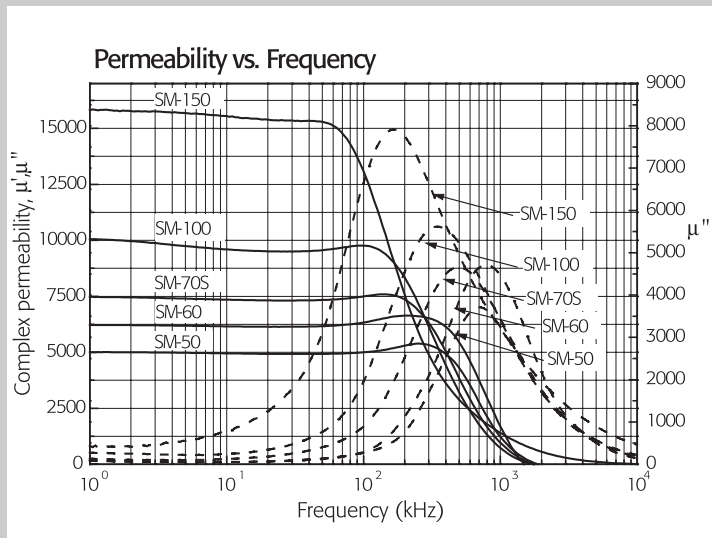




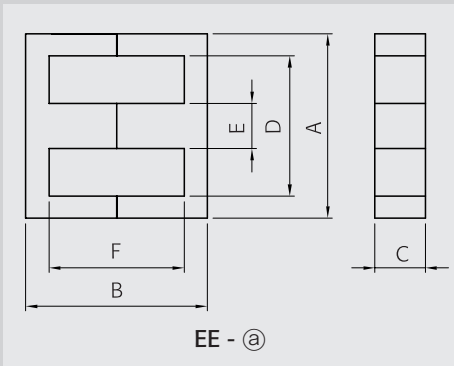
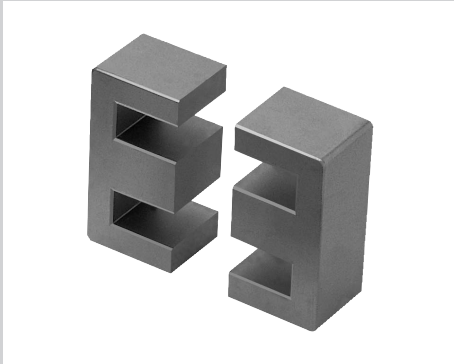
High Permeability Materials

Materials			SM-50	SM-60	SM-70S	SM-100	SM-150
Initial permeability	μ_{iac}		5000±25%	6000±25%	7500±25%	10000±30%	15000±30%
Relative loss factor	$\tan \delta / \mu_{iac}$	$\times 10^{-6}$	< 10(f:100kHz)	< 10(f:100kHz)	< 20(f:100kHz)	< 3(f:10kHz)	< 5(f:10kHz)
Saturation flux density (1194A/m)	Bs	mT	440	430	430	410	360
Remanence	Br	mT	110	100	100	90	90
Coercivity	Hc	A/m	10	6	6	5	4.5
Relative temp. factor (20~60°C)	$\alpha_{\mu r}$	$\times 10^{-6}/^{\circ}\text{C}$	-0.15~1.0	-0.1~1.0	-0.1~1.0	-0.15~2.0	-0.5~2.0
Curie temperature	Tc	°C	> 150	> 130	> 130	> 120	> 100
Density	d	kg/m ³	4.85 × 10 ³	4.90 × 10 ³	4.90 × 10 ³	4.90 × 10 ³	4.90 × 10 ³
Resistivity	ρ	$\Omega \cdot \text{m}$	1	1	0.3	0.2	0.15

Note: 1) Typical values
 2) The values were obtained with toroidal cores(30×8-20H) at room temperature unless indicated otherwise.



EE CORES



Part No.		EE0505S	EE0606S	EE0808S	EE0908S
Type		EE - (a)	EE - (a)	EE - (a)	EE - (a)
Dimensions in mm	A	5.25 ±0.20	6.10 ±0.20	8.30 ±0.20	8.90 ±0.30
	B	5.30 ±0.10	5.70 ±0.10	8.00 ±0.20	8.12 ±0.26
	C	1.95 ±0.10	1.95 ±0.10	3.60 ±0.20	1.90 ±0.13
	D	3.85 ref.	3.70 ±0.10	6.35 ±0.20	5.30 ±0.30
	E	1.35 ±0.10	1.35 ±0.10	2.00 ±0.15	1.90 ±0.13
	F	4.00 ref.	3.80 ±0.10	6.00 ±0.20	4.32 ±0.26

Core Set Parameters		EE0505S	EE0606S	EE0808S	EE0908S
C1(mm ³)		4.780	3.700	2.960	3.130
Le(mm)		12.6	12.2	19.7	15.7
Ae(mm ²)		2.6	3.3	6.7	5.0
Ve(mm ³)		33	40	131	78
Ac(mm ²)		2.6	2.6	6.0	3.6
Aw(mm ²)		5.0	4.5	14	7.3
W(g/set)		0.2	0.2	0.7	0.5

Electrical Characteristics ⁽¹⁾⁽²⁾		AL value	Core loss			
			PL-5	PL-7	PL-9	PL-11
Core loss	AL value	PL-5	285	405	590	540
		PL-7	285	405	590	540
		PL-9	355	450	670	610
		PL-11	300	410	600	550
		SM-50	450	600	900	810
		SM-60	540	720	1080	970
		SM-70S	530	760	1100	1000
		SM-100	830	1200	1550	1550
Core loss	Core loss	PL-5	0.03	0.03	0.09	0.07
		PL-7	0.02	0.02	0.08	0.05
		PL-9	0.02	0.02	0.06	0.04
		PL-11	0.02	0.02	0.06	0.04

Note : 1) Core loss

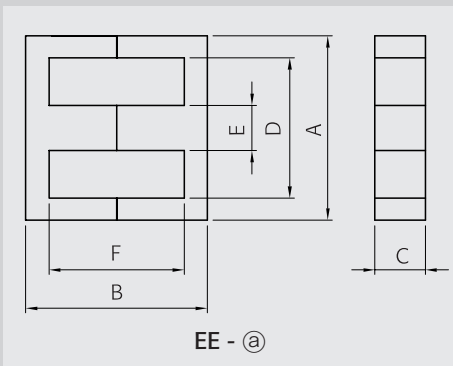
- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25% (SM-100 Mirror-grind :±30%)

	EE1010S	EE1011S	EE1308S	EE1312N	EE1312S	EE1313S	EE1612S	EE1614S	EE1616S	
	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	
A	10.30 ±0.20	10.20 $\begin{smallmatrix} +0.30 \\ -0.10 \end{smallmatrix}$	12.70 $\begin{smallmatrix} +0 \\ -0.35 \end{smallmatrix}$	13.00 ±0.30	13.00 ±0.30	12.60 $\begin{smallmatrix} +0.50 \\ -0.40 \end{smallmatrix}$	16.10 ±0.60	16.00 ±0.30	16.10 ±0.60	
B	10.20 ±0.20	11.00 $\begin{smallmatrix} +0.30 \\ -0.20 \end{smallmatrix}$	7.84 $\begin{smallmatrix} +0.10 \\ -0.20 \end{smallmatrix}$	12.30 ±0.30	12.00 ±0.30	13.00 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	11.60 ±0.30	14.20 $\begin{smallmatrix} +0.40 \\ 0 \end{smallmatrix}$	16.10 ±0.30	
C	2.80 ±0.20	4.90 $\begin{smallmatrix} +0 \\ -0.30 \end{smallmatrix}$	6.50 $\begin{smallmatrix} +0 \\ -0.35 \end{smallmatrix}$	6.40 $\begin{smallmatrix} +0.20 \\ -0.10 \end{smallmatrix}$	5.90 ±0.20	3.70 $\begin{smallmatrix} +0 \\ -0.30 \end{smallmatrix}$	7.25 ±0.25	5.00 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	4.50 ±0.20	
D	7.90 ±0.20	7.80 $\begin{smallmatrix} +0.30 \\ -0.10 \end{smallmatrix}$	10.50 ±0.20	10.20 $\begin{smallmatrix} +0.30 \\ -0.10 \end{smallmatrix}$	10.20 ±0.20	8.90 $\begin{smallmatrix} +0.60 \\ 0 \end{smallmatrix}$	11.60 ±0.30	12.00 ±0.30	11.30 min.	
E	2.30 ±0.20	2.40 ±0.20	3.18 ±0.10	3.80 $\begin{smallmatrix} +0.05 \\ -0.25 \end{smallmatrix}$	3.18 ±0.10	3.70 $\begin{smallmatrix} +0 \\ -0.30 \end{smallmatrix}$	4.55 ±0.15	4.00 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	4.55 ±0.15	
F	7.90 ±0.20	8.60 $\begin{smallmatrix} +0.30 \\ -0.20 \end{smallmatrix}$	5.75 ±0.20	8.60 ±0.15	5.75 ±0.20	9.00 $\begin{smallmatrix} +0.60 \\ 0 \end{smallmatrix}$	7.50 ±0.40	10.40 $\begin{smallmatrix} +0.50 \\ 0 \end{smallmatrix}$	11.80 ±0.40	
Cl(mm³)	3.830	2.330	1.550	1.374	1.883	2.390	0.911	1.921	1.930	
Le(mm)	25.0	26.6	21.8	28.6	30.3	29.7	28.8	35.5	37.7	
Ae(mm²)	6.5	11.4	14.0	20.8	16.0	12.4	31.6	18.4	19.5	
Ve(mm³)	163	302	305	595	487	369	909	655	737	
Ac(mm²)	6.4	11.4	20.1	23.8	15.3	12.6	33.0	18.2	20.4	
Aw(mm²)	22.1	23.7	21.0	28.3	34.9	26.2	26.4	43.6	43.3	
W(g/set)	0.8	1.5	1.6	3.1	2.4	1.8	4.7	3.2	3.7	
Al value	PL-5	430	810	1250	1450	1000	810	2300	1100	1100
	PL-7	430	810	1250	1450	1000	810	2300	1100	1100
	PL-9	480	940	1430	1650	1200	940	2700	1300	1300
	PL-11	440	800	1300	1500	1000	800	2400	1200	1200
	SM-50	750	1400	2000	2350	1750	1350	4200	1900	2000
	SM-60	900	1680	2400	2820	2100	1620	5040	2280	2400
	SM-70S	1000	1750	2500	3000	2200	1700	7560	2300	2600
	SM-100	1700	2500	3650	4500	3350	2600	8200	3400	3550
Core loss	PL-5	0.11	0.20	0.20	0.36	0.30	0.23	0.54	0.40	0.45
	PL-7	0.09	0.16	0.16	0.30	0.25	0.19	0.45	0.33	0.38
	PL-9	0.08	0.14	0.14	0.27	0.22	0.17	0.41	0.30	0.31
	PL-11	0.08	0.14	0.14	0.27	0.22	0.17	0.41	0.30	0.31

EE CORES



Part No.		EE1625S	EE1916B	EE1916S	EE1927S
Type		EE - (a)	EE - (a)	EE - (a)	EE - (a)
Dimensions in mm	A	16.00 ±0.40	19.00 ±0.30	19.00 ±0.30	19.00 ±0.30
	B	24.50 ±0.40	15.90 ±0.40	16.10 ±0.40	27.30 ±0.50
	C	5.10 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	5.10 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	5.20 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	5.10 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$
	D	12.00 ±0.30	4.00 ±0.30	14.50 ±0.30	14.00 ±0.30
	E	4.20 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	5.10 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	4.70 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	5.10 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$
	F	20.40 ±0.40	11.30 ±0.30	11.30 ±0.30	22.80 ±0.50

Core Set Parameters		EE1625S	EE1916B	EE1916S	EE1927S
C1(mm ³)		2.800	1.680	1.743	2.650
Le(mm)		55.2	39.2	39.9	62.1
Ae(mm ²)		19.6	23.3	22.8	23.4
Ve(mm ³)		1080	914	913	1450
Ac(mm ²)		19.6	23.5	22.2	23.5
Aw(mm ²)		81.5	51.6	56.7	104.0
W(g/set)		5.3	4.6	4.6	7.2

Electrical Characteristics ⁽¹⁾⁽²⁾		AL value	EE1625S	EE1916B	EE1916S	EE1927S
			PL-5	750	1300	1250
		PL-7	750	1300	1250	840
		PL-9	900	1530	1480	1000
		PL-11	800	1400	1300	900
		SM-50	1550	2250	2250	1550
		SM-60	1860	2700	2700	1860
		SM-70S	1900	2800	2800	2050
		SM-100	2550	3850	3850	2750
Core loss		PL-5	0.65	0.55	0.55	0.87
		PL-7	0.54	0.46	0.46	0.73
		PL-9	0.45	0.38	0.38	0.60
		PL-11	0.45	0.38	0.38	0.60

Note : 1) Core loss

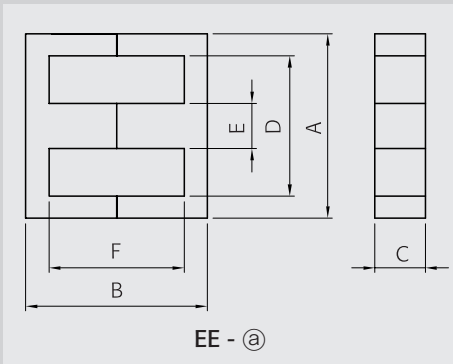
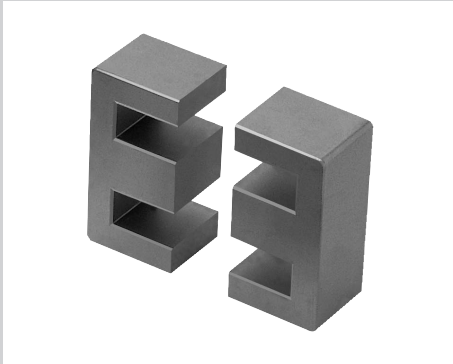
- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25% (SM-100 Mirror-grind :±30%)

	EE2017S	EE2020A	EE2020S	EE2027S	EE2218S	EE2219S	EE2220S	EE2229S	EE2329S	
	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	
A	20.30 ±0.40	20.00 $\begin{smallmatrix} +0.70 \\ -0.40 \end{smallmatrix}$	20.40 $\begin{smallmatrix} +0 \\ -0.80 \end{smallmatrix}$	20.00 ±0.40	22.00 ±0.40	22.00 ±0.40	22.10 ±0.40	22.00 ±0.40	23.00 ±0.40	
B	16.80 ±0.40	20.40 $\begin{smallmatrix} +0 \\ -0.80 \end{smallmatrix}$	20.20 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	27.30 ±0.50	18.90 ±0.40	18.60 ±0.40	19.80 ±0.30	29.40 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	29.40 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	
C	4.80 ±0.20	5.30 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	5.90 $\begin{smallmatrix} +0 \\ -0.40 \end{smallmatrix}$	5.10 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	6.00 $\begin{smallmatrix} +0 \\ -0.60 \end{smallmatrix}$	6.00 $\begin{smallmatrix} +0 \\ -0.60 \end{smallmatrix}$	5.00 ±0.25	6.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	6.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	
D	15.70 ±0.40	14.10 ±0.30	14.10 ±0.30	15.00 ±0.40	16.00 ±0.40	14.00 ±0.30	17.60 ±0.30	16.00 ±0.40	17.00 ±0.40	
E	4.80 ±0.20	5.90 $\begin{smallmatrix} +0 \\ -0.30 \end{smallmatrix}$	5.90 $\begin{smallmatrix} +0 \\ -0.30 \end{smallmatrix}$	5.10 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	6.00 $\begin{smallmatrix} +0 \\ -0.60 \end{smallmatrix}$	6.00 $\begin{smallmatrix} +0 \\ -0.60 \end{smallmatrix}$	4.00 ±0.30	6.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	6.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	
F	12.40 ±0.40	14.00 $\begin{smallmatrix} +0.60 \\ -0 \end{smallmatrix}$	14.00 $\begin{smallmatrix} +0.60 \\ -0 \end{smallmatrix}$	22.80 ±0.50	10.90 ±0.30	10.60 ±0.30	15.20 ±0.30	21.40 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	21.40 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	
Cl(mm³)	1.943	1.420	1.431	2.700	1.143	1.016	2.340	1.787	1.809	
Le(mm)	42.8	43.4	46.1	63.1	42.3	40.2	50.8	63.9	64.9	
Ae(mm²)	22.0	30.5	32.2	23.3	37.0	39.5	21.6	35.7	35.8	
Ve(mm³)	942	1320	1480	1470	1565	1590	1100	2280	2320	
Ac(mm²)	23.0	25.5	32.7	23.5	34.2	32.4	20.0	33.0	33.0	
AW(mm²)	67.5	53.3	61.8	115.0	55.9	43.9	103.0	111.0	122.0	
W(g/set)	4.7	7.3	7.5	7.3	8.5	8.7	5.5	11	12	
Al value	PL-5	1100	1550	1540	830	1900	2200	950	1300	1250
	PL-7	1100	1550	1540	830	1900	2200	950	1300	1250
	PL-9	1300	1850	1830	1000	2300	2500	1100	1450	1400
	PL-11	1200	1600	1600	900	2000	2300	1000	1400	1300
	SM-50	2000	2800	2800	1550	3380	3800	1800	2400	2400
	SM-60	2400	3360	3360	1860	4050	4560	2160	2880	2880
	SM-70S	2600	3600	3600	2050	4310	4850	2300	3300	3300
	SM-100	3500	4850	4850	2700	5910	6650	3000	4100	4100
Core loss	PL-5	0.57	0.80	0.89	0.89	0.91	0.96	0.66	1.37	1.40
	PL-7	0.48	0.67	0.74	0.74	0.77	0.80	0.55	1.15	1.16
	PL-9	0.39	0.55	0.61	0.61	0.71	0.66	0.46	0.94	0.96
	PL-11	0.39	0.55	0.61	0.61	0.71	0.66	0.46	0.94	0.96

EE CORES



Part No.		EE2518W	EE2519S	EE2520S	EE2520ST
Type		EE - (a)	EE - (a)	EE - (a)	EE - (a)
Dimensions in mm	A	25.05 ±0.75	25.40 ±0.40	25.00 ±0.40	25.40 ±0.40
	B	18.10 ±0.50	19.05 ±0.40	20.00 ±0.40	19.95 ±0.40
	C	10.75 ±0.30	6.35 ±0.30	6.55 ±0.30	6.35 ±0.30
	D	17.90 ±0.40	19.00 ±0.30	18.60 ±0.30	19.00 ±0.30
	E	7.25 ±0.25	6.35 ±0.30	6.55 ±0.30	6.35 ±0.30
	F	10.90 ±0.30	12.70 ±0.30	13.60 ±0.30	13.60 ±0.30

Core Set Parameters		EE2518W	EE2519S	EE2520S	EE2520ST
C1(mm ³)		0.567	1.189	1.169	1.233
Le(mm)		43.8	48.0	49.4	49.8
Ae(mm ²)		77.3	40.4	42.2	40.4
Ve(mm ³)		3386	1940	2080	2010
Ac(mm ²)		77.9	40.3	42.9	40.3
Aw(mm ²)		58.0	80.3	81.9	86.0
W(g/set)		17	9.8	10	10

Electrical Characteristics ⁽¹⁾⁽²⁾		AL value	EE2518W	EE2519S	EE2520S	EE2520ST
			PL-5	4200	1900	1950
		PL-7	4200	1900	1950	1850
		PL-9	4900	2200	2300	2150
		PL-11	4300	2000	2000	1900
		SM-50	7130	3400	3550	3400
		SM-60	8560	4080	4260	4080
		SM-70S	9330	4450	4450	4400
		SM-100	12370	5900	6000	5700
Core loss		PL-5	2.00	1.17	1.25	1.21
		PL-7	1.70	0.97	1.05	1.01
		PL-9	1.56	0.80	0.86	0.83
		PL-11	1.56	0.80	0.86	0.83

Note : 1) Core loss

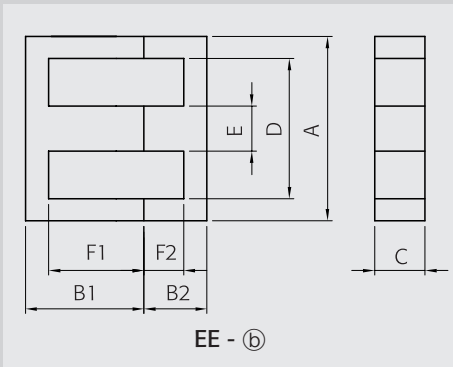
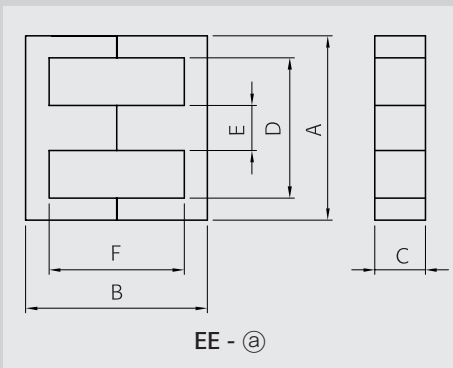
- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25% (SM-100 Mirror-grind :±30%)

	EE2525F	EE2525S	EE2525W	EE2532B	EE2532S	EE2621S	EE2721S	EE2722S	EE2821S	
	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	
A	25.05 ±0.75	24.50 ±0.40	25.05 ±0.75	25.30 $\begin{smallmatrix} +0.50 \\ -0.30 \end{smallmatrix}$	25.30 $\begin{smallmatrix} +0.50 \\ -0.30 \end{smallmatrix}$	26.00 ±0.50	27.00 ±0.50	27.00 ±0.50	28.00 ±0.40	
B	25.10 ±0.50	25.00 ±0.40	25.10 ±0.50	31.60 $\begin{smallmatrix} +0.60 \\ -0.30 \end{smallmatrix}$	32.00 ±0.40	21.10 ±0.40	21.10 ±0.40	22.00 ±0.40	21.00 ±0.50	
C	7.20 ±0.30	7.00 ±0.30	10.75 ±0.30	6.35 ±0.25	7.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	10.00 ±0.50	11.00 ±0.50	11.00 ±0.50	11.50 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	
D	17.90 ±0.40	17.90 ±0.40	17.90 ±0.40	19.30 $\begin{smallmatrix} +0.40 \\ -0.20 \end{smallmatrix}$	19.30 $\begin{smallmatrix} +0.40 \\ -0.20 \end{smallmatrix}$	19.00 min.	19.20 min.	19.20 min.	19.30 ±0.30	
E	7.25 ±0.25	7.30 ±0.20	7.25 ±0.25	6.50 $\begin{smallmatrix} +0.30 \\ -0.25 \end{smallmatrix}$	6.50 $\begin{smallmatrix} +0.30 \\ -0.25 \end{smallmatrix}$	7.30 ±0.50	7.30 ±0.50	7.30 ±0.50	8.00 ±0.30	
F	17.90 ±0.50	18.40 ±0.40	17.90 ±0.50	25.40 ±0.60	25.40 ±0.60	13.60 ±0.40	13.60 ±0.40	14.50 ±0.40	11.40 ±0.50	
Cl(mm³)	1.114	1.212	0.746	1.844	1.744	0.728	0.632	0.654	0.492	
Le(mm)	57.8	57.8	57.8	73.5	73.9	50.9	51.2	53.0	48.0	
Ae(mm²)	51.8	47.7	77.3	39.8	42.3	69.9	81.1	81.1	97.5	
Ve(mm³)	2990	2760	4470	2930	3130	3558	4152	4297	4680	
Ac(mm²)	52.1	51.1	77.9	41.4	44.0	73.0	84.3	84.3	89.1	
AW(mm²)	95.3	97.5	95.3	163.0	164.0	83.0	84.3	86.1	64.4	
W(g/set)	15	14	22	14	16	22	21	22	24	
Al value	PL-5	2100	1850	3150	1200	1300	2900	3300	3200	4350
	PL-7	2100	1850	3150	1200	1300	2900	3300	3200	4350
	PL-9	2350	2150	3500	1400	1500	3400	3800	3700	5050
	PL-11	2200	1900	3300	1300	1400	3000	3400	3300	4500
	SM-50	4000	3300	5800	2500	2640	6040	6960	6720	8940
	SM-60	4800	3960	6960	3000	3170	7250	8350	8070	10730
	SM-70S	4900	4300	7500	3300	3440	8420	9700	9370	12460
	SM-100	6500	6000	9700	4100	4340	9490	10940	10500	14050
Core loss	PL-5	1.80	1.66	2.70	1.76	1.85	2.12	2.50	2.60	2.81
	PL-7	1.50	1.38	2.25	1.47	1.57	1.80	2.13	2.23	2.35
	PL-9	1.23	1.14	1.85	1.21	1.44	1.66	1.92	2.01	1.92
	PL-11	1.23	1.14	1.85	1.21	1.44	1.66	1.92	2.01	1.92

EE CORES



Part No.		EE2821SC	EE2825S	EE2828S	EE2834S
Type		EE - (a)	EE - (a)	EE - (a)	EE - (a)
Dimensions in mm	A	28.50 ±0.50	28.00 ±0.50	28.40 ±0.40	28.00 ±0.40
	B	20.90 ±0.40	25.50 ±0.60	28.40 ±0.40	34.60 ±0.40
	C	10.90 ±0.30	10.60 ±0.20	10.70 ±0.30	11.00 ⁺⁰ _{-0.60}
	D	20.50 ±0.30	18.60 min.	20.40 ±0.40	18.60 min.
	E	7.30 ±0.30	7.20 ±0.30	7.20 ±0.30	7.50 ⁺⁰ _{-0.60}
	F	13.30 ±0.40	16.50 ±0.40	19.40 ±0.40	25.60 ±0.40

Core Set Parameters		EE2821SC	EE2825S	EE2828S	EE2834S
C1(mm ³)		0.623	0.664	0.762	0.867
Le(mm)		51.7	57.7	64.6	75.6
Ae(mm ²)		82.9	86.9	84.7	87.1
Ve(mm ³)		4290	5010	5470	6580
Ac(mm ²)		79.5	76.3	77.0	77.0
Aw(mm ²)		87.7	98.1	128.0	151.0
W(g/set)		21	26	28	28

Electrical Characteristics ⁽¹⁾⁽²⁾		EE2821SC	EE2825S	EE2828S	EE2834S
AL value	PL-5	3500	3300	3000	2600
	PL-7	3500	3300	3000	2600
	PL-9	4050	3850	3400	3050
	PL-11	3700	3400	3100	2700
	SM-50	7060	6630	5770	5070
	SM-60	8470	7950	6930	6090
	SM-70S	9840	9230	8040	7070
	SM-100	11100	10410	9070	7970
Core loss	PL-5	2.58	3.01	3.30	3.95
	PL-7	2.15	2.51	2.75	3.30
	PL-9	1.76	2.06	2.25	2.70
	PL-11	1.76	2.06	2.25	2.70

Note : 1) Core loss

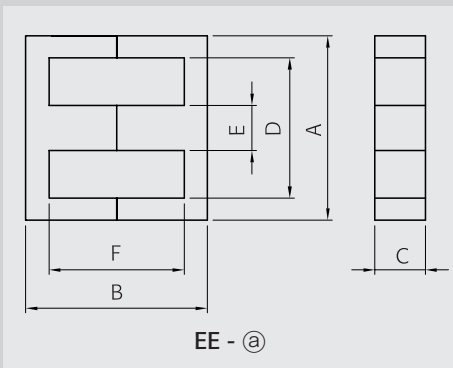
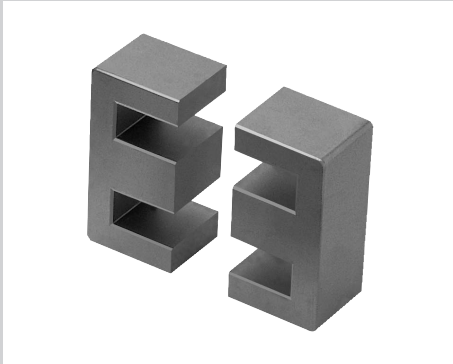
- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25% (SM-100 Mirror-grind :±30%)

	EE3026A	EE3026S	EE3030A	EE3030S	EE3232S	EE3327S	EE3335S	EE3528S	EE3529S	
	EE - (a)	EE - (a)	EE - (a)	EE - (a)	EE - (a)	EE - (a)	EE - (b)	EE - (a)	EE - (a)	
A	30.00 ±0.50	30.00 ±0.50	30.00 ±0.50	30.00 ±0.50	32.10 ±0.80	33.40 ±0.50	33.50 ±0.50	34.60 ±0.50	34.70 ±0.40	
B	26.00 ±0.50	26.60 ±0.40	30.40 ±0.60	30.00 ±0.20	32.20 ±0.60	27.40 ^{+1.0} ₋₀	B1: 21.60 ±0.20 B2: 13.30 ±0.20	28.60 ±0.60	28.75 ±0.40	
C	10.00 ⁺⁰ _{-0.60}	10.70 ±0.30	11.80 ±0.30	7.10 ±0.20	9.15 ±0.20	13.00 ⁺⁰ _{-0.60}	12.70 ±0.30	9.30 ±0.30	9.20 ^{+0.25} _{-0.30}	
D	20.00 ±0.40	19.50 min.	22.30 min.	19.90 ±0.40	23.20 ±0.50	24.60 ±0.40	24.60 ±0.40	25.60 ±0.50	25.40 ±0.40	
E	10.00 ⁺⁰ _{-0.60}	10.70 ±0.30	7.20 ±0.30	6.90 ±0.30	9.20 ±0.30	10.00 ⁺⁰ _{-0.60}	9.70 ±0.30	9.40 ±0.25	9.40 ±0.20	
F	16.00 ±0.30	16.60 ±0.30	23.20 ±0.60	19.90 ±0.50	23.00 ±0.60	18.80 ^{+1.0} ₋₀	F1: 17.10 ±0.20 F2: 8.80 ±0.20	19.60 ±0.50	19.25 ±0.40	
C1(mm³)	0.603	0.539	0.862	1.089	0.894	0.589	0.693	0.821	0.804	
Le(mm)	57.9	57.9	73.3	65.4	74.3	67.4	81.0	69.7	69.3	
Ae(mm²)	107.0	107.0	85.0	60.0	83.1	114.0	116.0	84.8	86.2	
Ve(mm³)	6210	6210	6231	3920	6180	7690	9450	5910	5970	
Ac(mm²)	114.0	114.0	85.0	48.9	84.1	123.0	123.0	87.4	86.2	
AW(mm²)	77.1	77.1	181.0	129.0	161.0	143.0	192.0	158.0	154.0	
W(g/set)	32	32	32	21	31	39	47	29	30	
Al value	PL-5	3550	4000	2400	2000	2400	3700	3300	2600	2850
	PL-7	3550	4000	2400	2000	2400	3700	3300	2600	2850
	PL-9	4150	4800	2800	2350	2850	4300	3700	3100	3250
	PL-11	3700	4200	2600	2100	2500	3900	3400	2700	3000
	SM-50	7300	8160	5100						
	SM-60	8760	9790	6120						
	SM-70S	10160	11370	7110						
	SM-100	11470	12830	8020						
Core loss	PL-5	3.35	3.75	3.74	2.36	3.71	4.62	5.70	3.55	3.60
	PL-7	2.78	3.11	3.18	1.96	3.10	3.85	4.75	2.96	3.00
	PL-9	2.28	2.55	2.87	1.61	2.54	3.16	3.90	2.43	2.45
	PL-11	2.28	2.55	2.87	1.61	2.54	3.16	3.90	2.43	2.45

EE CORES



Part No.		EE3530S	EE3549S	EE3643S	EE4035S
Type		EE - (a)	EE - (a)	EE - (a)	EE - (a)
Dimensions in mm	A	35.00 ±0.50	35.00 ±0.50	36.00 ±0.70	40.00 $^{+0.70}_{-0.50}$
	B	30.20 ±0.50	48.80 ±0.40	43.10 ±0.40	34.50 $^{+0.80}_{-0.20}$
	C	12.00 $^{+0}_{-0.50}$	10.00 ±0.30	11.75 ±0.25	12.00 $^{+0}_{-0.70}$
	D	25.00 ±0.40	24.50 min.	25.10 ±0.60	27.50 $^{+0.70}_{-0}$
	E	10.30 $^{+0}_{-0.50}$	10.00 ±0.30	9.95 ±0.25	12.00 $^{+0}_{-0.70}$
	F	18.20 ±0.30	36.60 ±0.40	32.10 ±0.60	20.40 $^{+0.20}_{-0.40}$

Core Set Parameters		EE3530S	EE3549S	EE3643S	EE4035S
C1(mm ³)		0.549	0.994	0.776	0.523
Le(mm)		68.3	104.0	96.0	77.1
Ae(mm ²)		124.0	104.0	123.0	147.0
Ve(mm ³)		8500	10900	11870	11370
Ac(mm ²)		118.0	100.0	116.0	135.0
Aw(mm ²)		136.0	270.0	243.0	164.0
W(g/set)		44	56	60	59

Electrical Characteristics ⁽¹⁾⁽²⁾		EE3530S	EE3549S	EE3643S	EE4035S	
AL value	PL-5	4000	2200	2850	4000	
	PL-7	4000	2200	2850	4000	
	PL-9	4700	2600	3300	4800	
	PL-11	4200	2300	3000	4200	
	Core loss	PL-5	5.10	6.55	7.15	6.85
		PL-7	4.30	5.50	6.00	5.70
		PL-9	3.50	4.50	4.90	4.70
		PL-11	3.50	4.50	4.90	4.70

Note : 1) Core loss

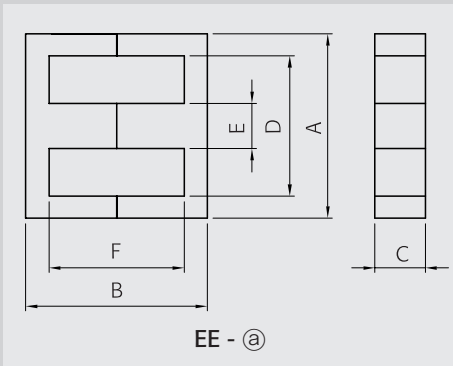
- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

	EE4133B	EE4133N	EE4133S	EE4242B	EE4242S	EE4740S	EE5040S	EE5555A	EE5555S	
	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	EE - @	
A	41.50 ±0.80	41.50 ±0.80	41.28 ±0.80	42.00 $\begin{smallmatrix} +1.00 \\ -0.70 \end{smallmatrix}$	42.00 $\begin{smallmatrix} +1.00 \\ -0.70 \end{smallmatrix}$	47.12 ±0.76	50.15 $\begin{smallmatrix} +0.70 \\ -0.50 \end{smallmatrix}$	55.15 ±1.05	55.15 ±1.05	
B	33.00 ±0.40	34.00 ±0.40	33.52 ±0.40	42.40 ±0.40	42.40 ±0.40	39.26 ±0.40	41.90 ±0.50	55.00 ±0.60	55.00 ±0.60	
C	12.70 ±0.25	12.70 ±0.25	12.70 ±0.25	15.00 ±0.30	20.00 $\begin{smallmatrix} +0 \\ -0.80 \end{smallmatrix}$	15.62 ±0.25	15.70 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	21.00 $\begin{smallmatrix} +0 \\ -0.80 \end{smallmatrix}$	24.70 ±0.30	
D	28.80 min.	29.00 min.	28.01 min.	29.50 $\begin{smallmatrix} +1.20 \\ -0 \end{smallmatrix}$	29.50 $\begin{smallmatrix} +1.20 \\ -0 \end{smallmatrix}$	31.72 min.	33.00 ±0.50	38.10 ±0.60	38.10 ±0.60	
E	12.50 ±0.20	12.50 ±0.20	12.70 ±0.25	12.20 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	12.20 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	15.62 ±0.25	15.70 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	16.95 ±0.25	16.95 ±0.25	
F	20.80 ±0.40	21.20 ±0.40	20.82 ±0.40	30.00 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	30.00 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	24.40 ±0.26	24.90 ±0.50	37.60 ±0.60	37.60 ±0.60	
Cl(mm³)	0.509	0.500	0.480	0.547	0.416	0.380	0.366	0.350	0.292	
Le(mm)	77.6	79.0	77.5	97.9	97.8	89.2	93.3	123.0	123.0	
Ae(mm²)	152.5	157.0	161.3	178.0	235.0	234.0	254.0	352.0	422.0	
Ve(mm³)	11825	12470	12501	17510	23000	20920	23790	43470	52130	
Ac(mm²)	158.0	158.0	151.8	176.0	234.0	228.0	238.0	349.0	418.0	
Aw(mm²)	177.8	180.0	164.6	278.0	275.0	205.0	218.0	397.0	397.0	
W(g/set)	63	64	64	88	116	107	123	221	265	
Al value	PL-5	4200	4200	4400	3800	5000	5500	5800	6000	7200
	PL-7	4200	4200	4400	3800	5000	5500	5800	6000	7200
	PL-9	4800	4900	5100	4500	6000	6600	6800	7100	8500
	PL-11	4300	4400	4600	4000	5200	5700	6000	6300	7500
Core loss	PL-5	7.20	7.50	7.44	10.60	14.00	12.60	14.30	26.10	31.50
	PL-7	6.00	6.25	6.20	8.80	11.60	10.50	12.00	22.00	26.50
	PL-9	5.52	5.15	5.70	7.20	9.50	8.60	9.80	20.00	24.00
	PL-11	5.52	5.15	5.70	7.20	9.50	8.60	9.80	20.00	24.00

EE CORES



Part No.		EE5747S	EE6565S	EE8076S
Type		EE - (a)	EE - (a)	EE - (a)
Dimensions in mm	A	56.60 ±0.60	65.15 ±1.35	80.00 ±0.80
	B	47.30 ±0.50	65.00 ±0.60	76.10 ±0.40
	C	18.80 ±0.30	27.00 ±0.40	20.00 ±0.40
	D	38.60 ±0.50	45.10 ±0.90	60.00 ±0.60
	E	18.80 ±0.30	19.65 ±0.35	20.00 ±0.40
	F	29.30 ±0.60	45.20 ±0.80	56.10 ±0.60

Core Set Parameters		EE5747S	EE6565S	EE8076S
C1(mm ³)		0.312	0.274	0.475
Le(mm)		107.0	147.0	189.8
Ae(mm ²)		343.0	535.0	400.0
Ve(mm ³)		36710	78700	75920
Ac(mm ²)		353.0	530.0	400.0
Aw(mm ²)		290.0	575.0	1122.0
W(g/set)		189	399	391

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	7000	8000	4500
		PL-7	7000	8000	4500
		PL-9	8200	9150	5200
		PL-11	7300	8300	4700
	Core loss	PL-5	22.50	48.00	45.80
		PL-7	19.00	40.00	38.30
		PL-9	17.00	36.00	34.50
		PL-11	17.00	36.00	34.50

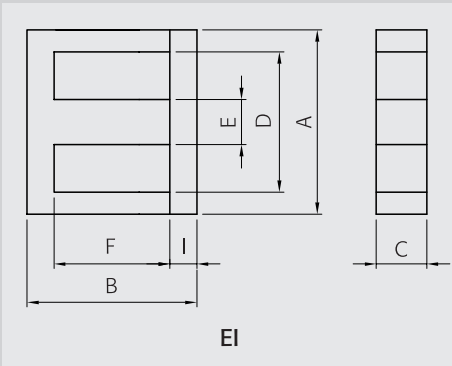
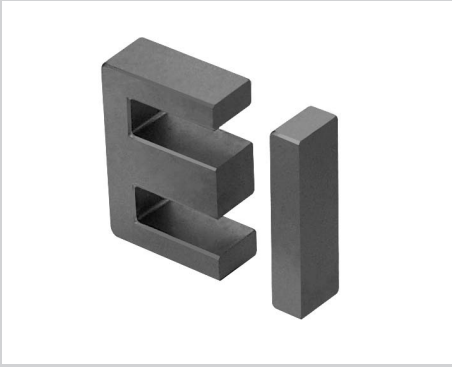
Note : 1) Core loss

- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

EI CORES



Part No.	EI1309S	EI1614S	EI1916S	EI2016S	
Type	EI	EI	EI	EI	
Dimensions in mm	A	12.50 ±0.20	16.00 ±0.30	19.00 ±0.30	20.00 ±0.30
	B	9.10 ±0.40	14.70 ±0.30	15.90 ±0.40	15.85 ±0.35
	C	5.00 $^{+0.10}_{-0.20}$	4.80 ±0.20	5.10 $^{+0}_{-0.50}$	5.00 ±0.20
	D	9.20 $^{+0.50}_{-0.30}$	11.80 min.	14.00 ±0.30	14.30 min.
	E	2.50 $^{+0.10}_{-0.20}$	4.00 ±0.20	5.10 $^{+0}_{-0.50}$	4.55 ±0.20
	F	5.00 ±0.15	10.80 ±0.20	11.30 ±0.30	11.15 ±0.30
	I	1.60 ±0.15	2.00 ±0.20	2.35 ±0.20	2.30 ±0.10

Core Set Parameters	C1(mm ⁻¹)	1.378	1.900	1.681	1.650
	Le(mm)	21.2	35.9	39.2	39.6
	Ae(mm ²)	15.3	18.8	23.3	24.0
	Ve(mm ³)	325	676	913	950
	Ac(mm ²)	12.1	19.2	23.5	22.8
	Aw(mm ²)	16.7	43.7	51.6	56.6
	W(g/set)	1.9	3.4	4.6	5.1

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	1400	1250	1300	1097
		PL-7	1400	1250	1300	1097
		PL-9	1600	1330	1530	1400
		PL-11	1500	1300	1400	1100
		SM-50	2200	1950	2350	2670
		SM-60	2640	2340	2820	3200
		SM-70S	2750	2400	2900	3710
		SM-100	4050	3450	4000	4190
	Core loss	PL-5	0.20	0.42	0.55	0.56
		PL-7	0.17	0.35	0.46	0.48
		PL-9	0.14	0.28	0.38	0.42
		PL-11	0.14	0.28	0.38	0.42

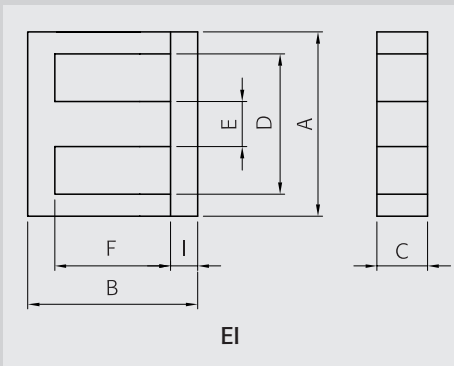
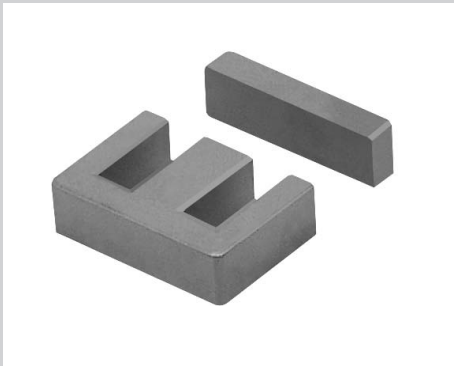
Note : 1) Core loss

- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25% (SM-100 Mirror-grind : ±30%)

EI CORES



Part No.		EI2218S	EI2418S	EI2519C	EI2519S
Type		EI	EI	EI	EI
Dimensions in mm	A	22.00 ±0.40	24.00 ±0.40	25.00 ^{+0.50} / _{-0.30}	25.00 ^{+0.50} / _{-0.30}
	B	19.00 ±0.40	18.10 ±0.40	19.00 ±0.50	18.70 ±0.50
	C	6.00 ⁺⁰ / _{-0.50}	9.65 ±0.20	7.00 ⁺⁰ / _{-0.50}	7.00 ⁺⁰ / _{-0.50}
	D	16.00 ±0.40	18.10 ±0.30	19.10 min.	19.10 min.
	E	6.00 ⁺⁰ / _{-0.50}	6.00 ±0.20	6.50 ±0.30	6.50 ±0.30
	F	10.80 ^{+0.40} / ₋₀	12.20 ±0.20	13.00 ^{+0.50} / ₋₀	12.70 ^{+0.50} / ₋₀
	I	4.00 ±0.20	2.90 ±0.20	2.90 ⁺⁰ / _{-0.30}	2.90 ⁺⁰ / _{-0.30}

Core Set Parameters		EI2218S	EI2418S	EI2519C	EI2519S
C1(mm ³)		1.148	0.800	1.221	1.206
Le(mm)		42.5	45.8	48.6	48.0
Ae(mm ²)		37.0	57.2	39.7	39.7
Ve(mm ³)		1570	2621	1930	1900
Ac(mm ²)		33.0	57.9	43.8	43.8
Aw(mm ²)		56.3	76.3	86.1	84.1
W(g/set)		8.4	14	9.8	9.8

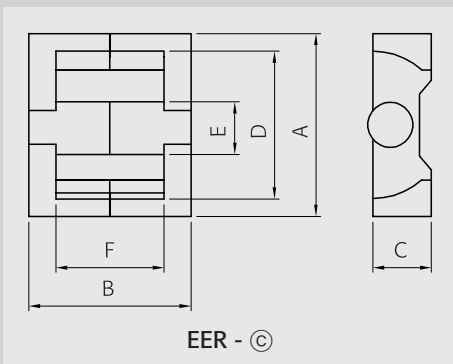
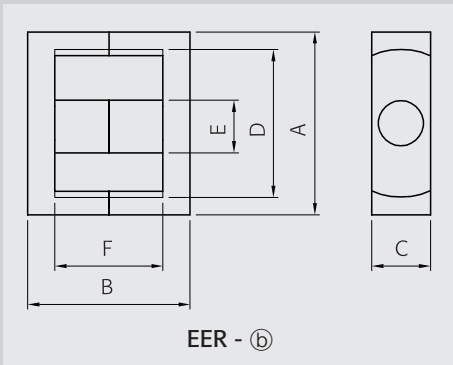
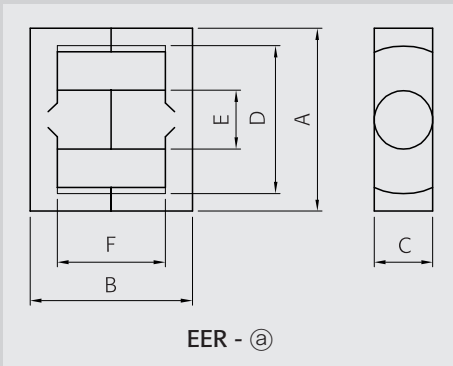
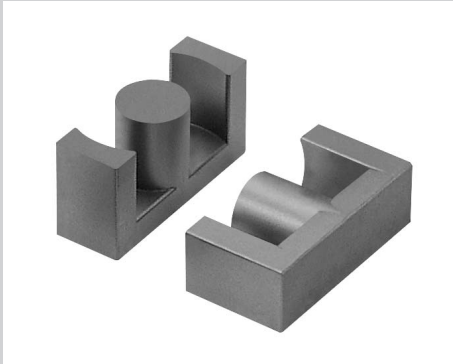
Electrical Characteristics ⁽¹⁾⁽²⁾		AL value	Core loss			
			PL-5	PL-7	PL-9	PL-11
	AL value	PL-5	1950	2700	1900	2000
		PL-7	1950	2700	1900	2000
		PL-9	2100	3100	2100	2300
		PL-11	2000	2800	2000	2000
	Core loss	SM-50	3500	5500	3500	3650
		SM-60	4200	6600	4200	4380
		SM-70S	4350	7660	4300	5080
		SM-100	5950	8640	5750	5730
	Core loss	PL-5	0.95	1.56	1.16	1.15
		PL-7	0.80	1.30	0.97	0.96
		PL-9	0.65	1.20	0.08	0.88
		PL-11	0.65	1.20	0.08	0.88

Note : 1) Core loss
 - Unit : Watt max.
 - Measuring conditions
 PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value
 - Unit : nH/N²
 - Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
 - Tolerance: ±25% (SM-100 Mirror-grind :±30%)

	EI2820S	EI3026S	EI3329S	EI3530A	EI3530S	EI4035S	EI5040S	EI6044S	EI7064S	
	EI	EI	EI	EI	EI	EI	EI	EI	EI	
A	28.00 ±0.40	30.00 $\begin{smallmatrix} +0.50 \\ -0.30 \end{smallmatrix}$	33.00 ±0.50	35.00 ±0.50	35.00 ±0.50	40.00 $\begin{smallmatrix} +0.70 \\ -0.50 \end{smallmatrix}$	50.00 $\begin{smallmatrix} +0.70 \\ -0.50 \end{smallmatrix}$	60.00 $\begin{smallmatrix} +1.00 \\ -0.50 \end{smallmatrix}$	70.00 ±1.20	
B	20.80 ±0.40	26.70 $\begin{smallmatrix} +0.60 \\ -0.20 \end{smallmatrix}$	28.60 ±0.50	28.60 $\begin{smallmatrix} +0.50 \\ -0 \end{smallmatrix}$	29.70 ±0.50	34.70 $\begin{smallmatrix} +0.60 \\ -0.20 \end{smallmatrix}$	42.00 $\begin{smallmatrix} +0.80 \\ -0.20 \end{smallmatrix}$	44.40 $\begin{smallmatrix} +0.80 \\ -0.20 \end{smallmatrix}$	64.40 ±0.25	
C	11.00 $\begin{smallmatrix} +0 \\ -0.60 \end{smallmatrix}$	11.00 $\begin{smallmatrix} +0 \\ -0.70 \end{smallmatrix}$	12.70 ±0.25	10.00 ±0.30	12.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	12.00 $\begin{smallmatrix} +0 \\ -0.70 \end{smallmatrix}$	15.00 $\begin{smallmatrix} +0 \\ -0.70 \end{smallmatrix}$	15.80 $\begin{smallmatrix} +0 \\ -0.80 \end{smallmatrix}$	31.60 ±0.50	
D	18.60 min.	20.00 $\begin{smallmatrix} +0.70 \\ -0 \end{smallmatrix}$	24.00 ±0.50	24.50 ±0.40	25.00 ±0.40	27.50 $\begin{smallmatrix} +0.70 \\ -0 \end{smallmatrix}$	34.50 $\begin{smallmatrix} +1.00 \\ -0 \end{smallmatrix}$	44.50 min.	46.30 min.	
E	7.50 $\begin{smallmatrix} +0 \\ -0.60 \end{smallmatrix}$	11.00 $\begin{smallmatrix} +0 \\ -0.70 \end{smallmatrix}$	10.00 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	10.00 ±0.30	10.30 $\begin{smallmatrix} +0 \\ -0.50 \end{smallmatrix}$	12.00 $\begin{smallmatrix} +0 \\ -0.70 \end{smallmatrix}$	15.00 $\begin{smallmatrix} +0 \\ -0.70 \end{smallmatrix}$	15.80 $\begin{smallmatrix} +0 \\ -0.80 \end{smallmatrix}$	22.20 ±0.50	
F	12.80 ±0.20	16.20 $\begin{smallmatrix} +0.60 \\ -0 \end{smallmatrix}$	19.20 ±0.30	18.00 $\begin{smallmatrix} +0.40 \\ -0.10 \end{smallmatrix}$	18.20 ±0.30	20.20 $\begin{smallmatrix} +0.60 \\ -0 \end{smallmatrix}$	24.50 $\begin{smallmatrix} +0.60 \\ -0 \end{smallmatrix}$	27.50 $\begin{smallmatrix} +0.70 \\ -0 \end{smallmatrix}$	42.80 ±0.25	
I	3.50 ±0.15	5.50 ±0.20	5.20 ±0.20	4.60 ±0.30	5.50 ±0.20	7.50 ±0.25	9.00 ±0.25	8.50 ±0.25	10.40 ±0.50	
C1(mm³)	0.586	0.537	0.567	0.650	0.554	0.526	0.417	0.452	0.208	
Le(mm)	49.5	58.8	67.1	66.9	68.0	77.4	95.0	110.0	145.0	
Ae(mm²)	84.4	109.0	118.0	102.0	122.0	147.0	227.0	244.0	698.0	
Ve(mm³)	4170	6440	7640	6880	8350	11390	21660	26950	101530	
Ac(mm²)	77.0	113.0	123.0	100.0	118.0	135.0	213.0	237.0	701.0	
Aw(mm²)	75.5	80.0	136.0	131.0	136.0	166.0	253.0	412.0	541.0	
W(g/set)	22	33	40	35	43	59	112	138	519	
Al value	PL-5	3800	4000	3800	3350	3950	4000	5200	4500	10500
	PL-7	3800	4000	3800	3350	3950	4000	5200	4500	10500
	PL-9	4300	4800	4600	4050	4700	4800	6100	5500	12000
	PL-11	4000	4200	4000	3500	4100	4200	5400	4700	10900
	SM-50	7000	8190							
	SM-60	8400	9830							
	SM-70S	9000	11410							
	SM-100	12000	12870							
Core loss	PL-5	2.52	3.90	4.80	4.15	5.10	6.85	13.00	16.30	61.50
	PL-7	2.10	3.25	4.00	3.50	4.20	5.70	10.90	13.50	51.50
	PL-9	1.72	2.65	3.26	2.85	3.45	4.70	8.90	11.10	46.20
	PL-11	1.72	2.65	3.26	2.85	3.45	4.70	8.90	11.10	46.20

EER CORES



Part No.		EER0905S	EER1104S	EER1105S	EER1406S
Type		EER - (b)	EER - (b)	EER - (b)	EER - (b)
Dimensions in mm	A	9.35 ±0.15	10.85 ±0.17	10.85 ±0.17	14.50 ±0.20
	B	4.90 ±0.10	3.85 ±0.10	4.90 ±0.10	5.90 ±0.10
	C	4.90 ±0.10	5.90 ±0.10	5.90 ±0.10	6.75 ±0.10
	D	7.50 min.	8.70 min.	8.70 min.	11.60 min.
	E	3.40 ±0.10	4.13 ±0.12	4.13 ±0.12	4.75 ±0.10
	F	3.35 ±0.15	2.10 ±0.15	3.15 ±0.15	3.30 ±0.20

Core Set Parameters	C1(mm ³)	1.670	1.080	1.230	1.080
	Le(mm)	14.2	12.6	14.7	19.0
	Ae(mm ²)	8.5	11.7	11.9	17.6
	Ve(mm ³)	120	147	174	333
	Ac(mm ²)	9.1	13.4	13.4	17.7
	Aw(mm ²)	7.2	5.0	7.5	11.6
	W(g/set)	0.6	0.8	1.0	2.0

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	1100	1750	1500	2000
		PL-7	1100	1750	1500	2000
		PL-9	1300	2030	1750	2300
		PL-11	1200	1800	1600	2100
		SM-50	2630	4070	3580	4070
		SM-60	3160	4890	4290	4890
		SM-70S	3670	5670	4980	5670
		SM-100	4140	6400	5620	6400
	Core loss	PL-5	0.08	0.09	0.11	0.21
		PL-7	0.06	0.08	0.09	0.17
		PL-9	0.05	0.07	0.08	0.14
		PL-11	0.05	0.07	0.08	0.14

Note : 1) Core loss

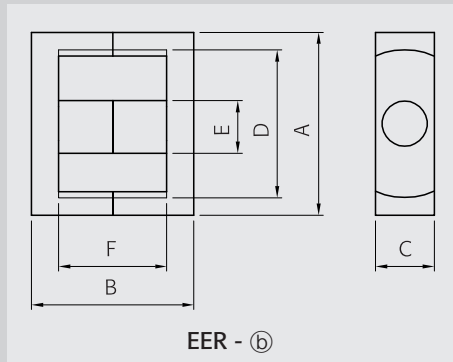
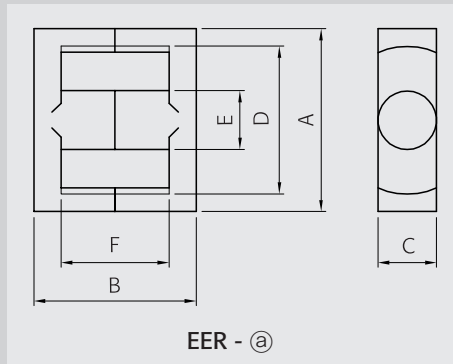
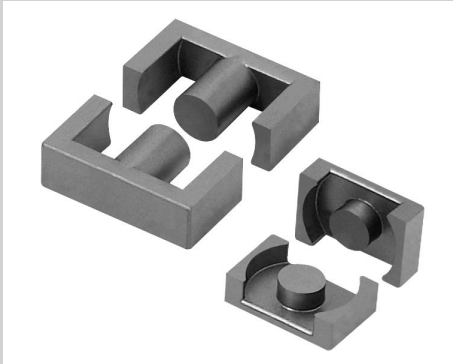
- Unit : Watt max.
- Measuring conditions
- PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
- PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25% (SM-100 Mirror-grind :±30%)

	EER2116S	EER2324S	EER2429S	EER2616S	EER2619S	EER2820S	EER2828N	EER2828S	EER2830N	
	EER - (b)	EER - (c)	EER - (a)	EER - (a)	EER - (a)	EER - (b)	EER - (b)	EER - (b)	EER - (b)	
A	21.40 ±0.50	23.20 ±0.40	24.40 ±0.50	25.50 ±0.50	25.50 ±0.50	28.50 $\begin{smallmatrix} +0.50 \\ -0.40 \end{smallmatrix}$	28.50 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	28.50 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	28.50 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	
B	16.20 ±0.30	23.90 ±0.30	28.90 ±0.30	16.00 ±0.40	19.00 ±0.40	20.00 ±0.30	28.00 ±0.40	28.00 ±0.40	30.00 ±0.50	
C	14.00 ±0.25	8.20 ±0.20	8.50 ±0.30	7.50 ±0.20	7.50 ±0.20	11.40 ±0.25	11.40 ±0.25	11.40 ±0.25	11.40 ±0.25	
D	18.00 ±0.40	19.20 ±0.30	18.60 ±0.60	19.80 min.	19.80 min.	21.40 min.	21.80 min.	21.20 min.	21.80 min.	
E	9.00 ±0.20	6.90 ±0.15	8.50 ±0.20	7.50 ±0.15	7.50 ±0.15	9.90 ±0.25	9.90 ±0.25	9.90 ±0.25	9.90 ±0.25	
F	11.20 ±0.40	17.60 $\begin{smallmatrix} +0.70 \\ -0 \end{smallmatrix}$	20.20 ±0.40	9.80 ±0.40	12.80 ±0.40	12.80 $\begin{smallmatrix} +0.50 \\ -0 \end{smallmatrix}$	19.30 ±0.50	19.30 ±0.50	22.00 ±0.40	
CI(mm ³)	0.625	1.413	1.055	0.949	1.088	0.611	0.758	0.732	0.895	
Le(mm)	42.5	56.4	62.3	42.3	48.3	49.5	63.4	63.0	69.3	
Ae(mm ²)	68.0	39.9	59.0	44.5	44.3	81.0	83.6	86.0	77.4	
Ve(mm ³)	2890	2250	3680	1880	2140	4010	5300	5410	5360	
Ac(mm ²)	63.6	37.4	56.7	44.2	44.2	77.0	77.0	77.0	77.0	
AW(mm ²)	51.3	110.0	102.0	62.7	81.9	77.9	120.0	114.0	140.0	
W(g/set)	15	11	19	9.7	11	21	28	29	28	
Al value	PL-5	3300	1550	2100	2300	2000	3430	2700	2730	2400
	PL-7	3300	1550	2100	2300	2000	3430	2700	2730	2400
	PL-9	3800	1850	2500	2650	2300	4150	3150	3200	2700
	PL-11	3400	1600	2200	2400	2100	3600	2800	2800	2500
Core loss	PL-5	1.74	1.36	2.22	1.15	1.32	2.41	3.25	3.30	3.24
	PL-7	1.45	1.13	1.85	0.96	1.10	2.01	2.70	2.75	2.70
	PL-9	1.33	0.93	1.51	0.78	0.90	1.65	2.20	2.25	2.48
	PL-11	1.33	0.93	1.51	0.78	0.90	1.65	2.20	2.25	2.48

EER CORES



Part No.		EER2830S	EER2834N	EER2834S	EER3016S
Type		EER - (b)	EER - (b)	EER - (b)	EER - (b)
Dimensions in mm	A	28.50 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	28.50 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	28.50 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	30.00 ± 0.40
	B	30.00 ± 0.50	33.80 ± 0.50	33.80 ± 0.50	16.00 ± 0.40
	C	11.40 ± 0.25	11.40 ± 0.25	11.40 ± 0.25	20.00 ± 0.30
	D	21.20 min.	21.80 min.	21.20 min.	26.00 ± 0.40
	E	9.90 ± 0.25	9.90 ± 0.25	9.90 ± 0.25	11.00 ± 0.20
	F	21.30 ± 0.50	25.00 ± 0.50	25.00 $\begin{smallmatrix} +0.60 \\ -0.50 \end{smallmatrix}$	10.60 ± 0.40

Core Set Parameters	C1(mm ³)	0.794	0.900	0.870	0.393
	Le(mm)	66.4	74.8	74.4	43.2
	Ae(mm ²)	83.6	83.1	85.4	109.0
	Ve(mm ³)	5551	6220	6360	4740
	Ac(mm ²)	76.9	77.0	77.0	95.0
	Aw(mm ²)	113.0	155.0	148.0	79.5
	W(g/set)	30	32	33	27

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	2600	2400	2400	5700
		PL-7	2600	2400	2400	5700
		PL-9	3000	2700	2700	6700
		PL-11	2700	2500	2500	5900
	Core loss	PL-5	3.38	3.80	3.85	2.90
		PL-7	2.82	3.15	3.20	2.40
		PL-9	2.59	2.60	2.65	1.95
		PL-11	2.59	2.60	2.65	1.95

Note : 1) Core loss

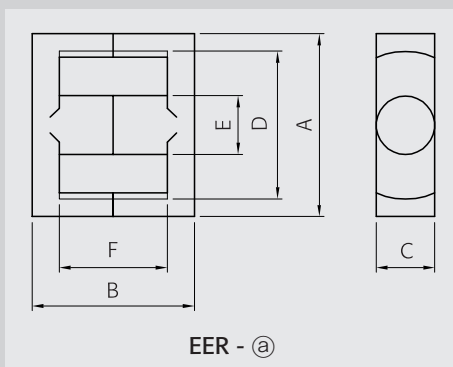
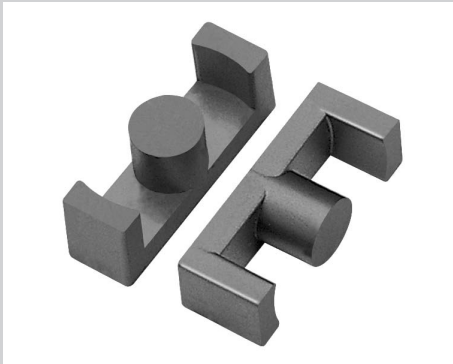
- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: $\pm 25\%$

	EER3019N	EER3022S	EER3024N	EER3032S	EER3124S	EER3335S	EER3426S	EER3435S	EER3526S	
	EER - (b)	EER - (a)	EER - (b)	EER - (a)	EER - (b)	EER - (b)	EER - (a)	EER - (a)	EER - (a)	
A	30.00 ±0.40	29.80 ±0.80	30.00 ±0.50	29.80 ±0.80	31.00 ±0.50	33.00 ±0.50	34.20 ±0.80	34.20 ±0.80	35.00 ±0.70	
B	18.80 ±0.30	21.80 ±0.40	23.80 ±0.40	31.60 ±0.60	23.80 ±0.30	34.60 ±0.60	26.00 ±0.40	34.60 ±0.40	26.60 ±0.40	
C	20.30 ±0.30	9.50 ±0.30	20.30 ±0.30	9.50 ±0.30	12.30 ±0.30	13.80 ±0.25	10.80 ±0.30	10.80 ±0.30	11.30 ±0.40	
D	25.40 ±0.40	22.70 ±0.70	25.40 ±0.40	22.70 ±0.70	23.60 ±0.50	25.00 ±0.50	26.30 ±0.70	26.30 ±0.70	25.30 min.	
E	13.30 ±0.20	9.50 ±0.30	13.30 ±0.30	9.50 ±0.30	11.00 ±0.25	12.50 ±0.25	10.80 ±0.30	10.80 ±0.30	11.30 ±0.30	
F	13.20 ±0.40	12.20 ±0.40	18.20 ±0.40	22.00 ±0.60	14.90 ±0.30	25.60 ±0.50	15.60 ±0.60	24.20 ±0.80	16.60 ±0.50	
Cl(mm³)	0.344	0.656	0.381	0.927	0.584	0.625	0.629	0.815	0.593	
Le(mm)	47.2	51.2	52.2	70.7	57.2	78.3	61.9	79.0	63.5	
Ae(mm²)	137.0	78.0	137.0	76.2	97.9	125.0	98.4	97.0	107.0	
Ve(mm³)	6466	3990	7151	5390	5600	9810	6080	7660	6795	
Ac(mm²)	139.0	70.9	138.9	70.9	95.0	123.0	91.6	91.6	100.3	
Aw(mm²)	80.0	80.5	114.7	145.0	93.9	160.0	120.0	187.0	122.0	
W(g/set)	33	21	41	28	29	50	32	39	35	
Al value	PL-5	6100	3200	5500	2300	3400	3400	3000	2500	3600
	PL-7	6100	3200	5500	2300	3400	3400	3000	2500	3600
	PL-9	7100	3800	6400	2750	3900	4050	3600	3000	4200
	PL-11	6400	3300	5700	2400	3500	3500	3100	2600	3800
Core loss	PL-5	3.90	2.40	4.72	3.25	3.36	5.90	3.65	4.60	4.08
	PL-7	3.25	2.00	3.93	2.70	2.80	4.92	3.05	3.85	3.40
	PL-9	2.99	1.65	3.62	2.21	2.58	4.03	2.50	3.15	3.13
	PL-11	2.99	1.65	3.62	2.21	2.58	4.03	2.50	3.15	3.13

EER CORES



Part No.		EER3530S	EER3531S	EER3534S	EER3538S
Type		EER - (a)	EER - (a)	EER - (a)	EER - (a)
Dimensions in mm	A	35.00 ±0.70	35.00 ±0.70	35.00 ±0.70	35.00 ±0.70
	B	30.00 ±0.40	31.60 ±0.40	34.00 ±0.40	38.00 ±0.50
	C	11.30 ±0.40	11.30 ±0.40	11.30 ±0.40	11.30 ±0.40
	D	25.30 min.	25.30 min.	25.60 min.	25.60 min.
	E	11.30 ±0.30	11.30 ±0.30	11.30 ±0.30	11.30 ±0.30
	F	20.00 ±0.60	22.20 ±0.40	22.00 ±0.40	26.00 ±0.50

Core Set Parameters		EER3530S	EER3531S	EER3534S	EER3538S
C1(mm ³)		0.655	0.687	0.695	0.767
Le(mm)		70.3	73.5	77.1	83.6
Ae(mm ²)		107.0	107.0	111.0	109.0
Ve(mm ³)		7550	7865	8557	9091
Ac(mm ²)		100.3	100.3	100.3	100.3
Aw(mm ²)		147.0	163.0	169.0	192.4
W(g/set)		39	41	42	49

Electrical Characteristics ⁽¹⁾⁽²⁾		EER3530S	EER3531S	EER3534S	EER3538S	
Core loss	AL value	PL-5	3000	3100	3000	2800
		PL-7	3000	3100	3000	2800
		PL-9	3600	3600	3500	3200
		PL-11	3100	3200	3100	2900
	Core loss	PL-5	4.55	4.80	5.88	5.45
		PL-7	3.78	4.00	4.90	4.64
		PL-9	3.10	3.68	4.51	4.18
		PL-11	3.10	3.68	4.51	4.18

Note : 1) Core loss

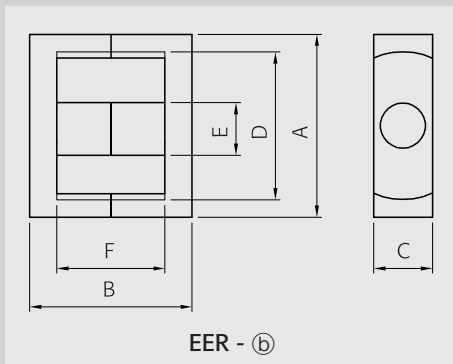
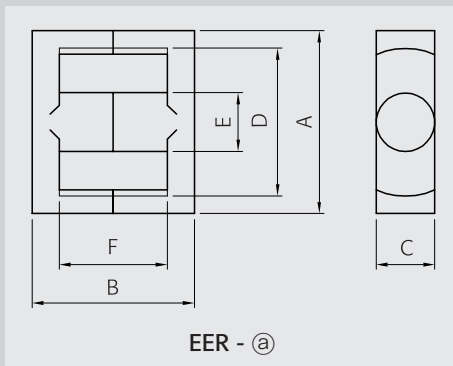
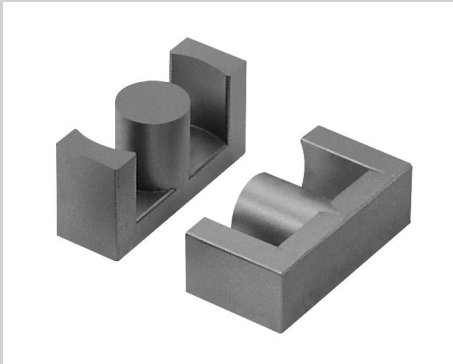
- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

	EER3540S	EER3541S	EER3542S	EER3543S	EER3544S	EER3638S	EER3934S	EER3936S	EER3940S	
	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	
A	35.00 ±0.70	35.00 ±0.70	35.00 ±0.70	35.00 ±0.70	35.00 ±0.70	36.00 ±0.60	39.10 ±0.90	39.10 ±0.90	39.10 ±0.90	
B	40.60 ±0.50	41.80 ±0.50	42.80 ±0.50	43.30 ±0.50	44.40 ±0.60	38.00 ±0.50	33.60 ±0.40	35.60 ±0.40	39.60 ±0.40	
C	11.30 ±0.40	11.30 ±0.40	11.30 ±0.40	11.30 ±0.40	11.30 ±0.40	11.30 ±0.40	12.50 ±0.30	12.50 ±0.30	12.50 ±0.30	
D	25.60 min.	25.60 min.	25.60 min.	25.60 min.	25.60 min.	26.50 min.	30.10 ±0.80	30.10 ±0.80	30.10 ±0.80	
E	11.30 ±0.30	11.30 ±0.30	11.30 ±0.30	11.30 ±0.30	11.30 ±0.30	11.30 ±0.30	12.50 ±0.30	12.50 ±0.30	12.50 ±0.30	
F	29.60 ±0.80	29.80 ±0.60	30.80 ±0.60	31.30 ±0.50	32.00 ±0.60	26.00 ±0.50	23.20 ±0.80	25.20 ±0.80	29.20 ±0.80	
Cl(mm³)	0.813	0.831	0.850	0.852	0.875	0.792	0.642	0.676	0.741	
Le(mm)	88.6	91.0	93.0	94.6	95.4	83.9	80.3	84.6	92.6	
Ae(mm²)	109.0	109.0	109.0	111.0	109.0	106.0	125.0	125.0	124.0	
Ve(mm³)	9657	9960	10160	10501	10399	8893	10038	10570	11560	
Ac(mm²)	100.3	100.3	100.3	100.3	100.3	100.3	122.7	123.0	123.0	
Aw(mm²)	219.0	223.0	230.0	235.0	236.8	204.1	204.0	221.0	256.0	
W(g/set)	50	52	53	53	54	49	52	54	58	
Al value	PL-5	2600	2600	2500	2500	2400	2700	2800	3100	2900
	PL-7	2600	2600	2500	2500	2400	2700	2800	3100	2900
	PL-9	3000	3050	3000	2900	2800	3100	3200	3650	3400
	PL-11	2700	2700	2600	2600	2500	2800	2900	3200	3000
Core loss	PL-5	5.88	6.00	6.10	6.40	6.24	5.63	6.10	6.35	7.00
	PL-7	4.90	5.00	5.10	5.44	5.30	4.69	5.19	5.30	5.80
	PL-9	4.51	4.10	4.20	4.91	4.78	4.31	4.68	4.35	4.75
	PL-11	4.51	4.10	4.20	4.91	4.78	4.31	4.68	4.35	4.75

EER CORES



Part No.		EER3942S	EER3944S	EER4042S	EER4045S
Type		EER - (a)	EER - (a)	EER - (b)	EER - (a)
Dimensions in mm	A	39.10 ±0.90	39.10 ±0.90	40.00 $\begin{smallmatrix} +0.80 \\ -0.50 \end{smallmatrix}$	40.00 ±0.80
	B	42.00 ±0.40	44.60 ±0.40	42.60 ±0.40	44.80 ±0.40
	C	12.50 ±0.30	12.50 ±0.30	15.00 ±0.20	13.30 ±0.25
	D	30.10 ±0.80	30.10 ±0.80	30.70 min.	29.00 min.
	E	12.50 ±0.30	12.50 ±0.30	14.00 ±0.25	13.30 ±0.25
	F	31.60 ±0.80	34.20 ±0.80	30.60 ±0.40	30.80 ±0.60

Core Set Parameters	C1(mm ³)	0.780	0.818	0.609	0.641
	Le(mm)	97.4	102.2	96.3	97.4
	Ae(mm ²)	124.0	125.0	158.0	151.0
	Ve(mm ³)	12150	12780	15230	14790
	Ac(mm ²)	123.0	122.7	154.0	139.0
	Aw(mm ²)	278.0	301.0	265.0	254.0
	W(g/set)	61	66	79	78

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	2700	2600	3600	3300
		PL-7	2700	2600	3600	3300
		PL-9	3200	3000	4200	3900
		PL-11	2800	2700	3800	3400
	Core loss	PL-5	7.30	7.70	9.25	8.90
		PL-7	6.08	6.55	7.70	7.40
		PL-9	5.00	5.90	6.30	6.10
		PL-11	5.00	5.90	6.30	6.10

Note : 1) Core loss

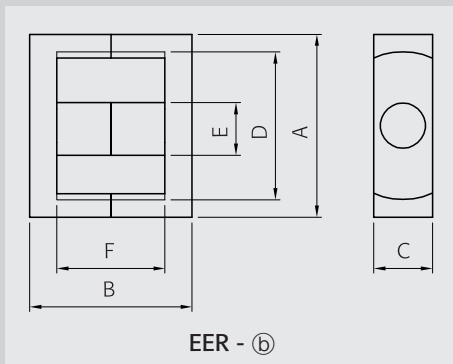
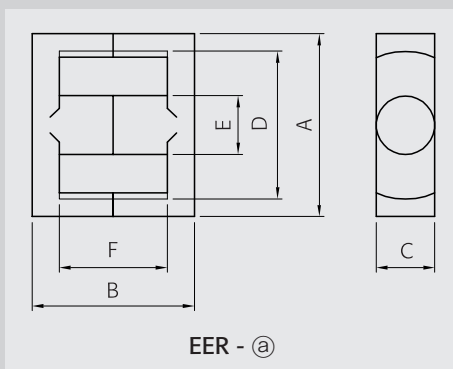
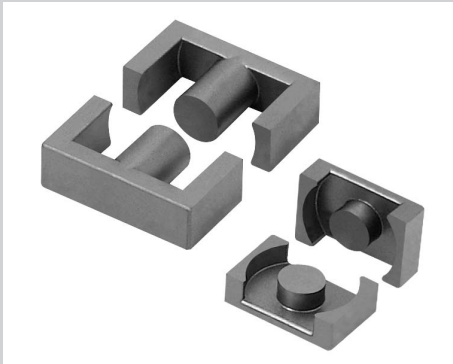
- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

	EER4045SD	EER4214S	EER4232S	EER4242B	EER4242KF	EER4242S	EER4242SF	EER4243S	EER4244S	
	EER - (b)	EER - (a)	EER - (b)	EER - (a)	EER - (b)	EER - (b)	EER - (b)	EER - (a)	EER - (b)	
A	40.00 ^{+0.80} / _{-0.50}	42.15 ±0.85	42.00 ^{+0.80} / _{-0.50}	42.00 ±0.60	42.65 ±0.65	42.00 ^{+0.80} / _{-0.50}	42.00 ^{+0.80} / _{-0.50}	42.00 ±0.60	42.00 ^{+0.80} / _{-0.50}	
B	45.00 ±0.40	43.20 ±0.40	32.40 ±0.40	42.80 ±0.60	43.40 ±0.40	42.40 ±0.40	43.40 ±0.40	43.80 ±0.60	44.00 ±0.40	
C	15.00 ±0.20	14.70 ±0.30	19.60 ±0.40	15.20 ±0.30	20.00 ⁺⁰ / _{-0.80}	20.00 ⁺⁰ / _{-0.80}	20.00 ⁺⁰ / _{-0.80}	15.20 ±0.30	19.40 ±0.30	
D	30.70 min.	31.00 ±0.60	32.30 ±0.50	31.00 ±0.60	32.80 ±0.50	32.30 ±0.50	32.30 ±0.50	31.00 ±0.60	32.60 ±0.50	
E	14.00 ±0.25	14.70 ±0.30	17.30 ±0.25	15.20 ±0.30	17.30 ±0.25	17.30 ±0.25	17.30 ±0.25	15.20 ±0.30	17.00 ±0.25	
F	33.00 ±0.40	31.90 ±0.70	20.50 ±0.50	30.80 ±0.80	31.20 ±0.50	30.00 ^{+1.0} / _{-0.5}	31.50 ±0.50	31.80 ±0.60	32.20 ±0.60	
CI(mm ³)	0.641	0.572	0.349	0.528	0.415	0.406	0.416	0.540	0.442	
Le(mm)	101.0	98.8	81.4	96.9	98.0	95.1	97.0	98.3	100.0	
Ae(mm ²)	157.0	172.0	233.0	183.0	236.0	234.0	233.0	183.0	226.0	
Ve(mm ³)	15950	17090	18966	17790	23128	22280	22601	17990	22600	
Ac(mm ²)	154.0	170.0	234.9	181.0	234.9	235.0	234.9	181.5	226.9	
AW(mm ²)	286.0	259.0	158.9	243.0	242.0	228.0	244.1	259.2	325.6	
W(g/set)	82	87	98	91	119	115	115	93	116	
Al value	PL-5	3400	3800	6300	4000	5000	5000	5000	4000	4800
	PL-7	3400	3800	6300	4000	5000	5000	5000	4000	4800
	PL-9	3950	4500	7300	4700	5800	5800	5800	4700	5500
	PL-11	3500	4000	6600	4200	5200	5200	5200	4200	5000
Core loss	PL-5	9.80	13.40	11.40	10.70	13.92	13.40	14.88	10.80	13.56
	PL-7	8.10	8.60	9.50	8.90	11.60	11.10	12.40	9.00	11.53
	PL-9	6.60	7.10	8.74	7.30	10.67	9.20	11.41	8.28	10.40
	PL-11	6.60	7.10	8.74	7.30	10.67	9.20	11.41	8.28	10.40

EER CORES



Part No.		EER4245S	EER4245W	EER4249S	EER4445S
Type		EER - (a)	EER - (b)	EER - (b)	EER - (a)
Dimensions in mm	A	42.00 ±0.50	42.00 ±0.60	42.00 ±0.80	44.00 ±1.00
	B	44.60 ±0.60	44.80 ±0.40	49.40 ±0.40	44.60 ±0.40
	C	15.20 ±0.30	15.50 ±0.30	19.60 ±0.40	14.80 ±0.40
	D	31.00 ±0.50	29.40 min.	32.30 ±0.80	33.30 ±0.80
	E	15.20 ±0.30	15.50 ±0.30	17.30 ±0.35	14.80 ±0.40
	F	32.60 ±0.60	30.80 ±0.60	37.60 ±0.60	33.00 ±0.80

Core Set Parameters	C1(mm ³)	0.547	0.483	0.469	0.598
	Le(mm)	100.0	97.3	109.0	104.0
	Ae(mm ²)	183.0	201.0	232.0	173.0
	Ve(mm ³)	18450	19620	25400	17910
	Ac(mm ²)	181.0	189.0	235.0	172.0
	Aw(mm ²)	257.0	223.0	282.0	305.0
	W(g/set)	94	102	130	91

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	3900	4400	4300	3400
		PL-7	3900	4400	4350	3400
		PL-9	4600	5150	5100	4000
		PL-11	4100	4600	4500	3500
	Core loss	PL-5	11.10	11.80	15.20	10.70
		PL-7	9.25	9.85	12.70	9.50
		PL-9	7.60	8.05	10.40	7.35
		PL-11	7.60	8.05	10.40	7.35

Note : 1) Core loss

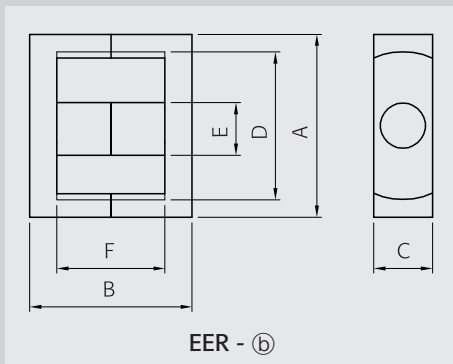
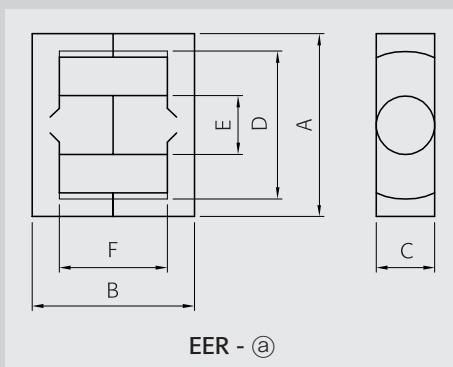
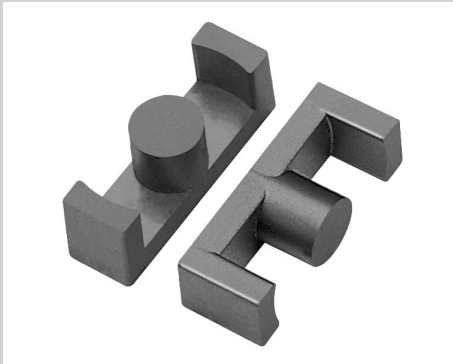
- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

	EER4535S	EER4836S	EER4936S	EER4942S	EER4943S	EER4950S	EER4954S	EER5345S	EER5455S	
	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (a)	EER - (b)	EER - (a)	
A	45.00 ±1.00	48.00 ±1.00	49.00 $\begin{smallmatrix} +0.70 \\ -0.50 \end{smallmatrix}$	49.00 $\begin{smallmatrix} +0.70 \\ -0.50 \end{smallmatrix}$	49.00 $\begin{smallmatrix} +0.70 \\ -0.50 \end{smallmatrix}$	48.70 ±1.00	49.00 ±0.80	53.20 $\begin{smallmatrix} +0.80 \\ -0.50 \end{smallmatrix}$	54.50 ±1.30	
B	35.00 ±0.40	36.00 ±0.40	36.00 ±0.40	42.00 $\begin{smallmatrix} +1.00 \\ -0.20 \end{smallmatrix}$	43.10 ±0.60	49.40 ±0.40	54.00 ±0.40	46.40 ±0.60	55.20 ±0.40	
C	17.60 ±0.40	17.60 ±0.40	17.20 $\begin{smallmatrix} +0.20 \\ -0.40 \end{smallmatrix}$	17.20 $\begin{smallmatrix} +0.20 \\ -0.40 \end{smallmatrix}$	17.20 $\begin{smallmatrix} +0.20 \\ -0.40 \end{smallmatrix}$	16.30 ±0.40	17.20 ±0.30	21.50 ±0.30	18.90 ±0.40	
D	33.80 ±0.80	36.80 ±0.80	36.60 min.	36.60 min.	36.60 min.	37.00 ±0.90	36.40 min.	38.70 min.	41.20 ±1.10	
E	17.60 ±0.40	17.60 ±0.40	17.20 $\begin{smallmatrix} +0.20 \\ -0.40 \end{smallmatrix}$	17.20 $\begin{smallmatrix} +0.20 \\ -0.40 \end{smallmatrix}$	17.20 $\begin{smallmatrix} +0.20 \\ -0.40 \end{smallmatrix}$	16.30 ±0.40	17.20 ±0.25	20.00 $\begin{smallmatrix} +0.20 \\ -0.50 \end{smallmatrix}$	18.90 ±0.40	
F	21.90 ±0.50	22.40 $\begin{smallmatrix} +0.50 \\ -0 \end{smallmatrix}$	22.80 ±0.40	28.80 $\begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$	29.90 ±0.40	36.20 ±0.80	37.00 ±0.40	32.60 ±0.60	40.40 ±0.80	
Cl(mm³)	0.349	0.372	0.384	0.440	0.448	0.542	0.487	0.338	0.454	
Le(mm)	81.2	86.3	87.2	100.0	101.7	114.0	118.0	108.0	127.0	
Ae(mm²)	232.0	231.0	227.0	227.0	227.0	211.0	241.0	318.0	279.0	
Ve(mm³)	18880	19990	19800	22770	23086	24140	28460	34350	35620	
Ac(mm²)	243.0	243.0	230.0	230.0	229.5	209.0	232.0	313.0	281.0	
AW(mm²)	177.0	219.0	195.0	293.0	297.1	374.0	370.0	316.0	450.0	
W(g/set)	99	103	102	117	119	123	150	178	181	
Al value	PL-5	5800	5600	5500	5000	4700	4000	4500	6200	4800
	PL-7	5800	5600	5500	5000	4700	4000	4500	6200	4800
	PL-9	6750	6500	6400	5800	5500	4750	5300	7300	5700
	PL-11	6000	5800	5700	5200	4900	4200	4700	6500	5000
Core loss	PL-5	11.40	11.96	11.88	13.70	13.85	14.50	17.10	21.00	22.00
	PL-7	9.50	9.97	10.10	11.40	11.77	12.10	14.20	17.20	17.72
	PL-9	7.75	9.17	9.11	9.35	10.62	9.90	11.70	15.50	16.00
	PL-11	7.75	9.17	9.11	9.35	10.62	9.90	11.70	15.50	16.00

EER CORES



Part No.		EER5557S	EER6062S
Type		EER - (b)	EER - (a)
Dimensions in mm	A	55.00 ±1.00	59.80 ±1.30
	B	56.80 ±0.80	62.00 ±0.40
	C	24.70 ±0.40	21.65 ±0.45
	D	41.70 min.	44.70 ±1.10
	E	20.60 ±0.30	21.65 ±0.45
	F	38.00 ±0.60	45.00 ±0.80

Core Set Parameters	C1(mm ³)	0.380	0.383
	Le(mm)	127.0	141.0
	Ae(mm ²)	334.0	367.0
	Ve(mm ³)	42400	51630
	Ac(mm ²)	333.0	368.0
	Aw(mm ²)	410.0	518.0
	W(g/set)	221	264

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	5900	5400
		PL-7	5900	5400
		PL-9	6950	6500
		PL-11	6200	5600
	Core loss	PL-5	26.00	32.00
		PL-7	21.50	26.50
		PL-9	19.50	23.50
		PL-11	19.50	23.50

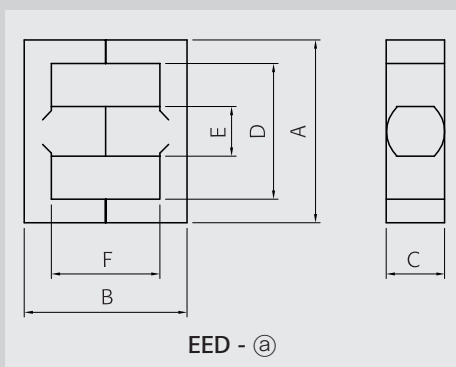
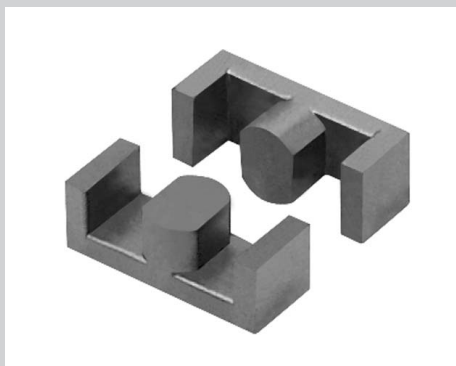
Note : 1) Core loss

- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

EED CORES



Part No.	EED2818S	EED2820S	EED2920S	EED2924S	
Type	EED - (a)	EED - (a)	EED - (a)	EED - (a)	
Dimensions in mm	A	28.00 ±0.50	28.00 ±0.50	29.30 ±0.70	29.30 ±0.70
	B	18.60 ±0.30	20.40 ±0.30	20.40 ±0.50	24.40 ±0.50
	C	11.90 ±0.15	11.90 ±0.15	11.60 ±0.20	11.60 ±0.20
	D	20.30 min.	20.30 min.	22.10 ^{+0.70} / _{-0.50}	22.10 ^{+0.70} / _{-0.50}
	E	8.50 ±0.15	8.50 ±0.15	8.40 ±0.20	8.40 ±0.20
	F	11.40 ±0.30	13.20 ±0.30	13.20 ±0.40	17.20 ±0.40

Core Set Parameters	C1(mm ³)	0.545	0.586	0.617	0.712
	Le(mm)	46.9	50.5	51.9	59.9
	Ae(mm ²)	86.1	86.1	84.0	84.1
	Ve(mm ³)	4038	4350	4360	5030
	Ac(mm ²)	101.2	101.2	97.4	97.4
	Aw(mm ²)	75.3	81.1	90.7	118.0
	W(g/set)	20	23	23	26

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	3700	3000	3200	2800
		PL-7	3700	3000	3200	2800
		PL-9	4300	3400	3650	3200
		PL-11	3900	3100	3300	2900
	Core loss	PL-5	2.60	2.65	2.65	3.05
		PL-7	2.21	2.20	2.20	2.55
		PL-9	1.99	1.80	1.80	2.10
		PL-11	1.99	1.80	1.80	2.10

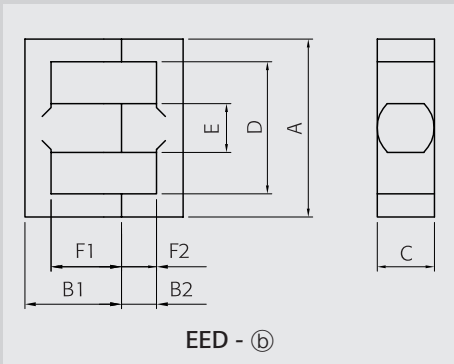
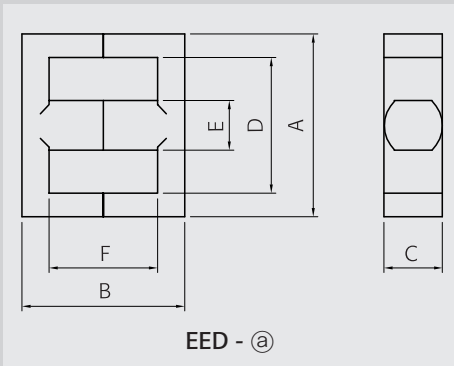
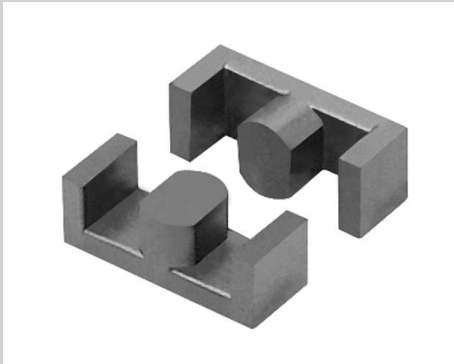
Note : 1) Core loss

- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%

EED CORES



Part No.		EED2929S	EED4244S
Type		EED - (a)	EED - (b)
Dimensions in mm	A	29.30 ±0.70	42.00 ±0.70
	B	29.20 ±0.50	B1:28.50 ±0.20 B2:15.50 ±0.20
	C	11.60 ±0.20	13.50 ±0.30
	D	22.10 ^{+0.70} / _{-0.50}	29.00 min.
	E	8.40 ±0.20	13.50 ±0.30
	F	22.00 ±0.40	F1:21.50 ±0.20 F1: 8.50 ±0.20

Core Set Parameters	C1(mm ³)	0.826	0.578
	Le(mm)	69.5	95.4
	Ae(mm ²)	84.1	165.0
	Ve(mm ³)	5850	15741
	Ac(mm ²)	97.4	182.3
	Aw(mm ²)	151.0	226.8
	W(g/set)	30	85

Electrical Characteristics ⁽¹⁾⁽²⁾	AL value	PL-5	2100	3700
		PL-7	2100	3700
		PL-9	2400	4300
		PL-11	2200	3900
	Core loss	PL-5	3.55	10.20
		PL-7	2.95	8.50
		PL-9	2.40	7.82
		PL-11	2.40	7.82

Note : 1) Core loss

- Unit : Watt max.
- Measuring conditions
 - PL-5, PL-7, PL-11 : 100 kHz, 200 mT, at 100°C
 - PL-9 : 100 kHz, 200 mT, at 80°C

2) AL value

- Unit : nH/N²
- Measuring conditions : 1 kHz, 0.1 V, 100Ts, at 23°C
- Tolerance: ±25%