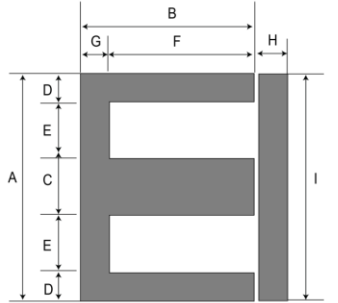
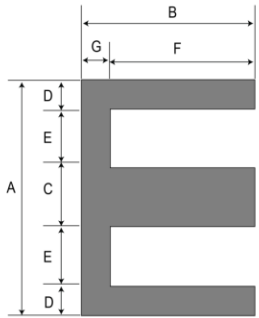


Nickel Lamination

■ Dimension Table ■ Drawing

Unit: mm

PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
EI	14	14.00	8.75	3.50	1.75	3.50	7.00	1.75	1.75	14.00			0.20 / 0.35	PB / PC	 EI
EI	16	16.00	12.00	4.00	2.00	4.00	10.00	2.00	2.00	16.00			0.20 / 0.35	PB / PC	
EI	19	19.00	12.50	4.75	2.375	4.75	10.00	2.50	2.50	19.00			0.20 / 0.35	PB / PC	
EI	186	19.08	8.75	4.77	2.385	4.77	6.35	2.40	2.40	19.08			0.20 / 0.35	PB / PC	
EI	187	19.08	13.51	4.77	2.385	4.77	11.11	2.40	2.40	19.08			0.20 / 0.35	PB / PC	
EI	24	24.00	15.00	6.00	3.00	6.00	12.00	3.00	3.00	24.00			0.20 / 0.35	PB / PC	
EI	25.4	25.40	16.10	6.40	3.10	6.40	13.10	3.00	3.00	25.40			0.20 / 0.35	PB / PC	
EI	28	28.00	21.50	7.00	3.50	7.00	18.00	3.50	3.50	28.00			0.20 / 0.35	PB / PC	
EI	30	30.00	20.00	10.00	5.00	5.00	15.00	5.00	5.00	30.00			0.20 / 0.35	PB / PC	
EI	35	35.00	24.50	9.60	5.00	7.70	19.50	5.00	5.00	35.00			0.20 / 0.35	PB / PC	
EI	41	41.00	27.00	13.00	6.00	8.00	21.00	6.00	6.00	41.00			0.20 / 0.35	PB / PC	
EI	48	48.00	32.00	16.00	8.00	8.00	24.00	8.00	8.00	48.00			0.20 / 0.35	PB / PC	
EI	66	66.00	44.00	22.00	11.00	11.00	33.00	11.00	11.00	66.00			0.20 / 0.35	PB / PC	
PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
EL	7.72 (EL 100)	7.72	9.90	2.54	1.32	1.27	8.48	1.42					0.15 / 0.20	PB / PC	 E
EL	7.94	7.94	9.90	2.54	1.32	1.38	8.48	1.42					0.15 / 0.20	PB / PC	
EL	12.7	12.72	11.11	3.18	1.59	3.18	9.53	1.58					0.20 / 0.35	PB / PC	
EL	14	14.00	10.50	3.50	1.75	3.50	8.75	1.75					0.20 / 0.35	PB / PC	
EL	16	16.00	14.00	4.00	2.00	4.00	12.00	2.00					0.15 / 0.20 / 0.35	PB / PC	
EL	16(LOSS)	16.00	16.00	4.80	2.40	3.20	13.60	2.40					0.15 / 0.20 / 0.35	PB / PC	
EL	19	19.00	15.00	4.75	2.375	4.75	12.50	2.50					0.15 / 0.20 / 0.35	PB / PC	
EL	19(LOSS)	19.00	18.00	4.90	2.40	4.65	14.00	4.00					0.15 / 0.20 / 0.35	PB / PC	
EL	186	19.04	11.13	4.76	2.38	4.76	8.73	2.40					0.20 / 0.35	PB / PC	
EL	187	19.08	15.90	4.77	2.385	4.77	13.50	2.40					0.20 / 0.35	PB / PC	
EL	20	20.00	20.00	6.00	3.00	4.00	17.00	3.00					0.20 / 0.35	PB / PC	
EL	24	24.00	18.00	6.00	3.00	6.00	15.00	3.00					0.20 / 0.35	PB / PC	
EL	24-25	25.40	19.05	6.35	3.175	6.35	15.875	3.175					0.20 / 0.35	PB / PC	
E	186	19.05	9.70	4.77	2.38	4.76	7.30	2.40					0.20 / 0.35	PB / PC	
E	25.4	25.40	12.70	6.35	3.175	6.35	9.525	3.175					0.20 / 0.35	PB / PC	
PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	
ED	8(8X11)	8.00	11.00	2.40	1.20	1.60	8.30	2.70					0.15 / 0.20	PB / PC	
ED	8(8X14)	8.00	14.00	2.40	1.20	1.60	11.30	2.70					0.15 / 0.20	PB / PC	
ED	12.6	12.60	17.00	3.80	1.90	2.50	12.90	4.10					0.20 / 0.35	PB / PC	
ED	20	20.00	26.00	6.00	3.00	4.00	20.00	6.00					0.20 / 0.35	PB / PC	



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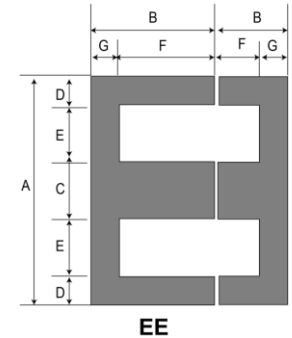
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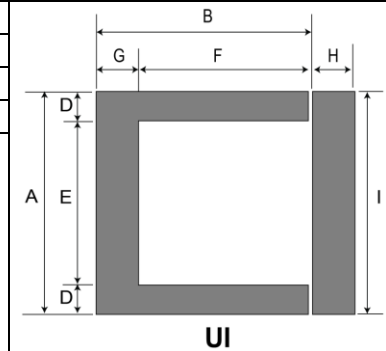
■ Dimension Table ■ Drawing

Unit: mm

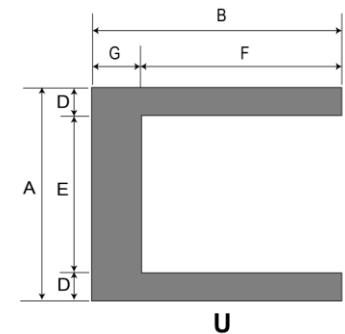
PATTERNS	A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE
EE 20 A	20.00	14.00	6.00	3.00	4.00	11.00	3.00					0.20 / 0.35	PB / PC
EE 20 B	20.00	6.00	6.00	3.00	4.00	3.00	3.00					0.20 / 0.35	PB / PC
EE 21.4	21.40	11.10	5.80	2.85	4.95	8.10	3.00					0.20 / 0.35	PB / PC
EE 21.4 GAP	21.40	11.10	5.80	2.85	4.95	8.10	3.00			0.04		0.20 / 0.35	PB / PC
EE 24-25 A	25.40	12.70	6.35	3.175	6.35	9.525	3.175					0.20 / 0.35	PB / PC
EE 24-25 B	25.40	6.35	6.35	3.175	6.35	3.175	3.175					0.20 / 0.35	PB / PC
EE 24-25 A GAP	25.40	12.70	6.35	3.175	6.35	9.525	3.175			0.04		0.20 / 0.35	PB / PC
EE 24-25 B GAP	25.40	6.35	6.35	3.175	6.35	3.175	3.175			0.04		0.20 / 0.35	PB / PC
EE 52	52.00	14.75	13.64	6.82	12.36	7.93	6.82					0.20 / 0.35	PB / PC



PATTERNS	A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE
UI 12.7	12.70	12.70		3.175	6.35	9.525	3.175	3.175	12.70			0.20 / 0.35	PB / PC
UI 19	19.00	12.50		2.50	14.00	10.00	2.50	2.50	19.00			0.20 / 0.35	PB / PC
UI 24	24.00	15.00		3.00	18.00	12.00	3.00	3.00	24.00			0.20 / 0.35	PB / PC
UI 30	30.00	25.00		10.00	10.00	15.00	10.00	10.00	30.00		2.50	0.20 / 0.35	PB / PC



PATTERNS	A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE
U 8.58	8.58	26.42		2.03	4.52	22.35	4.07						
U 18	18.00	47.92		5.00	8.00	37.92	10.00					0.20 / 0.35	PB / PC
U 18.34	18.34	42.00		3.17	12.00	37.70	4.30					0.20 / 0.35	PB / PC



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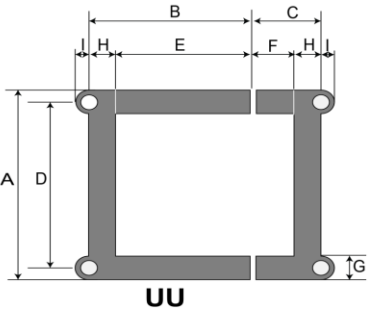
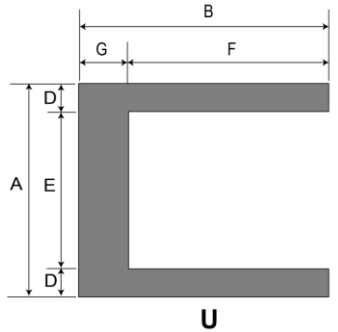
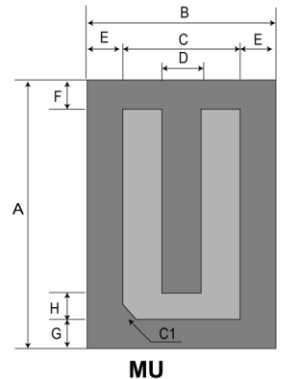
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Nickel Lamination

■ Dimension Table ■ Drawing

Unit: mm

PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
UU	2	44.00	26.00	8.50	40.00	22.00	4.50	4.00	4.00	2.00			0.20 / 0.35	PB / PC	
UU	4	75.20	48.00	21.20	69.60	42.20	15.60	5.60	5.60	2.80			0.20 / 0.35	PB / PC	
UU	6	111.20	72.20	27.60	104.00	65.00	20.40	7.20	7.20	3.60			0.20 / 0.35	PB / PC	
PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
DU	18	15.88	34.93		4.76	6.36	25.40	9.53					0.20 / 0.35	PB / PC	
DU	2023	19.05	30.17		4.7625	9.530	20.64	9.53					0.20 / 0.35	PB / PC	
PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
MU	36	36.00	13.20	9.10	3.00	2.05	3.00	2.00	3.30				0.20 / 0.35	PB / PC	
MU	39	39.00	13.20	9.10	3.00	2.05	3.00	2.00	3.30				0.20 / 0.35	PB / PC	



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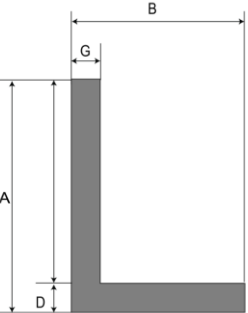
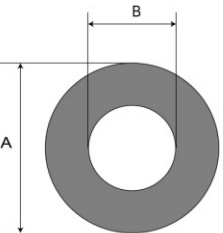
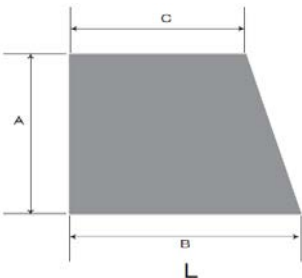
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Nickel Lamination

■ Dimension Table ■ Drawing

Unit: mm

PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
L	28	28.00	17.875		3.00			3.13					0.20 / 0.35	PB / PC	 L
L	132	132.00	144.00		12.00			12.00					0.20 / 0.35	PB / PC	
PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	Drawing
ZCT	Ø 10.3	10.30	7.70										0.35	PC	 ZCT
ZCT	Ø 12.2	12.20	8.80										0.35	PC	
ZCT	Ø 13.35	13.35	9.85										0.35	PC	
															 L
PATTERNS		A	B	C	D	E	F	G	H	I	GAP	ØK	T	GRADE	
L	28	60.00	40.00	32.50									0.10	PC	

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TOROIDALES

Magnetic Specification

Out side Diameter(mm)	Width(mm)	Idustrial Uses
90 – 2100	5 – 305	High and Medium Voltage Transformer
5 – 120	2 – 15	Low and Medium voltage Transformer

Permalloy Strip Materials

Material	Thickness (mm)
Permalloy with 78 – 80% Nickel	0.05
	0.07
	0.10
	0.15
	0.20
	0.20
	0.35
permalloy with 45 – 50% Nickel	0.35

AC Magnetic Specification

Permeability	PC NI(80%) 0.07T	PC NI(80%) 0.1T	PC NI(80%) 0.15T	PC NI(80%)
Test Frequency (Hz)	60			
40 Gauss (4mT)	90,000 Min.	80,000 Min.	55,000 Min.	55,000 Min.
200 Gauss (20mT)	110,000 Min.	95,000 Min.	75,000 Min.	75,000 Min.
2,000 Gauss(0.2T)	200,000 Min.	160,000 Min.	115,000 Min.	115,000 Min.
0.4 A/m	100,000 Min.	100,000 Min.	60,000 Min.	60,000 Min.

DC Magnetic Specification

Material Type	Thickness (mm)	DC Magnetic Characteristics			
		Initial Permeability(μ_i) At 0.4A/m	Maximum Permeability(μ_{max})	Coercive Force(A/m)	Maximum Flux Density(B10)
PC (Ni 78 – 80%)	0.07	100,000 Min.	300,000Min.	1.0Max.	0.69 T Min.
	0.1	100,000 Min.	300,000Min.	1.0Max.	0.69 T Min.
	0.2	200,000 Min.	400,000Min.	1.0Max.	0.69 T Min.
	0.35	200,000 Min.	400,000Min.	1.0Max.	0.69 T Min.
	0.35	200,000 Min.	400,000Min.	1.0Max.	0.69 T Min.
PB (Ni 47 – 49%)	0.35	10,000 Min.	100,000Min.	4.8Max.	1.45 Min.



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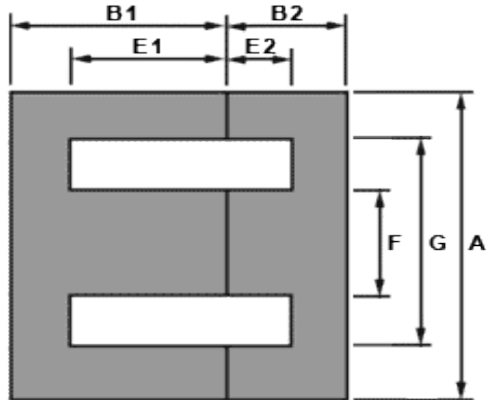
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EK STACKS

This type of laminated magnetic core is a stack of sheet metal, maintained by bonding allowing a compact core to be achieved for quick and economic assembly

a	b1	b2	b3	e1	e2	e3	f	g	hp			
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	0.1	0.2	0.35
EK 12.6	12.6	8.6	4	12.6	6.7	2.1	8.8	3.8	8.8	3.8	3.8	-
EK 16	16	11	5	16	8.6	2.6	11.2	4.8	11.2	4.8	4.8	-
EK 20	20	14	6	20	11	3	14	6	14	6	6	6
EK 25	25	17	8	25	13.2	4.2	17.4	7.6	17.4	7.6	7.6	7.6
EK 25L	25	17	17	34	13.2	13.2	26.4	7.6	17.4	7.6	7.6	7.6
EK 32	32	22	10	32	17.2	5.2	22.4	9.6	22.4	9.6	9.6	9.6
EK 32L	32	22	22	44	17.2	17.2	34.4	9.6	22.4	9.6	9.6	9.6
EK 40	40	28	12	40	22	6	28	12	28	12	12	12
EK 40L	40	28	28	56	22	22	44	12	28	12	12	



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