Technical Data

EE Cores
EE0808S
EE0908S
EE1313S
EE1614S
EE1616S
EE1916S
EE2020S
EE2525F
EE2525W
EE2834S
EE3030S
EE3232S
EE3335S
EE3528S
EE4035S
EE4133N
EE4242B
EE4242S
EE4740S
EE5555A
EE5555S
EE5747S
EE6565S
EE8076S

EI Cores
EI1614S
EI1916S
EI2218S
EI2820S
EI3329S
EI4035S
EI5040S
EI6044S
EI7064S

EER Cores
EER0905S
EER1105S
EER2429S
EER2828N
EER2828S
EER2834N
EER2834S
EER3019N
EER3032S
EER3435S
EER3540S
EER3541S
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EER4214S
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EER6062S

EED Cores
EED2820S

PQ Cores
PQ2016S
PQ2020S
PQ2620S
PQ2625S
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PQ3535S
PQ4040S
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RM6
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DS Cores
DS3019
DS3119W
DS3319
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EFD Cores
EFD1515S
EFD1820S
EFD2020S
EFD2025N
EFD2124S
EFD2525S
EFD2525V
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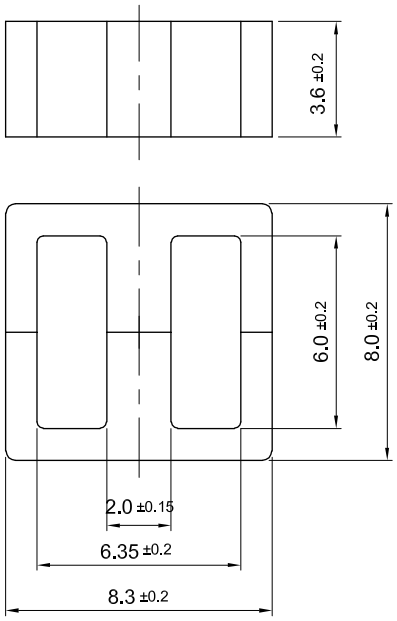
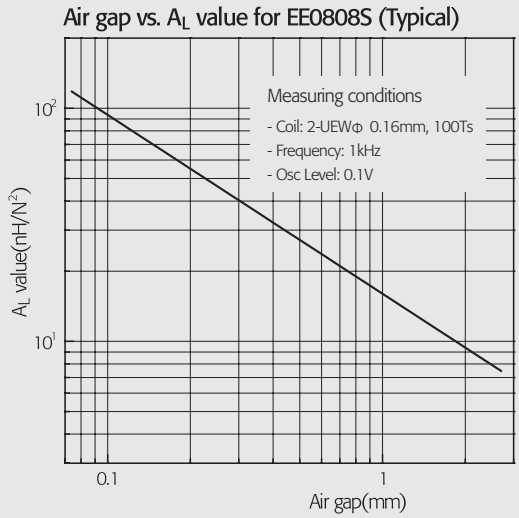
EFD3130S
EFD5050S
EPC1920S
EPC2525S

EP Cores
EP5D
EP7
EP10
EP13
EP17
EP20
EOP9.5

EE0808S



Parameter	Symbol	Value	Unit
Core constant	C1	2.960	mm^{-1}
Effective path length	le	19.7	mm
Effective area	Ae	6.7	mm^2
Effective volume	Ve	131	mm^3
Center leg area	Ac	6.0	mm^2
Winding area	Aw	14.0	mm^2
Weight of set	W	0.7	g

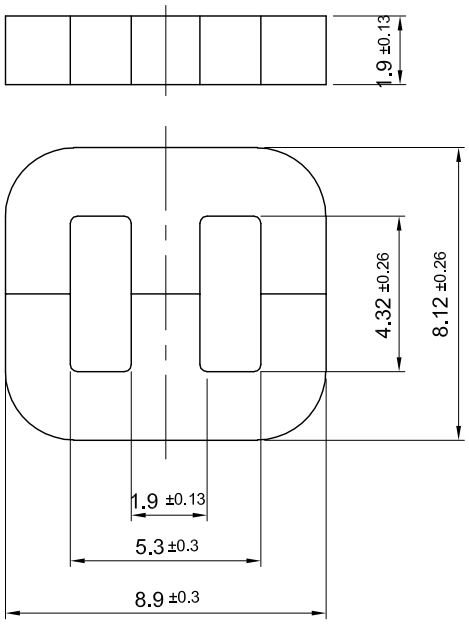


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1	1	2	3
Flyback converter	0.3	0.4	0.6	1
Forward converter	0.4	0.6	1	2

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

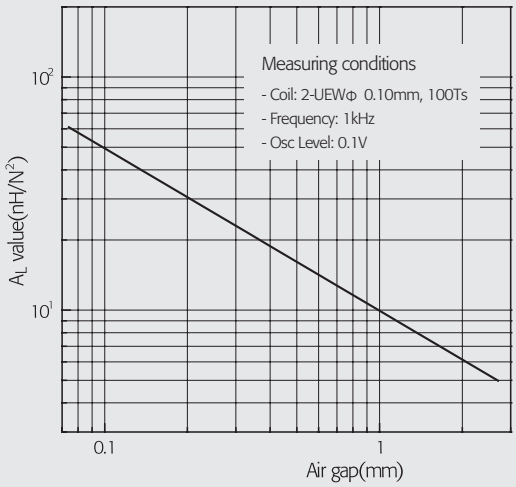
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	590 ± 25%	1390	0.00	0.09	PL-5 EE0808S
PL-7	590 ± 25%	1390	0.00	0.08	PL-7 EE0808S
	95 ± 15%	220	0.10		PL-7 EE0808S AL 95
	27 ± 10%	64	0.50		PL-7 EE0808S AL 27
	16 ± 5%	38	1.00		PL-7 EE0808S AL 16
PL-9	670 ± 25%	1580	0.00	0.06 (80℃)	PL-9 EE0808S
PL-11	600 ± 25%	1410	0.00	0.06	PL-11 EE0808S
SM-50	900 ± 25%	2120	0.00		SM-50 EE0808S
SM-60	1080 ± 25%	2540	0.00		SM-60 EE0808S
SM-70S	1100 ± 25%	2590	0.00		SM-70S EE0808S
SM-100	1550 ± 30%	3650	0.00		SM-100 EE0808S

EE0908S E8.8



Parameter	Symbol	Value	Unit
Core constant	C1	3.130	mm^{-1}
Effective path length	le	15.7	mm
Effective area	Ae	5.0	mm^2
Effective volume	Ve	78	mm^3
Center leg area	Ac	3.6	mm^2
Winding area	Aw	7.3	mm^2
Weight of set	W	0.5	g

Air gap vs. A_L value for EE0908S (Typical)

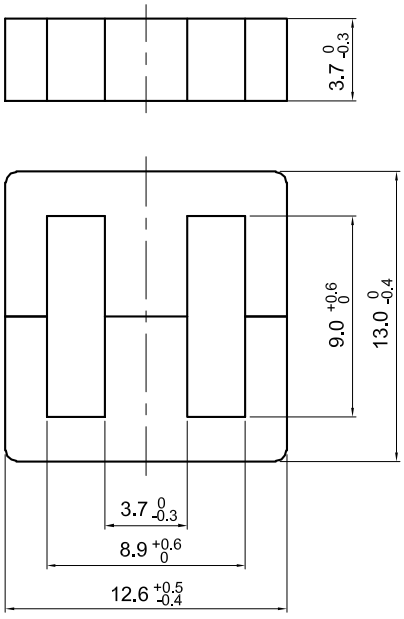


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	0.3	0.5	0.7	1
Flyback converter	0.1	0.2	0.2	0.5
Forward converter	0.2	0.3	0.4	0.7

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

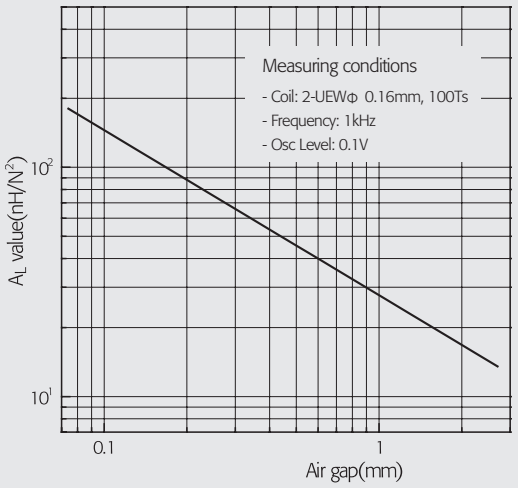
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	540 ± 25%	1340	0.00	0.07	PL-5 EE0908S
PL-7	540 ± 25%	1340	0.00	0.05	PL-7 EE0908S
	50 ± 15%	120	0.10		PL-7 EE0908S AL 50
	16 ± 10%	40	0.50		PL-7 EE0908S AL 16
	10 ± 5%	20	1.00		PL-7 EE0908S AL 10
PL-9	610 ± 25%	1520	0.00	0.04 (80℃)	PL-9 EE0908S
PL-11	550 ± 25%	1370	0.00	0.04	PL-11 EE0908S
SM-50	810 ± 25%	2020	0.00		SM-50 EE0908S
SM-60	970 ± 25%	2420	0.00		SM-60 EE0908S
SM-70S	1000 ± 25%	2490	0.00		SM-70S EE0908S
SM-100	1550 ± 30%	3860	0.00		SM-100 EE0908S

EE1313S E12.6



Parameter	Symbol	Value	Unit
Core constant	C1	2.390	mm^{-1}
Effective path length	le	29.7	mm
Effective area	Ae	12.4	mm^2
Effective volume	Ve	369	mm^3
Center leg area	Ac	12.6	mm^2
Winding area	Aw	26.2	mm^2
Weight of set	W	1.8	g

Air gap vs. A_L value for EE1313S (Typical)

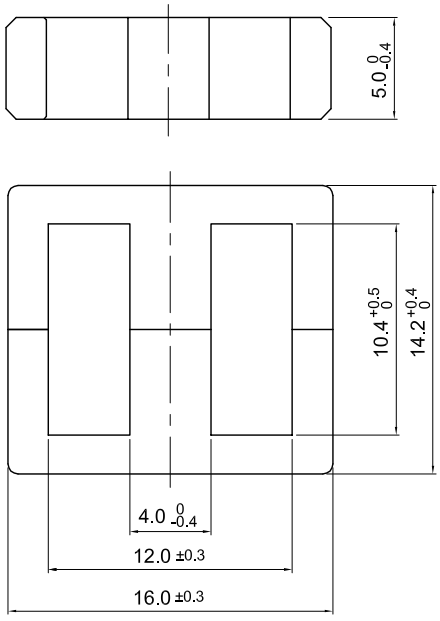


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	3	5	6	12
Flyback converter	1	2	2	4
Forward converter	1	2	3	6

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

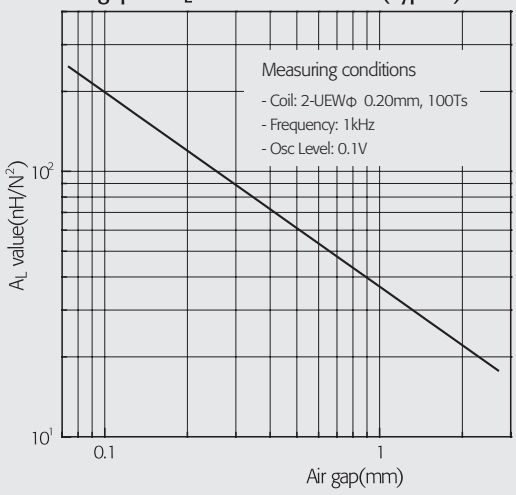
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	810 ± 25%	1540	0.00	0.23	PL-5 EE1313S
PL-7	810 ± 25%	1540	0.00	0.19	PL-7 EE1313S
	145 ± 15%	280	0.10		PL-7 EE1313S AL145
	46 ± 10%	87	0.50		PL-7 EE1313S AL46
	28 ± 5%	53	1.00		PL-7 EE1313S AL28
PL-9	940 ± 25%	1790	0.00	0.17 (80℃)	PL-9 EE1313S
PL-11	800 ± 25%	1520	0.00	0.17	PL-11 EE1313S
SM-50	1350 ± 25%	2570	0.00		SM-50 EE1313S
SM-60	1620 ± 25%	3080	0.00		SM-60 EE1313S
SM-70S	1700 ± 25%	3230	0.00		SM-70S EE1313S
SM-100	2600 ± 30%	4940	0.00		SM-100 EE1313S

EE1614S



Parameter	Symbol	Value	Unit
Core constant	C1	1.921	mm^{-1}
Effective path length	le	35.5	mm
Effective area	Ae	18.4	mm^2
Effective volume	Ve	655	mm^3
Center leg area	Ac	18.2	mm^2
Winding area	Aw	43.6	mm^2
Weight of set	W	3.2	g

Air gap vs. A_L value for EE1614S (Typical)



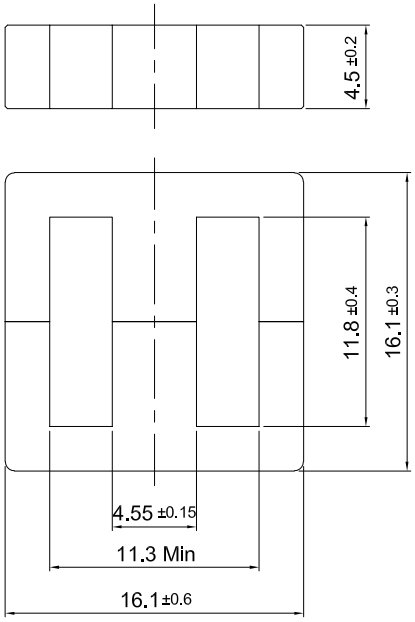
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	7	11	15	30
Flyback converter	2	4	5	10
Forward converter	3	6	8	15

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

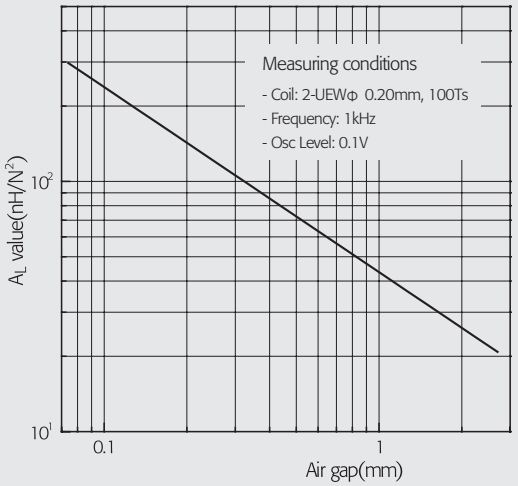
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1100 ± 25%	1680	0.00	0.40	PL-5 EE1614S
PL-7	1100 ± 25%	1680	0.00	0.33	PL-7 EE1614S
	200 ± 15%	306	0.10		PL-7 EE1614S AL200
	62 ± 10%	95	0.50		PL-7 EE1614S AL62
	37 ± 7%	57	1.00		PL-7 EE1614S AL37
PL-9	1300 ± 25%	1990	0.00	0.30 (80℃)	PL-9 EE1614S
PL-11	1200 ± 25%	1830	0.00	0.30	PL-11 EE1614S
SM-50	1900 ± 25%	2900	0.00		SM-50 EE1614S
SM-60	2280 ± 25%	3480	0.00		SM-60 EE1614S
SM-70S	2300 ± 25%	3510	0.00		SM-70S EE1614S
SM-100	3400 ± 30%	5200	0.00		SM-100 EE1614S

EE1616S EF16



Parameter	Symbol	Value	Unit
Core constant	C1	1.930	mm^{-1}
Effective path length	le	37.7	mm
Effective area	Ae	19.5	mm^2
Effective volume	Ve	737	mm^3
Center leg area	Ac	20.4	mm^2
Winding area	Aw	43.3	mm^2
Weight of set	W	3.7	g

Air gap vs. A_L value for E1616S (Typical)

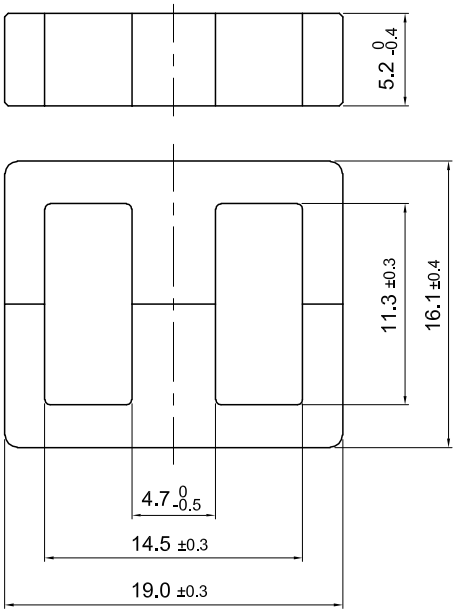


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	7	12	16	32
Flyback converter	2	4	5	11
Forward converter	4	6	8	16

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

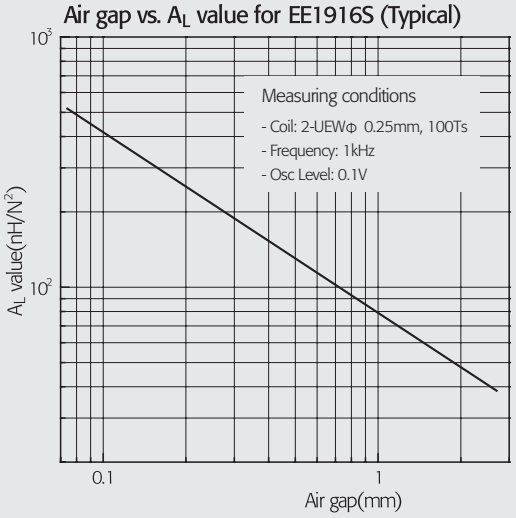
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1100 ± 25%	1690	0.00	0.45	PL-5 EE1616S
PL-7	1100 ± 25%	1690	0.00	0.38	PL-7 EE1616S
	240 ± 15%	370	0.10		PL-7 EE1616S AL240
	73 ± 7%	112	0.50		PL-7 EE1616S AL73
	43 ± 5%	66	1.00		PL-7 EE1616S AL43
PL-9	1300 ± 25%	2000	0.00	0.31 (80℃)	PL-9 EE1616S
PL-11	1200 ± 25%	1840	0.00	0.31	PL-11 EE1616S
SM-50	2000 ± 25%	3070	0.00		SM-50 EE1616S
SM-60	2400 ± 25%	3680	0.00		SM-60 EE1616S
SM-70S	2600 ± 25%	3990	0.00		SM-70S EE1616S
SM-100	3550 ± 30%	5450	0.00		SM-100 EE1616S

EE1916S



Parameter	Symbol	Value	Unit
Core constant	C1	1.743	mm^{-1}
Effective path length	le	39.9	mm
Effective area	Ae	22.8	mm^2
Effective volume	Ve	913	mm^3
Center leg area	Ac	22.2	mm^2
Winding area	Aw	56.7	mm^2
Weight of set	W	4.6	g

Air gap vs. A_L value for EE1916S (Typical)

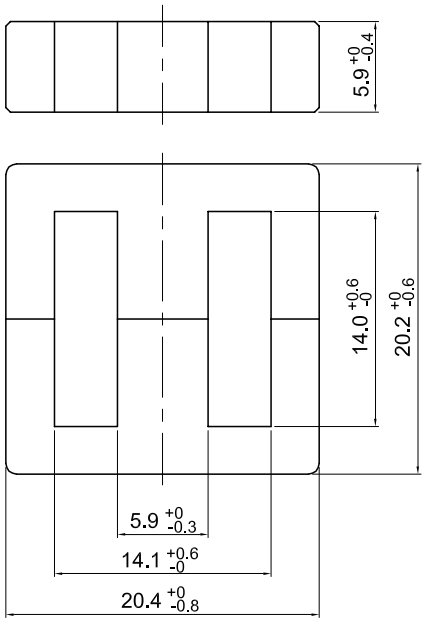


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	11	18	25	48
Flyback converter	4	6	8	16
Forward converter	6	9	12	24

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

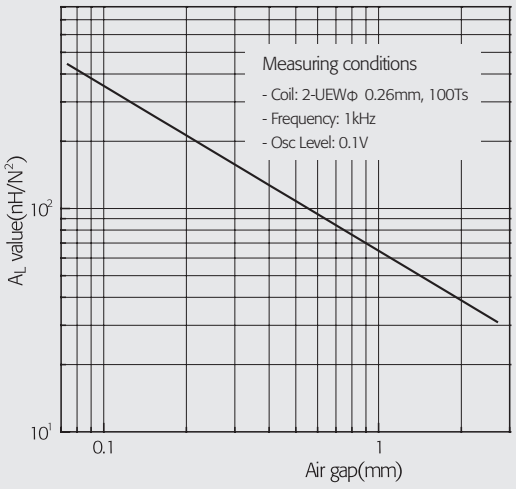
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1250 ± 25%	1730	0.00	0.55	PL-5 EE1916S
PL-7	1250 ± 25%	1730	0.00	0.46	PL-7 EE1916S
	420 ± 15%	580	0.10		PL-7 EE1916S AL420
	130 ± 9%	180	0.50		PL-7 EE1916S AL130
	80 ± 7%	110	1.00		PL-7 EE1916S AL80
PL-9	1480 ± 25%	2050	0.00	0.38 (80℃)	PL-9 EE1916S
PL-11	1300 ± 25%	1800	0.00	0.38	PL-11 EE1916S
SM-50	2250 ± 25%	3120	0.00		SM-50 EE1916S
SM-60	2700 ± 25%	3740	0.00		SM-60 EE1916S
SM-70S	2800 ± 25%	3880	0.00		SM-70S EE1916S
SM-100	3850 ± 30%	5340	0.00		SM-100 EE1916S

EE2020S EF20



Parameter	Symbol	Value	Unit
Core constant	C1	1.431	mm^{-1}
Effective path length	le	46.1	mm
Effective area	Ae	32.2	mm^2
Effective volume	Ve	1480	mm^3
Center leg area	Ac	32.7	mm^2
Winding area	Aw	61.8	mm^2
Weight of set	W	7.5	g

Air gap vs. A_L value for EE2020S (Typical)

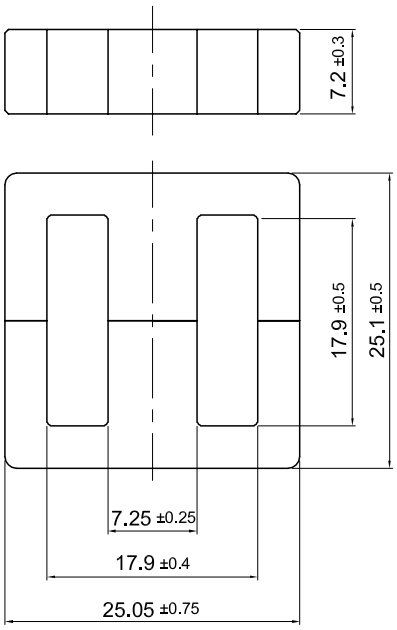


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	17	28	38	74
Flyback converter	6	9	13	25
Forward converter	8	14	19	37

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

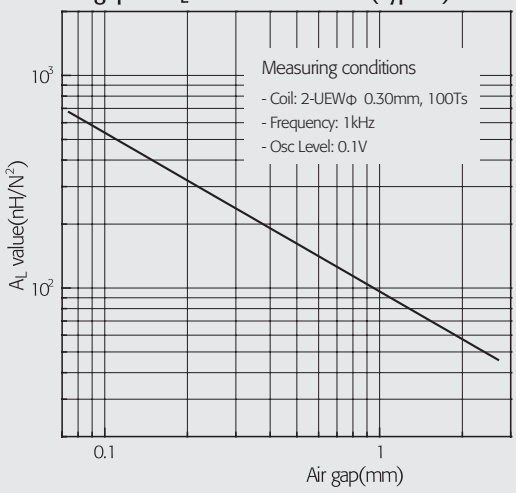
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1540 ± 25%	1750	0.00	0.89	PL-5 EE2020S
PL-7	1540 ± 25%	1750	0.00	0.74	PL-7 EE2020S
	355 ± 15%	400	0.10		PL-7 EE2020S AL355
	110 ± 8%	130	0.50		PL-7 EE2020S AL110
	63 ± 5%	72	1.00		PL-7 EE2020S AL63
PL-9	1830 ± 25%	2080	0.00	0.61 (80℃)	PL-9 EE2020S
PL-11	1600 ± 25%	1820	0.00	0.61	PL-11 EE2020S
SM-50	2800 ± 25%	3190	0.00		SM-50 EE2020S
SM-60	3360 ± 25%	3830	0.00		SM-60 EE2020S
SM-70S	3600 ± 25%	4100	0.00		SM-70S EE2020S
SM-100	4850 ± 30%	5520	0.00		SM-100 EE2020S

EE2525F EF25



Parameter	Symbol	Value	Unit
Core constant	C1	1.114	mm^{-1}
Effective path length	le	57.8	mm
Effective area	Ae	51.8	mm^2
Effective volume	Ve	2990	mm^3
Center leg area	Ac	52.1	mm^2
Winding area	Aw	95.3	mm^2
Weight of set	W	15	g

Air gap vs. A_L value forEE2525F (Typical)

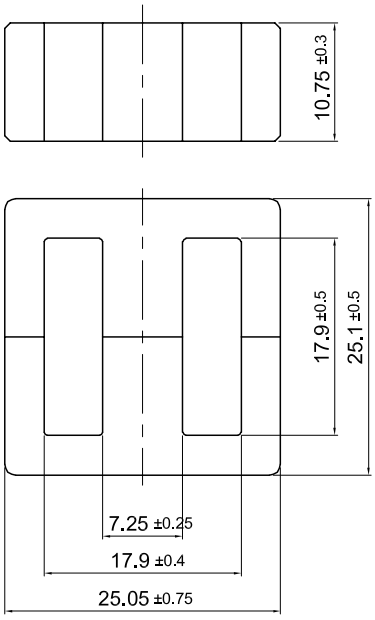


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	42	68	95	184
Flyback converter	14	23	32	61
Forward converter	21	34	47	92

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

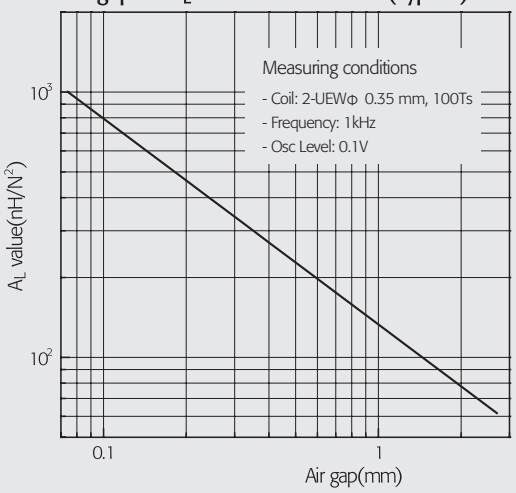
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2100 ± 25%	1860	0.00	1.80	PL-5 EE2525F
PL-7	2100 ± 25%	1860	0.00	1.50	PL-7 EE2525F
	540 ± 15%	480	0.10		PL-7 EE2525F AL540
	160 ± 9%	140	0.50		PL-7 EE2525F AL160
	97 ± 7%	86	1.00		PL-7 EE2525F AL97
PL-9	2350± 25%	2080	0.00	1.23 (80℃)	PL-9 EE2525F
PL-11	2200 ± 25%	1950	0.00	1.23	PL-11 EE2525F
SM-50	4000 ± 25%	3540	0.00		SM-50 EE2525F
SM-60	4800 ± 25%	4250	0.00		SM-60 EE2525F
SM-70S	4900 ± 25%	4340	0.00		SM-70S EE2525F
SM-100	6500 ± 30%	5760	0.00		SM-100 EE2525F

EE2525W EF25/11



Parameter	Symbol	Value	Unit
Core constant	C1	0.746	mm^{-1}
Effective path length	le	57.8	mm
Effective area	Ae	77.3	mm^2
Effective volume	Ve	4470	mm^3
Center leg area	Ac	77.9	mm^2
Winding area	Aw	95.3	mm^2
Weight of set	W	22	g

Air gap vs. A_L value for EE2525W (Typical)

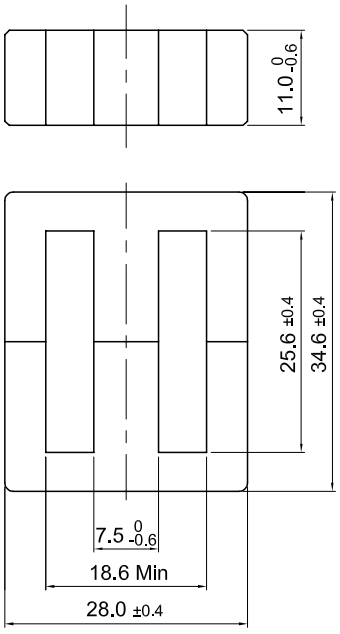


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	63	102	141	275
Flyback converter	21	34	47	92
Forward converter	31	51	71	137

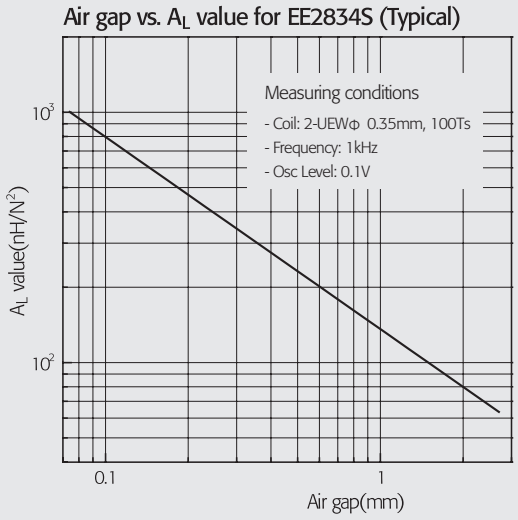
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3150 ± 25%	1870	0.00	2.70	PL-5 EE2525W
PL-7	3150 ± 25%	1870	0.00	2.25	PL-7 EE2525W
	790 ± 17%	470	0.10		PL-7 EE2525W AL790
	230 ± 13%	140	0.50		PL-7 EE2525W AL230
	130 ± 8%	80	1.00		PL-7 EE2525W AL130
PL-9	3500 ± 25%	2080	0.00	1.85 (80℃)	PL-9 EE2525W
PL-11	3300 ± 25%	1960	0.00	1.85	PL-11 EE2525W
SM-50	5800 ± 25%	3440	0.00		SM-50 EE2525W
SM-60	6960 ± 25%	4130	0.00		SM-60 EE2525W
SM-70S	7500 ± 25%	4450	0.00		SM-70S EE2525W
SM-100	9700 ± 30%	5760	0.00		SM-100 EE2525W

EE2834S



Parameter	Symbol	Value	Unit
Core constant	C1	0.867	mm^{-1}
Effective path length	le	75.6	mm
Effective area	Ae	87.1	mm^2
Effective volume	Ve	6580	mm^3
Center leg area	Ac	77.0	mm^2
Winding area	Aw	151.1	mm^2
Weight of set	W	28	g

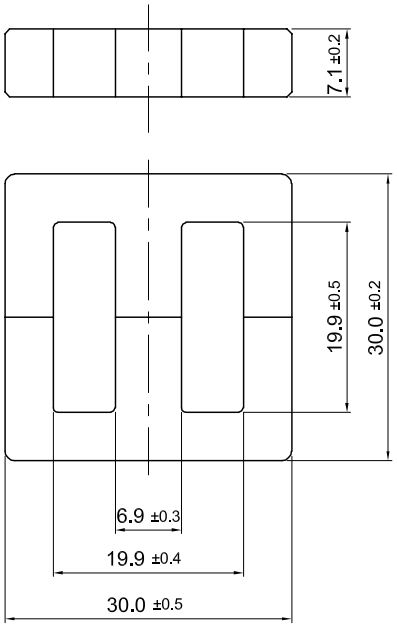


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	112	182	252	490
Flyback converter	37	60	84	163
Forward converter	56	91	126	245

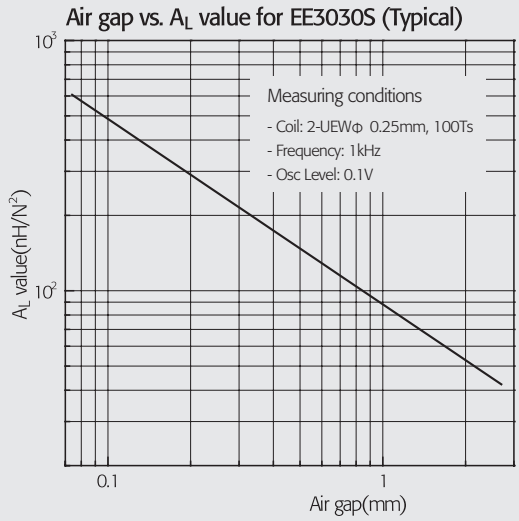
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2600 ± 25%	1790	0.00	3.95	PL-5 EE2834S
PL-7	2600 ± 25%	1790	0.00	3.30	PL-7 EE2834S
	790 ± 15%	540	0.10		PL-7 EE2834S AL790
	230 ± 7%	160	0.50		PL-7 EE2834S AL230
	135 ± 5%	90	1.00		PL-7 EE2834S AL135
PL-9	3050 ± 25%	2100	0.00	2.70 (80℃)	PL-9 EE2834S
PL-11	2700 ± 25%	1860	0.00	2.70	PL-11 EE2834S
SM-50	5070 ± 25%	3500	0.00		SM-50 EE2834S
SM-60	6090 ± 25%	4200	0.00		SM-60 EE2834S
SM-70S	7070 ± 25%	4880	0.00		SM-70S EE2834S
SM-100	7970 ± 30%	5500	0.00		SM-100 EE2834S

EE3030S E30/15/7



Parameter	Symbol	Value	Unit
Core constant	C1	1.089	mm^{-1}
Effective path length	le	65.4	mm
Effective area	Ae	60.0	mm^2
Effective volume	Ve	3920	mm^3
Center leg area	Ac	48.9	mm^2
Winding area	Aw	129.0	mm^2
Weight of set	W	21	g

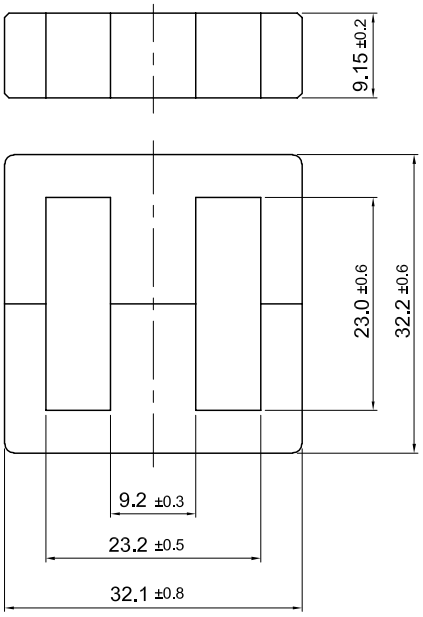


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	66	107	149	289
Flyback converter	22	36	50	96
Forward converter	33	54	74	144

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

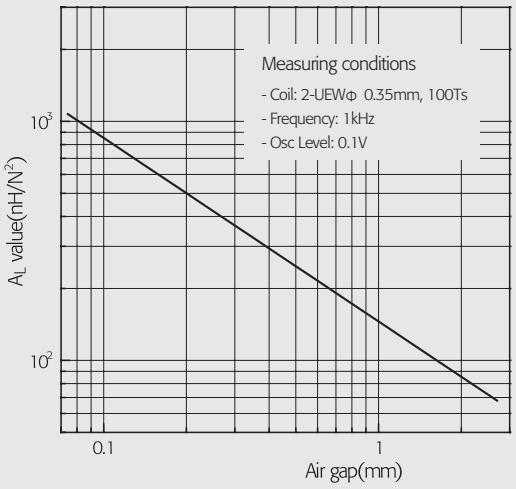
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2000 ± 25%	1730	0.00	2.36	PL-5 EE3030S
PL-7	2000 ± 25%	1730	0.00	1.96	PL-7 EE3030S
	480 ± 10%	420	0.10		PL-7 EE3030S AL480
	150 ± 7%	130	0.50		PL-7 EE3030S AL150
	90 ± 5%	80	1.00		PL-7 EE3030S AL90
PL-9	2350 ± 25%	2040	0.00	1.61 (80℃)	PL-9 EE3030S
PL-11	2100 ± 25%	1820	0.00	1.61	PL-11 EE3030S

EE3232S EF32



Parameter	Symbol	Value	Unit
Core constant	C1	0.894	mm^{-1}
Effective path length	le	74.3	mm
Effective area	Ae	83.1	mm^2
Effective volume	Ve	6180	mm^3
Center leg area	Ac	84.1	mm^2
Winding area	Aw	161.0	mm^2
Weight of set	W	31	g

Air gap vs. A_L value for EE3232S (Typical)

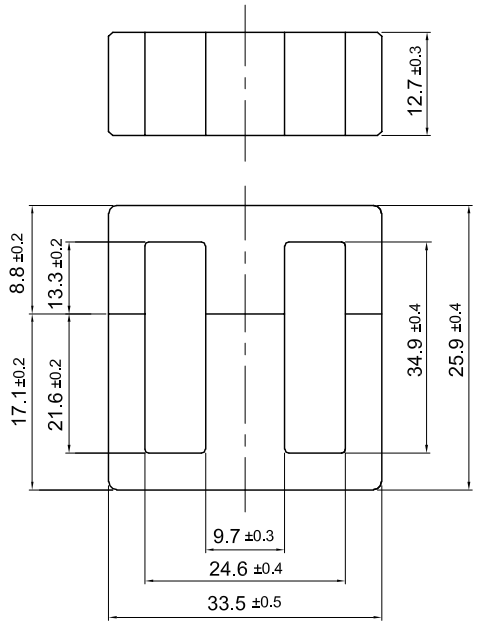


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	114	185	257	499
Flyback converter	38	62	86	166
Forward converter	57	93	128	250

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

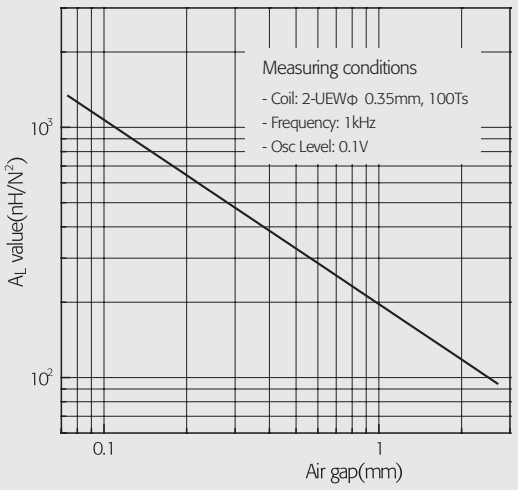
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2400 ± 25%	1700	0.00	3.71	PL-5 EE3232S
PL-7	2400 ± 25%	1700	0.00	3.10	PL-7 EE3232S
	860 ± 10%	610	0.10		PL-7 EE3232S AL860
	250 ± 7%	170	0.50		PL-7 EE3232S AL250
	115 ± 5%	80	1.00		PL-7 EE3232S AL115
PL-9	2850 ± 25%	2020	0.00	2.54 (80℃)	PL-9 EE3232S
PL-11	2500 ± 25%	1770	0.00	2.54	PL-11 EE3232S

EE3335S



Parameter	Symbol	Value	Unit
Core constant	C1	0.693	mm^{-1}
Effective path length	le	81.0	mm
Effective area	Ae	116.0	mm^2
Effective volume	Ve	9450	mm^3
Center leg area	Ac	123.0	mm^2
Winding area	Aw	192.0	mm^2
Weight of set	W	47	g

Air gap vs. A_L value for EE3335S (Typical)

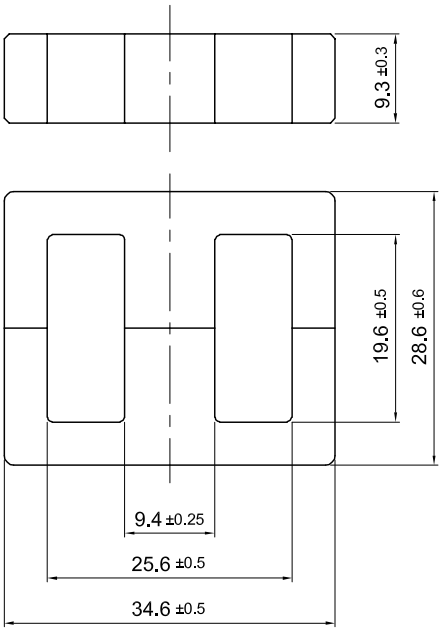


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	190	309	427	831
Flyback converter	63	103	142	277
Forward converter	95	154	214	416

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

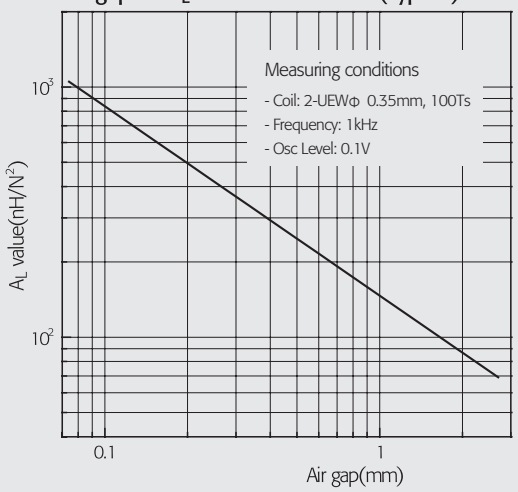
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3300 ± 25%	1820	0.00	5.70	PL-5 EE3335S
PL-7	3300 ± 25%	1820	0.00	4.75	PL-7 EE3335S
	1065 ± 15%	590	0.10		PL-7 EE3335S AL1065
	335 ± 7%	180	0.50		PL-7 EE3335S AL335
	195 ± 5%	110	1.00		PL-7 EE3335S AL195
PL-9	3700 ± 25%	2040	0.00	3.90 (80℃)	PL-9 EE3335S
PL-11	3400 ± 25%	1870	0.00	3.90	PL-11 EE3335S

EE3528S E375



Parameter	Symbol	Value	Unit
Core constant	C1	0.821	mm^{-1}
Effective path length	le	69.7	mm
Effective area	Ae	84.8	mm^2
Effective volume	Ve	5910	mm^3
Center leg area	Ac	87.4	mm^2
Winding area	Aw	158.0	mm^2
Weight of set	W	29	g

Air gap vs. A_L value for EE3528S (Typical)



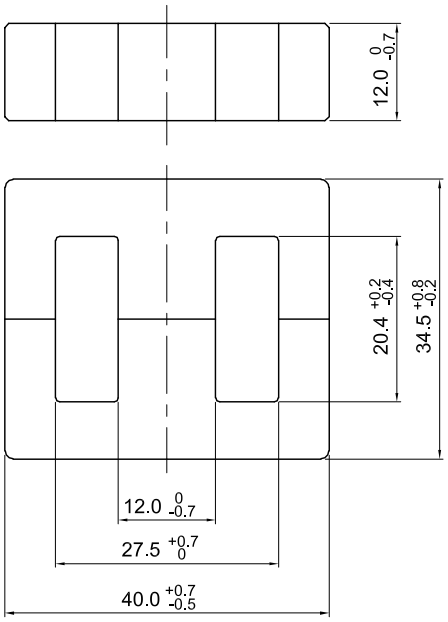
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	114	186	257	500
Flyback converter	38	62	86	167
Forward converter	57	93	129	250

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

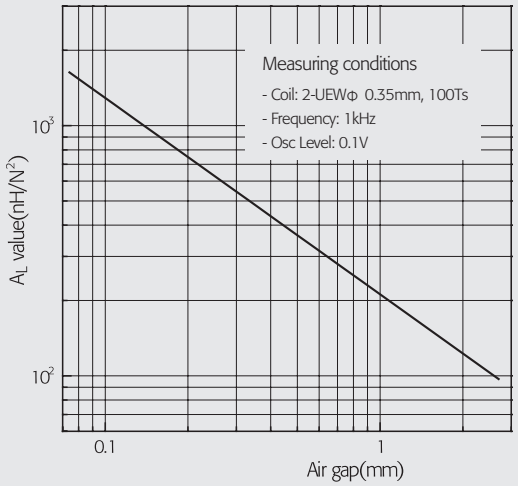
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2600 ± 25%	1700	0.00	3.55	PL-5 EE3528S
PL-7	2600 ± 25%	1700	0.00	2.96	PL-7 EE3528S
	830 ± 15%	540	0.10		PL-7 EE3528S AL830
	250 ± 7%	160	0.50		PL-7 EE3528S AL250
	145 ± 5%	90	1.00		PL-7 EE3528S AL145
PL-9	3100 ± 25%	2020	0.00	2.43 (80℃)	PL-9 EE3528S
PL-11	2700 ± 25%	1760	0.00	2.43	PL-11 EE3528S

EE4035S



Parameter	Symbol	Value	Unit
Core constant	C1	0.523	mm^{-1}
Effective path length	le	77.1	mm
Effective area	Ae	147.0	mm^2
Effective volume	Ve	11370	mm^3
Center leg area	Ac	135.0	mm^2
Winding area	Aw	164.0	mm^2
Weight of set	W	59	g

Air gap vs. A_L value for EE4035S (Typical)

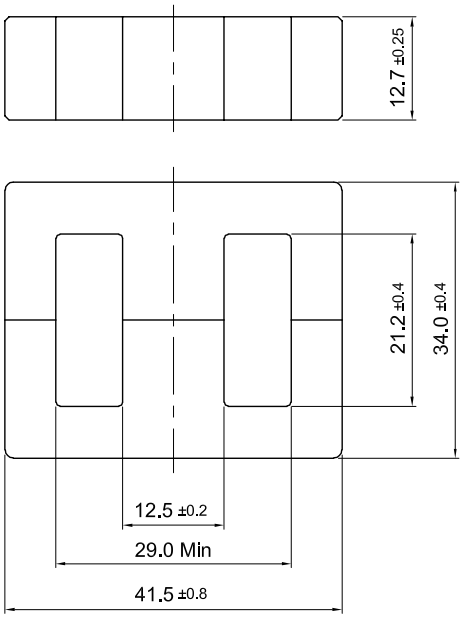


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	206	334	463	900
Flyback converter	69	111	154	300
Forward converter	103	167	231	450

Note : 1) Core loss is assumed to be approx. $0.1W/cm^3$.
2) Temperature rise should be considered for design before choosing the final core size.

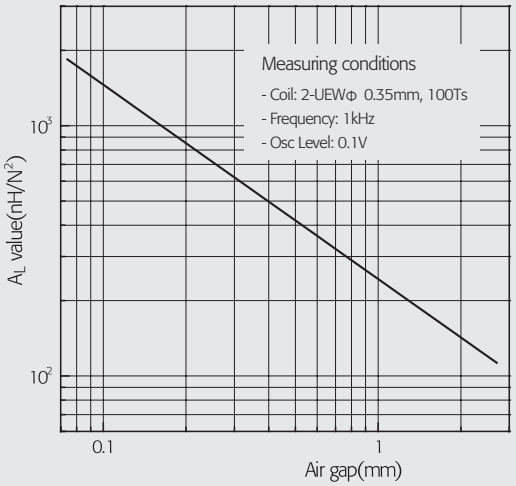
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4000 ± 25%	1660	0.00	6.85	PL-5 EE4035S
PL-7	4000 ± 25%	1660	0.00	5.70	PL-7 EE4035S
	1275 ± 15%	530	0.10		PL-7 EE4035S AL1275
	370 ± 7%	150	0.50		PL-7 EE4035S AL370
	210 ± 5%	90	1.00		PL-7 EE4035S AL210
PL-9	4800 ± 25%	2000	0.00	4.70 (80℃)	PL-9 EE4035S
PL-11	4200 ± 25%	1750	0.00	4.70	PL-11 EE4035S

EE4133N E21



Parameter	Symbol	Value	Unit
Core constant	C1	0.500	mm^{-1}
Effective path length	le	79.0	mm
Effective area	Ae	157.0	mm^2
Effective volume	Ve	12470	mm^3
Center leg area	Ac	158.0	mm^2
Winding area	Aw	180.0	mm^2
Weight of set	W	64	g

Air gap vs. A_L value for EE4133N (Typical)

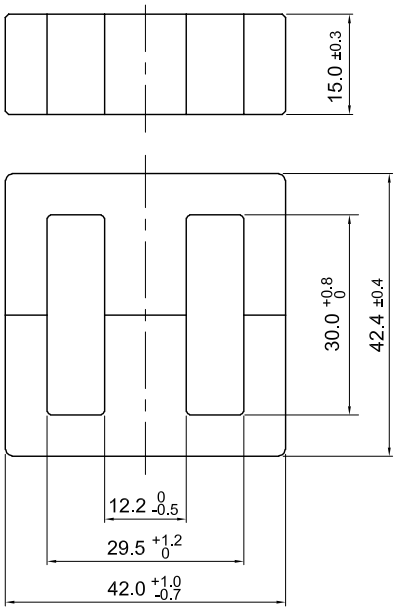


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	241	392	542	1054
Flyback converter	80	131	181	351
Forward converter	121	196	271	527

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

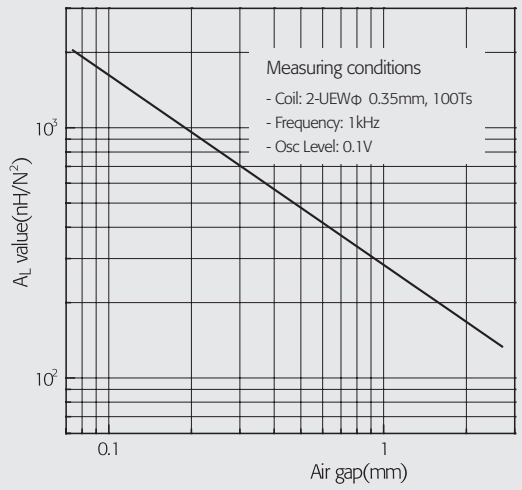
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4200 ± 25%	1670	0.00	7.50	PL-5 EE4133N
PL-7	4200 ± 25%	1670	0.00	6.25	PL-7 EE4133N
	1410 ± 15%	560	0.10		PL-7 EE4133N AL1410
	425 ± 10%	170	0.50		PL-7 EE4133N AL425
	245 ± 6%	100	1.00		PL-7 EE4133N AL245
PL-9	4900 ± 25%	1950	0.00	5.15 (80℃)	PL-9 EE4133N
PL-11	4400 ± 25%	1750	0.00	5.15	PL-11 EE4133N

EE4242B E42/21/15



Parameter	Symbol	Value	Unit
Core constant	C1	0.547	mm^{-1}
Effective path length	le	97.9	mm
Effective area	Ae	178.0	mm^2
Effective volume	Ve	17510	mm^3
Center leg area	Ac	176.0	mm^2
Winding area	Aw	278.0	mm^2
Weight of set	W	88	g

Air gap vs. A_L value for EE4242B (Typical)

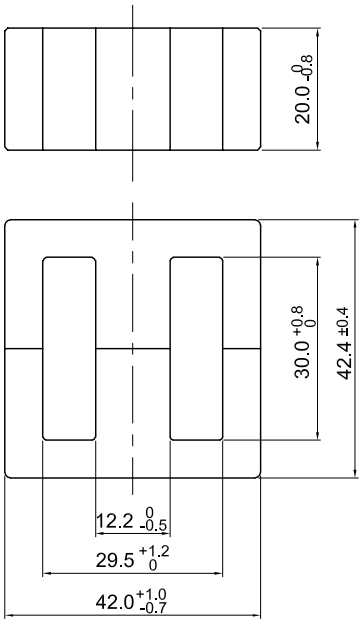


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	422	686	950	1846
Flyback converter	141	229	317	615
Forward converter	211	343	475	923

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

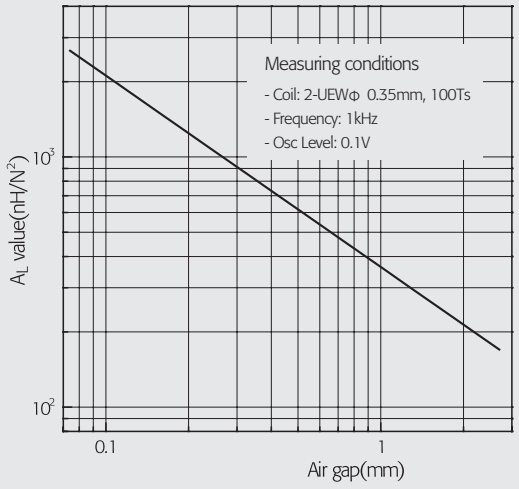
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3800 ± 25%	1650	0.00	10.60	PL-5 EE4242B
PL-7	3800 ± 25%	1650	0.00	8.80	PL-7 EE4242B
	1560 ± 15%	680	0.10		PL-7 EE4242B AL1560
	480 ± 10%	210	0.50		PL-7 EE4242B AL480
	260 ± 6%	110	1.00		PL-7 EE4242B AL260
PL-9	4500 ± 25%	1960	0.00	7.20 (80℃)	PL-9 EE4242B
PL-11	4000 ± 25%	1740	0.00	7.20	PL-11 EE4242B

EE4242S E42/21/20



Parameter	Symbol	Value	Unit
Core constant	C1	0.416	mm^{-1}
Effective path length	le	97.8	mm
Effective area	Ae	235.0	mm^2
Effective volume	Ve	23000	mm^3
Center leg area	Ac	234.0	mm^2
Winding area	Aw	275.0	mm^2
Weight of set	W	116	g

Air gap vs. A_L value for EE4242S (Typical)

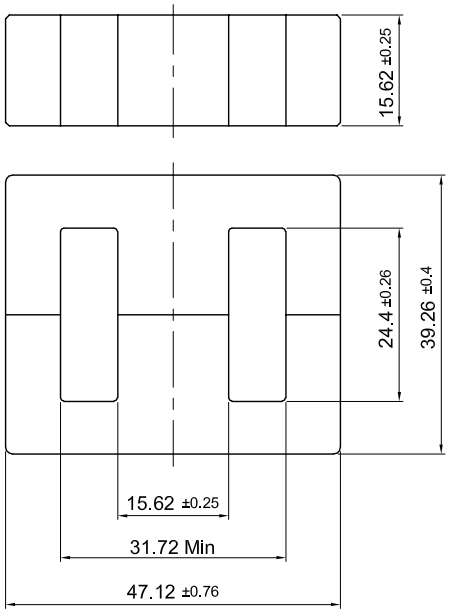


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	551	896	1240	2411
Flyback converter	184	299	413	804
Forward converter	276	448	620	1206

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

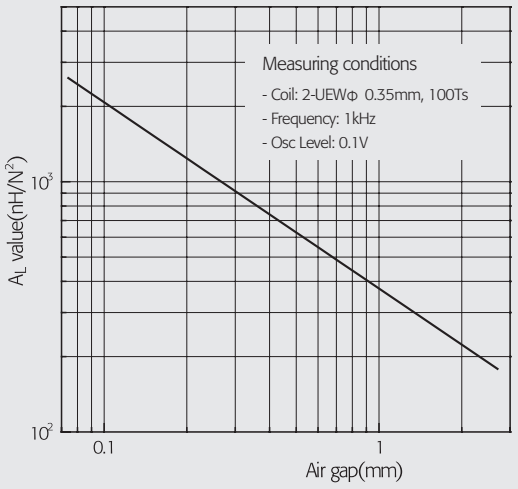
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5000 ± 25%	1650	0.00	14.00	PL-5 EE4242S
PL-7	5000 ± 25%	1650	0.00	11.60	PL-7 EE4242S
	2060 ± 18%	680	0.10		PL-7 EE4242S AL2060
	620 ± 13%	210	0.50		PL-7 EE4242S AL620
	360 ± 7%	120	1.00		PL-7 EE4242S AL360
PL-9	6000 ± 25%	1990	0.00	9.50 (80℃)	PL-9 EE4242S
PL-11	5200 ± 25%	1720	0.00	9.50	PL-11 EE4242S

EE4740S E625



Parameter	Symbol	Value	Unit
Core constant	C1	0.380	mm^{-1}
Effective path length	le	89.2	mm
Effective area	Ae	234.0	mm^2
Effective volume	Ve	20920	mm^3
Center leg area	Ac	228.0	mm^2
Winding area	Aw	205.0	mm^2
Weight of set	W	107	g

Air gap vs. AL value for EE4740S (Typical)



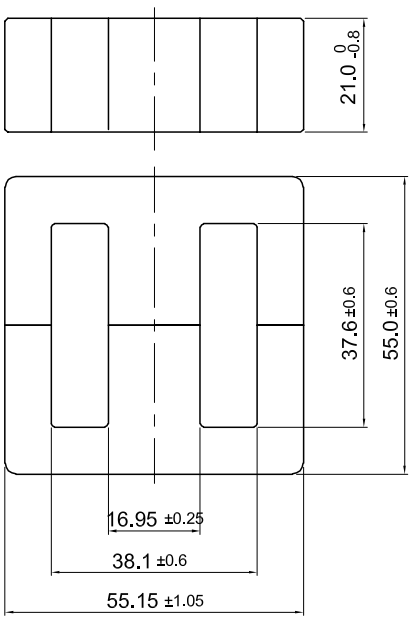
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	409	665	921	1790
Flyback converter	136	222	307	597
Forward converter	205	332	460	895

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

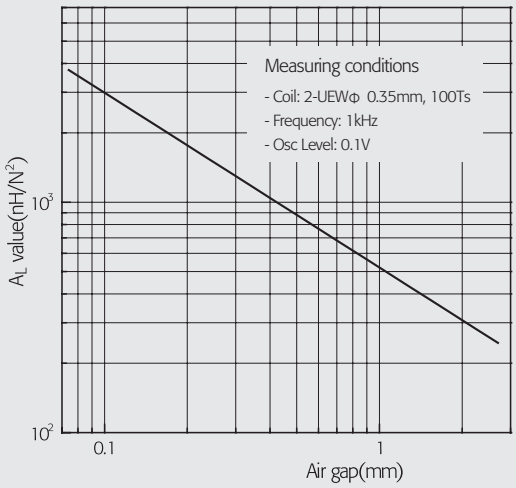
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5500 ± 25%	1660	0.00	12.60	PL-5 EE4740S
PL-7	5500 ± 25%	1660	0.00	10.50	PL-7 EE4740S
	2025 ± 15%	610	0.10		PL-7 EE4740S AL2025
	645 ± 10%	190	0.50		PL-7 EE4740S AL645
	375 ± 7%	110	1.00		PL-7 EE4740S AL375
PL-9	6600 ± 25%	2000	0.00	8.60 (80℃)	PL-9 EE4740S
PL-11	5700 ± 25%	1720	0.00	8.60	PL-11 EE4740S

EE5555A E55/28/21



Parameter	Symbol	Value	Unit
Core constant	C1	0.350	mm^{-1}
Effective path length	le	123.0	mm
Effective area	Ae	352.0	mm^2
Effective volume	Ve	43470	mm^3
Center leg area	Ac	349.0	mm^2
Winding area	Aw	397.0	mm^2
Weight of set	W	221	g

Air gap vs. A_L value for EE5555A (Typical)

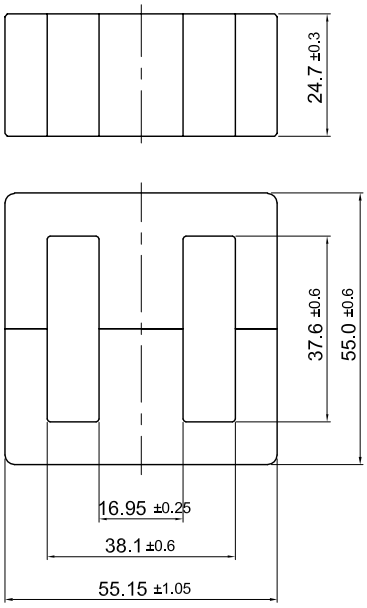


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1192	1937	2682	5214
Flyback converter	397	646	894	1738
Forward converter	596	968	1341	2607

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

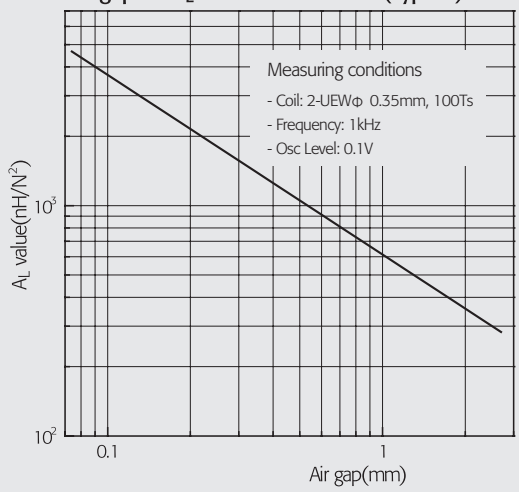
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	6000 ± 25%	1670	0.00	26.10	PL-5 EE5555A
PL-7	6000 ± 25%	1670	0.00	22.00	PL-7 EE5555A
	2870 ± 15%	800	0.10		PL-7 EE5555A AL2870
	910 ± 10%	250	0.50		PL-7 EE5555A AL910
	520 ± 8%	140	1.00		PL-7 EE5555A AL520
PL-9	7100 ± 25%	1980	0.00	20.00 (80℃)	PL-9 EE5555A
PL-11	6300 ± 25%	1750	0.00	20.00	PL-11 EE5555A

EE5555S E55/28/25



Parameter	Symbol	Value	Unit
Core constant	C1	0.292	mm^{-1}
Effective path length	le	123.0	mm
Effective area	Ae	422.0	mm^2
Effective volume	Ve	52130	mm^3
Center leg area	Ac	418.0	mm^2
Winding area	Aw	397.0	mm^2
Weight of set	W	265	g

Air gap vs. A_L value for EE5555S (Typical)

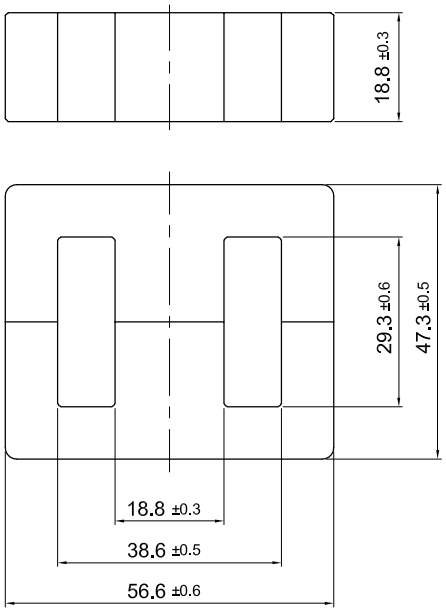


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1429	2322	3215	6251
Flyback converter	476	774	1072	2084
Forward converter	714	1161	1607	3126

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

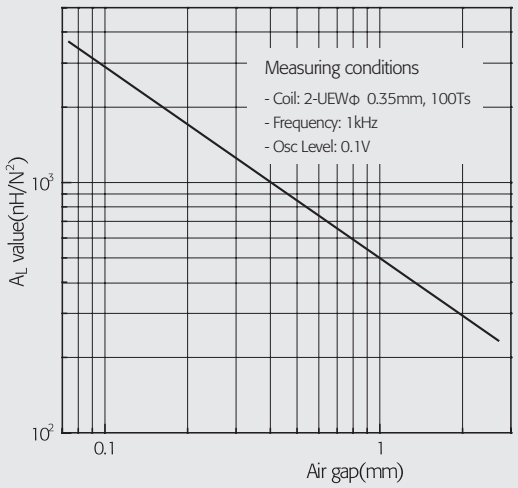
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	7200 ± 25%	1670	0.00	31.50	PL-5 EE5555S
PL-7	7200 ± 25%	1670	0.00	26.50	PL-7 EE5555S
	3620 ± 15%	840	0.10		PL-7 EE5555S AL3620
	1090 ± 12%	250	0.50		PL-7 EE5555S AL1090
	620 ± 10%	140	1.00		PL-7 EE5555S AL620
PL-9	8500 ± 25%	1970	0.00	24.00 (80℃)	PL-9 EE5555S
PL-11	7500 ± 25%	1740	0.00	24.00	PL-11 EE5555S

EE5747S E75



Parameter	Symbol	Value	Unit
Core constant	C1	0.312	mm^{-1}
Effective path length	le	107.0	mm
Effective area	Ae	343.0	mm^2
Effective volume	Ve	36710	mm^3
Center leg area	Ac	353.0	mm^2
Winding area	Aw	290.0	mm^2
Weight of set	W	189	g

Air gap vs. A_L value for EE5747S (Typical)

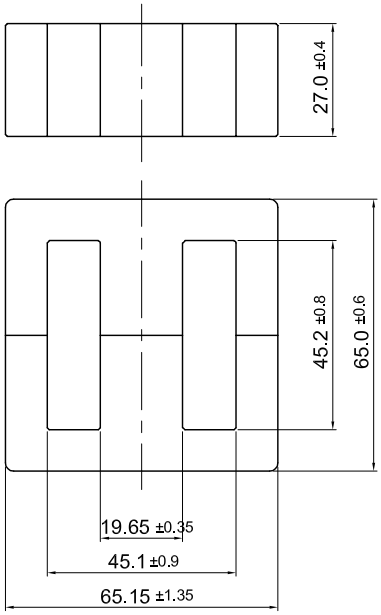


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	848	1379	1909	3712
Flyback converter	283	460	636	1237
Forward converter	424	689	954	1856

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

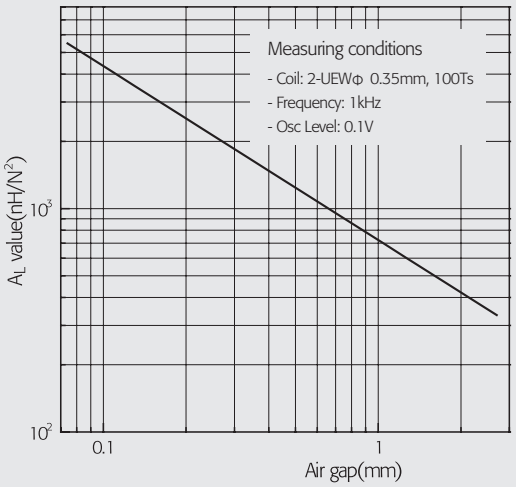
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	7000 ± 25%	1740	0.00	22.50	PL-5 EE5747S
PL-7	7000 ± 25%	1740	0.00	19.00	PL-7 EE5747S
	2780 ± 15%	690	0.10		PL-7 EE5747S AL2780
	880 ±12%	220	0.50		PL-7 EE5747S AL880
	500 ± 8%	120	1.00		PL-7 EE5747S AL500
PL-9	8200 ± 25%	2040	0.00	17.00 (80℃)	PL-9 EE5747S
PL-11	7300 ± 25%	1810	0.00	17.00	PL-11 EE5747S

EE6565S E65/32/27



Parameter	Symbol	Value	Unit
Core constant	C1	0.274	mm^{-1}
Effective path length	le	147.0	mm
Effective area	Ae	535.0	mm^2
Effective volume	Ve	78700	mm^3
Center leg area	Ac	530.0	mm^2
Winding area	Aw	575.0	mm^2
Weight of set	W	399	g

Air gap vs. A_L value for EE6565S (Typical)

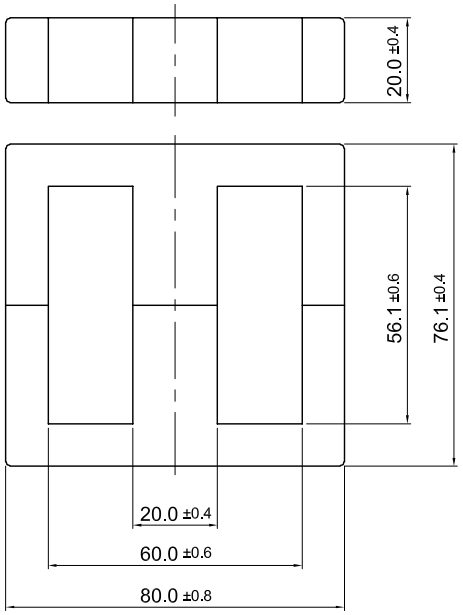


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	2624	4263	5903	11479
Flyback converter	875	1421	1968	3826
Forward converter	1312	2132	2952	5739

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

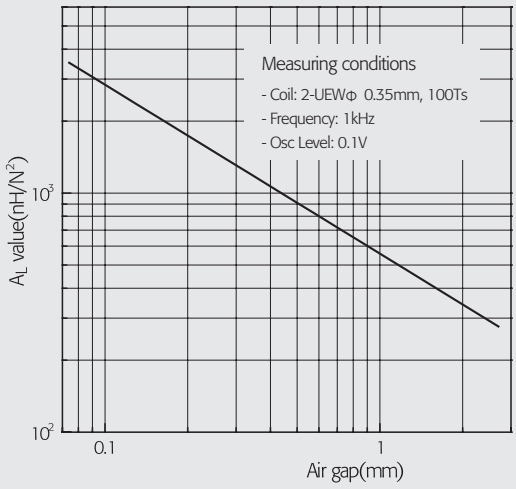
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	8000 ± 25%	1740	0.00	48.00	PL-5 EE6565S
PL-7	8000 ± 25%	1740	0.00	40.00	PL-7 EE6565S
	4150 ± 15%	900	0.10		PL-7 EE6565S AL4150
	1265 ± 12%	280	0.50		PL-7 EE6565S AL1265
	730 ± 10%	160	1.00		PL-7 EE6565S AL730
PL-9	9150 ± 25%	1990	0.00	36.00 (80℃)	PL-9 EE6565S
PL-11	8300 ± 25%	1810	0.00	36.00	PL-11 EE6565S

EE8076S



Parameter	Symbol	Value	Unit
Core constant	C1	0.475	mm^{-1}
Effective path length	le	189.8	mm
Effective area	Ae	400.0	mm^2
Effective volume	Ve	75920	mm^3
Center leg area	Ac	400.0	mm^2
Winding area	Aw	1122.0	mm^2
Weight of set	W	391	g

Air gap vs. A_L value for EE8076S (Typical)

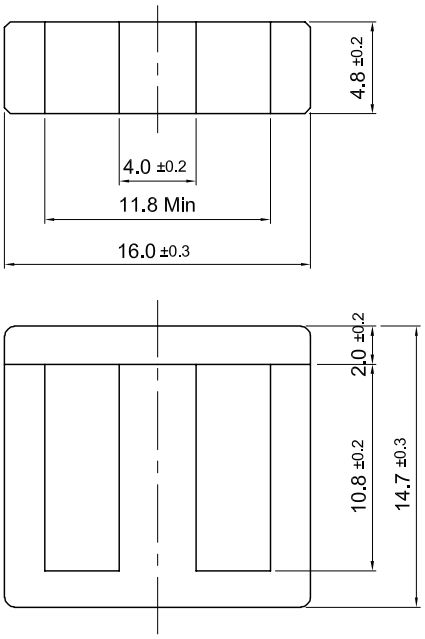


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	3828	6220	8612	16746
Flyback converter	1276	2073	2871	5582
Forward converter	1914	3110	4306	8373

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

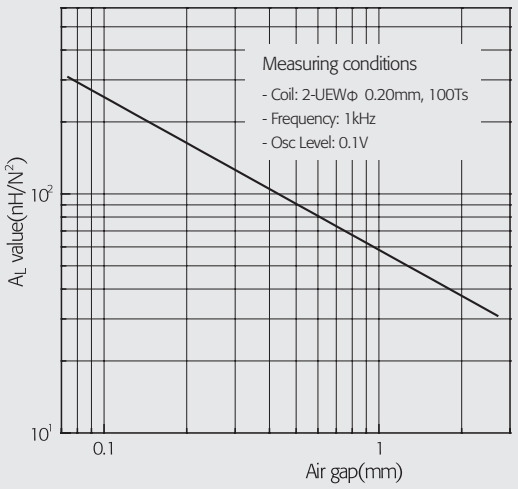
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4500 ± 25%	1700	0.00	45.80	PL-5 EE8076S
PL-7	4500 ± 25%	1700	0.00	38.30	PL-7 EE8076S
	2680 ± 15%	1010	0.10		PL-7 EE8076S AL2680
	945 ± 12%	360	0.50		PL-7 EE8076S AL945
	560 ± 10%	210	1.00		PL-7 EE8076S AL560
PL-9	5200 ± 25%	1960	0.00	34.50 (80℃)	PL-9 EE8076S
PL-11	4700 ± 25%	1780	0.00	34.50	PL-11 EE8076S

EI1614S



Parameter	Symbol	Value	Unit
Core constant	C1	1.900	mm^{-1}
Effective path length	le	35.9	mm
Effective area	Ae	18.8	mm^2
Effective volume	Ve	676	mm^3
Center leg area	Ac	19.2	mm^2
Winding area	Aw	43.7	mm^2
Weight of set	W	3.4	g

Air gap vs. A_L value for EI1614S (Typical)

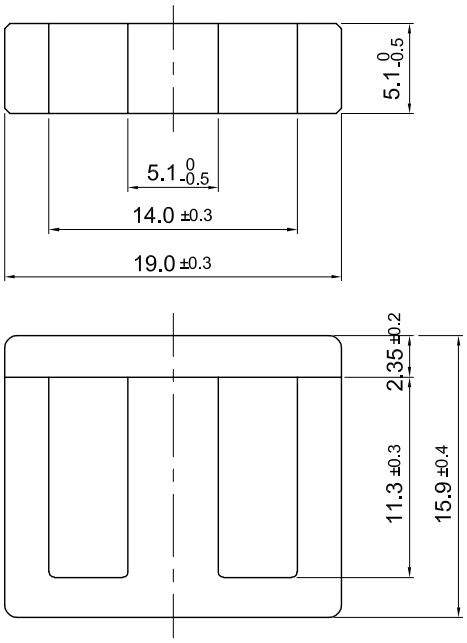


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	7	11	16	31
Flyback converter	2	4	5	10
Forward converter	4	6	8	15

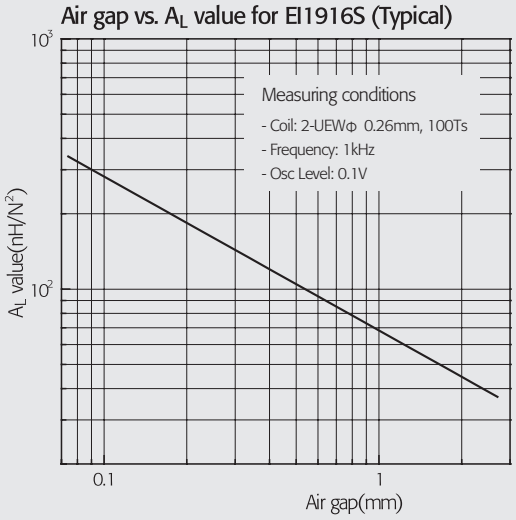
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1250 ± 25%	1890	0.00	0.42	PL-5 EI1614S
PL-7	1250 ± 25%	1890	0.00	0.35	PL-7 EI1614S
	255 ± 15%	390	0.10		PL-7 EI1614S AL255
	90 ± 10%	140	0.50		PL-7 EI1614S AL90
	59 ± 5%	89	1.00		PL-7 EI1614S AL59
PL-9	1330 ± 25%	2010	0.00	0.28 (80℃)	PL-9 EI1614S
PL-11	1300 ± 25%	1960	0.00	0.28	PL-11 EI1614S
SM-50	1950 ± 25%	2950	0.00		SM-50 EI1614S
SM-60	2340 ± 25%	3540	0.00		SM-60 EI1614S
SM-70S	2400 ± 25%	3630	0.00		SM-70S EI1614S
SM-100	3450 ± 30%	5210	0.00		SM-100 EI1614S

EI1916S



Parameter	Symbol	Value	Unit
Core constant	C1	1.681	mm^{-1}
Effective path length	le	39.2	mm
Effective area	Ae	23.3	mm^2
Effective volume	Ve	913	mm^3
Center leg area	Ac	23.5	mm^2
Winding area	Aw	51.6	mm^2
Weight of set	W	4.6	g

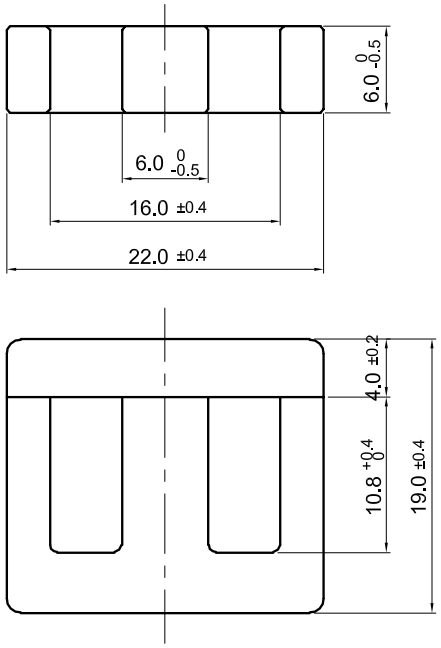


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	10	17	23	45
Flyback converter	3	6	8	15
Forward converter	5	8	12	22

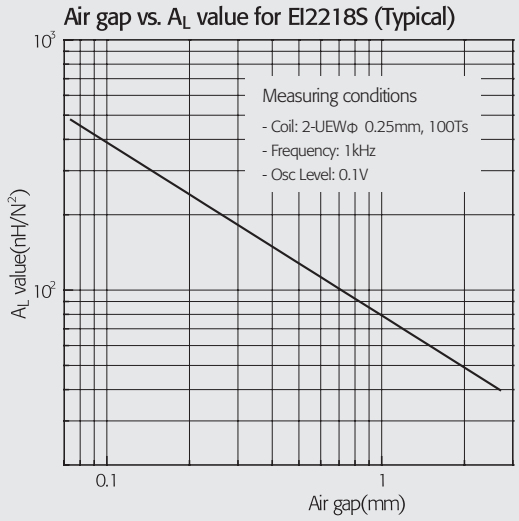
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1300 ± 25%	1740	0.00	0.55	PL-5 EI1916S
PL-7	1300 ± 25%	1740	0.00	0.46	PL-7 EI1916S
	280 ± 15%	370	0.10		PL-7 EI1916S AL280
	103 ± 8%	138	0.50		PL-7 EI1916S AL103
	69 ± 5%	92	1.00		PL-7 EI1916S AL69
PL-9	1530 ± 25%	2050	0.00	0.38 (80℃)	PL-9 EI1916S
PL-11	1400 ± 25%	1870	0.00	0.38	PL-11 EI1916S
SM-50	2350 ± 25%	3140	0.00		SM-50 EI1916S
SM-60	2820 ± 25%	3770	0.00		SM-60 EI1916S
SM-70S	2900 ± 25%	3880	0.00		SM-70S EI1916S
SM-100	4000 ± 30%	5350	0.00		SM-100 EI1916S

EI2218S



Parameter	Symbol	Value	Unit
Core constant	C1	1.148	mm^{-1}
Effective path length	le	42.5	mm
Effective area	Ae	37.0	mm^2
Effective volume	Ve	1570	mm^3
Center leg area	Ac	33.0	mm^2
Winding area	Aw	56.3	mm^2
Weight of set	W	8.4	g

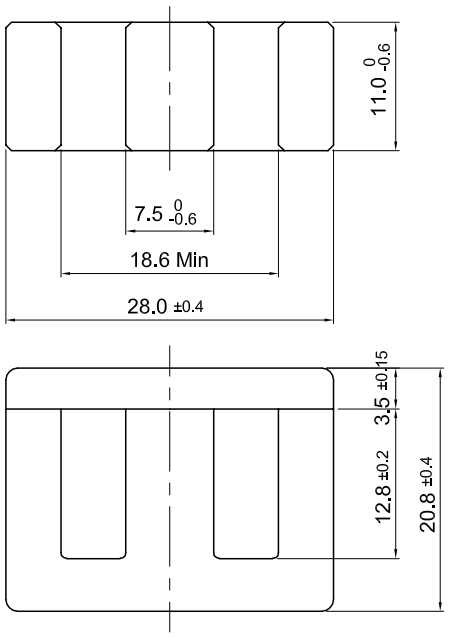


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	18	29	40	78
Flyback converter	6	10	13	26
Forward converter	9	14	20	39

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

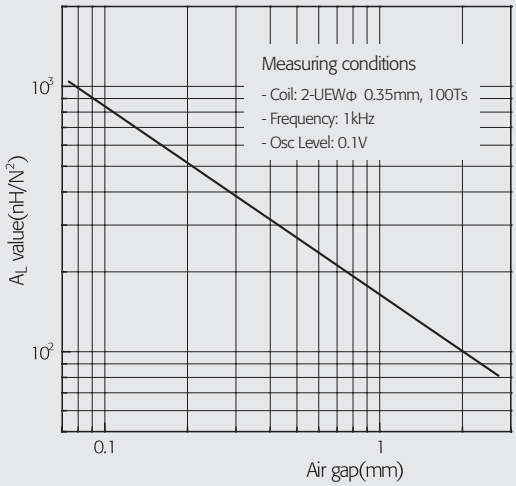
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1950 ± 25%	1780	0.00	0.95	PL-5 EI2218S
PL-7	1950 ± 25%	1780	0.00	0.80	PL-7 EI2218S
	390 ± 15%	360	0.10		PL-7 EI2218S AL390
	125 ± 10%	110	0.50		PL-7 EI2218S AL125
	80 ± 7%	70	1.00		PL-7 EI2218S AL80
PL-9	2100 ± 25%	1920	0.00	0.65 (80℃)	PL-9 EI2218S
PL-11	2000 ± 25%	1830	0.00	0.65	PL-11 EI2218S
SM-50	3500 ± 25%	3200	0.00		SM-50 EI2218S
SM-60	4200 ± 25%	3840	0.00		SM-60 EI2218S
SM-70S	4350 ± 25%	3970	0.00		SM-70S EI2218S
SM-100	5950 ± 30%	5430	0.00		SM-100 EI2218S

EI2820S



Parameter	Symbol	Value	Unit
Core constant	C1	0.586	mm^{-1}
Effective path length	le	49.5	mm
Effective area	Ae	84.4	mm^2
Effective volume	Ve	4170	mm^3
Center leg area	Ac	77.0	mm^2
Winding area	Aw	75.5	mm^2
Weight of set	W	22	g

Air gap vs. A_L value for EI2820S (Typical)

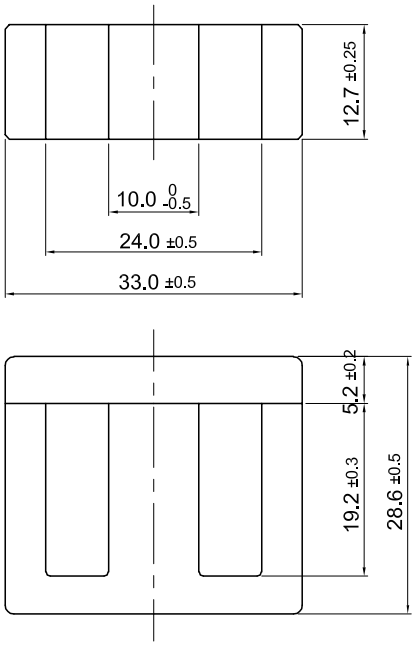


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	54	88	122	238
Flyback converter	18	29	41	79
Forward converter	27	44	61	119

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

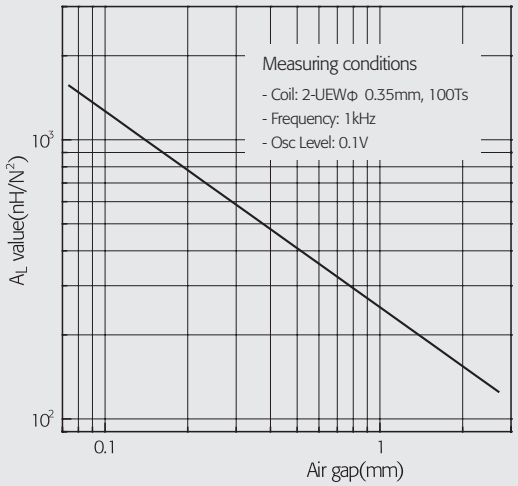
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3800 ± 25%	1770	0.00	2.52	PL-5 EI2820S
PL-7	3800 ± 25%	1770	0.00	2.10	PL-7 EI2820S
	845 ± 15%	390	0.10		PL-7 EI2820S AL845
	265 ± 7%	120	0.50		PL-7 EI2820S AL265
	165 ± 5%	80	1.00		PL-7 EI2820S AL165
PL-9	4300 ± 25%	2000	0.00	1.72 (80℃)	PL-9 EI2820S
PL-11	4000 ± 25%	1860	0.00	1.72	PL-11 EI2820S
SM-50	7000 ± 25%	3260	0.00		SM-50 EI2820S
SM-60	8400 ± 25%	3920	0.00		SM-60 EI2820S
SM-70S	9000 ± 25%	4200	0.00		SM-70S EI2820S
SM-100	12000 ± 30%	5590	0.00		SM-100 EI2820S

EI3329S



Parameter	Symbol	Value	Unit
Core constant	C1	0.567	mm^{-1}
Effective path length	le	67.1	mm
Effective area	Ae	118.0	mm^2
Effective volume	Ve	7640	mm^3
Center leg area	Ac	123.0	mm^2
Winding area	Aw	136.0	mm^2
Weight of set	W	40	g

Air gap vs. A_L value for EI3329S (Typical)



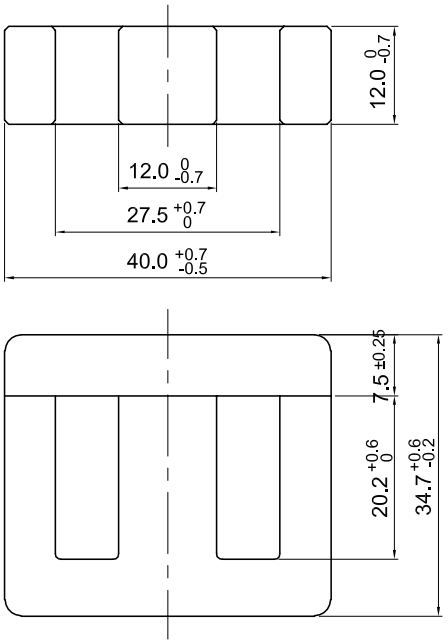
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	137	222	308	599
Flyback converter	46	74	103	200
Forward converter	68	111	154	299

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

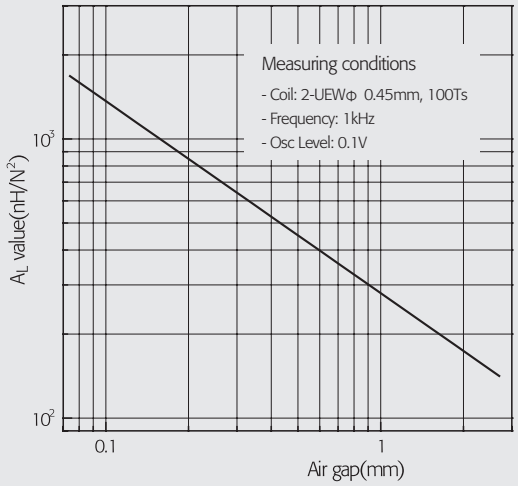
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3800 ± 25%	1710	0.00	4.80	PL-5 EI3329S
PL-7	3800 ± 25%	1710	0.00	4.00	PL-7 EI3329S
	1270 ± 15%	570	0.10		PL-7 EI3329S AL1270
	410 ± 8%	180	0.50		PL-7 EI3329S AL410
	250 ± 6%	110	1.00		PL-7 EI3329S AL250
PL-9	4600 ± 25%	2070	0.00	3.26 (80℃)	PL-9 EI3329S
PL-11	4000 ± 25%	1800	0.00	3.26	PL-11 EI3329S

EI4035S



Parameter	Symbol	Value	Unit
Core constant	C1	0.526	mm^{-1}
Effective path length	le	77.4	mm
Effective area	Ae	147.0	mm^2
Effective volume	Ve	11390	mm^3
Center leg area	Ac	135.0	mm^2
Winding area	Aw	166.0	mm^2
Weight of set	W	59	g

Air gap vs. A_L value for EI4035S (Typical)

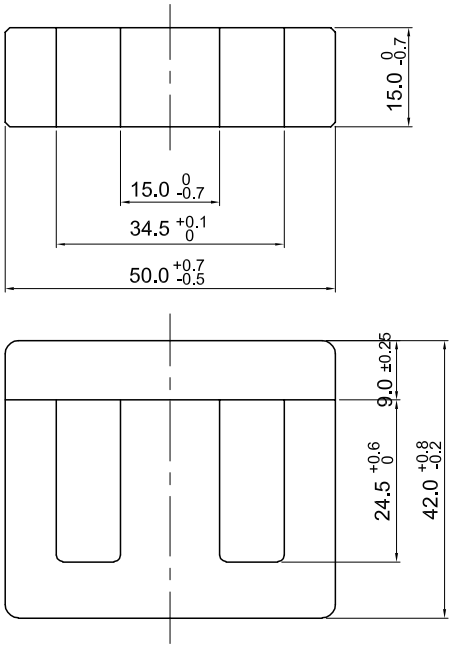


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	208	338	468	911
Flyback converter	69	113	156	304
Forward converter	104	169	234	455

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

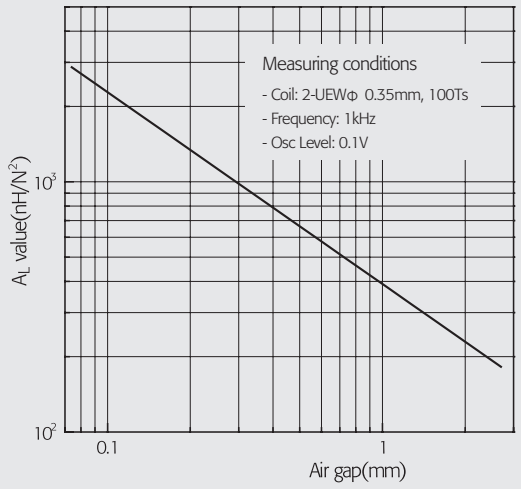
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4000 ± 25%	1670	0.00	6.85	PL-5 EI4035S
PL-7	4000 ± 25%	1670	0.00	5.70	PL-7 EI4035S
	1370 ± 15%	570	0.10		PL-7 EI4035S AL1370
	450 ± 10%	190	0.50		PL-7 EI4035S AL450
	280 ± 7%	120	1.00		PL-7 EI4035S AL280
PL-9	4800 ± 25%	2010	0.00	4.70 (80℃)	PL-9 EI4035S
PL-11	4200 ± 25%	1760	0.00	4.70	PL-11 EI4035S

EI5040S



Parameter	Symbol	Value	Unit
Core constant	C1	0.417	mm^{-1}
Effective path length	le	95.0	mm
Effective area	Ae	227.0	mm^2
Effective volume	Ve	21660	mm^3
Center leg area	Ac	213.0	mm^2
Winding area	Aw	253.0	mm^2
Weight of set	W	112	g

Air gap vs. A_L value for EI5040S (Typical)

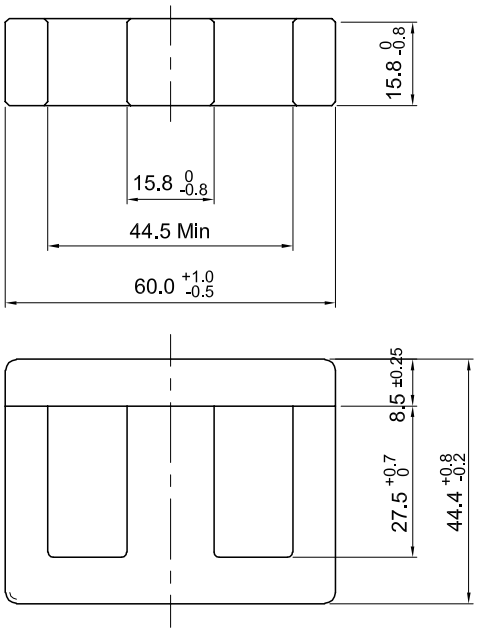


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	490	796	1102	2143
Flyback converter	163	265	367	714
Forward converter	245	398	551	1071

Note : 1) Core loss is assumed to be approx. $0.1W/cm^3$.
2) Temperature rise should be considered for design before choosing the final core size.

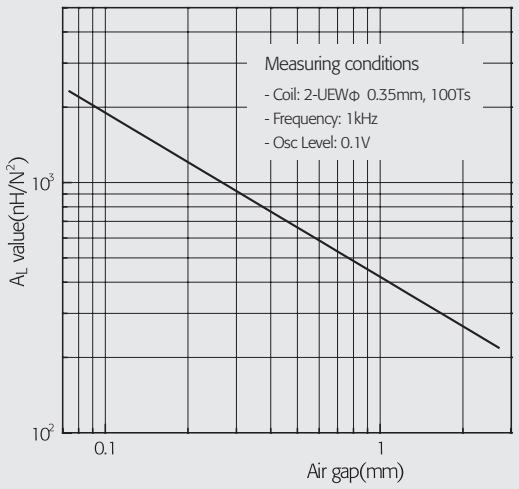
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5200 ± 25%	1730	0.00	13.00	PL-5 EI5040S
PL-7	5200 ± 25%	1730	0.00	10.90	PL-7 EI5040S
	2300 ± 15%	760	0.10		PL-7 EI5040S AL2300
	645 ± 10%	210	0.50		PL-7 EI5040S AL645
	400 ± 8%	130	1.00		PL-7 EI5040S AL400
PL-9	6100 ± 25%	2020	0.00	8.90 (80℃)	PL-9 EI5040S
PL-11	5400 ± 25%	1790	0.00	8.90	PL-11 EI5040S

EI6044S



Parameter	Symbol	Value	Unit
Core constant	C1	0.452	mm^{-1}
Effective path length	le	110.0	mm
Effective area	Ae	244.0	mm^2
Effective volume	Ve	26950	mm^3
Center leg area	Ac	237.0	mm^2
Winding area	Aw	412.0	mm^2
Weight of set	W	138	g

Air gap vs. A_L value for EI6044S (Typical)

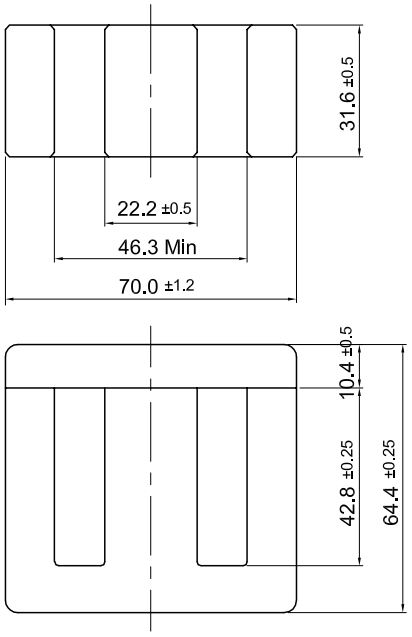


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	857	1393	1929	3751
Flyback converter	286	464	643	1250
Forward converter	429	697	965	1876

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

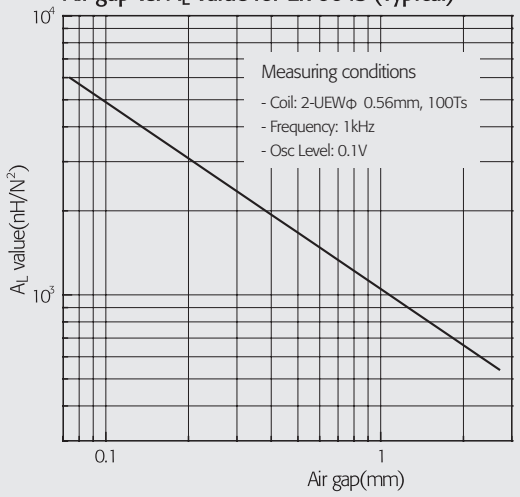
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4500 ± 25%	1650	0.00	16.30	PL-5 EI6044S
PL-7	4500 ± 25%	1650	0.00	13.50	PL-7 EI6044S
	1890 ± 15%	680	0.10		PL-7 EI6044S AL1890
	675 ± 10%	240	0.50		PL-7 EI6044S AL675
	415 ± 8%	150	1.00		PL-7 EI6044S AL415
PL-9	5500 ± 25%	1980	0.00	11.10 (80℃)	PL-9 EI6044S
PL-11	4700 ± 25%	1730	0.00	11.10	PL-11 EI6044S

EI7064S



Parameter	Symbol	Value	Unit
Core constant	C1	0.208	mm^{-1}
Effective path length	le	145.0	mm
Effective area	Ae	698.0	mm^2
Effective volume	Ve	101530	mm^3
Center leg area	Ac	701.0	mm^2
Winding area	Aw	541.0	mm^2
Weight of set	W	519	g

Air gap vs. A_L value for EI7064S (Typical)

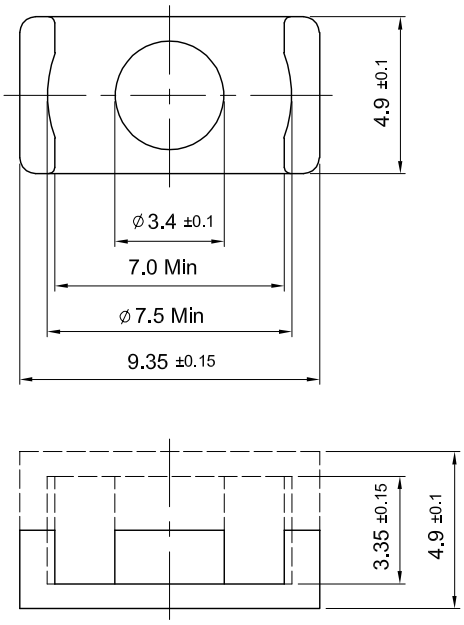


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	3221	5234	7246	14090
Flyback converter	1074	1745	2415	4697
Forward converter	1610	2617	3623	7045

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

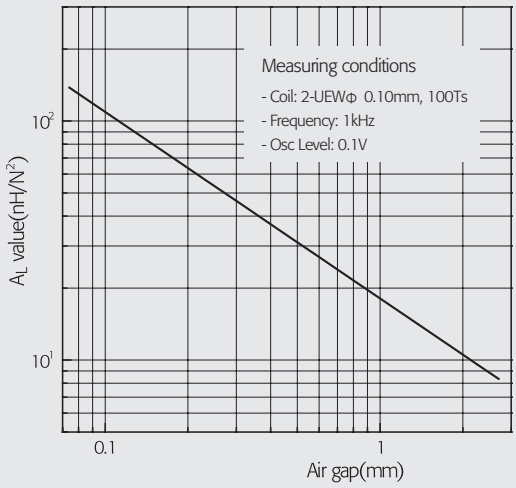
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	10500 ± 25%	1740	0.00	61.50	PL-5 EI7064S
PL-7	10500 ± 25%	1740	0.00	51.50	PL-7 EI7064S
	4900 ± 15%	810	0.10		PL-7 EI7064S AL4900
	1650 ± 12%	270	0.50		PL-7 EI7064S AL1650
	1050 ± 10%	170	1.00		PL-7 EI7064S AL1050
PL-9	12000 ± 25%	1990	0.00	46.20 (80℃)	PL-9 EI7064S
PL-11	10900 ± 25%	1800	0.00	46.20	PL-11 EI7064S

EER0905S ER9.5



Parameter	Symbol	Value	Unit
Core constant	C1	1.670	mm^{-1}
Effective path length	le	14.2	mm
Effective area	Ae	8.5	mm^2
Effective volume	Ve	120	mm^3
Center leg area	Ac	9.1	mm^2
Winding area	Aw	7.2	mm^2
Weight of set	W	0.6	g

Air gap vs. A_L value for EER0905S (Typical)

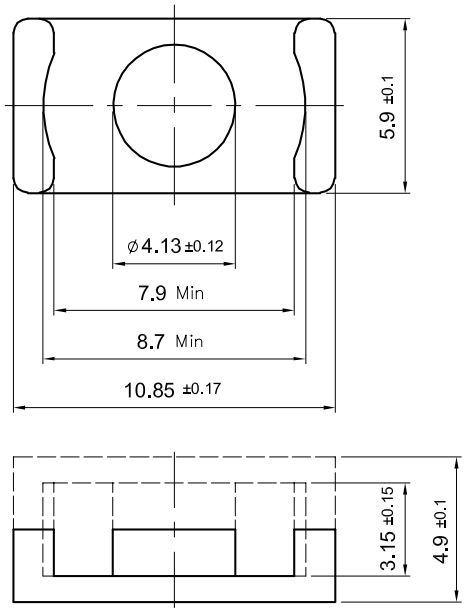


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	0.5	0.8	1.2	2.3
Flyback converter	0.2	0.3	0.4	0.8
Forward converter	0.3	0.4	0.6	1.1

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

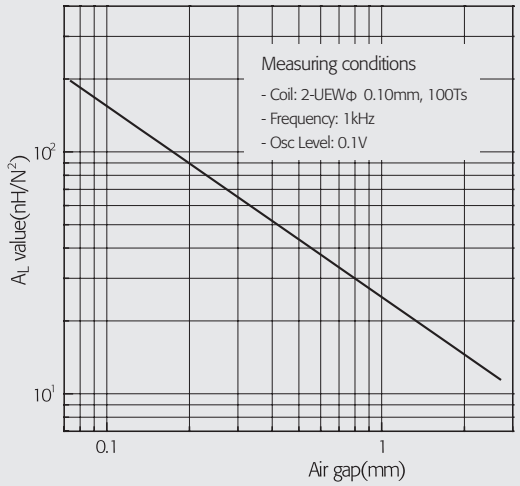
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1100 ± 25%	1460	0.00	0.08	PL-5 EER0905S
PL-7	1100 ± 25%	1460	0.00	0.06	PL-7 EER0905S
	110 ± 10%	150	0.10		PL-7 EER0905S AL110
	32 ± 5%	43	0.50		PL-7 EER0905S AL32
	18 ± 5%	24	1.00		PL-7 EER0905S AL18
PL-9	1300 ± 25%	1730	0.00	0.05 (80℃)	PL-9 EER0905S
PL-11	1200 ± 25%	1590	0.00	0.05	PL-11 EER0905S
SM-50	2630 ± 25%	3490	0.00		SM-50 EER0905S
SM-60	3160 ± 25%	4200	0.00		SM-60 EER0905S
SM-70S	3670 ± 25%	4880	0.00		SM-70S EER0905S
SM-100	4140 ± 30%	5500	0.00		SM-100 EER0905S

EER1105S ER11/5



Parameter	Symbol	Value	Unit
Core constant	C1	1.230	mm^{-1}
Effective path length	le	14.7	mm
Effective area	Ae	11.9	mm^2
Effective volume	Ve	174	mm^3
Center leg area	Ac	13.4	mm^2
Winding area	Aw	7.5	mm^2
Weight of set	W	1.0	g

Air gap vs. A_L value for EER1105S (Typical)

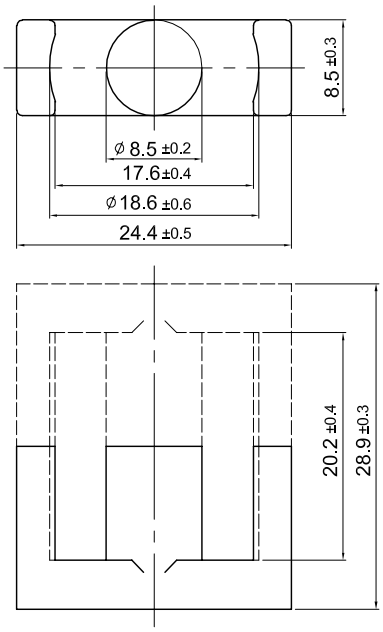


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	0.8	1.2	1.7	3.3
Flyback converter	0.3	0.4	0.6	1.1
Forward converter	0.4	0.6	0.9	1.7

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

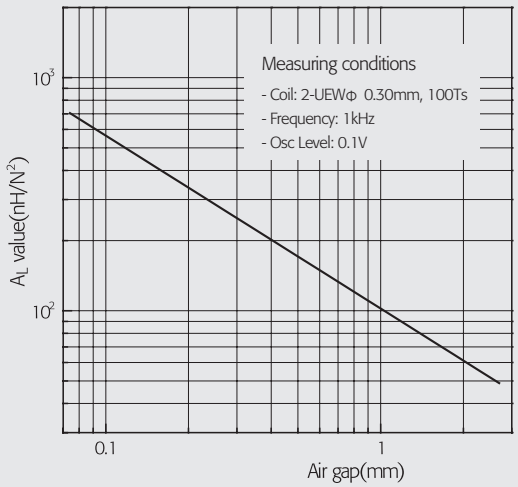
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	1500 ± 25%	1470	0.00	0.11	PL-5 EER1105S
PL-7	1500 ± 25%	1470	0.00	0.09	PL-7 EER1105S
	150 ± 5%	150	0.10		PL-7 EER1105S AL150
	45 ± 3%	40	0.50		PL-7 EER1105S AL45
	25 ± 3%	20	1.00		PL-7 EER1105S AL25
PL-9	1750 ± 25%	1710	0.00	0.08 (80℃)	PL-9 EER1105S
PL-11	1600 ± 25%	1570	0.00	0.08	PL-11 EER1105S
SM-50	3580 ± 25%	3500	0.00		SM-50 EER1105S
SM-60	4290 ± 25%	4200	0.00		SM-60 EER1105S
SM-70S	4980 ± 25%	4870	0.00		SM-70S EER1105S
SM-100	5620 ± 30%	5500	0.00		SM-100 EER1105S

EER2429S ETD24



Parameter	Symbol	Value	Unit
Core constant	C1	1.055	mm^{-1}
Effective path length	le	62.3	mm
Effective area	Ae	59.0	mm^2
Effective volume	Ve	3680	mm^3
Center leg area	Ac	56.7	mm^2
Winding area	Aw	102.0	mm^2
Weight of set	W	19	g

Air gap vs. A_L value for EER2429S (Typical)

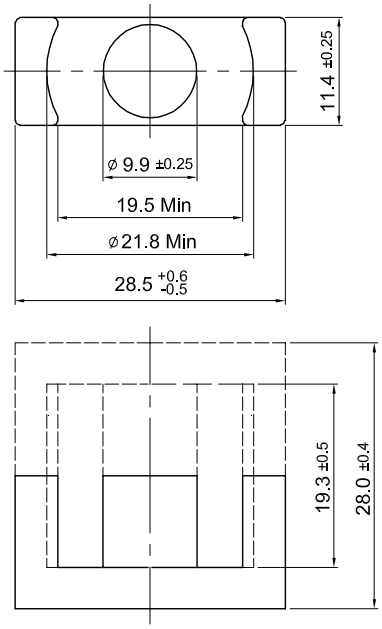


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	51	83	115	225
Flyback converter	17	28	38	75
Forward converter	26	42	58	112

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

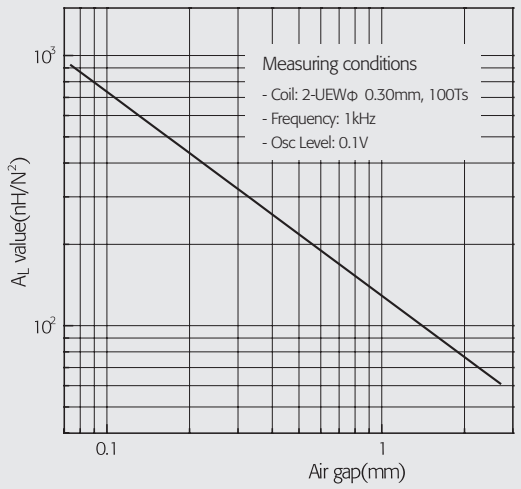
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2100 ± 25%	1760	0.00	2.22	PL-5 EER2429S
PL-7	2100 ± 25%	1760	0.00	1.85	PL-7 EER2429S
	565 ± 15%	470	0.10		PL-7 EER2429S AL565
	170 ± 7%	140	0.50		PL-7 EER2429S AL170
	102 ± 5%	86	1.00		PL-7 EER2429S AL102
PL-9	2500 ± 25%	2100	0.00	1.51 (80℃)	PL-9 EER2429S
PL-11	2200 ± 25%	1850	0.00	1.51	PL-11 EER2429S

EER2828N



Parameter	Symbol	Value	Unit
Core constant	C1	0.758	mm^{-1}
Effective path length	le	63.4	mm
Effective area	Ae	83.6	mm^2
Effective volume	Ve	5300	mm^3
Center leg area	Ac	77.0	mm^2
Winding area	Aw	120.0	mm^2
Weight of set	W	28	g

Air gap vs. A_L value for EER2828N (Typical)

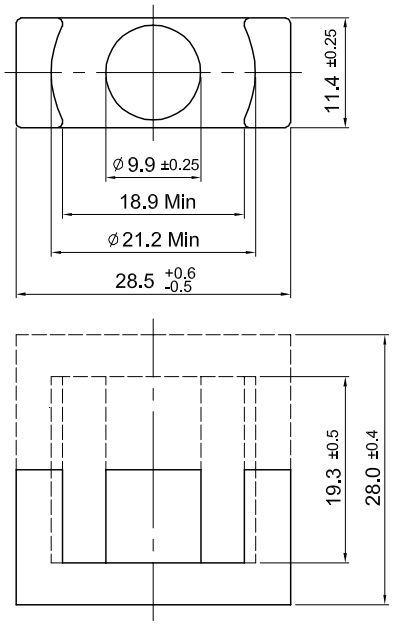


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	86	139	193	374
Flyback converter	29	46	64	125
Forward converter	43	70	96	187

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

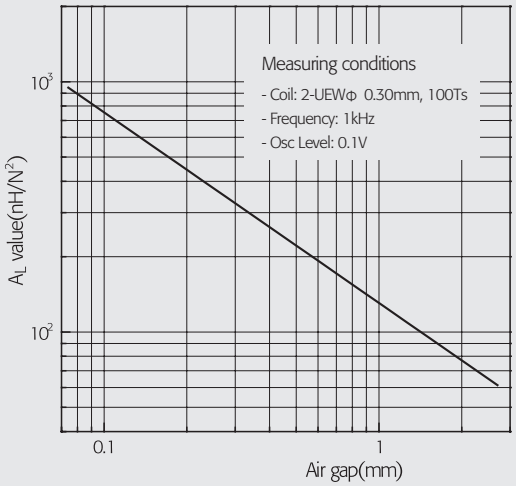
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2700 ± 25%	1630	0.00	3.25	PL-5 EER2828N
PL-7	2700 ± 25%	1630	0.00	2.70	PL-7 EER2828N
	730 ± 15%	440	0.10		PL-7 EER2828N AL730
	220 ± 10%	130	0.50		PL-7 EER2828N AL220
	130 ± 7%	80	1.00		PL-7 EER2828N AL130
PL-9	3150 ± 25%	1900	0.00	2.20 (80℃)	PL-9 EER2828N
PL-11	2800 ± 25%	1690	0.00	2.20	PL-11 EER2828N

EER2828S EER28



Parameter	Symbol	Value	Unit
Core constant	C1	0.732	mm^{-1}
Effective path length	le	63.0	mm
Effective area	Ae	86.0	mm^2
Effective volume	Ve	5410	mm^3
Center leg area	Ac	77.0	mm^2
Winding area	Aw	114.0	mm^2
Weight of set	W	29	g

Air gap vs. A_L value for EER2828S (Typical)



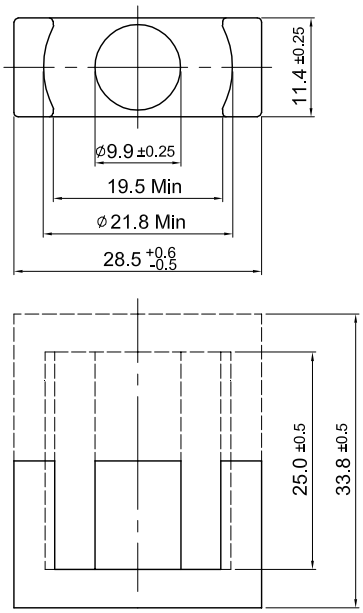
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	84	136	188	366
Flyback converter	28	45	63	122
Forward converter	42	68	94	183

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

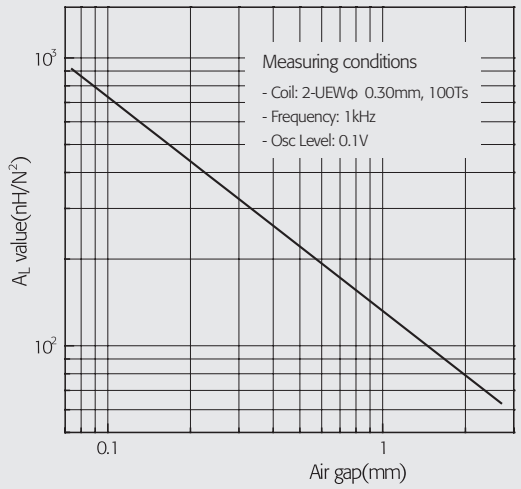
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2730 ± 25%	1590	0.00	3.30	PL-5 EER2828S
PL-7	2730 ± 25%	1590	0.00	2.75	PL-7 EER2828S
	750 ± 15%	440	0.10		PL-7 EER2828S AL750
	225 ± 10%	130	0.50		PL-7 EER2828S AL225
	130 ± 7%	80	1.00		PL-7 EER2828S AL130
PL-9	3200 ± 25%	1860	0.00	2.25 (80℃)	PL-9 EER2828S
PL-11	2800 ± 25%	1630	0.00	2.25	PL-11 EER2828S

EER2834N



Parameter	Symbol	Value	Unit
Core constant	C1	0.900	mm^{-1}
Effective path length	le	74.8	mm
Effective area	Ae	83.1	mm^2
Effective volume	Ve	6220	mm^3
Center leg area	Ac	77.0	mm^2
Winding area	Aw	155.0	mm^2
Weight of set	W	32	g

Air gap vs. A_L value for EER2834N (Typical)

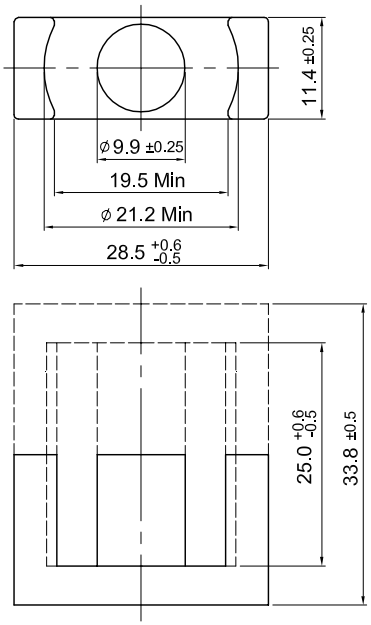


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	110	179	247	481
Flyback converter	37	60	82	160
Forward converter	55	89	124	240

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

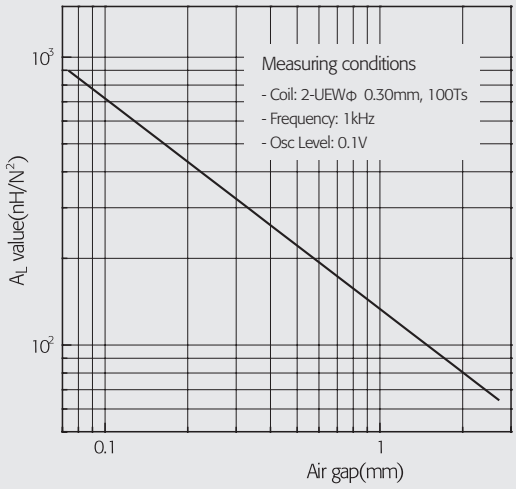
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2400 ± 25%	1720	0.00	3.80	PL-5 EER2834N
PL-7	2400 ± 25%	1720	0.00	3.15	PL-7 EER2834N
	730 ± 15%	520	0.10		PL-7 EER2834N AL730
	220 ± 10%	160	0.50		PL-7 EER2834N AL220
	130 ± 7%	90	1.00		PL-7 EER2834N AL130
PL-9	2700 ± 25%	1930	0.00	2.60 (80℃)	PL-9 EER2834N
PL-11	2500 ± 25%	1790	0.00	2.60	PL-11 EER2834N

EER2834S ER28/17/11



Parameter	Symbol	Value	Unit
Core constant	C1	0.870	mm^{-1}
Effective path length	le	74.4	mm
Effective area	Ae	85.4	mm^2
Effective volume	Ve	6360	mm^3
Center leg area	Ac	77.0	mm^2
Winding area	Aw	148.0	mm^2
Weight of set	W	33	g

Air gap vs. A_L value for EER2834S (Typical)

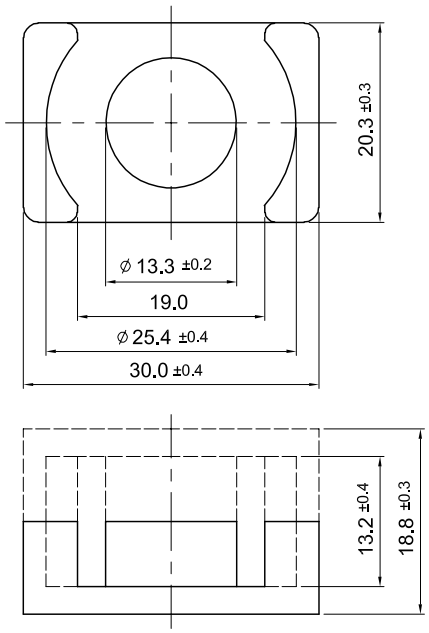


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	108	175	243	472
Flyback converter	36	58	81	157
Forward converter	54	88	121	236

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

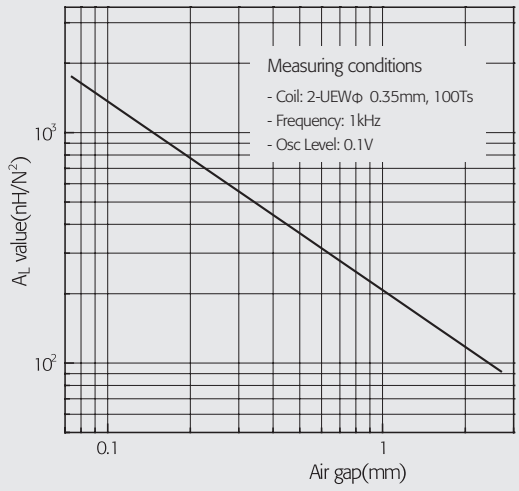
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2400 ± 25%	1660	0.00	3.85	PL-5 EER2834S
PL-7	2400 ± 25%	1660	0.00	3.20	PL-7 EER2834S
	710 ± 15%	490	0.10		PL-7 EER2834S AL710
	225 ± 10%	160	0.50		PL-7 EER2834S AL225
	130 ± 7%	90	1.00		PL-7 EER2834S AL130
PL-9	2700 ± 25%	1870	0.00	2.65 (80℃)	PL-9 EER2834S
PL-11	2500 ± 25%	1730	0.00	2.65	PL-11 EER2834S

EER3019N



Parameter	Symbol	Value	Unit
Core constant	C1	0.344	mm^{-1}
Effective path length	le	47.2	mm
Effective area	Ae	137.0	mm^2
Effective volume	Ve	6466	mm^3
Center leg area	Ac	139.0	mm^2
Winding area	Aw	80.0	mm^2
Weight of set	W	33	g

Air gap vs. A_L value for EER3019N (Typical)



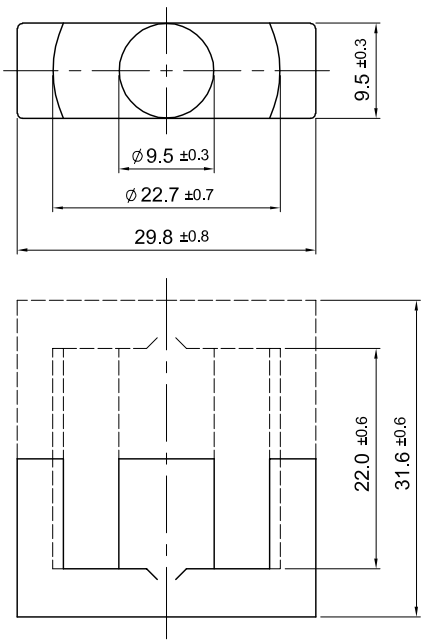
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	93	152	210	409
Flyback converter	31	51	70	136
Forward converter	47	76	105	204

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

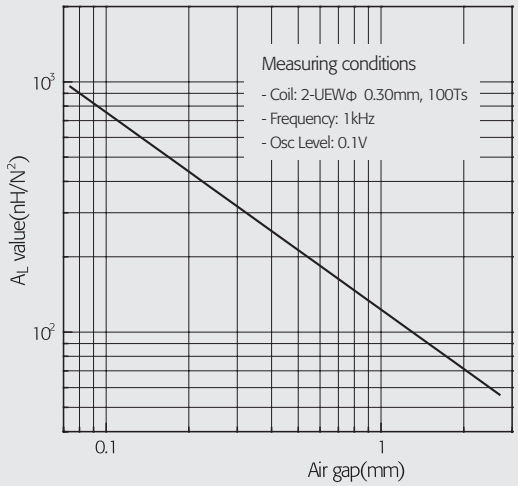
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	6100 ± 25%	1670	0.00	3.90	PL-5 EER3019N
PL-7	6100 ± 25%	1670	0.00	3.25	PL-7 EER3019N
	1360 ± 15%	370	0.10		PL-7 EER3019N AL1360
	375 ± 10%	100	0.50		PL-7 EER3019N AL375
	210 ± 7%	60	1.00		PL-7 EER3019N AL210
PL-9	7100 ± 25%	1940	0.00	2.99 (80℃)	PL-9 EER3019N
PL-11	6400 ± 25%	1750	0.00	2.99	PL-11 EER3019N

EER3032S ETD29



Parameter	Symbol	Value	Unit
Core constant	C1	0.927	mm^{-1}
Effective path length	le	70.7	mm
Effective area	Ae	76.2	mm^2
Effective volume	Ve	5390	mm^3
Center leg area	Ac	70.9	mm^2
Winding area	Aw	145.0	mm^2
Weight of set	W	28	g

Air gap vs. A_L value for EER3032S (Typical)



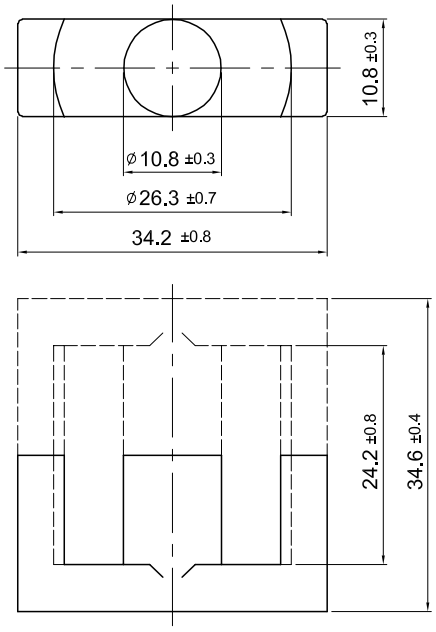
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	94	153	212	412
Flyback converter	31	51	71	137
Forward converter	47	77	106	206

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

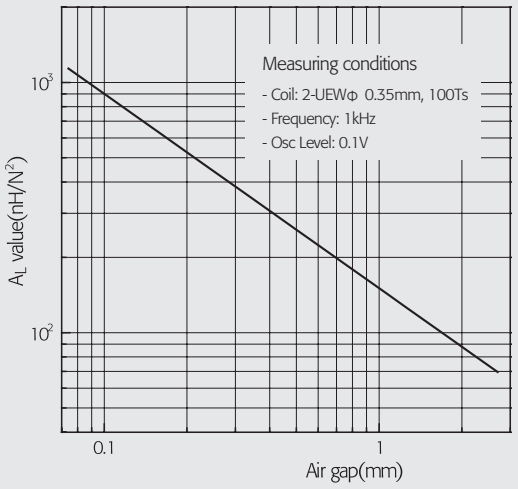
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2300 ± 25%	1700	0.00	3.25	PL-5 EER3032S
PL-7	2300 ± 25%	1700	0.00	2.70	PL-7 EER3032S
	760 ± 15%	560	0.10		PL-7 EER3032S AL760
	210 ± 10%	150	0.50		PL-7 EER3032S AL210
	120 ± 7%	90	1.00		PL-7 EER3032S AL120
PL-9	2750 ± 25%	2030	0.00	2.21 (80℃)	PL-9 EER3032S
PL-11	2400 ± 25%	1770	0.00	2.21	PL-11 EER3032S

EER3435S ETD34



Parameter	Symbol	Value	Unit
Core constant	C1	0.815	mm^{-1}
Effective path length	le	79.0	mm
Effective area	Ae	97.0	mm^2
Effective volume	Ve	7660	mm^3
Center leg area	Ac	91.6	mm^2
Winding area	Aw	187.0	mm^2
Weight of set	W	39	g

Air gap vs. A_L value for EER3435S (Typical)

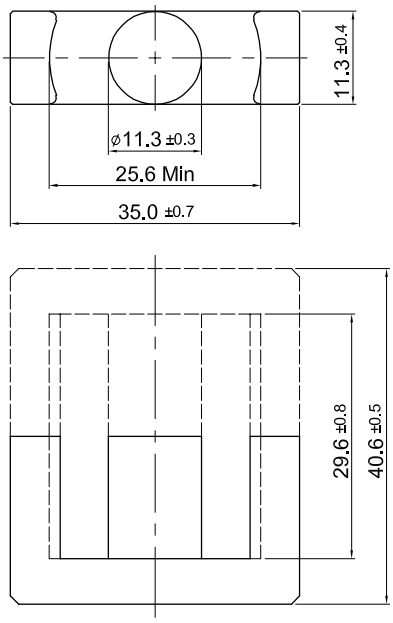


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	155	251	348	677
Flyback converter	52	84	116	226
Forward converter	77	126	174	338

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

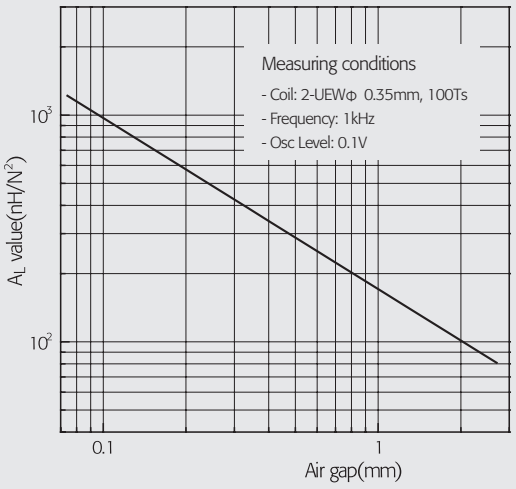
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2500 ± 25%	1620	0.00	4.60	PL-5 EER3435S
PL-7	2500 ± 25%	1620	0.00	3.85	PL-7 EER3435S
	905 ± 15%	590	0.10		PL-7 EER3435S AL905
	260 ± 10%	170	0.50		PL-7 EER3435S AL260
	150 ± 7%	100	1.00		PL-7 EER3435S AL150
PL-9	3000 ± 25%	1950	0.00	3.15 (80℃)	PL-9 EER3435S
PL-11	2600 ± 25%	1690	0.00	3.15	PL-11 EER3435S

EER3540S ER35/20/11



Parameter	Symbol	Value	Unit
Core constant	C1	0.813	mm^{-1}
Effective path length	le	88.6	mm
Effective area	Ae	109.0	mm^2
Effective volume	Ve	9657	mm^3
Center leg area	Ac	100.3	mm^2
Winding area	Aw	219.0	mm^2
Weight of set	W	50	g

Air gap vs. A_L value for EER3540S (Typical)



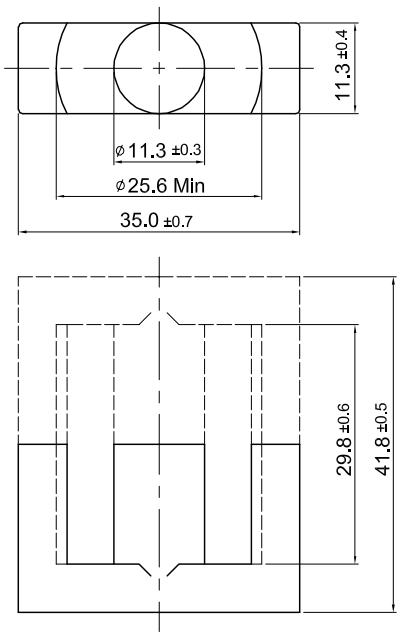
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	204	331	458	891
Flyback converter	68	110	153	297
Forward converter	102	165	229	445

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

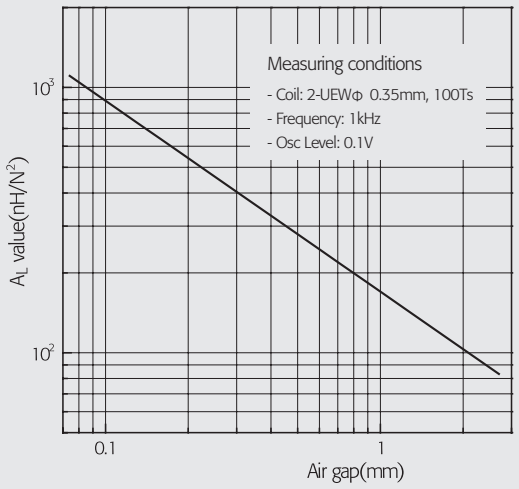
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2600 ± 25%	1680	0.00	5.88	PL-5 EER3540S
PL-7	2600 ± 25%	1680	0.00	4.90	PL-7 EER3540S
	960 ± 15%	620	0.10		PL-7 EER3540S AL960
	290 ± 10%	190	0.50		PL-7 EER3540S AL290
	170 ± 7%	110	1.00		PL-7 EER3540S AL170
PL-9	3000 ± 25%	1940	0.00	4.51 (80℃)	PL-9 EER3540S
PL-11	2700 ± 25%	1750	0.00	4.51	PL-11 EER3540S

EER3541S



Parameter	Symbol	Value	Unit
Core constant	C1	0.831	mm^{-1}
Effective path length	le	91.0	mm
Effective area	Ae	109.0	mm^2
Effective volume	Ve	9960	mm^3
Center leg area	Ac	100.3	mm^2
Winding area	Aw	223.0	mm^2
Weight of set	W	52	g

Air gap vs. A_L value for EER3541S (Typical)

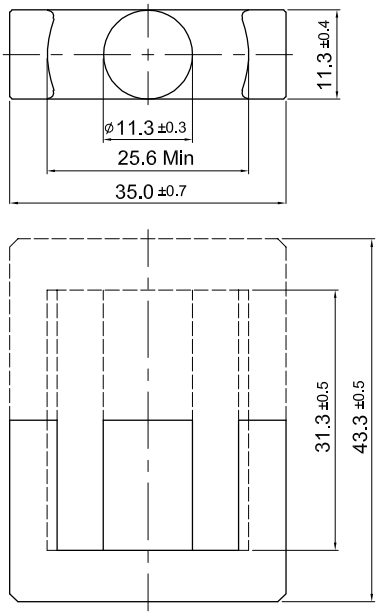


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	207	337	466	907
Flyback converter	69	112	155	302
Forward converter	104	168	233	453

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

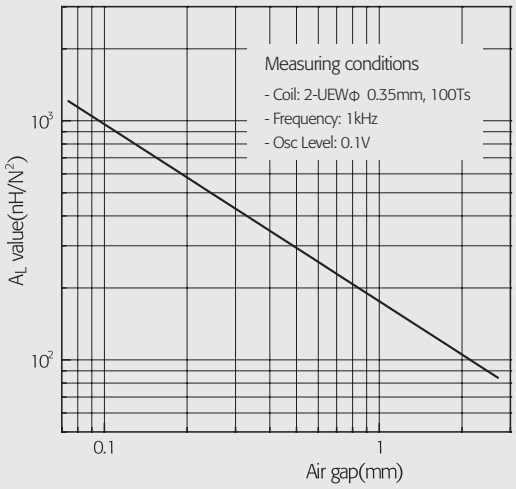
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2600 ± 25%	1720	0.00	6.00	PL-5 EER3541S
PL-7	2600 ± 25%	1720	0.00	5.00	PL-7 EER3541S
	870 ± 15%	580	0.10		PL-7 EER3541S AL870
	290 ± 10%	190	0.50		PL-7 EER3541S AL290
	170 ± 7%	110	1.00		PL-7 EER3541S AL170
PL-9	3050 ± 25%	2020	0.00	4.10 (80℃)	PL-9 EER3541S
PL-11	2700 ± 25%	1780	0.00	4.10	PL-11 EER3541S

EER3543S



Parameter	Symbol	Value	Unit
Core constant	C1	0.852	mm^{-1}
Effective path length	le	94.6	mm
Effective area	Ae	111.0	mm^2
Effective volume	Ve	10501	mm^3
Center leg area	Ac	100.3	mm^2
Winding area	Aw	235.0	mm^2
Weight of set	W	53	g

Air gap vs. A_L value for EER3543S (Typical)



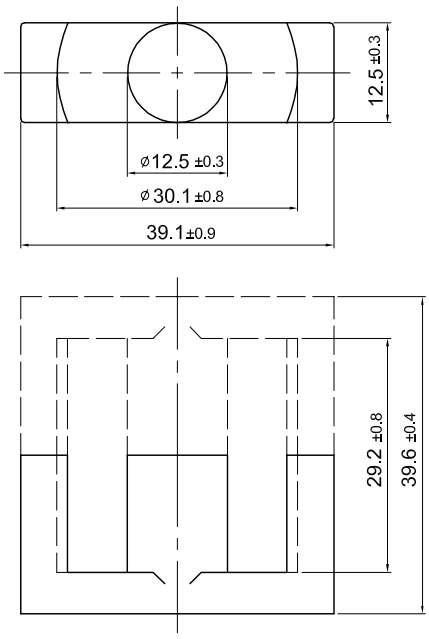
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	222	362	501	973
Flyback converter	74	121	167	324
Forward converter	111	181	250	487

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

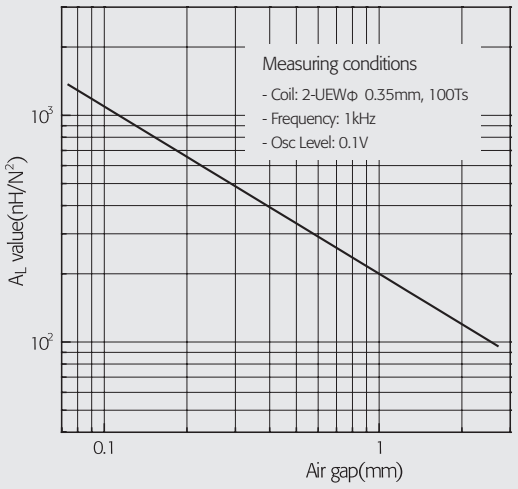
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2500 ± 25%	1700	0.00	6.40	PL-5 EER3543S
PL-7	2500 ± 25%	1700	0.00	5.44	PL-7 EER3543S
	960 ± 15%	650	0.10		PL-7 EER3543S AL960
	295 ± 10%	200	0.50		PL-7 EER3543S AL295
	175 ± 7%	120	1.00		PL-7 EER3543S AL175
PL-9	2900 ± 25%	1970	0.00	4.91 (80℃)	PL-9 EER3543S
PL-11	2600 ± 25%	1760	0.00	4.91	PL-11 EER3543S

EER3940S ETD39



Parameter	Symbol	Value	Unit
Core constant	C1	0.741	mm^{-1}
Effective path length	le	92.6	mm
Effective area	Ae	124.0	mm^2
Effective volume	Ve	11560	mm^3
Center leg area	Ac	123.0	mm^2
Winding area	Aw	256.0	mm^2
Weight of set	W	58	g

Air gap vs. A_L value for EER3940S (Typical)

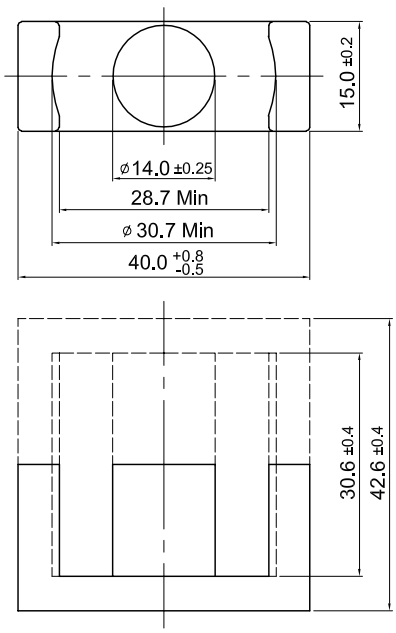


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	271	440	609	1184
Flyback converter	90	147	203	395
Forward converter	135	220	305	592

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

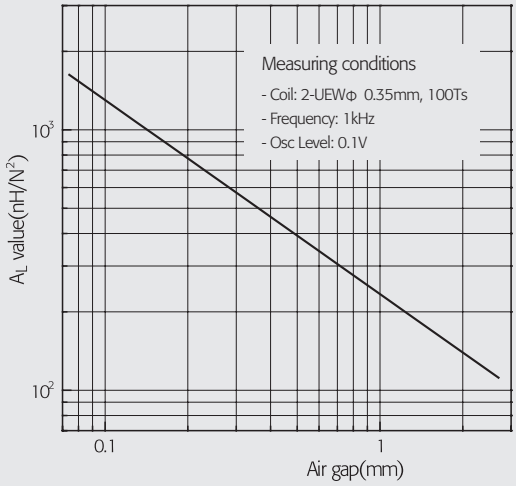
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	2900 ± 25%	1710	0.00	7.00	PL-5 EER3940S
PL-7	2900 ± 25%	1710	0.00	5.80	PL-7 EER3940S
	1080 ± 15%	640	0.10		PL-7 EER3940S AL1080
	340 ± 10%	200	0.50		PL-7 EER3940S AL340
	200 ± 7%	120	1.00		PL-7 EER3940S AL200
PL-9	3400 ± 25%	2000	0.00	4.75 (80℃)	PL-9 EER3940S
PL-11	3000 ± 25%	1770	0.00	4.75	PL-11 EER3940S

EER4042S



Parameter	Symbol	Value	Unit
Core constant	C1	0.609	mm^{-1}
Effective path length	le	96.3	mm
Effective area	Ae	158.0	mm^2
Effective volume	Ve	15230	mm^3
Center leg area	Ac	154.0	mm^2
Winding area	Aw	265.0	mm^2
Weight of set	W	79	g

Air gap vs. A_L value for EER4042S (Typical)

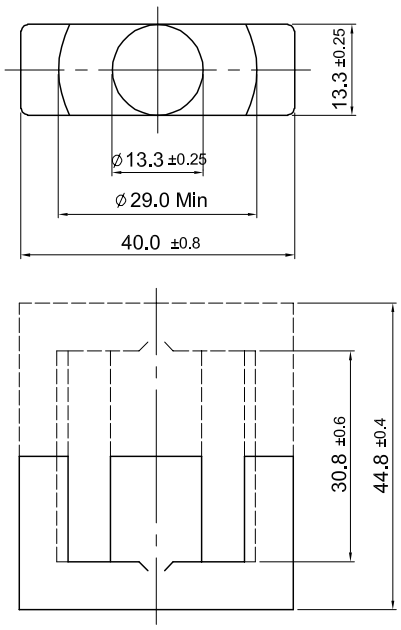


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	357	580	803	1562
Flyback converter	119	193	268	521
Forward converter	179	290	402	781

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

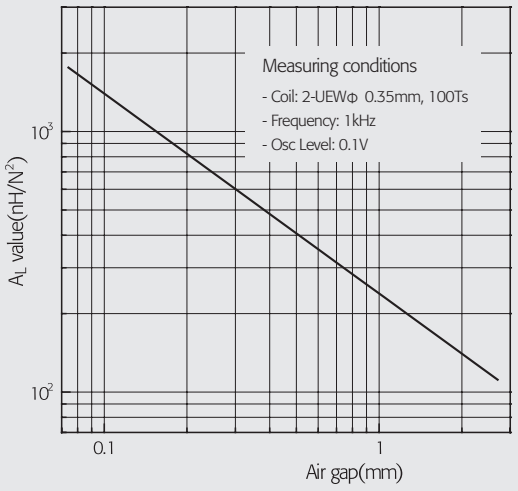
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3600 ± 25%	1740	0.00	9.25	PL-5 EER4042S
PL-7	3600 ± 25%	1740	0.00	7.70	PL-7 EER4042S
	1275 ± 15%	620	0.10		PL-7 EER4042S AL1275
	410 ± 10%	200	0.50		PL-7 EER4042S AL410
	235 ± 7%	110	1.00		PL-7 EER4042S AL235
PL-9	4200 ± 25%	2030	0.00	6.30 (80℃)	PL-9 EER4042S
PL-11	3800 ± 25%	1840	0.00	6.30	PL-11 EER4042S

EER4045S EER40



Parameter	Symbol	Value	Unit
Core constant	C1	0.641	mm^{-1}
Effective path length	le	97.4	mm
Effective area	Ae	151.0	mm^2
Effective volume	Ve	14790	mm^3
Center leg area	Ac	139.0	mm^2
Winding area	Aw	254.0	mm^2
Weight of set	W	78	g

Air gap vs. A_L value for EER4045S (Typical)

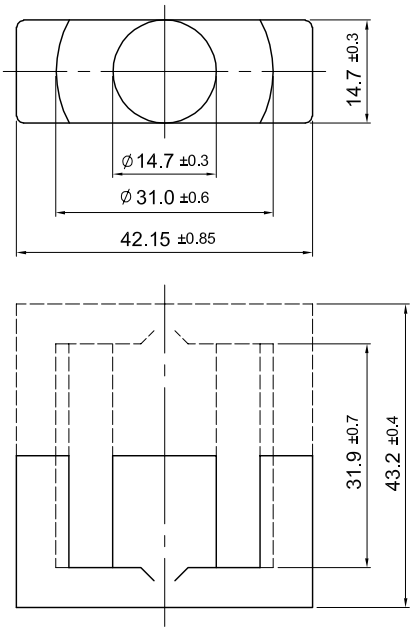


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	327	532	736	1431
Flyback converter	109	177	245	477
Forward converter	164	266	368	716

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

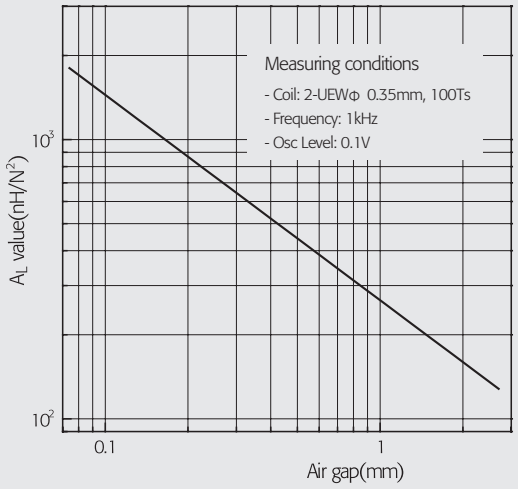
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3300 ± 25%	1680	0.00	8.90	PL-5 EER4045S
PL-7	3300 ± 25%	1680	0.00	7.40	PL-7 EER4045S
	1380 ± 15%	700	0.10		PL-7 EER4045S AL1380
	410 ± 10%	210	0.50		PL-7 EER4045S AL410
	235 ± 7%	120	1.00		PL-7 EER4045S AL235
PL-9	3900 ± 25%	1990	0.00	6.10 (80℃)	PL-9 EER4045S
PL-11	3400 ± 25%	1730	0.00	6.10	PL-11 EER4045S

EER4214S ER42/22/15



Parameter	Symbol	Value	Unit
Core constant	C1	0.572	mm^{-1}
Effective path length	le	98.8	mm
Effective area	Ae	172.0	mm^2
Effective volume	Ve	17090	mm^3
Center leg area	Ac	170.0	mm^2
Winding area	Aw	259.0	mm^2
Weight of set	W	87	g

Air gap vs. A_L value for EER4214S (Typical)



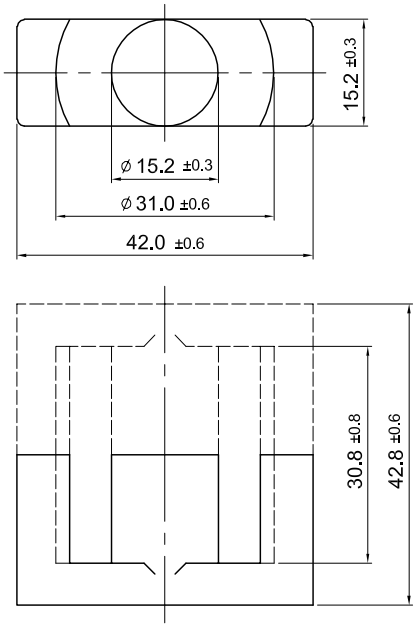
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	380	617	855	1662
Flyback converter	127	206	285	554
Forward converter	190	309	427	831

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

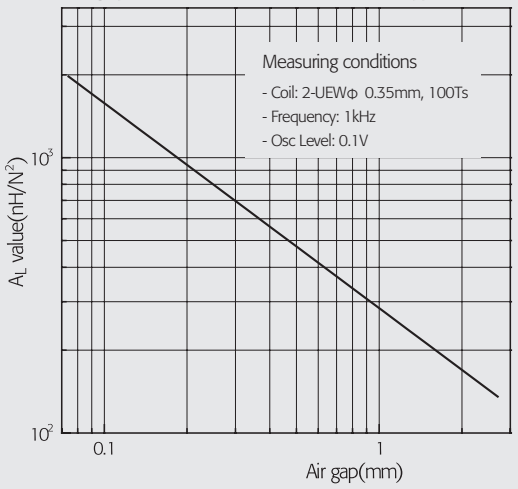
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3800 ± 25%	1730	0.00	13.40	PL-5 EER4214S
PL-7	3800 ± 25%	1730	0.00	8.60	PL-7 EER4214S
	1425 ± 15%	650	0.10		PL-7 EER4214S AL1425
	460 ± 10%	210	0.50		PL-7 EER4214S AL460
	265 ± 7%	120	1.00		PL-7 EER4214S AL265
PL-9	4500 ± 25%	2050	0.00	7.10 (80℃)	PL-9 EER4214S
PL-11	4000 ± 25%	1820	0.00	7.10	PL-11 EER4214S

EER4242B



Parameter	Symbol	Value	Unit
Core constant	C1	0.528	mm^{-1}
Effective path length	le	96.9	mm
Effective area	Ae	183.0	mm^2
Effective volume	Ve	17790	mm^3
Center leg area	Ac	181.0	mm^2
Winding area	Aw	243.0	mm^2
Weight of set	W	91	g

Air gap vs. A_L value for EER4242B (Typical)



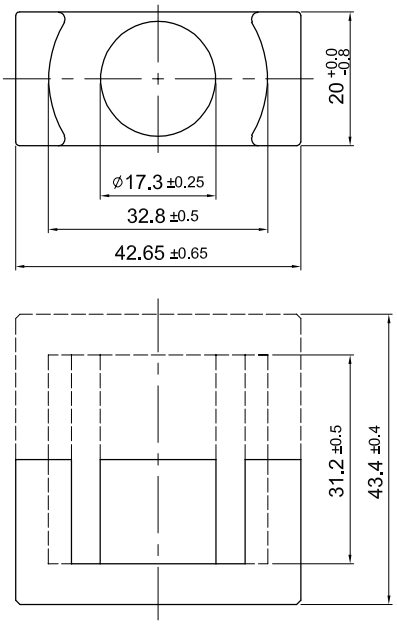
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	379	616	853	1659
Flyback converter	126	205	284	553
Forward converter	190	308	427	830

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

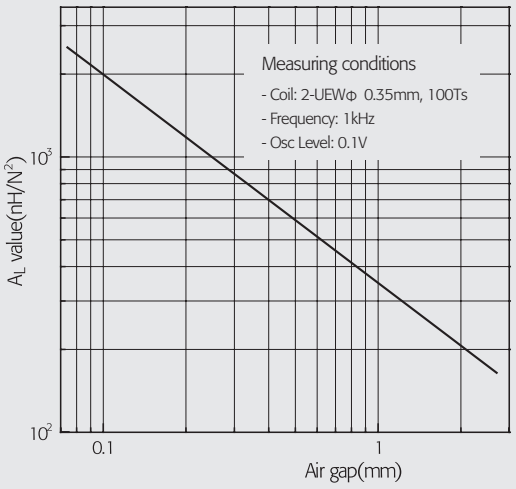
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4000 ± 25%	1680	0.00	10.70	PL-5 EER4242B
PL-7	4000 ± 25%	1680	0.00	8.90	PL-7 EER4242B
	1570 ± 15%	660	0.10		PL-7 EER4242B AL1570
	480 ± 10%	200	0.50		PL-7 EER4242B AL480
	280 ± 7%	120	1.00		PL-7 EER4242B AL280
PL-9	4700 ± 25%	1970	0.00	7.30 (80℃)	PL-9 EER4242B
PL-11	4200 ± 25%	1760	0.00	7.30	PL-11 EER4242B

EER4242KF



Parameter	Symbol	Value	Unit
Core constant	C1	0.415	mm^{-1}
Effective path length	le	98.0	mm
Effective area	Ae	236.0	mm^2
Effective volume	Ve	23128	mm^3
Center leg area	Ac	234.9	mm^2
Winding area	Aw	242.0	mm^2
Weight of set	W	119	g

Air gap vs. A_L value for EER4242KF (Typical)

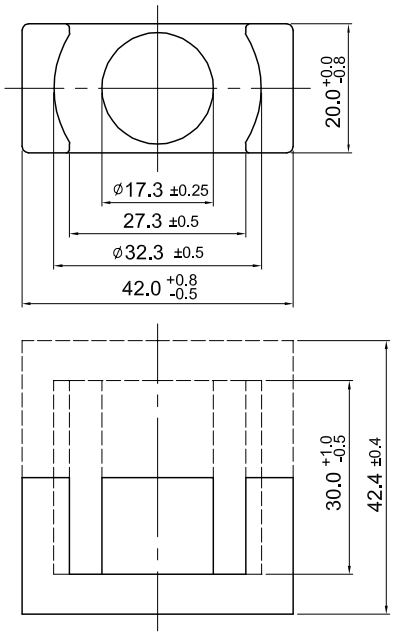


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	487	792	1096	2131
Flyback converter	162	264	365	710
Forward converter	244	396	548	1066

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

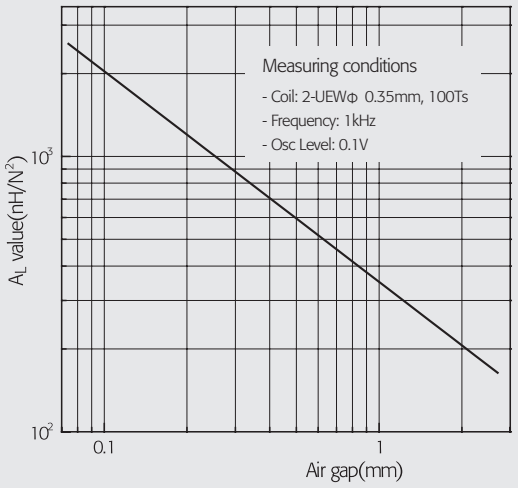
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5000 ± 25%	1650	0.00	13.92	PL-5 EER4242KF
PL-7	5000 ± 25%	1650	0.00	11.60	PL-7 EER4242KF
	1950 ± 15%	640	0.10		PL-7 EER4242KF AL1950
	610 ± 10%	200	0.50		PL-7 EER4242KF AL610
	350 ± 7%	120	1.00		PL-7 EER4242KF AL350
PL-9	5800 ± 25%	1920	0.00	10.67 (80℃)	PL-9 EER4242KF
PL-11	5200 ± 25%	1720	0.00	10.67	PL-11 EER4242KF

EER4242S



Parameter	Symbol	Value	Unit
Core constant	C1	0.406	mm^{-1}
Effective path length	le	95.1	mm
Effective area	Ae	234.0	mm^2
Effective volume	Ve	22280	mm^3
Center leg area	Ac	235.0	mm^2
Winding area	Aw	228.0	mm^2
Weight of set	W	115	g

Air gap vs. A_L value for EER4242S (Typical)

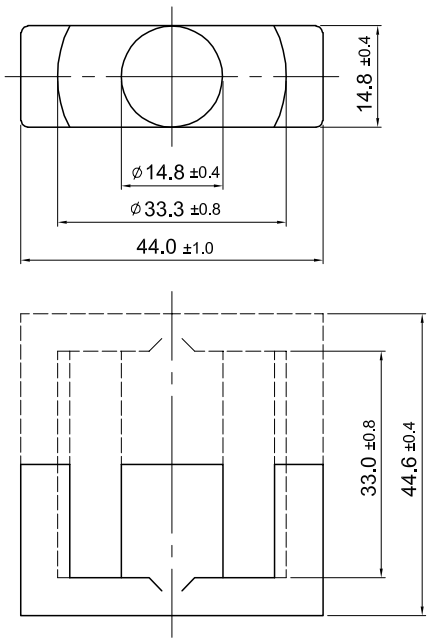


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	455	739	1024	1991
Flyback converter	152	246	341	664
Forward converter	228	370	512	995

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

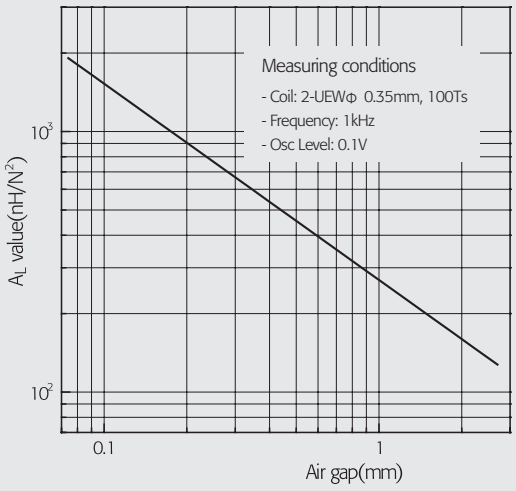
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5000 ± 25%	1610	0.00	13.40	PL-5 EER4242S
PL-7	5000 ± 25%	1610	0.00	11.10	PL-7 EER4242S
	2030 ± 15%	660	0.10		PL-7 EER4242S AL2030
	600 ± 10%	190	0.50		PL-7 EER4242S AL600
	350 ± 7%	110	1.00		PL-7 EER4242S AL350
PL-9	5800 ± 25%	1870	0.00	9.20 (80℃)	PL-9 EER4242S
PL-11	5200 ± 25%	1680	0.00	9.20	PL-11 EER4242S

EER4445S ETD44



Parameter	Symbol	Value	Unit
Core constant	C1	0.598	mm^{-1}
Effective path length	le	104.0	mm
Effective area	Ae	173.0	mm^2
Effective volume	Ve	17910	mm^3
Center leg area	Ac	172.0	mm^2
Winding area	Aw	305.0	mm^2
Weight of set	W	91	g

Air gap vs. A_L value for EER4445S (Typical)

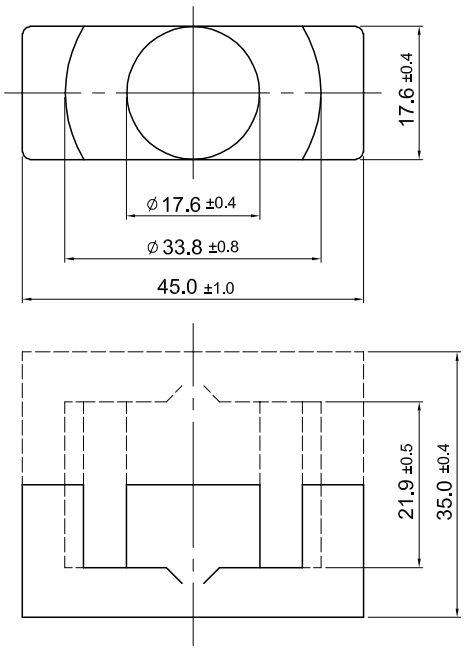


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	450	731	1013	1969
Flyback converter	150	244	338	656
Forward converter	225	366	506	984

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

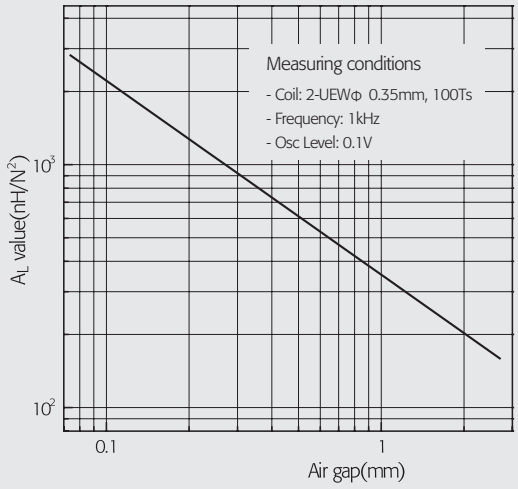
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3400 ± 25%	1620	0.00	10.70	PL-5 EER4445S
PL-7	3400 ± 25%	1620	0.00	9.50	PL-7 EER4445S
	1505 ± 15%	720	0.10		PL-7 EER4445S AL1505
	450 ± 10%	210	0.50		PL-7 EER4445S AL450
	270 ± 7%	130	1.00		PL-7 EER4445S AL270
PL-9	4000 ± 25%	1900	0.00	7.35 (80℃)	PL-9 EER4445S
PL-11	3500 ± 25%	1670	0.00	7.35	PL-11 EER4445S

EER4535S ER46/17/18



Parameter	Symbol	Value	Unit
Core constant	C1	0.349	mm^{-1}
Effective path length	le	81.2	mm
Effective area	Ae	232.0	mm^2
Effective volume	Ve	18880	mm^3
Center leg area	Ac	243.0	mm^2
Winding area	Aw	177.0	mm^2
Weight of set	W	99	g

Air gap vs. A_L value for EER4535S (Typical)

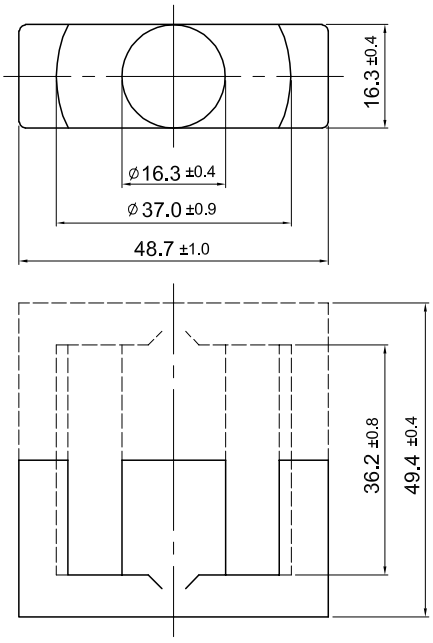


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	350	569	788	1532
Flyback converter	117	190	263	511
Forward converter	175	285	394	766

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

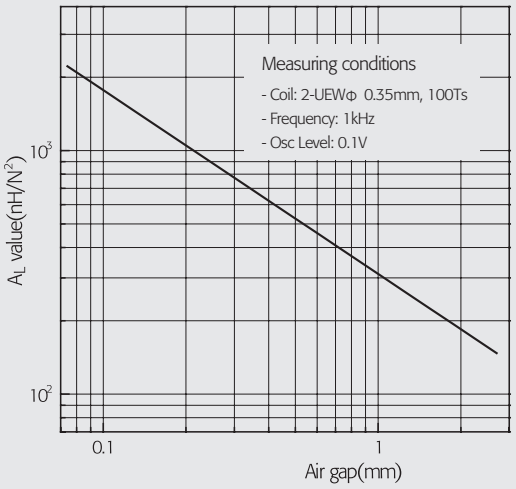
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5800 ± 25%	1610	0.00	11.40	PL-5 EER4535S
PL-7	5800 ± 25%	1610	0.00	9.50	PL-7 EER4535S
	2130 ± 15%	590	0.10		PL-7 EER4535S AL2130
	635 ± 10%	180	0.50		PL-7 EER4535S AL635
	350 ± 7%	100	1.00		PL-7 EER4535S AL350
PL-9	6750 ± 25%	1870	0.00	7.75 (80℃)	PL-9 EER4535S
PL-11	6000 ± 25%	1670	0.00	7.75	PL-11 EER4535S

EER4950S ETD49



Parameter	Symbol	Value	Unit
Core constant	C1	0.542	mm^{-1}
Effective path length	le	114.0	mm
Effective area	Ae	211.0	mm^2
Effective volume	Ve	24140	mm^3
Center leg area	Ac	209.0	mm^2
Winding area	Aw	374.0	mm^2
Weight of set	W	123	g

Air gap vs. A_L value for EER4950S (Typical)

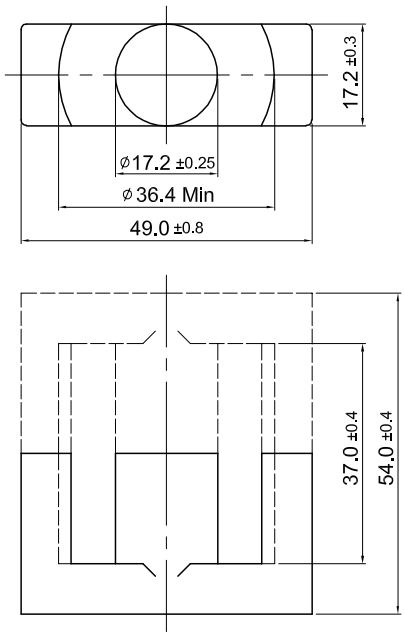


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	673	1094	1514	2945
Flyback converter	224	365	505	982
Forward converter	337	547	757	1472

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

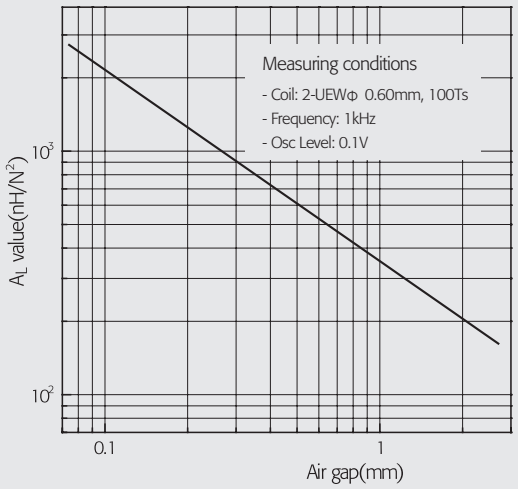
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4000 ± 25%	1720	0.00	14.50	PL-5 EER4950S
PL-7	4000 ± 25%	1720	0.00	12.10	PL-7 EER4950S
	1730 ± 15%	750	0.10		PL-7 EER4950S AL1730
	540 ± 10%	230	0.50		PL-7 EER4950S AL540
	310 ± 7%	130	1.00		PL-7 EER4950S AL310
PL-9	4750 ± 25%	2050	0.00	9.90 (80℃)	PL-9 EER4950S
PL-11	4200 ± 25%	1810	0.00	9.90	PL-11 EER4950S

EER4954S ER49/27/17



Parameter	Symbol	Value	Unit
Core constant	C1	0.487	mm^{-1}
Effective path length	le	118.0	mm
Effective area	Ae	241.0	mm^2
Effective volume	Ve	28460	mm^3
Center leg area	Ac	232.0	mm^2
Winding area	Aw	370.0	mm^2
Weight of set	W	150	g

Air gap vs. A_L value for EER4954S (Typical)



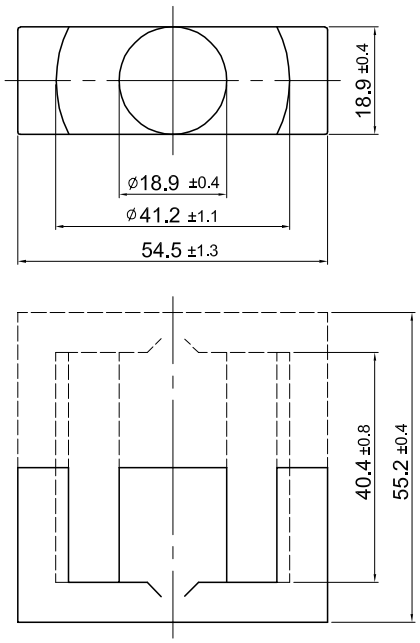
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	761	1236	1711	3327
Flyback converter	254	412	570	1109
Forward converter	380	618	856	1664

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

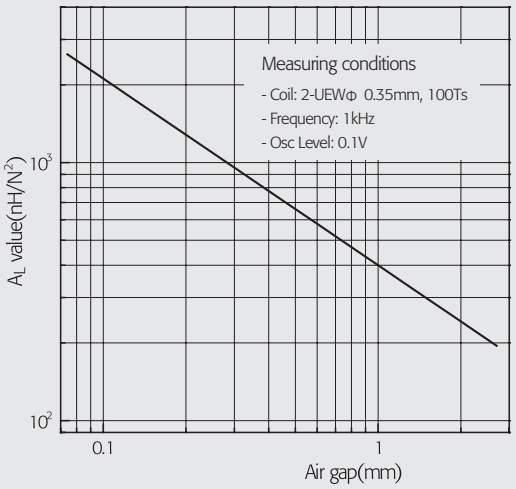
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4500 ± 25%	1740	0.00	17.10	PL-5 EER4954S
PL-7	4500 ± 25%	1740	0.00	14.20	PL-7 EER4954S
	2110 ± 15%	820	0.10		PL-7 EER4954S AL2110
	620 ± 10%	240	0.50		PL-7 EER4954S AL620
	350 ± 7%	140	1.00		PL-7 EER4954S AL350
PL-9	5300 ± 25%	2050	0.00	11.70 (80℃)	PL-9 EER4954S
PL-11	4700 ± 25%	1820	0.00	11.70	PL-11 EER4954S

EER5455S ETD54



Parameter	Symbol	Value	Unit
Core constant	C1	0.454	mm^{-1}
Effective path length	le	127.0	mm
Effective area	Ae	279.0	mm^2
Effective volume	Ve	35620	mm^3
Center leg area	Ac	281.0	mm^2
Winding area	Aw	450.0	mm^2
Weight of set	W	181	g

Air gap vs. A_L value for EER5455S (Typical)

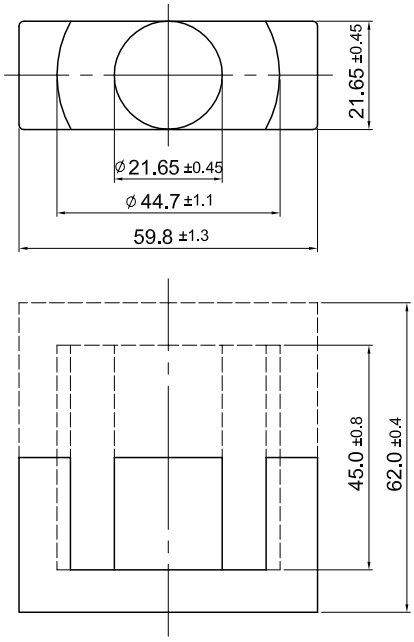


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1071	1740	2409	4685
Flyback converter	357	580	803	1562
Forward converter	535	870	1205	2342

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

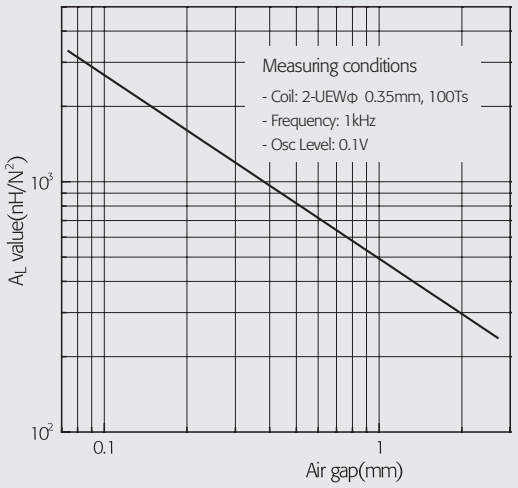
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	4800 ± 25%	1730	0.00	22.00	PL-5 EER5455S
PL-7	4800 ± 25%	1730	0.00	17.72	PL-7 EER5455S
	2060 ± 15%	740	0.10		PL-7 EER5455S AL2060
	690 ± 10%	250	0.50		PL-7 EER5455S AL690
	400 ± 7%	140	1.00		PL-7 EER5455S AL400
PL-9	5700 ± 25%	2060	0.00	16.00 (80℃)	PL-9 EER5455S
PL-11	5000 ± 25%	1810	0.00	16.00	PL-11 EER5455S

EER6062S ETD59



Parameter	Symbol	Value	Unit
Core constant	C1	0.383	mm^{-1}
Effective path length	le	141.0	mm
Effective area	Ae	367.0	mm^2
Effective volume	Ve	51630	mm^3
Center leg area	Ac	368.0	mm^2
Winding area	Aw	518.0	mm^2
Weight of set	W	264	g

Air gap vs. A_L value for EER6062S (Typical)

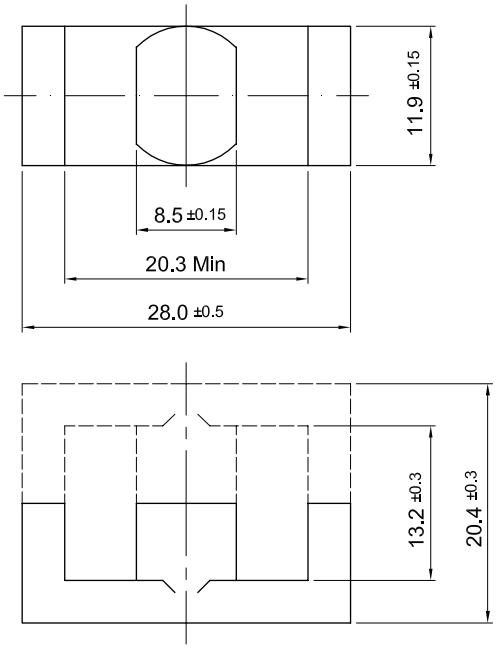


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1621	2635	3648	7094
Flyback converter	540	878	1216	2365
Forward converter	811	1317	1824	3547

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

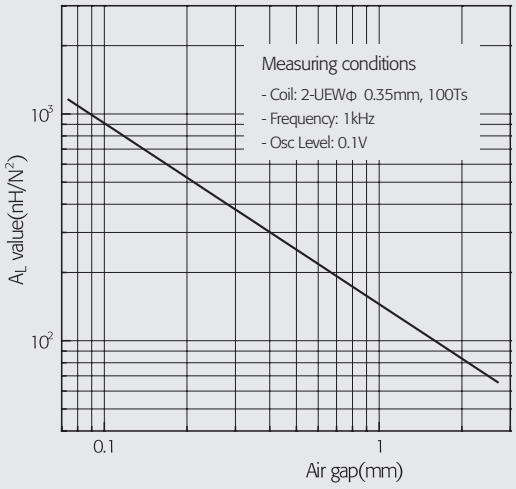
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	5400 ± 25%	1740	0.00	32.00	PL-5 EER6062S
PL-7	5400 ± 25%	1740	0.00	26.50	PL-7 EER6062S
	2610 ± 15%	800	0.10		PL-7 EER6062S AL2610
	860 ± 10%	260	0.50		PL-7 EER6062S AL860
	495 ± 7%	150	1.00		PL-7 EER6062S AL495
PL-9	6500 ± 25%	2040	0.00	23.50 (80℃)	PL-9 EER6062S
PL-11	5600 ± 25%	1800	0.00	23.50	PL-11 EER6062S
SM-50	11490 ± 25%	3500	0.00		SM-50 EER6062S
SM-60	13780 ± 25%	4200	0.00		SM-60 EER6062S
SM-70S	16000 ± 25%	4880	0.00		SM-70S EER6062S
SM-100	18050 ± 30%	5500	0.00		SM-100 EER6062S

EED2820S



Parameter	Symbol	Value	Unit
Core constant	C1	0.586	mm^{-1}
Effective path length	le	50.5	mm
Effective area	Ae	86.1	mm^2
Effective volume	Ve	4350	mm^3
Center leg area	Ac	101.2	mm^2
Winding area	Aw	81.1	mm^2
Weight of set	W	23	g

Air gap vs. A_L value for EED2820S (Typical)

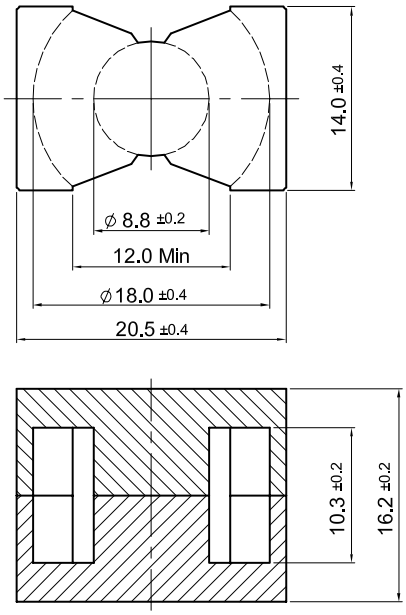


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	60	97	134	261
Flyback converter	20	32	45	87
Forward converter	30	48	67	130

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

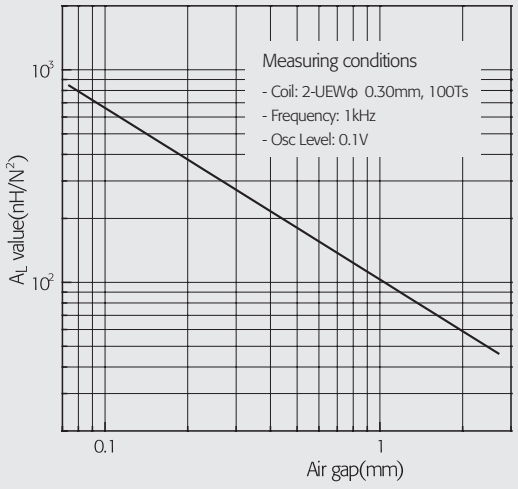
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-5	3000 ± 25%	1400	0.00	2.65	PL-5 EED2820S
PL-7	3000 ± 25%	1400	0.00	2.20	PL-7 EED2820S
	900 ± 15%	420	0.10		PL-7 EED2820S AL900
	255 ± 7%	120	0.50		PL-7 EED2820S AL255
	145 ± 5%	70	1.00		PL-7 EED2820S AL145
PL-9	3400 ± 25%	1590	0.00	1.80 (80℃)	PL-9 EED2820S
PL-11	3100 ± 25%	1450	0.00	1.80	PL-11 EED2820S
SM-50	7510 ± 25%	3500	0.00		SM-50 EED2820S
SM-60	9010 ± 25%	4200	0.00		SM-60 EED2820S
SM-70S	10460 ± 25%	4880	0.00		SM-70S EED2820S
SM-100	11800 ± 30%	5500	0.00		SM-100 EED2820S

PQ2016S



Parameter	Symbol	Value	Unit
Core constant	C1	0.605	mm^{-1}
Effective path length	le	37.4	mm
Effective area	Ae	62.0	mm^2
Effective volume	Ve	2310	mm^3
Center leg area	Ac	61.0	mm^2
Winding area	Aw	47.4	mm^2
Weight of set	W	13	g

Air gap vs. A_L value for PQ2016S (Typical)

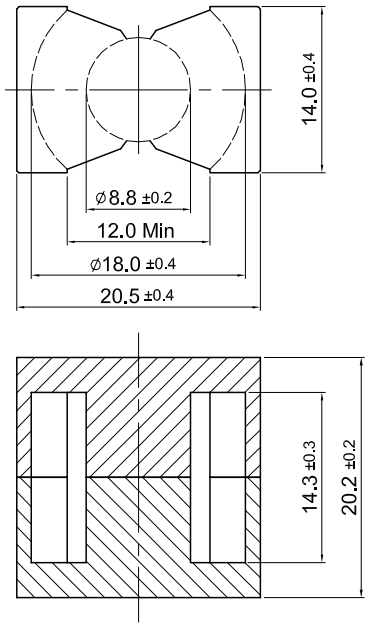


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	25	41	56	110
Flyback converter	8	14	19	37
Forward converter	13	20	28	55

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

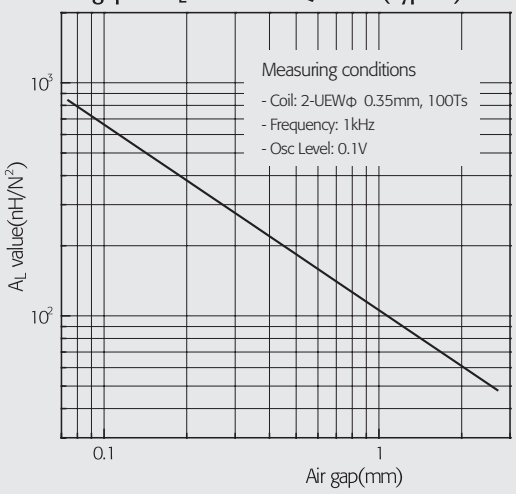
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	3500 ± 25%	1680	0.00	1.16	PL-7 PQ2016S
	655 ± 10%	320	0.10		PL-7 PQ2016S AL655
	185 ± 5%	90	0.50		PL-7 PQ2016S AL185
	103 ± 3%	50	1.00		PL-7 PQ2016S AL103
PL-9	4400 ± 25%	2120	0.00	0.95 (80℃)	PL-9 PQ2016S
PL-11	3700 ± 25%	1780	0.00	0.95	PL-11 PQ2016S
PL-F1	2600 ± 25%	1250	0.00	0.28 (500kHz, 50mT, 80℃)	PL-F1 PQ2016S

PQ2020S



Parameter	Symbol	Value	Unit
Core constant	C1	0.738	mm^{-1}
Effective path length	le	45.4	mm
Effective area	Ae	62.0	mm^2
Effective volume	Ve	2790	mm^3
Center leg area	Ac	61.0	mm^2
Winding area	Aw	65.8	mm^2
Weight of set	W	15	g

Air gap vs. A_L value for PQ2020S (Typical)



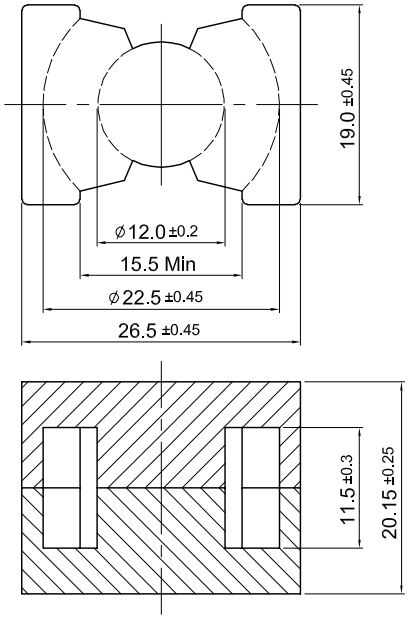
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	35	57	78	152
Flyback converter	12	19	26	51
Forward converter	17	28	39	76

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

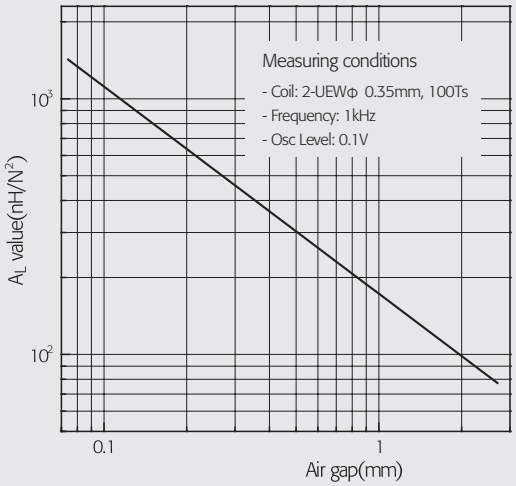
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	3000 ± 25%	1760	0.00	1.40	PL-7 PQ2020S
	660 ± 10%	390	0.10		PL-7 PQ2020S AL660
	185 ± 5%	110	0.50		PL-7 PQ2020S AL185
	105 ± 3%	60	1.00		PL-7 PQ2020S AL105
PL-9	3600 ± 25%	2110	0.00	1.15 (80℃)	PL-9 PQ2020S
PL-11	3100 ± 25%	1820	0.00	1.15	PL-11 PQ2020S
PL-F1	2300 ± 25%	1350	0.00	0.33 (500kHz, 50mT, 80℃)	PL-F1 PQ2020S

PQ2620S



Parameter	Symbol	Value	Unit
Core constant	C1	0.391	mm^{-1}
Effective path length	le	46.3	mm
Effective area	Ae	119.0	mm^2
Effective volume	Ve	5490	mm^3
Center leg area	Ac	113.0	mm^2
Winding area	Aw	60.4	mm^2
Weight of set	W	31	g

Air gap vs. A_L value for PQ2620S (Typical)

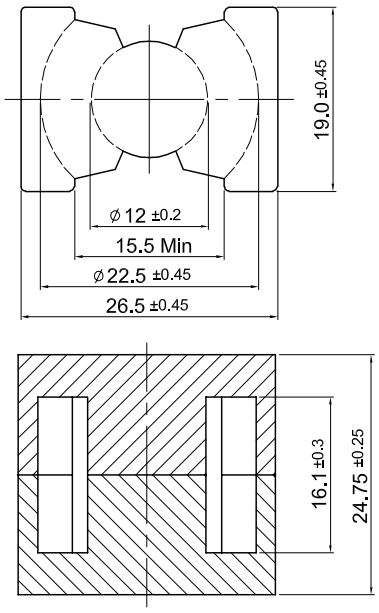


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	61	100	138	268
Flyback converter	20	33	46	89
Forward converter	31	50	69	134

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

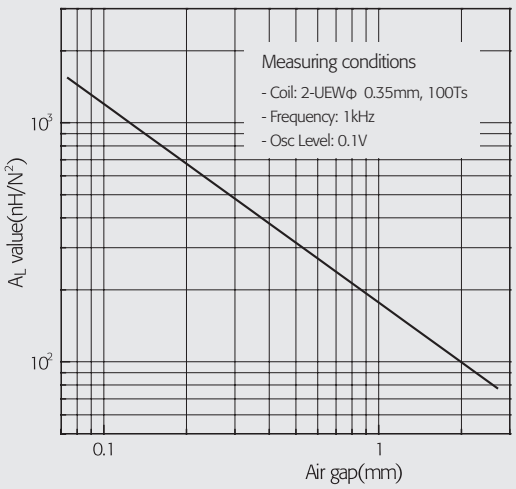
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	5500 ± 25%	1710	0.00	2.40	PL-7 PQ2620S
	1105 ± 7%	340	0.10		PL-7 PQ2620S AL1105
	310 ± 5%	100	0.50		PL-7 PQ2620S AL310
	173 ± 3%	54	1.00		PL-7 PQ2620S AL173
PL-9	6800 ± 25%	2120	0.00	2.25 (80℃)	PL-9 PQ2620S
PL-11	5700 ± 25%	1770	0.00	2.25	PL-11 PQ2620S
PL-F1	4000 ± 25%	1240	0.00	0.72 (500kHz, 50mT, 80℃)	PL-F1 PQ2620S

PQ2625S



Parameter	Symbol	Value	Unit
Core constant	C1	0.472	mm^{-1}
Effective path length	le	55.5	mm
Effective area	Ae	118.0	mm^2
Effective volume	Ve	6530	mm^3
Center leg area	Ac	113.0	mm^2
Winding area	Aw	84.5	mm^2
Weight of set	W	36	g

Air gap vs. A_L value for PQ2625S (Typical)



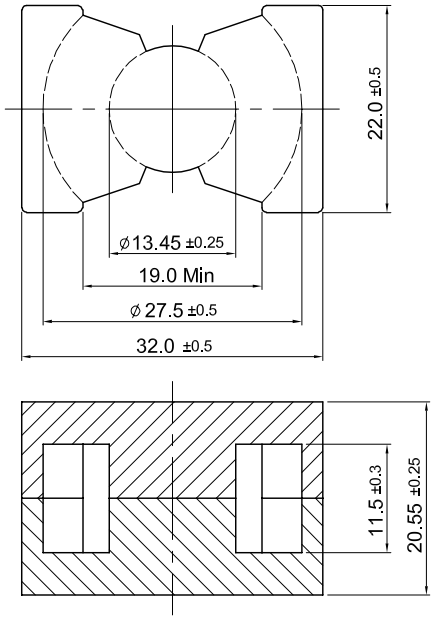
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	85	138	191	372
Flyback converter	28	46	64	124
Forward converter	43	69	96	186

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

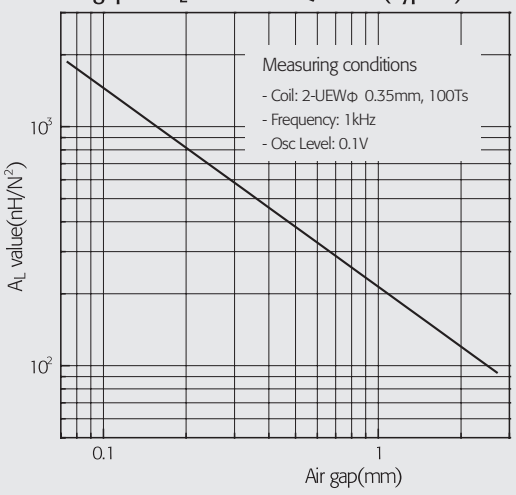
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	4500 ± 25%	1690	0.00	3.30	PL-7 PQ2625S
	1190 ± 7%	450	0.10		PL-7 PQ2625S AL1190
	315 ± 5%	120	0.50		PL-7 PQ2625S AL315
	175 ± 3%	70	1.00		PL-7 PQ2625S AL175
PL-9	5600 ± 25%	2100	0.00	2.70 (80℃)	PL-9 PQ2625S
PL-11	4700 ± 25%	1760	0.00	2.70	PL-11 PQ2625S
PL-F1	3350 ± 25%	1260	0.00	0.79 (500kHz, 50mT, 80℃)	PL-F1 PQ2625S

PQ3220S



Parameter	Symbol	Value	Unit
Core constant	C1	0.326	mm^{-1}
Effective path length	le	55.5	mm
Effective area	Ae	170.0	mm^2
Effective volume	Ve	9420	mm^3
Center leg area	Ac	142.0	mm^2
Winding area	Aw	80.8	mm^2
Weight of set	W	42	g

Air gap vs. A_L value for PQ3220S (Typical)

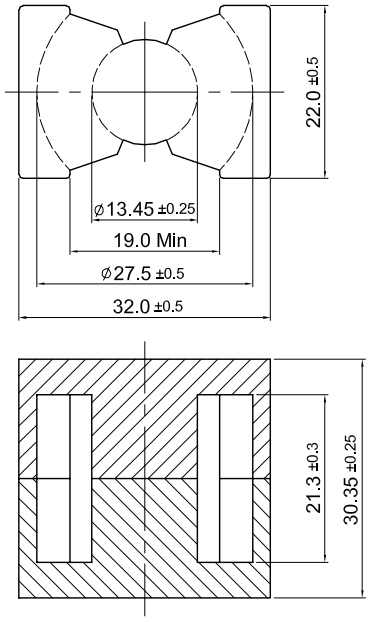


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	117	190	264	513
Flyback converter	39	63	88	171
Forward converter	59	95	132	256

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

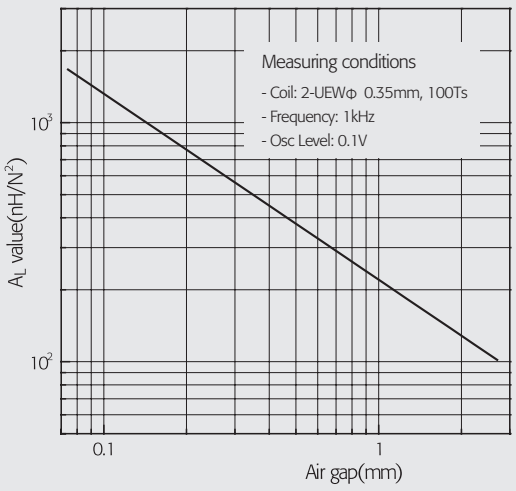
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	6700 ± 25%	1740	0.00	4.70	PL-7 PQ3220S
	1435 ± 7%	370	0.10		PL-7 PQ3220S AL1435
	390 ± 5%	100	0.50		PL-7 PQ3220S AL390
	215 ± 3%	60	1.00		PL-7 PQ3220S AL215
PL-9	8200 ± 25%	2130	0.00	3.90 (80℃)	PL-9 PQ3220S
PL-11	7000 ± 25%	1820	0.00	3.90	PL-11 PQ3220S
PL-F1	4850 ± 25%	1260	0.00	1.13 (500kHz, 50mT, 80℃)	PL-F1 PQ3220S

PQ3230S



Parameter	Symbol	Value	Unit
Core constant	C1	0.464	mm^{-1}
Effective path length	le	74.6	mm
Effective area	Ae	161.0	mm^2
Effective volume	Ve	11970	mm^3
Center leg area	Ac	142.0	mm^2
Winding area	Aw	149.6	mm^2
Weight of set	W	55	g

Air gap vs. A_L value for PQ3230S (Typical)



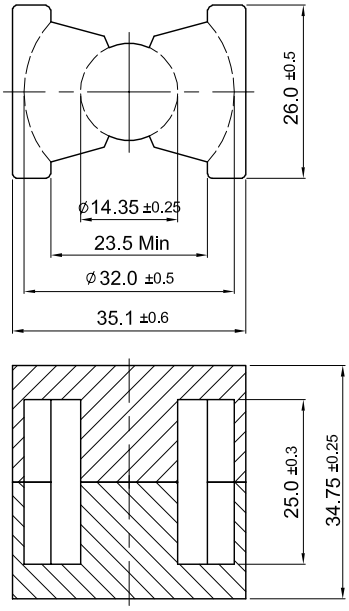
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	205	334	462	899
Flyback converter	68	111	154	300
Forward converter	103	167	231	449

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

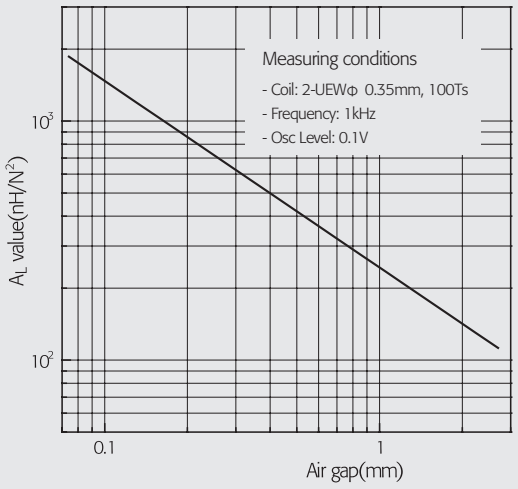
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	4750 ± 25%	1750	0.00	6.00	PL-7 PQ3230S
	1290 ± 7%	480	0.10		PL-7 PQ3230S AL1290
	390 ± 5%	140	0.50		PL-7 PQ3230S AL390
	220 ± 3%	80	1.00		PL-7 PQ3230S AL220
PL-9	5830 ± 25%	2150	0.00	4.90 (80℃)	PL-9 PQ3230S
PL-11	5000 ± 25%	1850	0.00	4.90	PL-11 PQ3230S
PL-F1	3500 ± 25%	1290	0.00	1.44 (500kHz, 50mT, 80℃)	PL-F1 PQ3230S

PQ3535S



Parameter	Symbol	Value	Unit
Core constant	C1	0.448	mm^{-1}
Effective path length	le	87.9	mm
Effective area	Ae	196.0	mm^2
Effective volume	Ve	17260	mm^3
Center leg area	Ac	162.0	mm^2
Winding area	Aw	220.6	mm^2
Weight of set	W	73	g

Air gap vs. A_L value for PQ3535S (Typical)



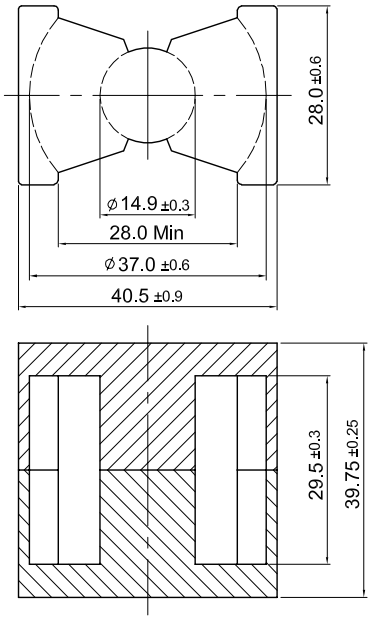
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	369	599	830	1613
Flyback converter	123	200	277	538
Forward converter	184	300	415	807

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

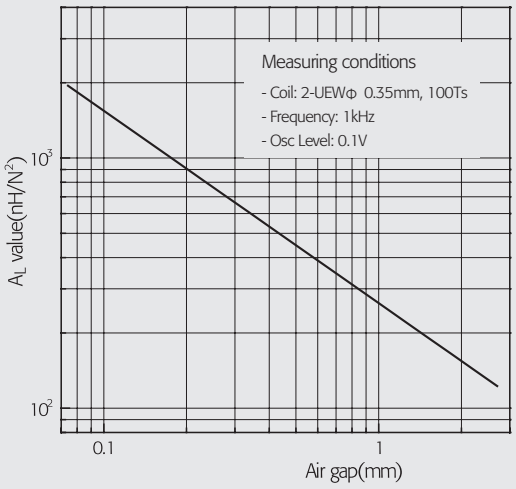
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	4500 ± 25%	1600	0.00	8.70	PL-7 PQ3535S
	1440 ± 7%	510	0.10		PL-7 PQ3535S AL1440
	425 ± 5%	150	0.50		PL-7 PQ3535S AL425
	245 ± 3%	90	1.00		PL-7 PQ3535S AL245
PL-9	5700 ± 25%	2030	0.00	7.10 (80℃)	PL-9 PQ3535S
PL-11	4700 ± 25%	1680	0.00	7.10	PL-11 PQ3535S
PL-F1	3700 ± 25%	1320	0.00	2.30 (500kHz, 50mT, 80℃)	PL-F1 PQ3535S

PQ4040S



Parameter	Symbol	Value	Unit
Core constant	C1	0.508	mm^{-1}
Effective path length	le	101.9	mm
Effective area	Ae	201.0	mm^2
Effective volume	Ve	20450	mm^3
Center leg area	Ac	174.0	mm^2
Winding area	Aw	326.0	mm^2
Weight of set	W	95	g

Air gap vs. A_L value for PQ4040S (Typical)



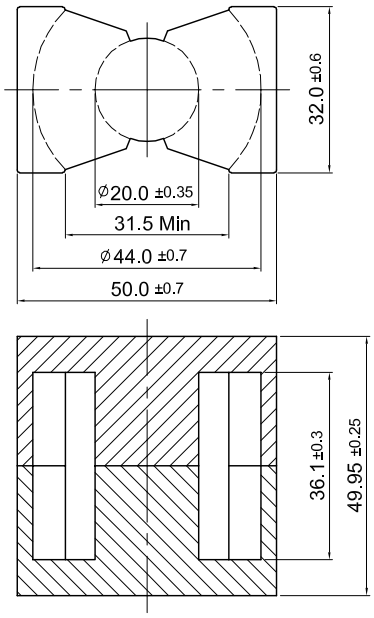
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	559	908	1257	2445
Flyback converter	186	303	419	815
Forward converter	279	454	629	1223

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

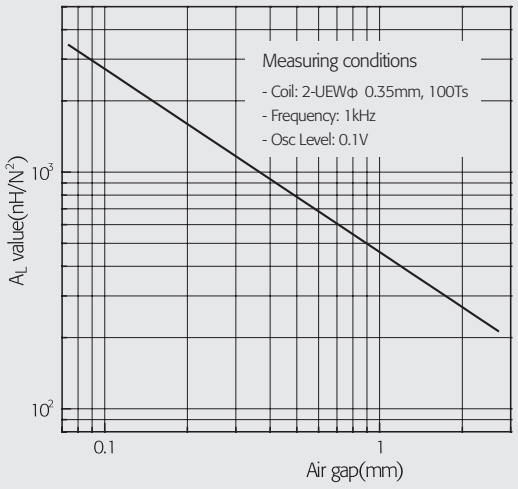
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	4300 ± 25%	1740	0.00	10.30	PL-7 PQ4040S
	1540 ± 10%	620	0.10		PL-7 PQ4040S AL1540
	455 ± 7%	180	0.50		PL-7 PQ4040S AL455
	260 ± 5%	105	1.00		PL-7 PQ4040S AL260
PL-9	5200 ± 25%	2100	0.00	8.40 (80℃)	PL-9 PQ4040S
PL-11	4500 ± 25%	1820	0.00	8.40	PL-11 PQ4040S
PL-F1	3100 ± 25%	1250	0.00	2.45 (500kHz, 50mT, 80℃)	PL-F1 PQ4040S

PQ5050S



Parameter	Symbol	Value	Unit
Core constant	C1	0.346	mm^{-1}
Effective path length	le	113.0	mm
Effective area	Ae	328.0	mm^2
Effective volume	Ve	37240	mm^3
Center leg area	Ac	314.0	mm^2
Winding area	Aw	433.0	mm^2
Weight of set	W	195	g

Air gap vs. A_L value for PQ5050S (Typical)

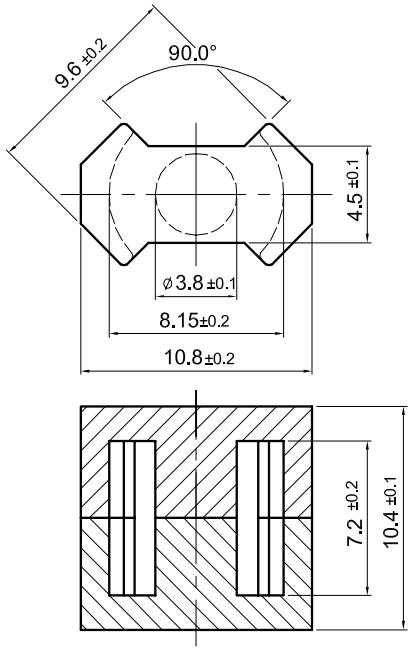


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1211	1968	2725	5299
Flyback converter	404	656	908	1766
Forward converter	606	984	1363	2650

Note : 1) Core loss is assumed to be approx. $0.1W/cm^3$.
2) Temperature rise should be considered for design before choosing the final core size.

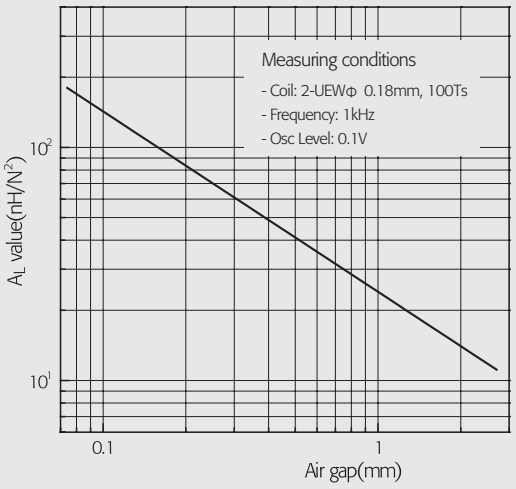
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	6400 ± 25%	1760	0.00	18.70	PL-7 PQ5050S
	2680 ± 10%	740	0.10		PL-7 PQ5050S AL2680
	810 ± 7%	220	0.50		PL-7 PQ5050S AL810
	460 ± 5%	130	1.00		PL-7 PQ5050S AL460
PL-9	7700 ± 25%	2120	0.00	15.30 (80℃)	PL-9 PQ5050S
PL-11	6700 ± 25%	1840	0.00	15.30	PL-11 PQ5050S
PL-F1	4580 ± 25%	1260	0.00	4.50 (500kHz, 50mT, 80℃)	PL-F1 PQ5050S

RM4



Parameter	Symbol	Value	Unit
Core constant	C1	1.700	mm^{-1}
Effective path length	le	22.0	mm
Effective area	Ae	13.0	mm^2
Effective volume	Ve	286	mm^3
Center leg area	Ac	11.3	mm^2
Winding area	Aw	15.7	mm^2
Weight of set	W	1.7	g

Air gap vs. A_L value for RM4 (Typical)



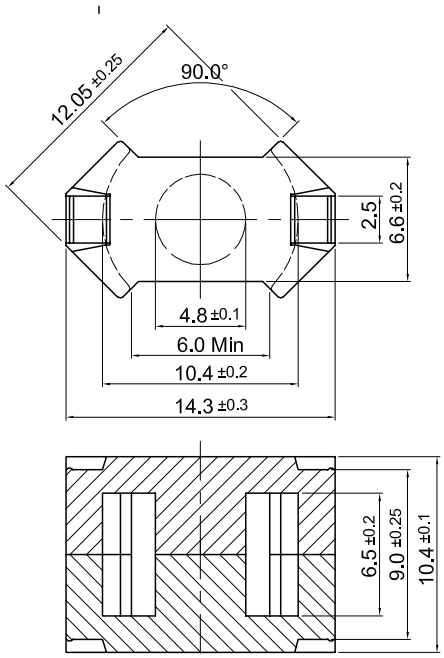
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	2	3	4	8
Flyback converter	1	1	1	3
Forward converter	1	1	2	4

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

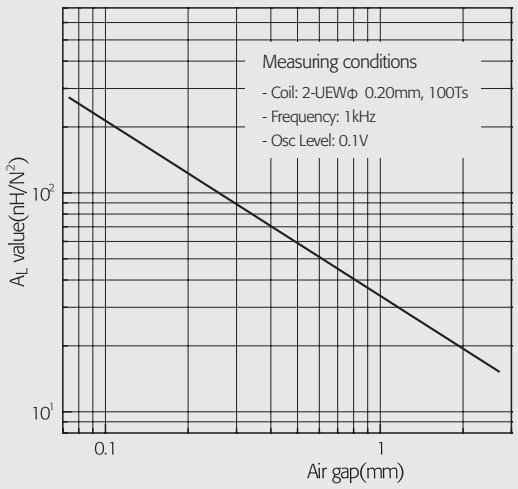
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1070 ± 25%	1450	0.00	0.16	PL-7 RM4
	140 ± 10%	190	0.10		PL-7 RM4 AL140
	42 ± 5%	57	0.50		PL-7 RM4 AL42
	24 ± 3%	32	1.00		PL-7 RM4 AL24
PL-9	1200 ± 25%	1620	0.00	0.13 (80℃)	PL-9 RM4
PL-11	1100 ± 25%	1490	0.00	0.13	PL-11 RM4
SM-23T	1030 ± 25%	1390	0.00		SM-23T RM4
SM-43T	2000 ± 25%	2700	0.00		SM-43T RM4
ST-30B	1200 ± 25%	1620	0.00		ST-30B RM4
SM-70S	3300 ± 25%	4460	0.00		SM-70S RM4
SM-100	3700 ± 30%	5000	0.00		SM-100 RM4

RM5



Parameter	Symbol	Value	Unit
Core constant	C1	0.930	mm^{-1}
Effective path length	le	22.1	mm
Effective area	Ae	23.8	mm^2
Effective volume	Ve	526	mm^3
Center leg area	Ac	18.0	mm^2
Winding area	Aw	18.2	mm^2
Weight of set	W	3.0	g

Air gap vs. A_L value for RM5 (Typical)

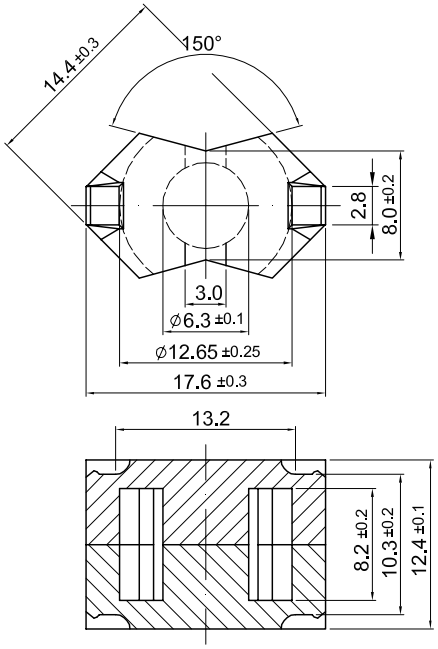


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	4	6	8	16
Flyback converter	1	2	3	5
Forward converter	2	3	4	8

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

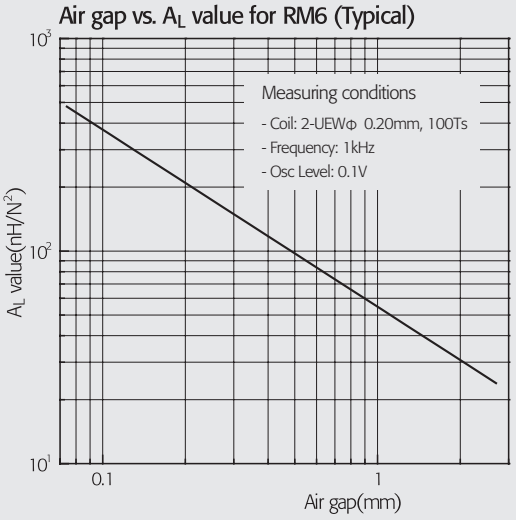
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	2000 ± 25%	1480	0.00	0.27	PL-7 RM5
	210 ± 10%	160	0.10		PL-7 RM5 AL210
	60 ± 5%	40	0.50		PL-7 RM5 AL60
	34 ± 3%	25	1.00		PL-7 RM5 AL34
PL-9	2500 ± 25%	1850	0.00	0.22 (80℃)	PL-9 RM5
PL-11	2100 ± 25%	1550	0.00	0.22	PL-11 RM5
SM-23T	1900 ± 25%	1410	0.00		SM-23T RM5
SM-43T	3800 ± 25%	2810	0.00		SM-43T RM5
ST-30B	2500 ± 25%	1850	0.00		ST-30B RM5
SM-70S	6000 ± 25%	4440	0.00		SM-70S RM5
SM-100	6700 ± 30%	4960	0.00		SM-100 RM5

RM6



Parameter	Symbol	Value	Unit
Core constant	C1	0.780	mm^{-1}
Effective path length	le	28.6	mm
Effective area	Ae	36.6	mm^2
Effective volume	Ve	1050	mm^3
Center leg area	Ac	31.1	mm^2
Winding area	Aw	26.0	mm^2
Weight of set	W	5.3	g

Air gap vs. A_L value for RM6 (Typical)

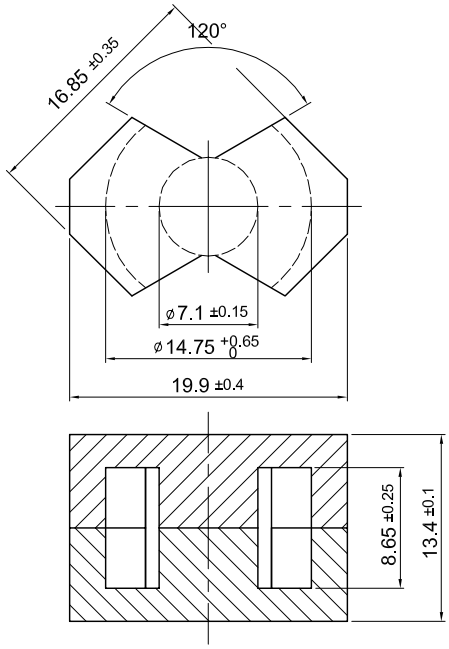


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	8	13	18	36
Flyback converter	3	4	6	12
Forward converter	4	7	9	18

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

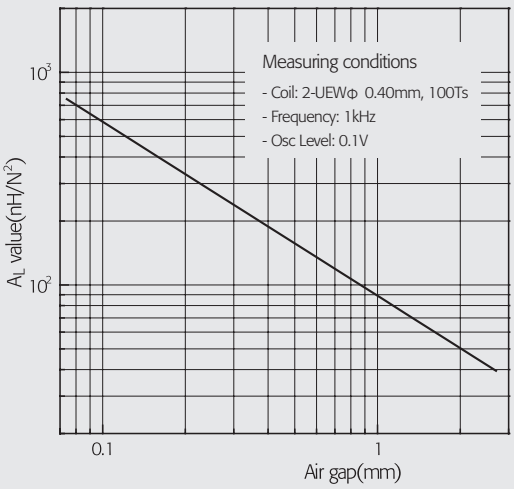
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	2400 ± 25%	1490	0.00	0.52	PL-7 RM6
	370 ± 10%	230	0.10		PL-7 RM6 AL370
	99 ± 5%	60	0.50		PL-7 RM6 AL99
	55 ± 3%	30	1.00		PL-7 RM6 AL55
PL-9	3000 ± 25%	1860	0.00	0.43 (80℃)	PL-9 RM6
PL-11	2500 ± 25%	1550	0.00	0.43	PL-11 RM6
SM-23T	2300 ± 25%	1430	0.00		SM-23T RM6
SM-43T	4500 ± 25%	2790	0.00		SM-43T RM6
ST-30B	3000 ± 25%	1860	0.00		ST-30B RM6
SM-70S	7200 ± 25%	4470	0.00		SM-70S RM6
SM-100	9000 ± 30%	5580	0.00		SM-100 RM6

RM7



Parameter	Symbol	Value	Unit
Core constant	C1	0.700	mm^{-1}
Effective path length	le	30.4	mm
Effective area	Ae	43.0	mm^2
Effective volume	Ve	1340	mm^3
Center leg area	Ac	39.6	mm^2
Winding area	Aw	34.5	mm^2
Weight of set	W	7.9	g

Air gap vs. A_L value for RM7 (Typical)

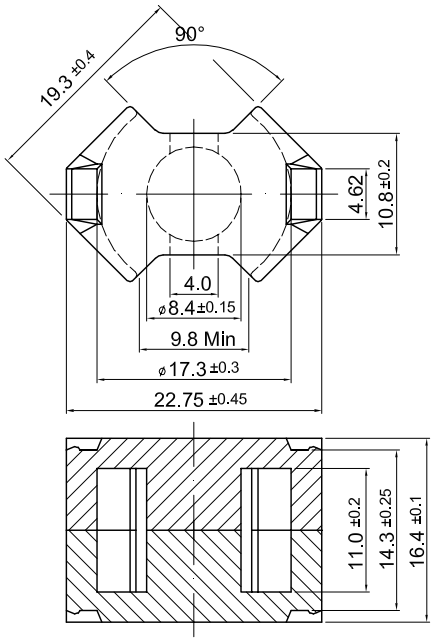


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	13	21	28	55
Flyback converter	4	7	9	18
Forward converter	6	10	14	28

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

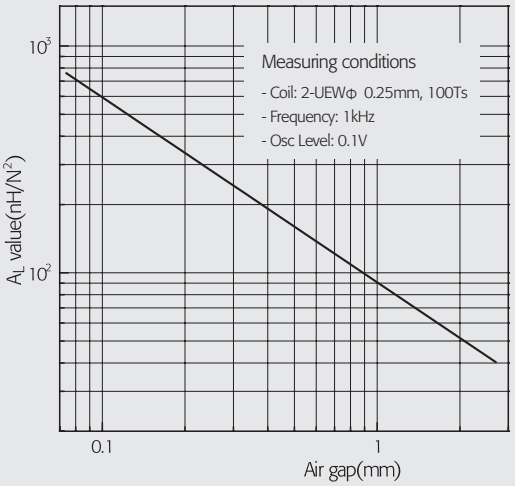
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	3095 ± 25%	1720	0.00	0.77	PL-7 RM7
	590 ± 10%	330	0.10		PL-7 RM7 AL590
	155 ± 5%	90	0.50		PL-7 RM7 AL155
	89 ± 3%	50	1.00		PL-7 RM7 AL89
PL-9	3800 ± 25%	2120	0.00	0.67 (80℃)	PL-9 RM7
PL-11	3200 ± 25%	1780	0.00	0.67	PL-11 RM7
SM-23T	3000 ± 25%	1670	0.00		SM-23T RM7
SM-43T	5000 ± 25%	2780	0.00		SM-43T RM7
ST-30B	3500 ± 25%	1950	0.00		ST-30B RM7
SM-70S	8100 ± 25%	4510	0.00		SM-70S RM7
SM-100	10500 ± 30%	5850	0.00		SM-100 RM7

RM8



Parameter	Symbol	Value	Unit
Core constant	C1	0.590	mm^{-1}
Effective path length	le	38.0	mm
Effective area	Ae	64.0	mm^2
Effective volume	Ve	2430	mm^3
Center leg area	Ac	55.3	mm^2
Winding area	Aw	48.9	mm^2
Weight of set	W	12	g

Air gap vs. A_L value for RM8 (Typical)

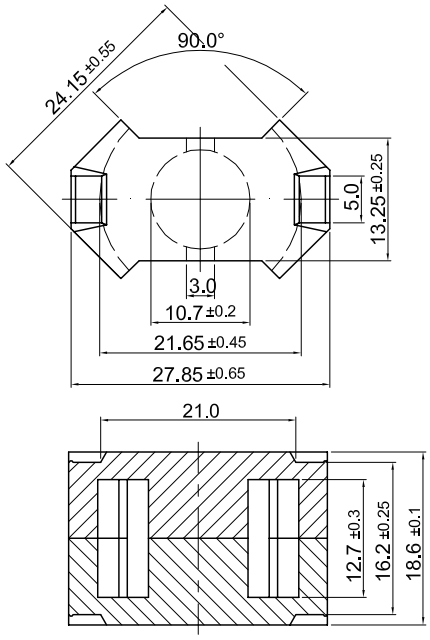


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	27	43	60	117
Flyback converter	9	14	20	39
Forward converter	13	22	30	58

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

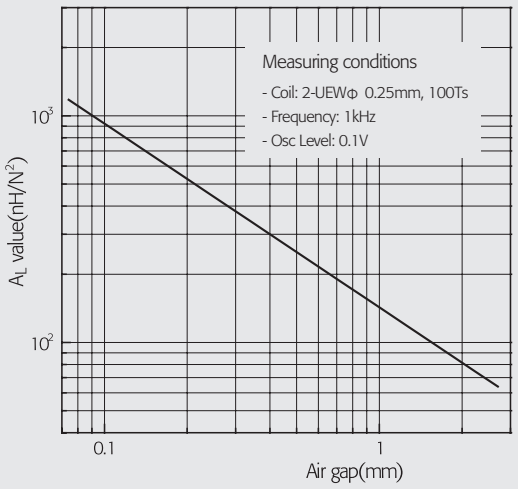
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	3300 ± 25%	1550	0.00	1.20	PL-7 RM8
	595 ± 10%	280	0.10		PL-7 RM8 AL595
	160 ± 5%	80	0.50		PL-7 RM8 AL160
	90 ± 3%	40	1.00		PL-7 RM8 AL90
PL-9	4100 ± 25%	1920	0.00	1.00 (80℃)	PL-9 RM8
PL-11	3400 ± 25%	1600	0.00	1.00	PL-11 RM8
SM-23T	3150 ± 25%	1480	0.00		SM-23T RM8
SM-43T	6000 ± 25%	2820	0.00		SM-43T RM8
ST-30B	4100 ± 25%	1920	0.00		ST-30B RM8
SM-70S	9590 ± 25%	4500	0.00		SM-70S RM8
SM-100	13000 ± 30%	6100	0.00		SM-100 RM8

RM10



Parameter	Symbol	Value	Unit
Core constant	C1	0.450	mm^{-1}
Effective path length	le	44.0	mm
Effective area	Ae	98.0	mm^2
Effective volume	Ve	4310	mm^3
Center leg area	Ac	89.8	mm^2
Winding area	Aw	69.5	mm^2
Weight of set	W	22	g

Air gap vs. A_L value for RM10 (Typical)

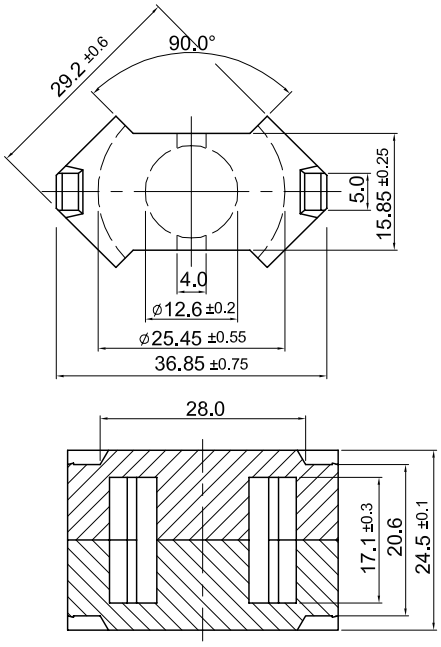


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	58	94	131	254
Flyback converter	19	31	44	85
Forward converter	29	47	65	127

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

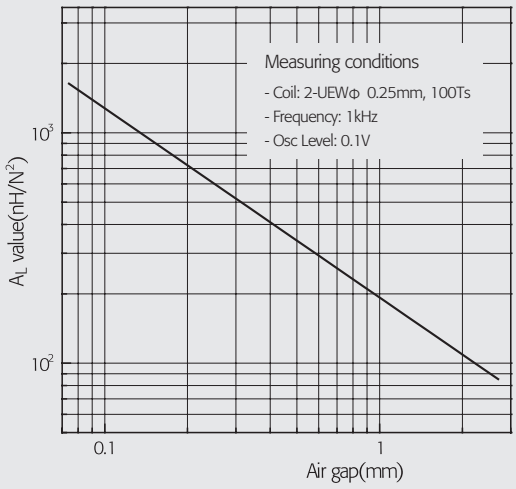
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	4200 ± 25%	1500	0.00	2.20	PL-7 RM10
	915 ± 10%	330	0.10		PL-7 RM10 AL915
	255 ± 5%	90	0.50		PL-7 RM10 AL255
	143 ± 3%	50	1.00		PL-7 RM10 AL143
PL-9	5240 ± 25%	1880	0.00	1.77 (80℃)	PL-9 RM10
PL-11	4400 ± 25%	1580	0.00	1.77	PL-11 RM10
SM-23T	4000 ± 25%	1430	0.00		SM-23T RM10
SM-43T	7800 ± 25%	2790	0.00		SM-43T RM10
ST-30B	5240 ± 25%	1880	0.00		ST-30B RM10
SM-70S	13400 ± 25%	4800	0.00		SM-70S RM10
SM-100	15000 ± 30%	5370	0.00		SM-100 RM10

RM12



Parameter	Symbol	Value	Unit
Core constant	C1	0.390	mm^{-1}
Effective path length	le	57.0	mm
Effective area	Ae	146.0	mm^2
Effective volume	Ve	8340	mm^3
Center leg area	Ac	124.0	mm^2
Winding area	Aw	110.0	mm^2
Weight of set	W	42	g

Air gap vs. A_L value for RM12 (Typical)

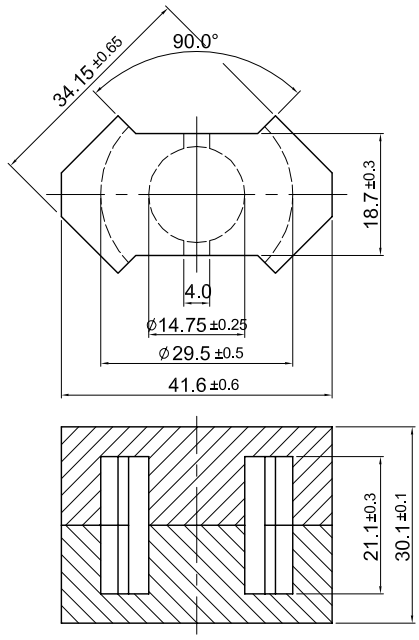


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	137	223	308	599
Flyback converter	46	74	103	200
Forward converter	68	111	154	300

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

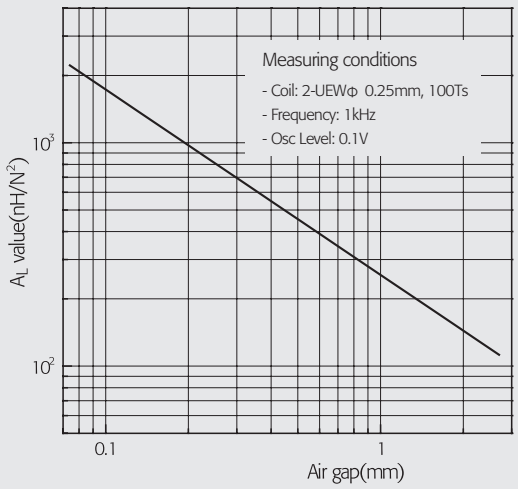
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	5300 ± 25%	1640	0.00	4.20	PL-7 RM12
	1270 ± 10%	390	0.10		PL-7 RM12 AL1270
	345 ± 7%	110	0.50		PL-7 RM12 AL345
	190 ± 5%	60	1.00		PL-7 RM12 AL190
PL-9	6600 ± 25%	2050	0.00	3.42 (80℃)	PL-9 RM12
PL-11	5500 ± 25%	1710	0.00	3.42	PL-11 RM12
SM-23T	5070 ± 25%	1570	0.00		SM-23T RM12
SM-43T	9000 ± 25%	2790	0.00		SM-43T RM12
ST-30B	6600 ± 25%	2050	0.00		ST-30B RM12
SM-70S	13000 ± 25%	4030	0.00		SM-70S RM12
SM-100	17000 ± 30%	5270	0.00		SM-100 RM12

RM14



Parameter	Symbol	Value	Unit
Core constant	C1	0.350	mm^{-1}
Effective path length	le	70.0	mm
Effective area	Ae	200.0	mm^2
Effective volume	Ve	14000	mm^3
Center leg area	Ac	170.0	mm^2
Winding area	Aw	155.0	mm^2
Weight of set	W	70	g

Air gap vs. A_L value for RM14 (Typical)

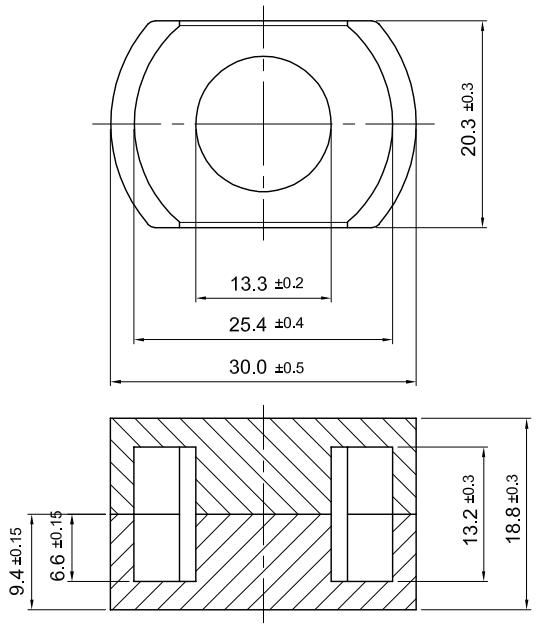


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	264	430	595	1157
Flyback converter	88	143	198	386
Forward converter	132	215	297	578

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

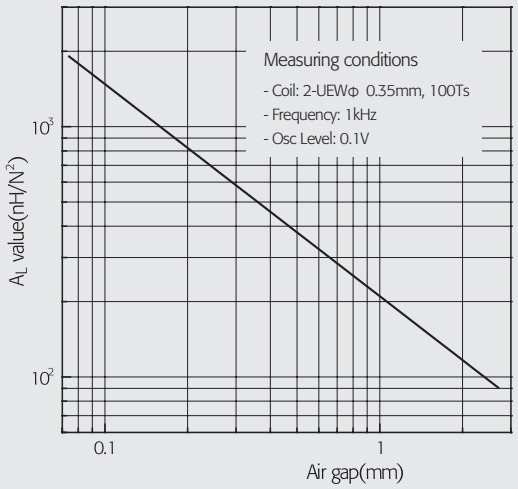
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	6000 ± 25%	1670	0.00	7.00	PL-7 RM14
	1720 ± 10%	480	0.10		PL-7 RM14 AL1720
	460 ± 7%	130	0.50		PL-7 RM14 AL460
	255 ± 5%	70	1.00		PL-7 RM14 AL255
PL-9	7500 ± 25%	2090	0.00	5.70 (80℃)	PL-9 RM14
PL-11	6300 ± 25%	1750	0.00	5.70	PL-11 RM14
SM-23T	5750 ± 25%	1600	0.00		SM-23T RM14
SM-43T	10000 ± 25%	2780	0.00		SM-43T RM14
ST-30B	7500 ± 25%	2090	0.00		ST-30B RM14
SM-70S	14800 ± 25%	4120	0.00		SM-70S RM14
SM-100	19700 ± 30%	5490	0.00		SM-100 RM14

DS3019



Parameter	Symbol	Value	Unit
Core constant	C1	0.395	mm^{-1}
Effective path length	le	46.2	mm
Effective area	Ae	117.0	mm^2
Effective volume	Ve	5410	mm^3
Center leg area	Ac	139.0	mm^2
Winding area	Aw	80.0	mm^2
Weight of set	W	27	g

Air gap vs. A_L value for DS3019 (Typical)



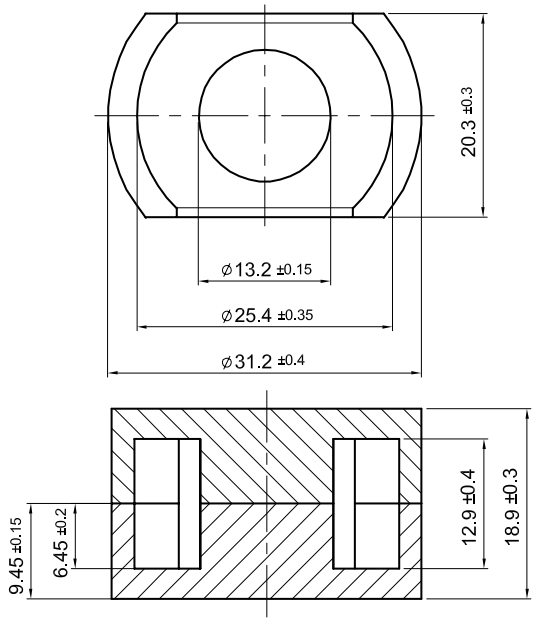
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	80	130	180	349
Flyback converter	27	43	60	116
Forward converter	40	65	90	175

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

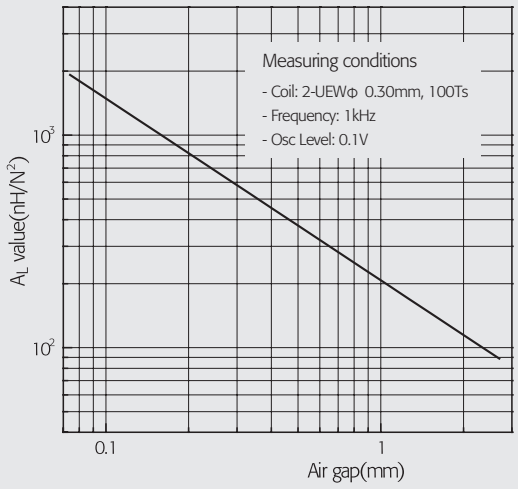
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	5350 ± 25%	1680	0.00	2.70	PL-7 DS3019
	1435 ± 10%	450	0.10		PL-7 DS3019 AL1435
	380 ± 7%	120	0.50		PL-7 DS3019 AL380
	210 ± 5%	70	1.00		PL-7 DS3019 AL210
PL-9	6680 ± 25%	2100	0.00	2.44 (80℃)	PL-9 DS3019
PL-11	5350 ± 25%	1680	0.00	2.44	PL-11 DS3019

DS3119W



Parameter	Symbol	Value	Unit
Core constant	C1	0.390	mm^{-1}
Effective path length	le	50.2	mm
Effective area	Ae	127.5	mm^2
Effective volume	Ve	6396	mm^3
Center leg area	Ac	136.9	mm^2
Winding area	Aw	78.7	mm^2
Weight of set	W	26	g

Air gap vs. A_L value for DS3119W (Typical)

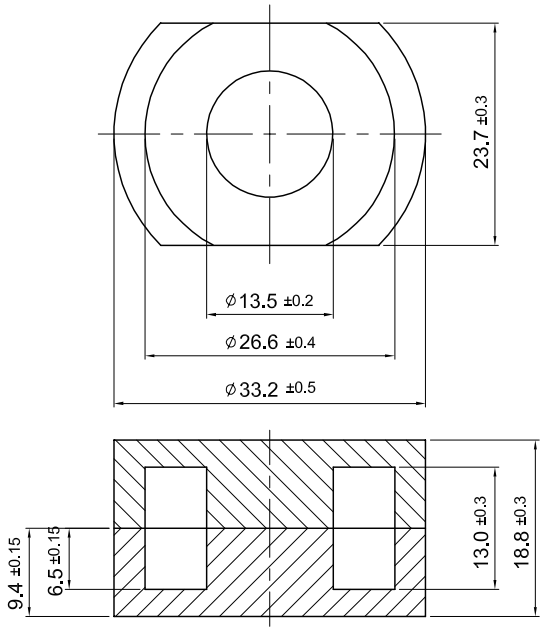


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	86	139	193	374
Flyback converter	29	46	64	125
Forward converter	43	70	96	187

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

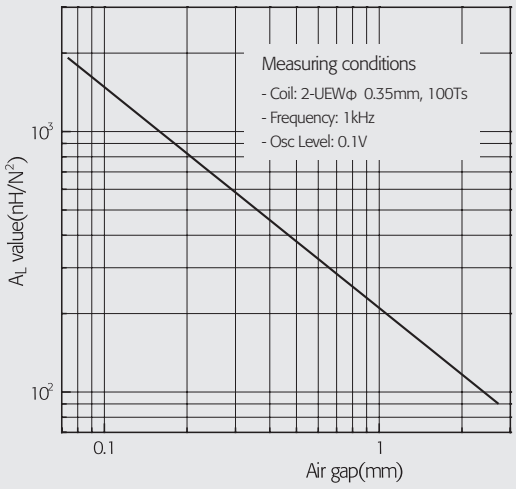
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	5400 ± 25%	1680	0.00	3.20	PL-7 DS3119W
	1480 ± 10%	460	0.10		PL-7 DS3119W AL1480
	380 ± 7%	120	0.50		PL-7 DS3119W AL380
	210 ± 5%	70	1.00		PL-7 DS3119W AL210
PL-9	6800 ± 25%	2110	0.00	2.95 (80℃)	PL-9 DS3119W
PL-11	5400 ± 25%	1680	0.00	2.95	PL-11 DS3119W

DS3319



Parameter	Symbol	Value	Unit
Core constant	C1	0.350	mm^{-1}
Effective path length	le	51.4	mm
Effective area	Ae	147.4	mm^2
Effective volume	Ve	7576	mm^3
Center leg area	Ac	143.0	mm^2
Winding area	Aw	85.2	mm^2
Weight of set	W	30	g

Air gap vs. A_L value for DS3319S (Typical)

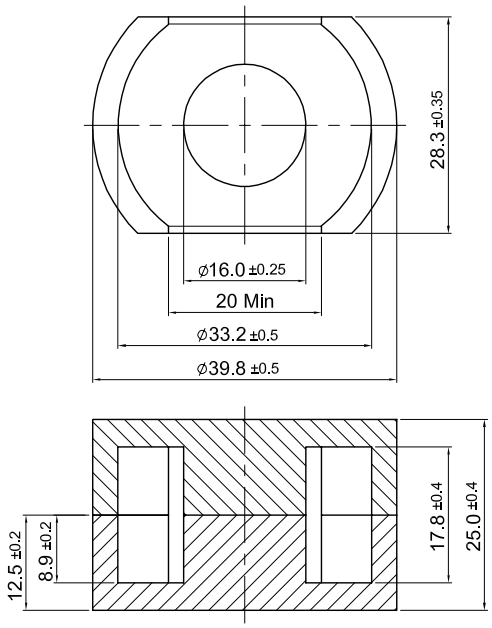


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	107	174	241	468
Flyback converter	36	58	80	156
Forward converter	54	87	120	234

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

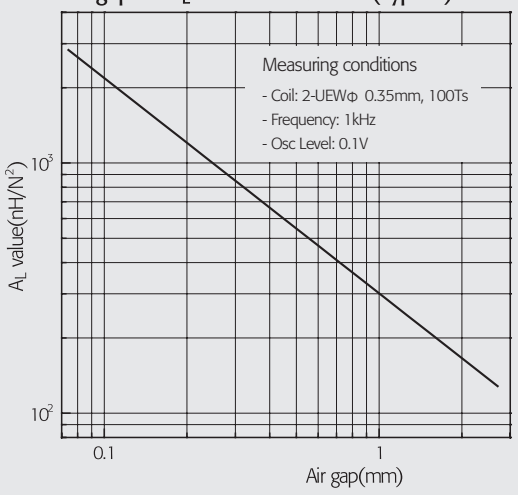
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	6000 ± 25%	1670	0.00	3.20	PL-7 DS3319
	1470 ± 10%	410	0.10		PL-7 DS3319 AL1470
	385 ± 7%	110	0.50		PL-7 DS3319 AL385
	210 ± 5%	60	1.00		PL-7 DS3319 AL210
PL-9	7450 ± 25%	2070	0.00	3.41 (80℃)	PL-9 DS3319
PL-11	6000 ± 25%	1670	0.00	3.41	PL-11 DS3319

DS4025



Parameter	Symbol	Value	Unit
Core constant	C1	0.330	mm^{-1}
Effective path length	le	67.3	mm
Effective area	Ae	205.0	mm^2
Effective volume	Ve	13797	mm^3
Center leg area	Ac	201.0	mm^2
Winding area	Aw	153.0	mm^2
Weight of set	W	53	g

Air gap vs. A_L value for DS4025 (Typical)



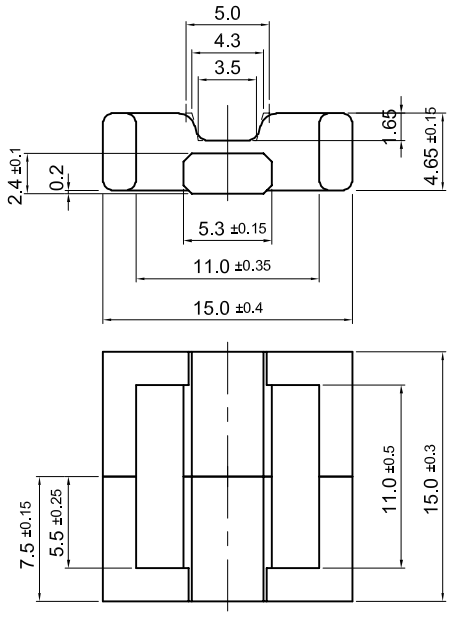
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	268	435	602	1170
Flyback converter	89	145	201	390
Forward converter	134	217	301	585

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

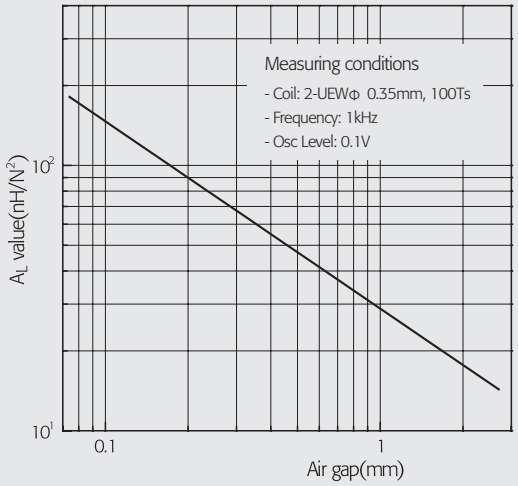
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	6400 ± 25%	1680	0.00	7.20	PL-7 DS4025
	2110 ± 10%	550	0.10		PL-7 DS4025 AL2110
	540 ± 7%	140	0.50		PL-7 DS4025 AL540
	300 ± 5%	80	1.00		PL-7 DS4025 AL300
PL-9	8000 ± 25%	2100	0.00	6.20 (80℃)	PL-9 DS4025
PL-11	6400 ± 25%	1680	0.00	6.20	PL-11 DS4025

EFD1515S EFD15



Parameter	Symbol	Value	Unit
Core constant	C1	2.270	mm^{-1}
Effective path length	le	34.0	mm
Effective area	Ae	15.0	mm^2
Effective volume	Ve	510	mm^3
Center leg area	Ac	12.7	mm^2
Winding area	Aw	31.4	mm^2
Weight of set	W	2.5	g

Air gap vs. A_L value for EFD1515S (Typical)

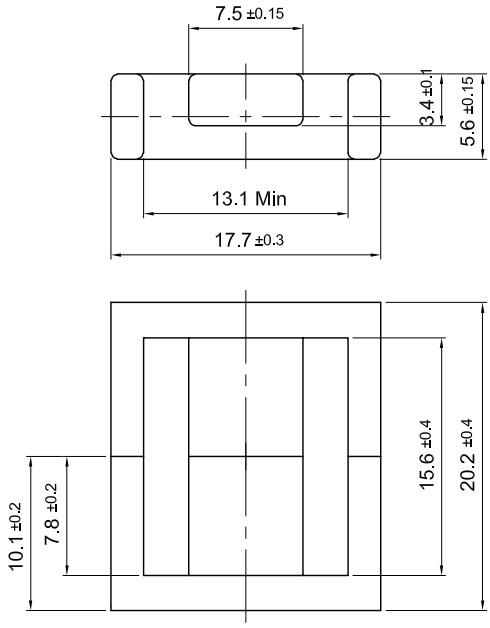


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	4	7	9	18
Flyback converter	1	2	3	6
Forward converter	2	3	5	9

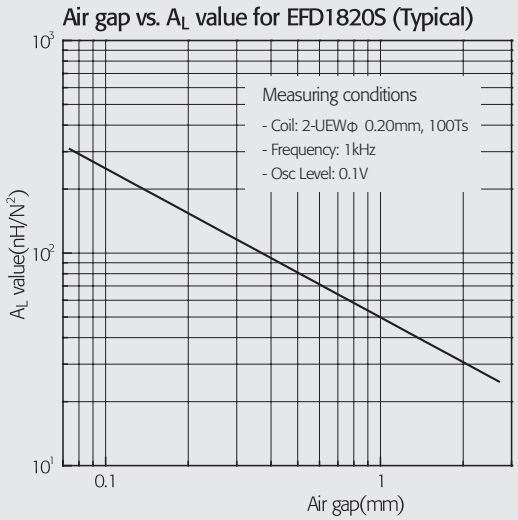
Note : 1) Core loss is assumed to be approx. $0.1W/cm^3$.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	890 ± 25%	1610	0.00	0.26	PL-7 EFD1515S
	150 ± 10%	270	0.10		PL-7 EFD1515S AL150
	47 ± 7%	85	0.50		PL-7 EFD1515S AL47
	29 ± 5%	52	1.00		PL-7 EFD1515S AL29
PL-9	1110 ± 25%	2000	0.00	0.23 (80℃)	PL-9 EFD1515S
PL-11	900 ± 25%	1630	0.00	0.23	PL-11 EFD1515S

EFD1820S



Parameter	Symbol	Value	Unit
Core constant	C1	2.020	mm^{-1}
Effective path length	le	51.6	mm
Effective area	Ae	25.6	mm^2
Effective volume	Ve	1320	mm^3
Center leg area	Ac	25.5	mm^2
Winding area	Aw	46.0	mm^2
Weight of set	W	5.9	g

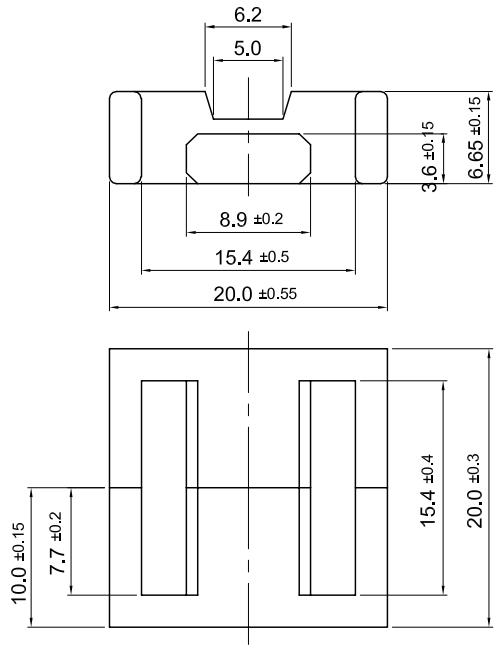


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	10	16	23	44
Flyback converter	3	5	8	15
Forward converter	5	8	11	22

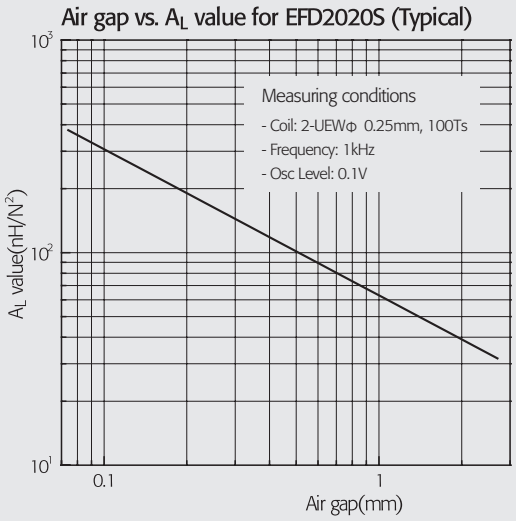
Note : 1) Core loss is assumed to be approx. $0.1W/cm^3$.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1050 ± 25%	1690	0.00	0.73	PL-7 EFD1820S
	250 ± 10%	400	0.10		PL-7 EFD1820S AL250
	83 ± 5%	130	0.50		PL-7 EFD1820S AL83
	50 ± 3%	80	1.00		PL-7 EFD1820S AL50
PL-9	1310 ± 25%	2110	0.00	0.59 (80℃)	PL-9 EFD1820S
PL-11	1100 ± 25%	1770	0.00	0.73	PL-11 EFD1820S

EFD2020S EFD20



Parameter	Symbol	Value	Unit
Core constant	C1	1.520	mm^{-1}
Effective path length	le	47.0	mm
Effective area	Ae	31.0	mm^2
Effective volume	Ve	1460	mm^3
Center leg area	Ac	32.0	mm^2
Winding area	Aw	50.0	mm^2
Weight of set	W	7.0	g

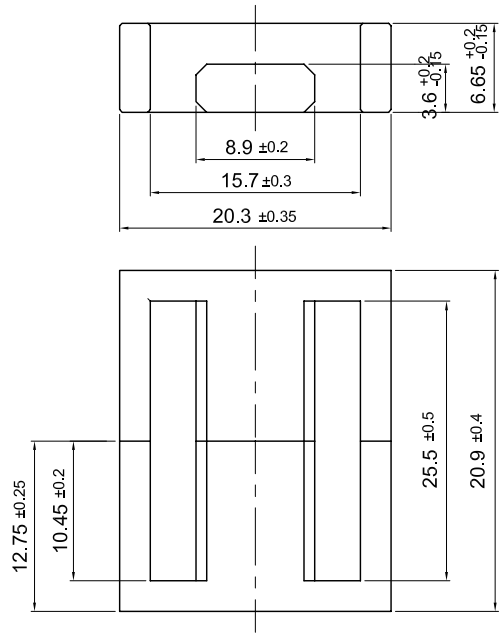


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	13	21	30	58
Flyback converter	4	7	10	19
Forward converter	7	11	15	29

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

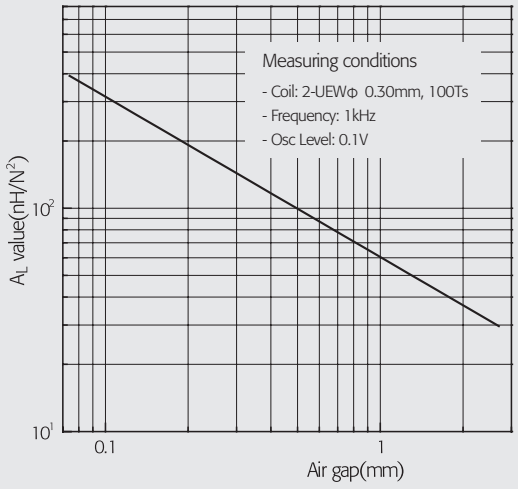
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1370 ± 25%	1660	0.00	0.87	PL-7 EFD2020S
	310 ± 10%	370	0.10		PL-7 EFD2020S AL310
	102 ± 5%	120	0.50		PL-7 EFD2020S AL102
	62 ± 3%	75	1.00		PL-7 EFD2020S AL62
PL-9	1710 ± 25%	2070	0.00	0.74 (80℃)	PL-9 EFD2020S
PL-11	1400 ± 25%	1690	0.00	0.74	PL-11 EFD2020S

EFD2025N



Parameter	Symbol	Value	Unit
Core constant	C1	1.940	mm^{-1}
Effective path length	le	59.7	mm
Effective area	Ae	30.8	mm^2
Effective volume	Ve	1840	mm^3
Center leg area	Ac	14.4	mm^2
Winding area	Aw	33.8	mm^2
Weight of set	W	9.0	g

Air gap vs. A_L value for EFD2025N (Typical)

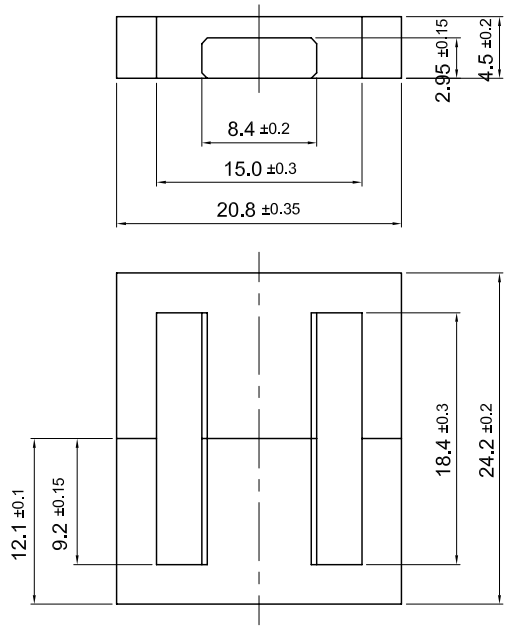


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	9	14	20	39
Flyback converter	3	5	7	13
Forward converter	4	7	10	19

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

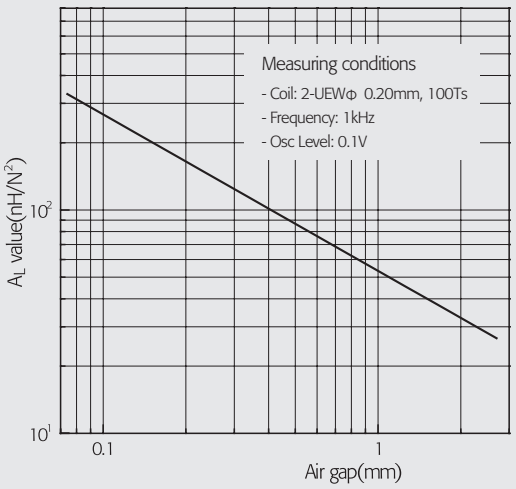
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1100 ± 25%	1700	0.00	0.92	PL-7 EFD2025N
	315 ± 10%	490	0.10		PL-7 EFD2025N AL315
	100 ± 5%	150	0.50		PL-7 EFD2025N AL100
	61 ± 3%	95	1.00		PL-7 EFD2025N AL61
PL-9	1360 ± 25%	2100	0.00	0.83 (80℃)	PL-9 EFD2025N
PL-11	1100 ± 25%	1700	0.00	0.83	PL-11 EFD2025N

EFD2124S



Parameter	Symbol	Value	Unit
Core constant	C1	2.180	mm^{-1}
Effective path length	le	52.1	mm
Effective area	Ae	23.9	mm^2
Effective volume	Ve	1245	mm^3
Center leg area	Ac	24.8	mm^2
Winding area	Aw	60.7	mm^2
Weight of set	W	6.0	g

Air gap vs. A_L value for EFD2124S (Typical)



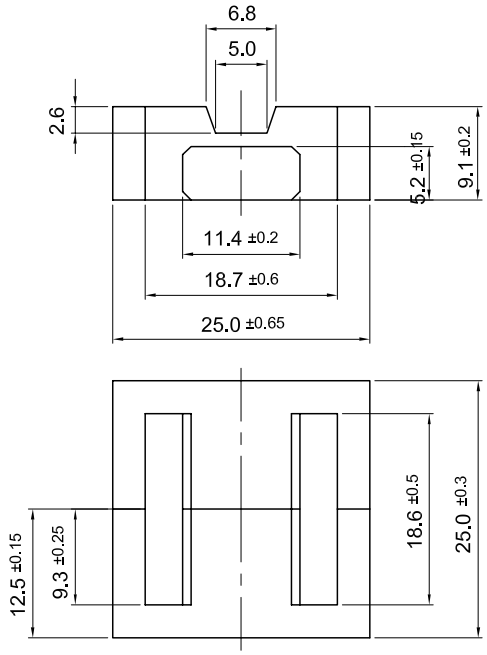
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	12	20	28	54
Flyback converter	4	7	9	18
Forward converter	6	10	14	27

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

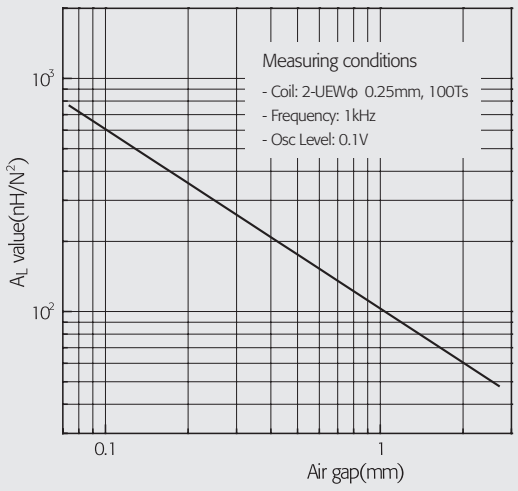
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	970 ± 25%	1680	0.00	0.70	PL-7 EFD2124S
	265 ± 10%	460	0.10		PL-7 EFD2124S AL265
	88 ± 5%	150	0.50		PL-7 EFD2124S AL88
	54 ± 3%	95	1.00		PL-7 EFD2124S AL54
PL-9	1210 ± 25%	2100	0.00	0.56 (80℃)	PL-9 EFD2124S
PL-11	1000 ± 25%	1730	0.00	0.56	PL-11 EFD2124S

EFD2525S EFD25



Parameter	Symbol	Value	Unit
Core constant	C1	0.980	mm^{-1}
Effective path length	le	57.0	mm
Effective area	Ae	58.0	mm^2
Effective volume	Ve	3300	mm^3
Center leg area	Ac	60.0	mm^2
Winding area	Aw	70.0	mm^2
Weight of set	W	14	g

Air gap vs. A_L value for EFD2525S (Typical)

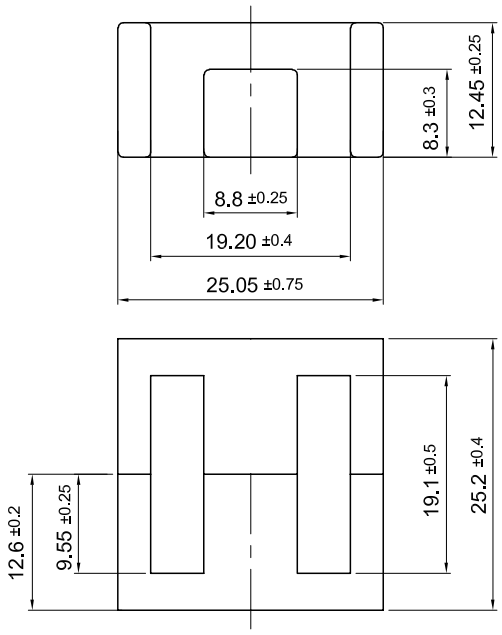


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	35	56	78	151
Flyback converter	12	19	26	50
Forward converter	17	28	39	76

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

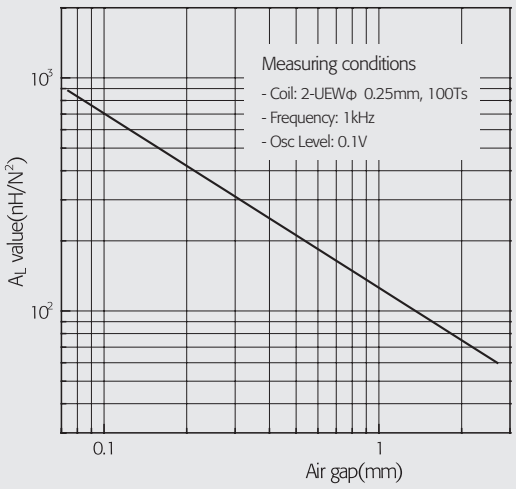
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	2250 ± 25%	1750	0.00	1.65	PL-7 EFD2525S
	610 ± 10%	480	0.10		PL-7 EFD2525S AL610
	175 ± 5%	140	0.50		PL-7 EFD2525S AL175
	102 ± 3%	80	1.00		PL-7 EFD2525S AL102
PL-9	2800 ± 25%	2180	0.00	1.50 (80℃)	PL-9 EFD2525S
PL-11	2300 ± 25%	1790	0.00	1.50	PL-11 EFD2525S

EFD2525V



Parameter	Symbol	Value	Unit
Core constant	C1	0.810	mm^{-1}
Effective path length	le	60.0	mm
Effective area	Ae	73.0	mm^2
Effective volume	Ve	4300	mm^3
Center leg area	Ac	73.0	mm^2
Winding area	Aw	91.7	mm^2
Weight of set	W	21	g

Air gap vs. A_L value for EFD2525V (Typical)



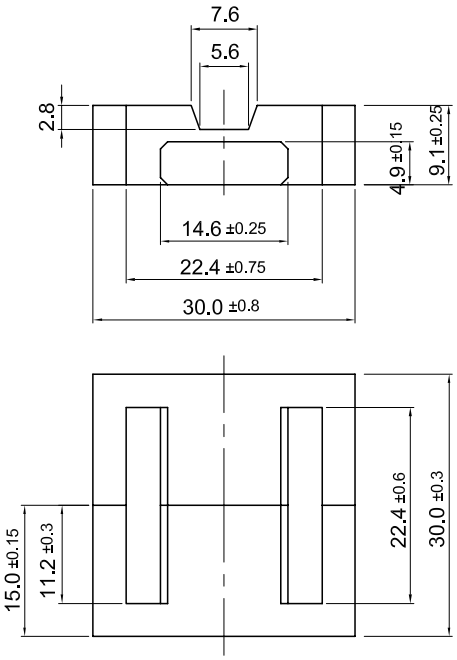
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	57	93	128	250
Flyback converter	19	31	43	83
Forward converter	29	46	64	125

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

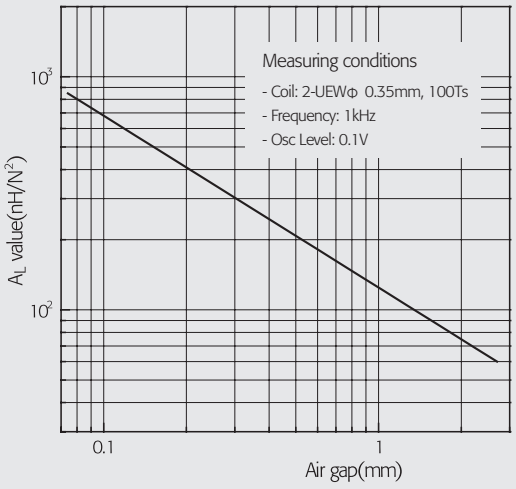
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	2700 ± 25%	1740	0.00	2.60	PL-7 EFD2525V
	700 ± 10%	450	0.10		PL-7 EFD2525V AL700
	215 ± 5%	140	0.50		PL-7 EFD2525V AL215
	125 ± 3%	80	1.00		PL-7 EFD2525V AL125
PL-9	3350 ± 25%	2160	0.00	2.25 (80℃)	PL-9 EFD2525V
PL-11	2800 ± 25%	1800	0.00	2.60	PL-11 EFD2525V

EFD3030S EFD30



Parameter	Symbol	Value	Unit
Core constant	C1	0.990	mm^{-1}
Effective path length	le	68.0	mm
Effective area	Ae	69.0	mm^2
Effective volume	Ve	4700	mm^3
Center leg area	Ac	71.0	mm^2
Winding area	Aw	87.4	mm^2
Weight of set	W	24	g

Air gap vs. A_L value for EFD3030S (Typical)

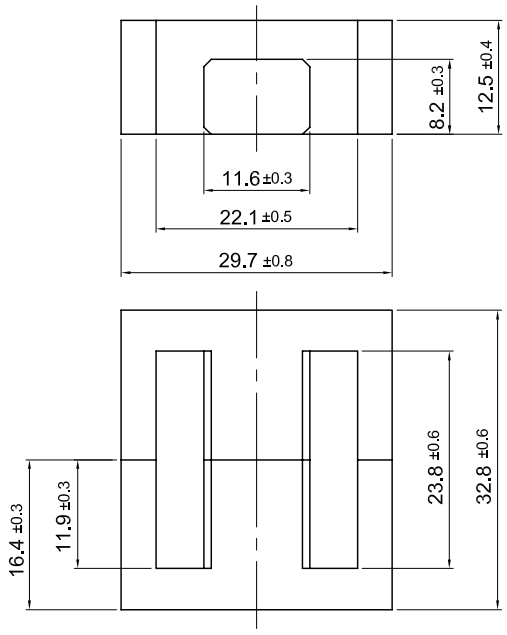


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	51	84	116	225
Flyback converter	17	28	39	75
Forward converter	26	42	58	113

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

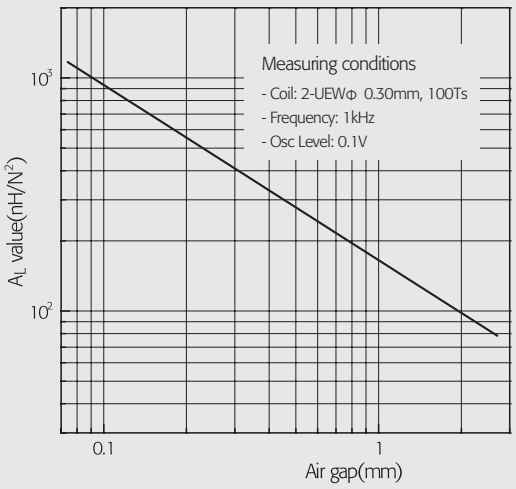
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1950 ± 25%	1540	0.00	2.60	PL-7 EFD3030S
	680 ± 10%	540	0.10		PL-7 EFD3030S AL680
	210 ± 5%	170	0.50		PL-7 EFD3030S AL210
	125 ± 3%	100	1.00		PL-7 EFD3030S AL125
PL-9	2500 ± 25%	1970	0.00	2.35 (80℃)	PL-9 EFD3030S
PL-11	2000 ± 25%	1580	0.00	2.35	PL-11 EFD3030S

EFD3033V



Parameter	Symbol	Value	Unit
Core constant	C1	0.750	mm^{-1}
Effective path length	le	73.0	mm
Effective area	Ae	97.0	mm^2
Effective volume	Ve	7100	mm^3
Center leg area	Ac	95.0	mm^2
Winding area	Aw	125.0	mm^2
Weight of set	W	35	g

Air gap vs. A_L value for EFD3033V (Typical)

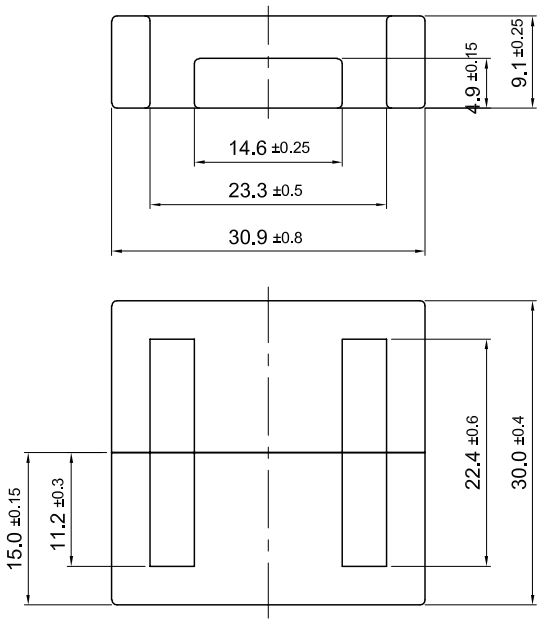


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	103	168	233	452
Flyback converter	34	56	78	151
Forward converter	52	84	116	226

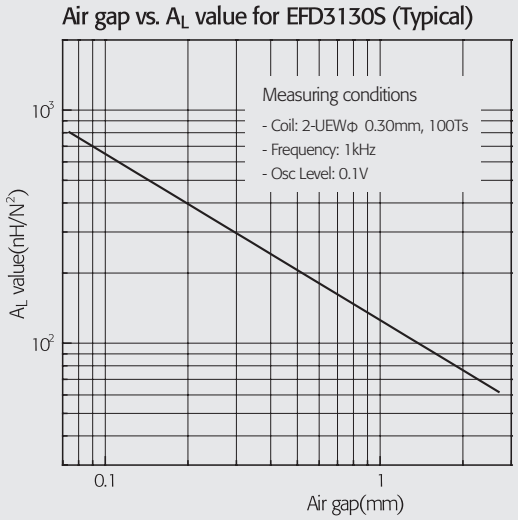
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	3020 ± 25%	1800	0.00	3.75	PL-7 EFD3033V
	940 ± 10%	560	0.10		PL-7 EFD3033V AL940
	275 ± 5%	160	0.50		PL-7 EFD3033V AL275
	160 ± 3%	100	1.00		PL-7 EFD3033V AL160
PL-9	3775 ± 25%	2250	0.00	3.50 (80℃)	PL-9 EFD3033V
PL-11	3100 ± 25%	1850	0.00	3.50	PL-11 EFD3033V

EFD3130S



Parameter	Symbol	Value	Unit
Core constant	C1	0.990	mm^{-1}
Effective path length	le	68.2	mm
Effective area	Ae	69.1	mm^2
Effective volume	Ve	4712	mm^3
Center leg area	Ac	71.5	mm^2
Winding area	Aw	97.4	mm^2
Weight of set	W	27	g

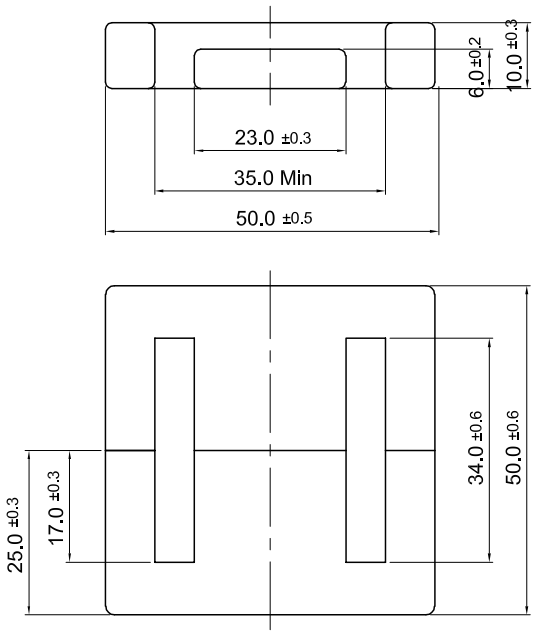


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	57	93	129	251
Flyback converter	19	31	43	84
Forward converter	29	47	65	126

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

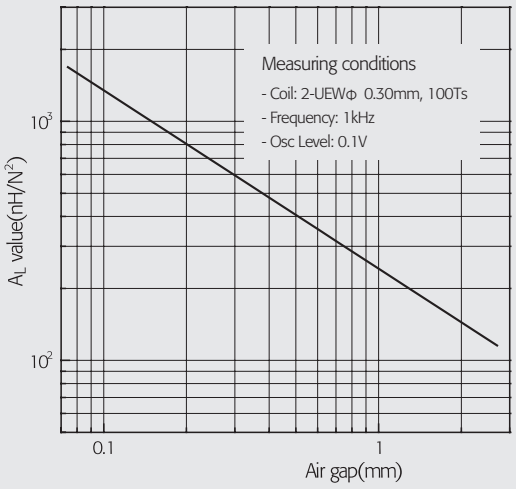
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1800 ± 25%	1420	0.00	2.60	PL-7 EFD3130S
	645 ± 10%	510	0.10		PL-7 EFD3130S AL645
	210 ± 5%	170	0.50		PL-7 EFD3130S AL210
	125 ± 3%	100	1.00		PL-7 EFD3130S AL125
PL-9	2400 ± 25%	1890	0.00	2.36 (80℃)	PL-9 EFD3130S
PL-11	1900 ± 25%	1500	0.00	2.36	PL-11 EFD3130S

EFD5050S



Parameter	Symbol	Value	Unit
Core constant	C1	0.680	mm^{-1}
Effective path length	le	103.3	mm
Effective area	Ae	151.5	mm^2
Effective volume	Ve	15463	mm^3
Center leg area	Ac	138.0	mm^2
Winding area	Aw	221.0	mm^2
Weight of set	W	90	g

Air gap vs. A_L value for EFD5050S (Typical)



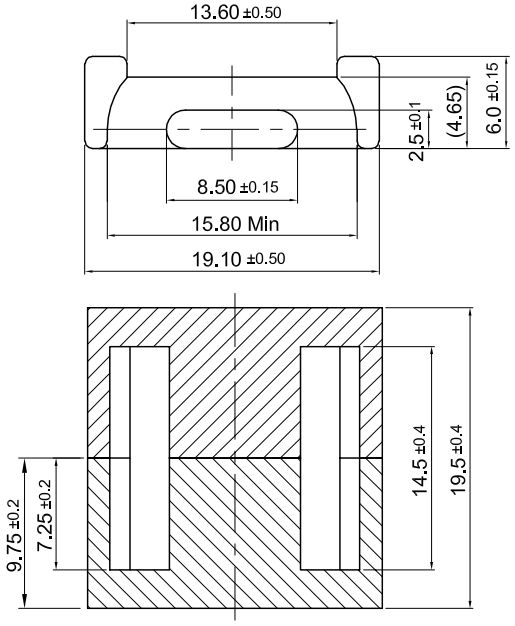
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	285	464	642	1249
Flyback converter	95	155	214	416
Forward converter	143	232	321	624

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

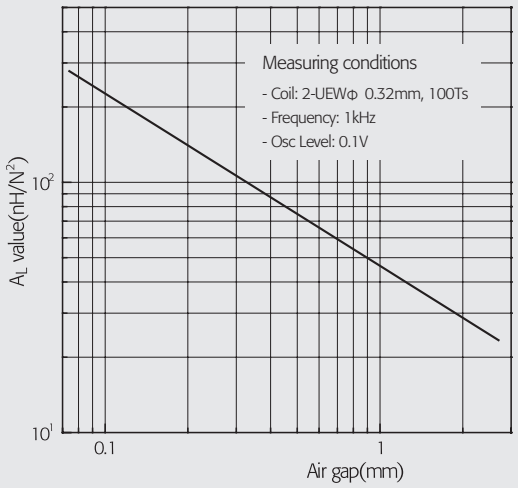
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	3100 ± 25%	1680	0.00	10.00	PL-7 EFD5050S
	1370 ± 10%	740	0.10		PL-7 EFD5050S AL1370
	395 ± 5%	210	0.50		PL-7 EFD5050S AL395
	240 ± 3%	130	1.00		PL-7 EFD5050S AL240
PL-9	3900 ± 25%	2110	0.00	8.00 (80℃)	PL-9 EFD5050S
PL-11	3200 ± 25%	1730	0.00	8.00	PL-11 EFD5050S

EPC1920S



Parameter	Symbol	Value	Unit
Core constant	C1	2.030	mm^{-1}
Effective path length	le	46.1	mm
Effective area	Ae	22.7	mm^2
Effective volume	Ve	1047	mm^3
Center leg area	Ac	20.0	mm^2
Winding area	Aw	54.4	mm^2
Weight of set	W	5.4	g

Air gap vs. A_L value for EPC1920S (Typical)

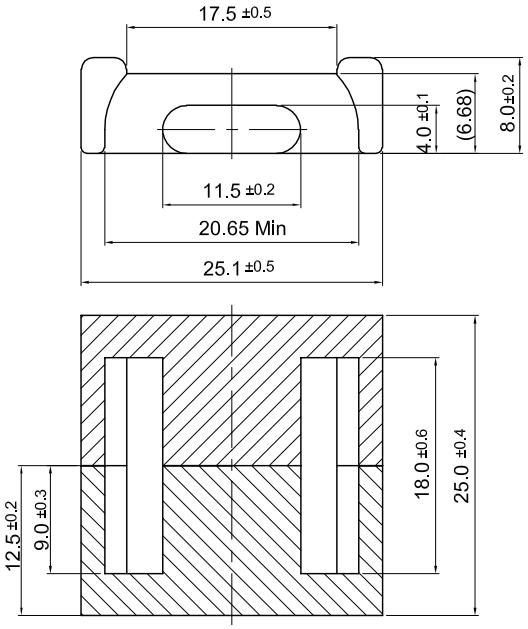


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	11	17	24	46
Flyback converter	4	6	8	15
Forward converter	5	9	12	23

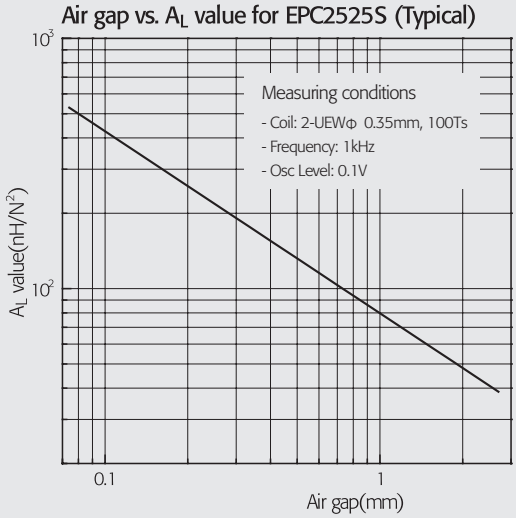
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1090 ± 25%	1760	0.00	0.63	PL-7 EPC1920S
	230 ± 10%	370	0.10		PL-7 EPC1920S AL230
	74 ± 5%	120	0.50		PL-7 EPC1920S AL74
	46 ± 3%	74	1.00		PL-7 EPC1920S AL46
PL-9	1360 ± 25%	2200	0.00	0.52 (80℃)	PL-9 EPC1920S
PL-11	1100 ± 25%	1780	0.00	0.52	PL-11 EPC1920S

EPC2525S



Parameter	Symbol	Value	Unit
Core constant	C1	1.270	mm^{-1}
Effective path length	le	59.2	mm
Effective area	Ae	46.4	mm^2
Effective volume	Ve	2747	mm^3
Center leg area	Ac	42.6	mm^2
Winding area	Aw	90.3	mm^2
Weight of set	W	13	g

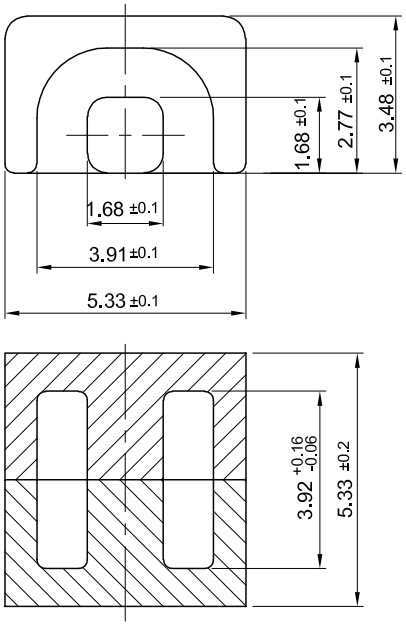


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	36	58	80	156
Flyback converter	12	19	27	52
Forward converter	18	29	40	78

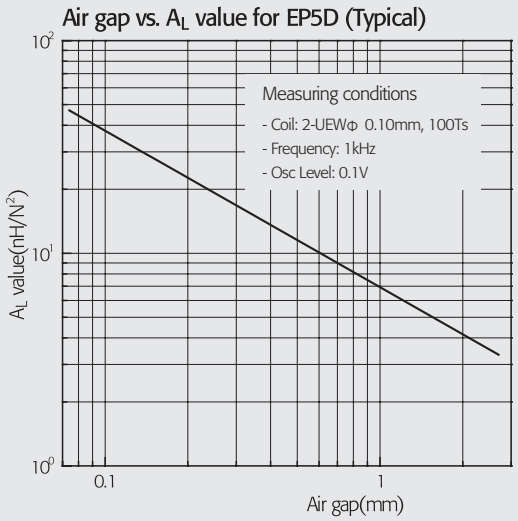
Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1600 ± 25%	1620	0.00	1.65	PL-7 EPC2525S
	420 ± 10%	420	0.10		PL-7 EPC2525S AL420
	130 ± 5%	130	0.50		PL-7 EPC2525S AL130
	80 ± 3%	80	1.00		PL-7 EPC2525S AL80
PL-9	2000 ± 25%	2020	0.00	1.37 (80℃)	PL-9 EPC2525S
PL-11	1700 ± 25%	1720	0.00	1.37	PL-11 EPC2525S

EP5D



Parameter	Symbol	Value	Unit
Core constant	C1	3.180	mm^{-1}
Effective path length	le	11.4	mm
Effective area	Ae	3.6	mm^2
Effective volume	Ve	41	mm^3
Center leg area	Ac	2.7	mm^2
Winding area	Aw	4.2	mm^2
Weight of set	W	0.4	g

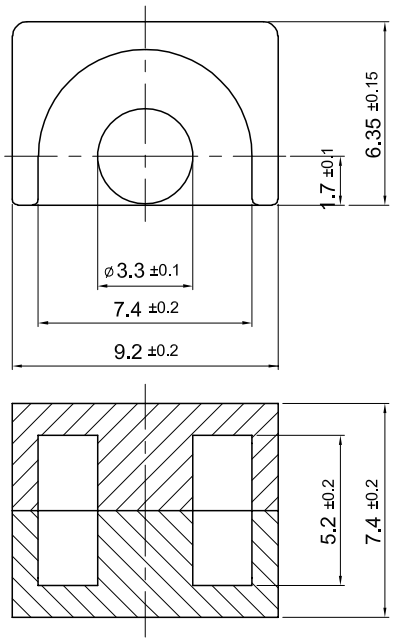


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	0.13	0.21	0.29	0.57
Flyback converter	0.04	0.07	0.10	0.19
Forward converter	0.06	0.11	0.15	0.28

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

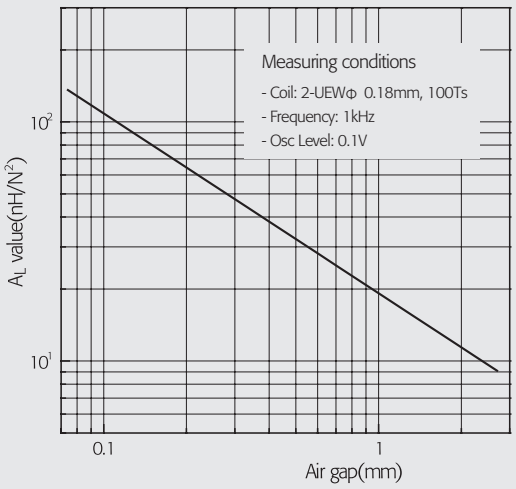
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	550 ± 25%	1390	0.00	0.02	PL-7 EP5D
	36 ± 7%	90	0.10		PL-7 EP5D AL36
	13 ± 5%	33	0.50		PL-7 EP5D AL13
	7 ± 3%	20	1.00		PL-7 EP5D AL7
PL-9	690 ± 25%	1750	0.00	0.02 (80℃)	PL-9 EP5D
PL-11	570 ± 25%	1440	0.00	0.02	PL-11 EP5D
SM-23T	540 ± 25%	1370	0.00		SM-23T EP5D
SM-43T	1000 ± 25%	2530	0.00		SM-43T EP5D
ST-30B	690 ± 25%	1750	0.00		ST-30B EP5D
SM-100	2000 ± 30%	5060	0.00		SM-100 EP5D

EP7



Parameter	Symbol	Value	Unit
Core constant	C1	1.520	mm^{-1}
Effective path length	le	15.7	mm
Effective area	Ae	10.3	mm^2
Effective volume	Ve	162	mm^3
Center leg area	Ac	8.5	mm^2
Winding area	Aw	11.0	mm^2
Weight of set	W	1.4	g

Air gap vs. A_L value for EP7 (Typical)



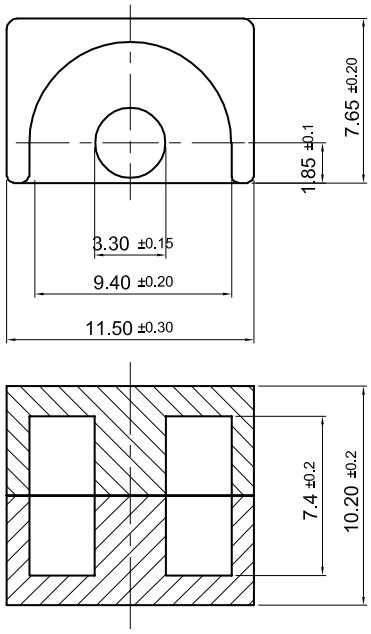
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	1	1.6	2	4
Flyback converter	0.3	0.5	0.7	1.4
Forward converter	0.5	0.8	1	2

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

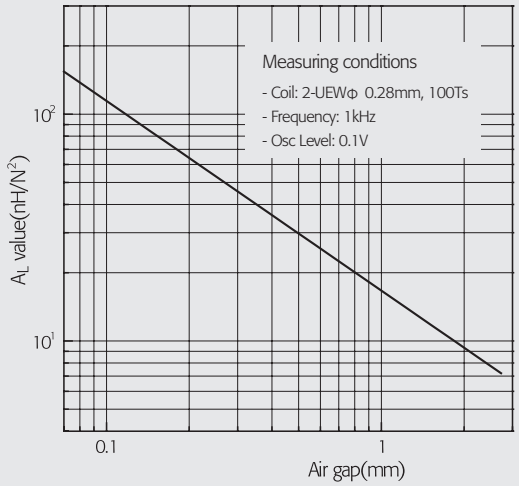
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1100 ± 25%	1330	0.00	0.09	PL-7 EP7
	107 ± 7%	130	0.10		PL-7 EP7 AL107
	33 ± 5%	40	0.50		PL-7 EP7 AL33
	20 ± 3%	20	1.00		PL-7 EP7 AL20
PL-9	1660 ± 25%	2010	0.00	0.07 (80℃)	PL-9 EP7
PL-11	1100 ± 25%	1330	0.00	0.07	PL-11 EP7
SM-23T	1100 ± 25%	1330	0.00		SM-23T EP7
SM-43T	2300 ± 25%	2780	0.00		SM-43T EP7
ST-30B	1530 ± 25%	1850	0.00		ST-30B EP7
SM-100	5200 ± 30%	6290	0.00		SM-100 EP7

EP10



Parameter	Symbol	Value	Unit
Core constant	C1	1.700	mm^{-1}
Effective path length	le	19.2	mm
Effective area	Ae	11.3	mm^2
Effective volume	Ve	217	mm^3
Center leg area	Ac	8.5	mm^2
Winding area	Aw	23.0	mm^2
Weight of set	W	2.8	g

Air gap vs. A_L value for EP10 (Typical)

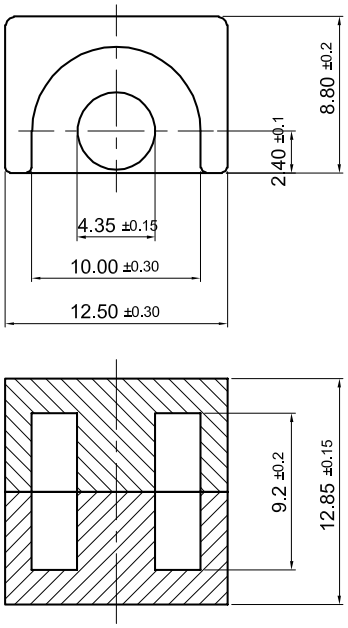


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	2	4	5	10
Flyback converter	1	1	2	3
Forward converter	1	2	2	5

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

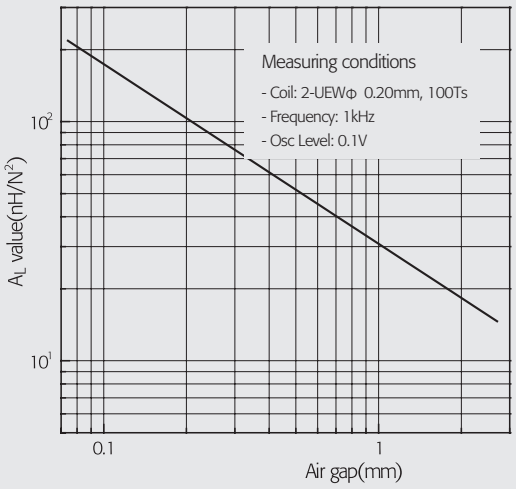
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1100 ± 25%	1490	0.00	0.11	PL-7 EP10
	120 ± 7%	160	0.10		PL-7 EP10 AL120
	30 ± 5%	40	0.50		PL-7 EP10 AL30
	16 ± 3%	22	1.00		PL-7 EP10 AL16
PL-9	1530 ± 25%	2070	0.00	0.10 (80℃)	PL-9 EP10
PL-11	1100 ± 25%	1490	0.00	0.10	PL-11 EP10
SM-23T	1100 ± 25%	1490	0.00		SM-23T EP10
SM-43T	2200 ± 25%	2980	0.00		SM-43T EP10
ST-30B	1530 ± 25%	2070	0.00		ST-30B EP10
SM-100	4800 ± 30%	6490	0.00		SM-100 EP10

EP13



Parameter	Symbol	Value	Unit
Core constant	C1	1.240	mm^{-1}
Effective path length	le	24.2	mm
Effective area	Ae	19.5	mm^2
Effective volume	Ve	472	mm^3
Center leg area	Ac	14.9	mm^2
Winding area	Aw	26.0	mm^2
Weight of set	W	5.1	g

Air gap vs. A_L value for EP13 (Typical)



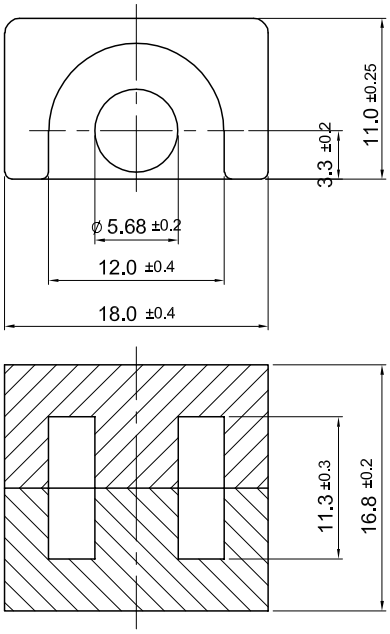
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	4	7	10	19
Flyback converter	1	2	3	6
Forward converter	2	4	5	9

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

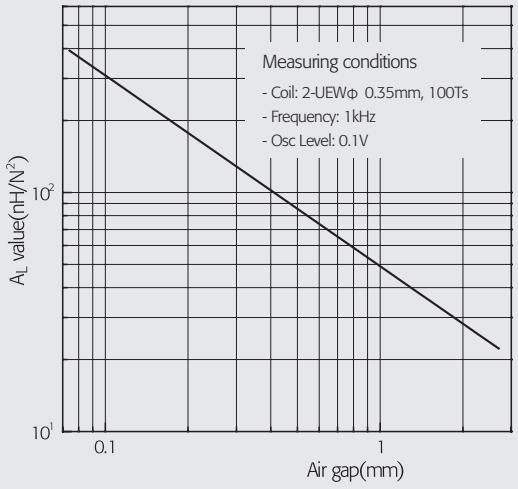
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	1600 ± 25%	1580	0.00	0.24	PL-7 EP13
	177 ± 7%	175	0.10		PL-7 EP13 AL177
	53 ± 5%	50	0.50		PL-7 EP13 AL53
	31 ± 3%	30	1.00		PL-7 EP13 AL31
PL-9	2100 ± 25%	2070	0.00	0.21 (80℃)	PL-9 EP13
PL-11	1700 ± 25%	1680	0.00	0.21	PL-11 EP13
SM-23T	1400 ± 25%	1380	0.00		SM-23T EP13
SM-43T	3000 ± 25%	2960	0.00		SM-43T EP13
ST-30B	2100 ± 25%	2070	0.00		ST-30B EP13
SM-100	7000 ± 30%	6910	0.00		SM-100 EP13

EP17



Parameter	Symbol	Value	Unit
Core constant	C1	0.840	mm^{-1}
Effective path length	le	28.5	mm
Effective area	Ae	33.9	mm^2
Effective volume	Ve	966	mm^3
Center leg area	Ac	25.3	mm^2
Winding area	Aw	36.0	mm^2
Weight of set	W	12	g

Air gap vs. A_L value for EP17 (Typical)



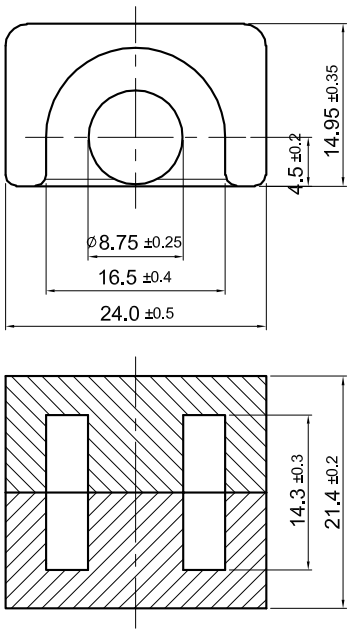
Calculated Output Power (Unit : W)

Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	10	17	23	46
Flyback converter	3	6	8	15
Forward converter	5	8	12	23

Note : 1) Core loss is assumed to be approx. $0.1W/cm^3$.
2) Temperature rise should be considered for design before choosing the final core size.

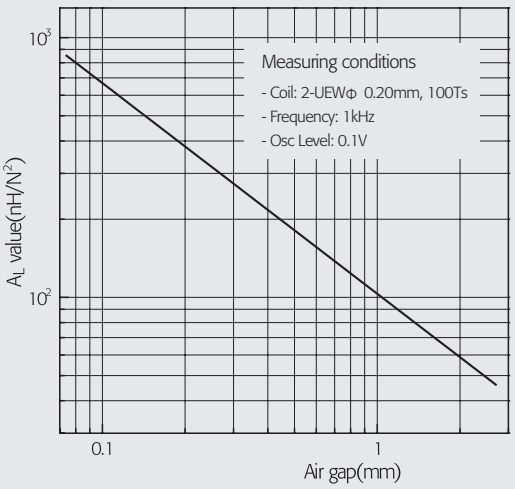
Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	2400 ± 25%	1600	0.00	0.49	PL-7 EP17
	310 ± 7%	210	0.10		PL-7 EP17 AL310
	84 ± 5%	55	0.50		PL-7 EP17 AL84
	49 ± 3%	33	1.00		PL-7 EP17 AL49
PL-9	3000 ± 25%	2000	0.00	0.43 (80℃)	PL-9 EP17
PL-11	2500 ± 25%	1670	0.00	0.43	PL-11 EP17
SM-23T	2400 ± 25%	1600	0.00		SM-23T EP17
SM-43T	4500 ± 25%	3010	0.00		SM-43T EP17
ST-30B	3340 ± 25%	2230	0.00		ST-30B EP17
SM-100	10800 ± 30%	7220	0.00		SM-100 EP17

EP20



Parameter	Symbol	Value	Unit
Core constant	C1	0.510	mm^{-1}
Effective path length	le	39.8	mm
Effective area	Ae	78.0	mm^2
Effective volume	Ve	3120	mm^3
Center leg area	Ac	60.1	mm^2
Winding area	Aw	55.0	mm^2
Weight of set	W	28	g

Air gap vs. A_L value for EP20 (Typical)

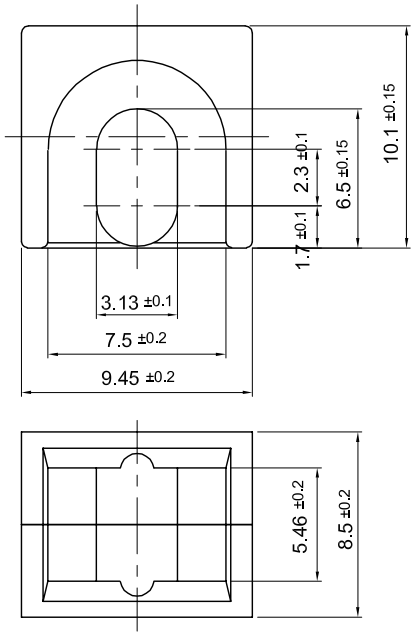


Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	37	59	82	160
Flyback converter	12	20	27	53
Forward converter	18	30	41	80

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

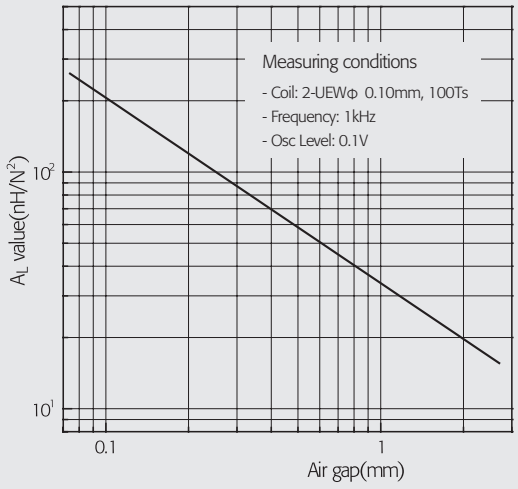
Material	A_L-value (nH/N²)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	4000 ± 25%	1620	0.00	1.56	PL-7 EP20
	680 ± 7%	280	0.10		PL-7 EP20 AL680
	180 ± 5%	70	0.50		PL-7 EP20 AL180
	103 ± 3%	42	1.00		PL-7 EP20 AL103
PL-9	5020 ± 25%	2040	0.00	1.40 (80℃)	PL-9 EP20
PL-11	4200 ± 25%	1700	0.00	1.40	PL-11 EP20
SM-23T	3500 ± 25%	1420	0.00		SM-23T EP20
SM-43T	6900 ± 25%	2800	0.00		SM-43T EP20
ST-30B	4870 ± 25%	1980	0.00		ST-30B EP20
SM-100	18700 ± 30%	7590	0.00		SM-100 EP20

EOP9.5



Parameter	Symbol	Value	Unit
Core constant	C1	0.820	mm^{-1}
Effective path length	le	19.5	mm
Effective area	Ae	23.8	mm^2
Effective volume	Ve	464	mm^3
Center leg area	Ac	18.2	mm^2
Winding area	Aw	18.5	mm^2
Weight of set	W	2.8	g

Air gap vs. A_L value for EOP9.5 (Typical)



Calculated Output Power				(Unit : W)
Circuit type	Switching Frequency			
	20kHz	50kHz	100kHz	250kHz
Push-pull converter	4	6	8	16
Flyback converter	1	2	3	5
Forward converter	2	3	4	8

Note : 1) Core loss is assumed to be approx. 0.1W/cm^3.
2) Temperature rise should be considered for design before choosing the final core size.

Material	A_L-value (nH/N^2)	μe	Air gap (mm)	Core loss (W max.) 100kHz, 200mT, 100℃	Ordering code
PL-7	2400 ± 25%	1570	0.00	0.26	PL-7 EOP9.5
	200 ± 7%	130	0.10		PL-7 EOP9.5 AL200
	60 ± 5%	40	0.50		PL-7 EOP9.5 AL60
	35 ± 3%	20	1.00		PL-7 EOP9.5 AL35
PL-9	3100 ± 25%	2020	0.00	0.23 (80℃)	PL-9 EOP9.5
PL-11	2500 ± 25%	1630	0.00	0.23	PL-11 EOP9.5
SM-23T	2300 ± 25%	1500	0.00		SM-23T EOP9.5
SM-43T	3600 ± 25%	2350	0.00		SM-43T EOP9.5
ST-30B	2800 ± 25%	1830	0.00		ST-30B EOP9.5
SM-100	7500 ± 30%	4890	0.00		SM-100 EOP9.5