CSC POWDER CORE

- Material-

Ⅰ. Soft Magnetic Powder Core

Ⅱ. Material Introduction

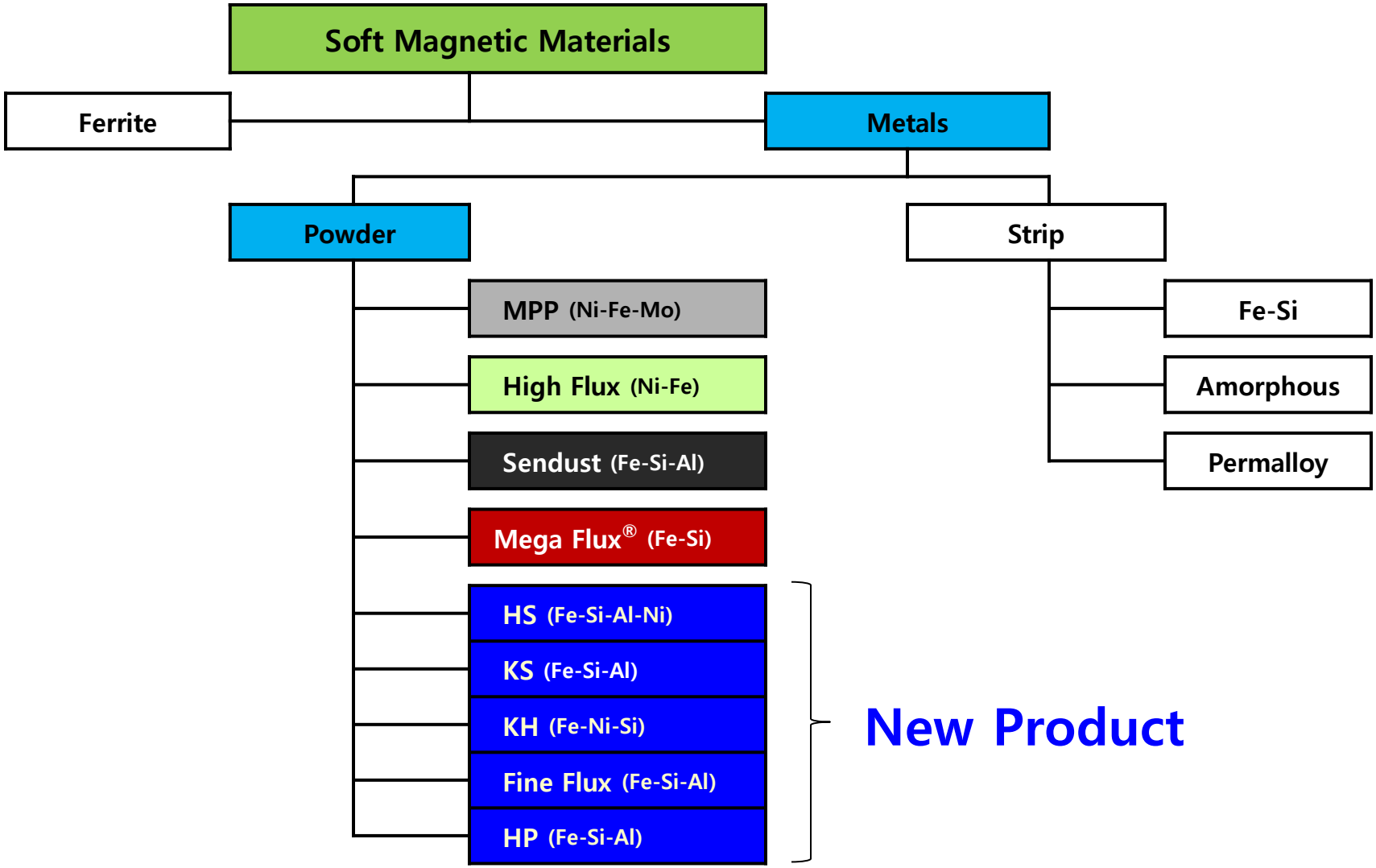
Ⅲ. Special Shape Powder Core

Ⅳ. Special Shape Core Part List

Ⅴ. Q & A

Chang Sung Corporation CSC

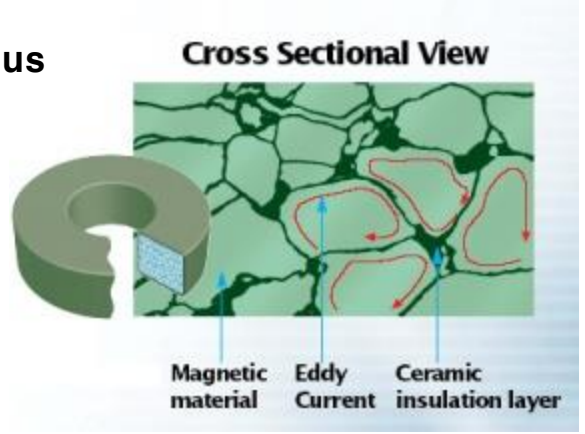
1. Soft Magnetic Materials



2. What is Powder Core ?

Powder Cores are distributed air gap cores made from ferrous alloy powders for low losses at elevated frequencies.

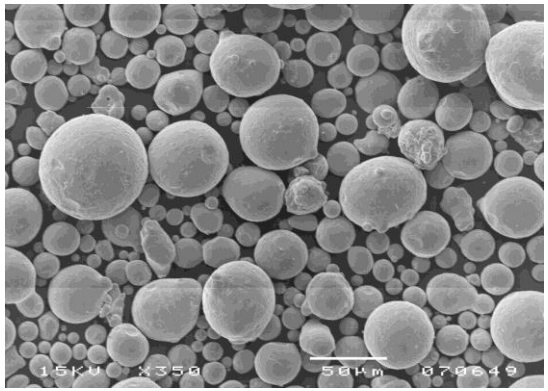
Small air gaps distributed evenly throughout the cores increase the amount of DC that can be passed through the winding before core saturation occurs.



3. Manufacturing process

Powder Making → Ceramic Insulation → Pressing → Core Annealing → Core Finish → Inspection

Material	Composition
High Flux : CH	Ni + Fe Alloy
Sendust : CS	Fe + Si + Al Alloy
Mega Flux® : CK	Fe + Si Alloy
MPP : CM	Ni + Fe + Mo Alloy
HS : HS	Fe + Si + Al + (Ni) Alloy
KS : KS	Fe + Si + Al Alloy
KH : KH	Fe + Ni + Si Alloy
Fine Flux : CF	Fe + Si + Al Alloy
HP : HP	Fe + Si + Al Alloy



◆ Material Comparison Table

★ → ◎ → ○ → △

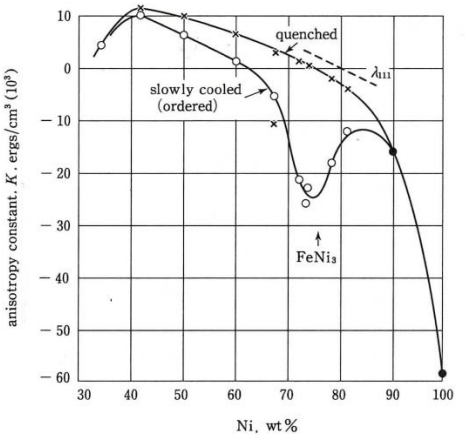
Materials	CSC New Materials					CSC Traditional Materials			
	HS	KS	KH	Fine Flux (CF)	HP	High Flux (CH)	MegaFlux® (CK)	Sendust (CS)	MPP (CM)
Main Application	UPS, Server Power, Automotive	Solar, Ups	UPS, Server Power	UPS, Solar	Server Power	Server Power, AutoMotive	Solar, UPS, Automotive	PC Power, Solar	Military, Aerospace, Medical
Perm. (μ_l)	19-90	26-40	26-90	19-60	60	26-160	19-90	26-125	26-200
Bs (kG)	14	14	15	12	12	15	16	10	7
Curie Temp [℃]	500	500	600	500	500	500	700	500	450
Core Loss	★	○	○	◎	★★	★	△	◎	★
DC Bias	◎	◎	★	○	○	★	★	△	○
Temp. Stability	◎	○	◎	△	△	★	◎	△	★
Relative Cost	○	◎	○	◎	○	○	◎	★	△

◆ Material Comparison Table

Materials	CSC New Materials										CSC Traditional Materials							
	HS		KS		KH		Fine Flux		HP		High Flux		Mega Flux®		Sendust		MPP	
Composition	60~90μ : Fe-Ni27%-Si3.8%-Al2.2%		Fe-Si6%-Al1.65%		Fe-Ni22.5%-Si2.25%		Fe-Si8.5%-Al4.4%		Fe-Si9.5%-Al5.5%		Fe-Ni45%		Fe-Si4.5%		Fe-Si9.5%-Al5.5%		Ni80%-Mo2%-Fe	
Mixing Ratio	19,26μ -HPS 100% 60~90μ-HF : HPS =6 : 4		MF : SD = 7 : 3		HF : MF = 5 : 5		HPS : MF = 8 : 2		HPS 100%									
Main Application	19, 26μ : UPS 60~90μ : Server Power, Automotive		Solar UPS		UPS Automotive		UPS, Solar		Server Power		Server Power Automotive		Solar UPS Automotive		PC Power Solar, UPS		Military Aerospace Medical	
Major Advantage	19,26μ :Lowest Loss Low Cost vs HF		Low Cost High DCB vs SD Low Loss vs MF		Low Loss vs MF Low Cost vs HF		Low Cost, Loss Hifg DCB vs SD		Lowest Loss		Highest DCB with Low Loss		Highest DCB with Low Cost		Lowest Cost		Low Loss Wide Perm	
Perm. (μ_l)	19, 26, 60, 75, 90		26,40,60		26,40,60,90		26,40,60		60		26,60,125, 147,160		19,26,40,50,60, 75,90		26,40,60,75,90, 125		26,60,125,147, 160,173,200	
Bs (kG)	14		14		15		12		12		15		16		10		7	
Curie Temp [℃]	500		500		600		500		500		500		700		500		450	
Perm. (μ_l)	26μ	60μ	26μ	60μ	26μ	60μ	26μ	60μ	60μ		26μ	60μ	26μ	60μ	26μ	60μ	26μ	60μ
Core Loss @50kHz, 1000Gauss	136	206	565	478	469	432	270	270	110		228	180	660	590	264	260	205	170
DC Bias 26μ:200Oe 60μ:100Oe	72%	72%	70%	61%	83%	81%	74%	59%	53%		82%	83%	82%	78%	52%	50%	60%	58%
Price($)/kg	17.4	16.6	6.5	6.5	16.8	16	8	8	19		20.5	19.5	7	7	6	5.5	29.5	28

(1) General Information

Composition	Fe-50%Ni
Available Permeability(μ)	26, 60, 125, 147, 160
Coating Color	Khaki
B max(Gauss)	15,000
Curie Temp[℃]	500
Available Shape	Toroidal, Block, EER, EQ, U
CH270060→	CSC High Flux OD=27mm Perm=60μ

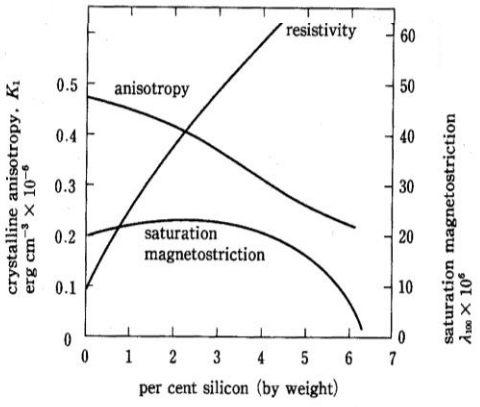


(2) Feature

Advantage	Disadvantage
High DCB ← High Saturation	Medium Cost ← 50% Ni
Low Core Losses	
Wide Perm. Range	
Good Temp. Stability	

(1) General Information

Composition	Fe-6.5%Si
Available Permeability(μ)	19, 26, 50, 60, 75, 90
Coating Color	Dark Brown
B max(G)	16,000
Curie Temp[℃]	700
Available Shape	Toroidal, E, Block, EER, EQ U,
CK270060→	CSC Mega Flux OD=27mm Perm=60μ



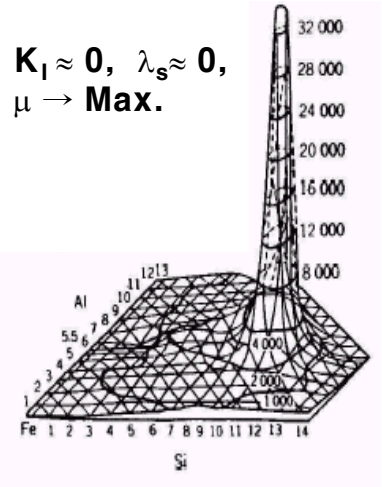
(2) Feature

Advantage	Disadvantage
Moderate Cost	Higher Core Losses than SENDUST
High DCB	
Low Magnetostriction	
Good Temp. Stability	

(1) General Information

Composition	Fe-9%Si-6%Al
Available Permeability(μ)	26, 60, 75, 90, 125
Coating Color	Black
B max(G)	10,000
Curie Temp[℃]	500
Available Shape	Toroidal, E, Block, U,
CS270060→	CSC SENDUST OD=27mm Perm=60μ

$K_1 \approx 0$, $\lambda_s \approx 0$,
$\mu \rightarrow$ Max.

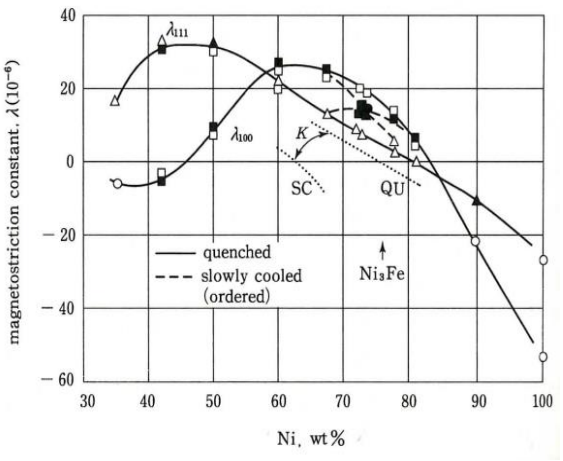


(2) Feature

Advantage	Disadvantage
Moderate Cost	Low DCB than High Flux
Nearly Zero Magnetostriction	Low Temp. Stability than MPP, High Flux
Low Core Losses	
Good Frequency Stability	

(1) General Information

Composition	80%Ni-18%Fe-2%Mo
Available Permeability(μ)	26, 60, 125, 147, 160, 173, 200
Coating Color	Gray
B max(G)	7,000
Curie Temp[℃]	450
Available Shape	Toroidal (Other Shapes Possible)
CM270060→	CSC MPP OD=27mm Perm=60μ



(2) Feature

Advantage	Disadvantage
Low Core Losses	High Cost ← Ni 80%
Wide Perm. Range	Low DCB than High Flux
Good DCB than SENDUST	
Good Temp. Stability	

(1) General Information

HS Series

Permeability(μ)	19, 26, 60, 75, 90
Coating Color	Dark blue
Bmax(G)	14,000
Curie Temp[℃]	500
Operating temp[℃]	-40 to 150
OD BF [mm]	9.6~165



(2) Features

- Low Core Loss : 19, 26μ - Lowest Core Loss among Powder Core
- High DCB than Sendust, MPP Materials
- Low Cost than High Flux Material

(3) Identification

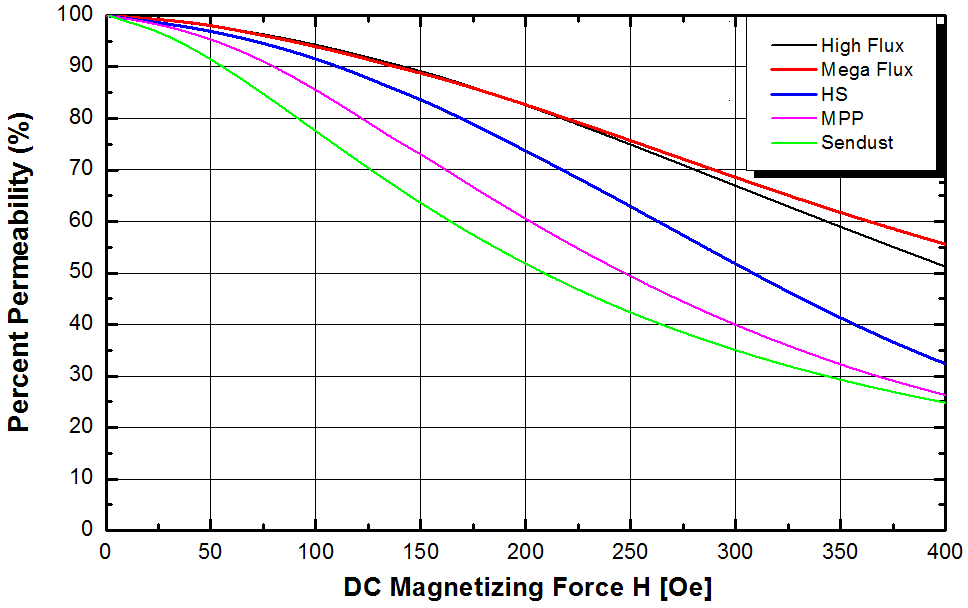
HS 270 060

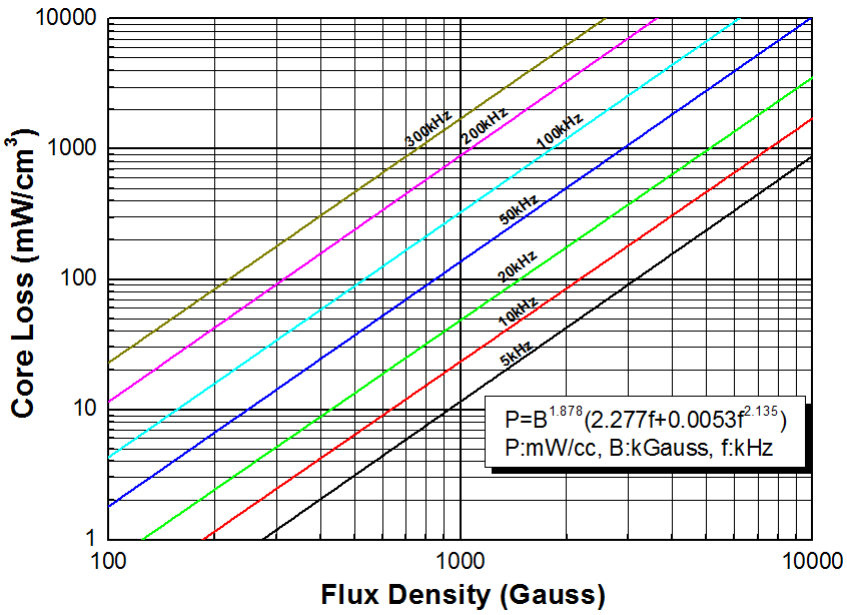
- 060 : Permeability : 19μ, 26μ, 60μ, 75μ, 90μ
- 270 : OD Size : 27.0mm Available Size : 9.6 ~ 165mm
- HS : HS Core

(1) Material Comparison

Material	26 μ DCB%			19, 26 μ Core Loss	
	@200 Oe	@300 Oe	@400 Oe	@50kHz, 500G	@50kHz,1,000G
High Flux	82%	66%	51%	48	228
Mega Flux	82%	67%	55%	147	660
HS Core	72%	51%	32%	37	136
MPP	60%	40%	26%	38	170
SENDUST	52%	35%	24%	64	264

(2) Graph

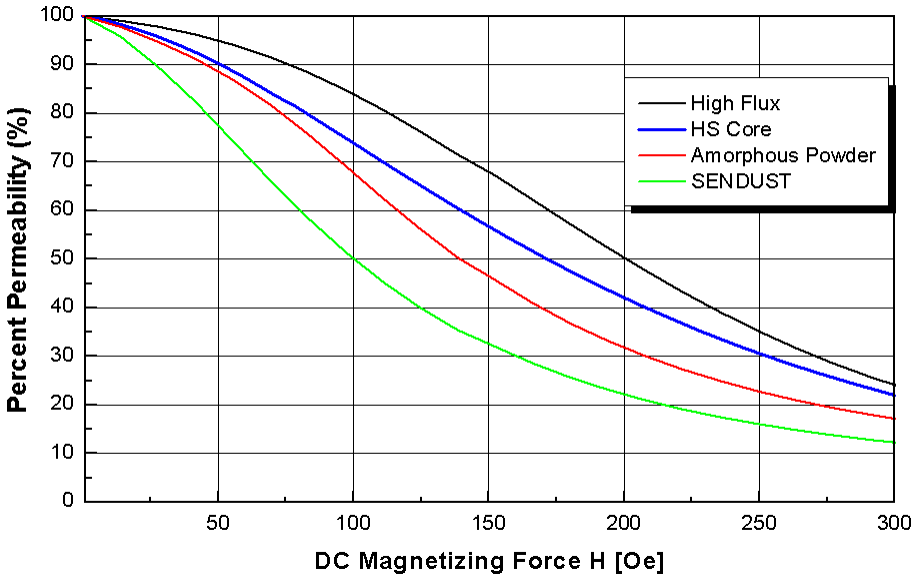


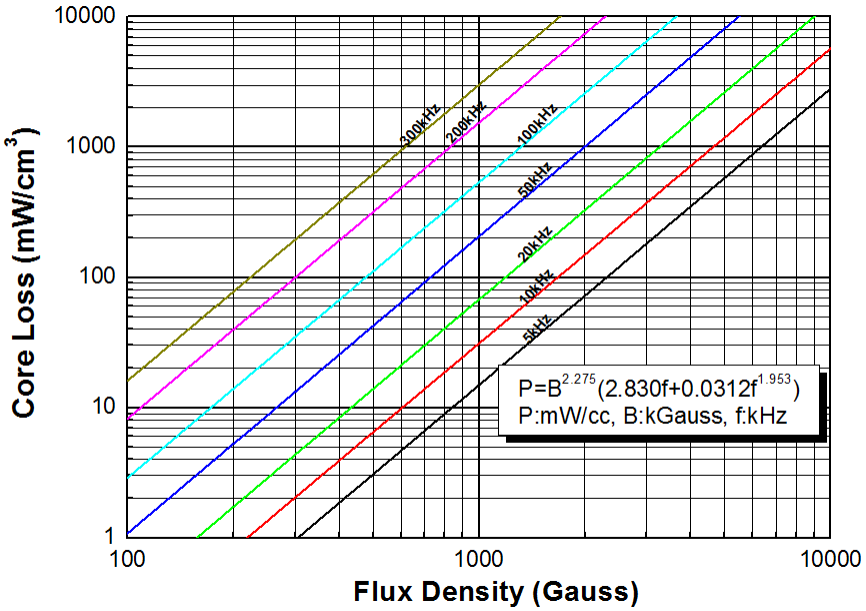


(1) Material Comparison

Material	60 μ DCB%			60 μ Core Loss	
	@100 Oe	@150 Oe	@200 Oe	@50kHz, 500G	@50kHz,1,000G
High Flux	83%	68%	50%	37	180
HS Core	71%	52%	37%	43	206
SENDUST	50%	32%	22%	61	279

(2) Graph





(1) General Information

KS Series

Permeability(μ)	26, 40, 60
Coating Color	Dark blue
Bmax(G)	14,000
Curie Temp[℃]	500
Operating temp[℃]	-40 to 150
OD BF [mm]	9.6~165



(2) Features

- Low Core Loss than Mega Flux Materials
- High DCB than Sendust, MPP Materials
- Cost Effective Material

(3) Identification

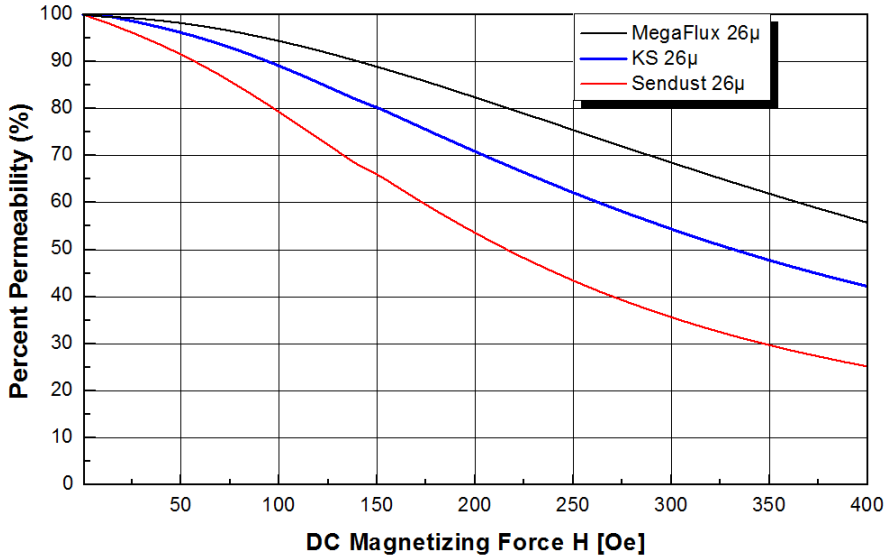
KS 270 060

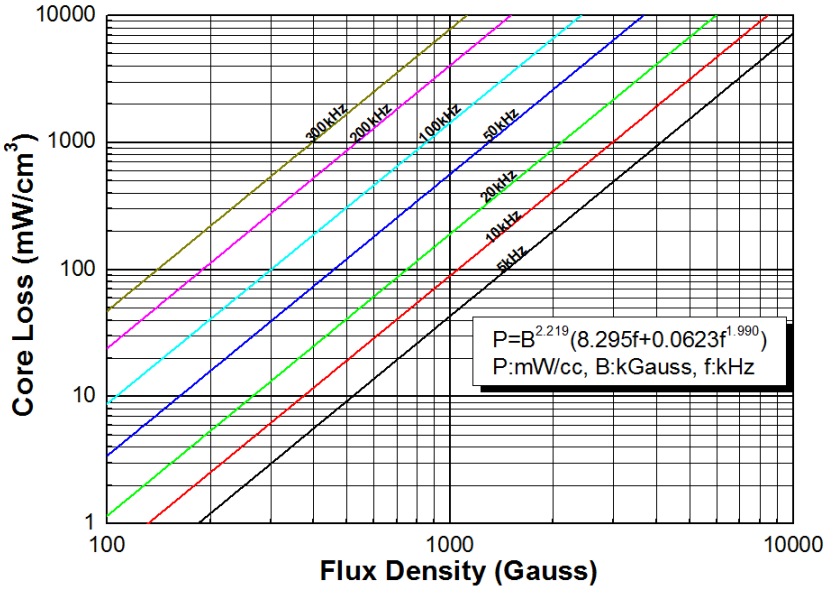
- 060 : Permeability : 26μ, 40μ, 60μ
- 270 : OD Size : 27.0mm Available Size : 9.6 ~ 165mm
- KS : KS Core

(1) Material Comparison

Material	26μ DCB%			26μ Core Loss	
	@200 Oe	@300 Oe	@400 Oe	@20kHz,1000G	@50kHz,500G
Mega Flux	82%	68%	56%	223	147
KS Core	70%	54%	42%	190	121
SENDUST	53%	35%	25%	93	64

(2) Graph

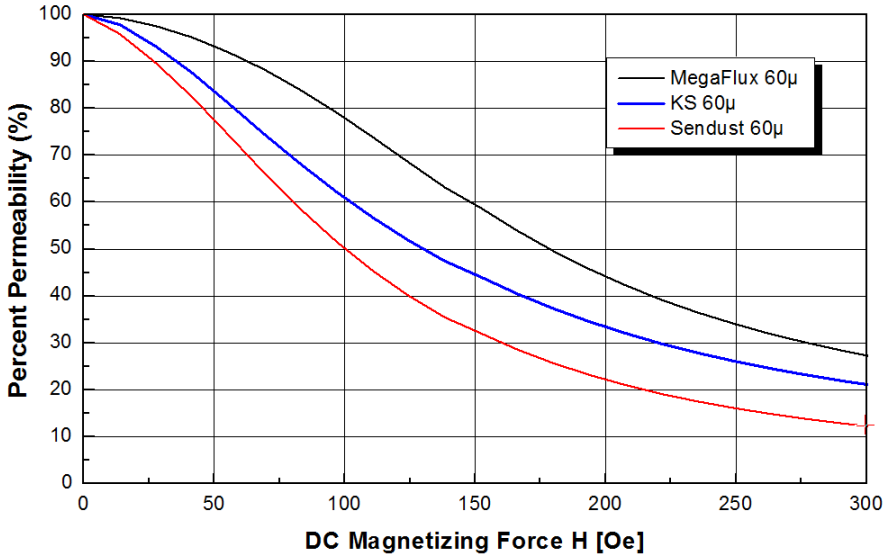


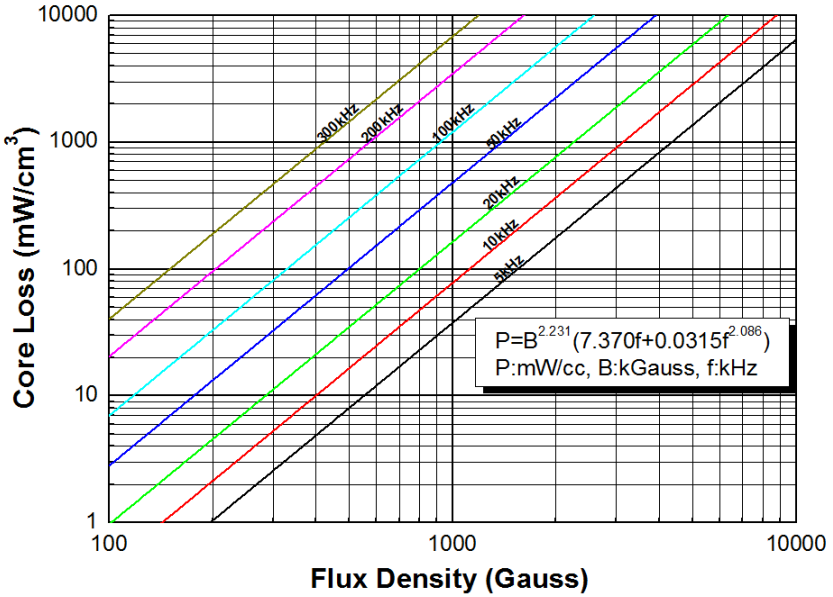


(1) Material Comparison

Material	60μ DCB%			60μ Core Loss	
	@100 Oe	@150 Oe	@200 Oe	@20kHz,1000G	@50kHz,500G
Mega Flux	78%	59%	44%	201	132
KS Core	61%	44%	33%	163	102
SENDUST	50%	32%	22%	99	60

(2) Graph





(1) General Information

KH Series

Permeability(μ)	26, 40, 60, 90
Coating Color	Dark blue
Bmax(G)	15,000
Curie Temp[℃]	600
Operating temp[℃]	-40 to 150
OD BF [mm]	9.6~165



(2) Features

- Low Core Loss than Mega Flux Material
- Same DCB with High Flux, Mega Flux Materials
- Low Cost than High Flux Material

(3) Identification

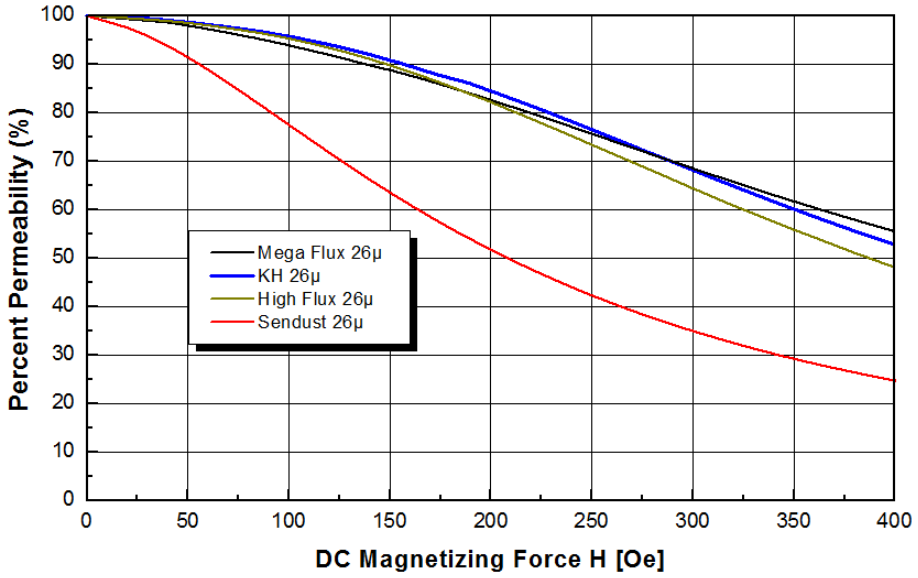
KH 270 060

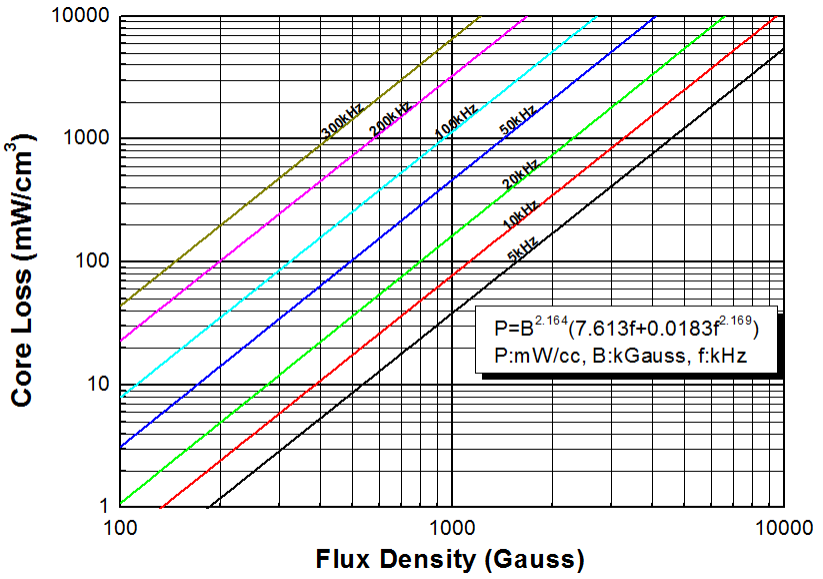
- 060 : Permeability : 26μ, 40μ, 60μ, 90μ
- 270 : OD Size : 27.0mm Available Size : 9.6 ~ 165mm
- KH : KH Core

(1) Material Comparison

Material	26μ DCB%			26μ Core Loss	
	@200 Oe	@300 Oe	@400 Oe	@20kHz,1000G	@50kHz,1,000G
KH Core	83%	68%	53%	164	469
Mega Flux	82%	68%	56%	223	661
High Flux	82%	64%	48%	84	229
Sendust	53%	35%	25%	93	264

(2) Graph

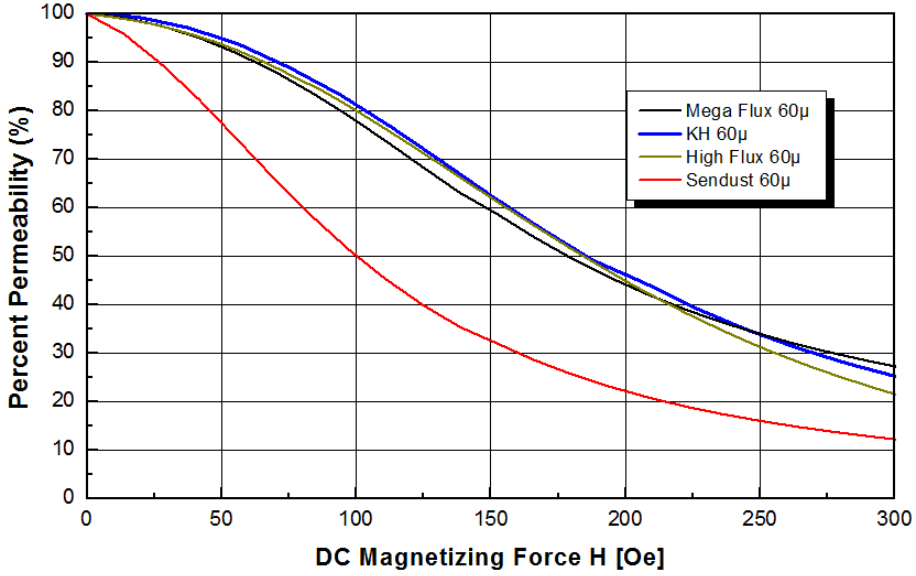


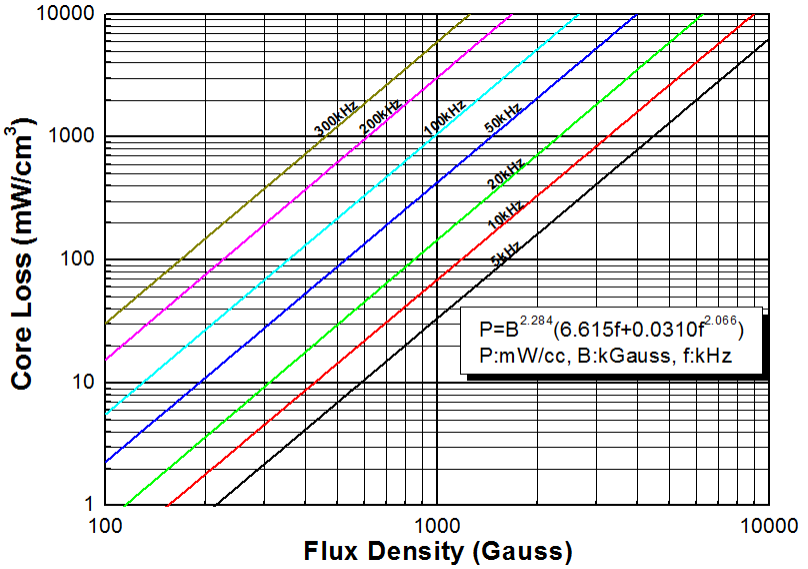


(1) Material Comparison

Material	60μ DCB%			60μ Core Loss	
	@100 Oe	@150 Oe	@200 Oe	@20kHz,1000G	@50kHz,1,000G
KH Core	81%	62%	46%	147	431
Mega Flux	78%	59%	44%	201	590
High Flux	80%	62%	45%	84	180
SENDUST	50%	32%	22%	99	279

(2) Graph





(1) General Information

CF Series	
Permeability(μ)	26, 40, 60
Coating Color	Dark blue
Bmax(G)	11,000
Curie Temp[℃]	500
Operating temp[℃]	-40 to 150
OD BF [mm]	9.6~132



(2) Identification

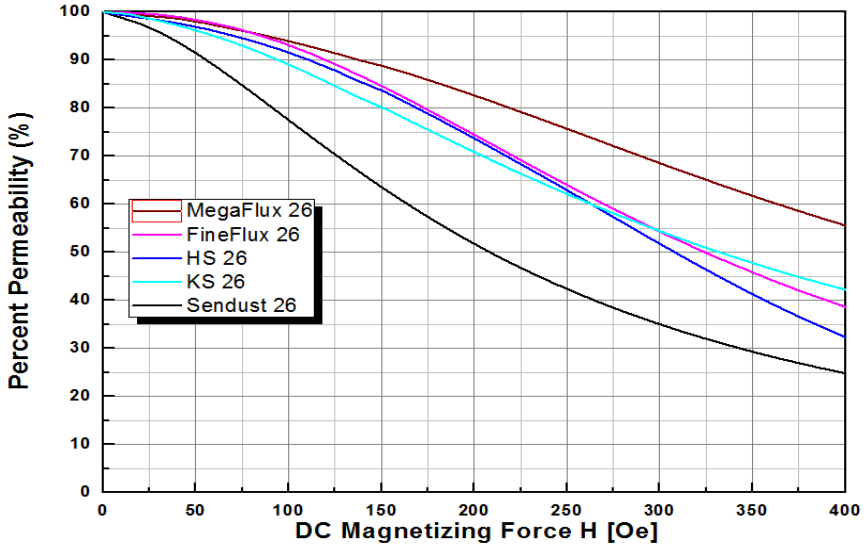
CF 270 060

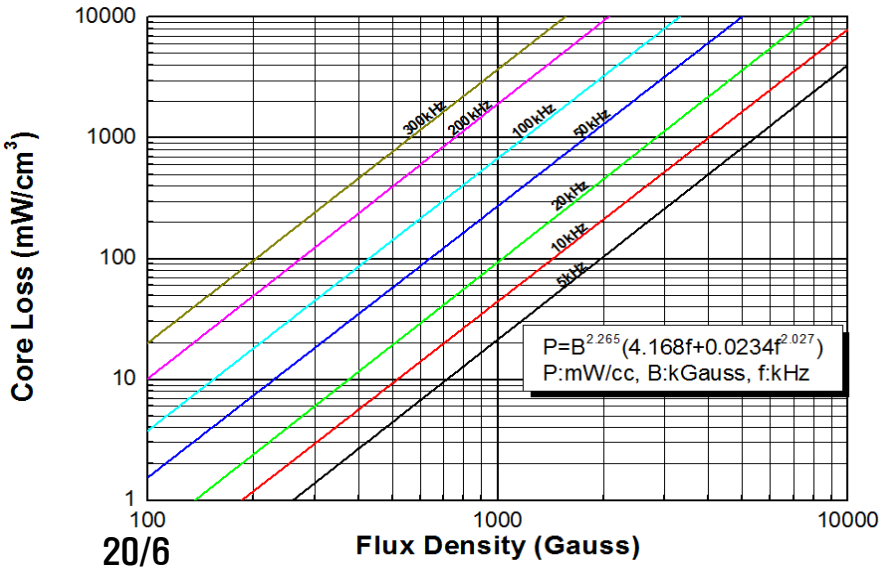
- 060 : Permeability : 26μ, 40μ, 60μ
- 270 : OD Size : 27.0mm Available Size : 9.6 ~ 132mm
- CF : CF Core

(1) Material Comparison

Material	26μ DCB%			26μ Core Loss	
	@200 Oe	@300 Oe	@400 Oe	@20kHz,1000G	@50kHz,1,000G
Fine Flux	74%	54%	38%	93	273
Mega Flux	82%	68%	56%	223	661
HS Core	72%	51%	32%	49	136
KS	71%	55%	42%	190	564
Sendust	53%	35%	25%	93	264

(2) Graph



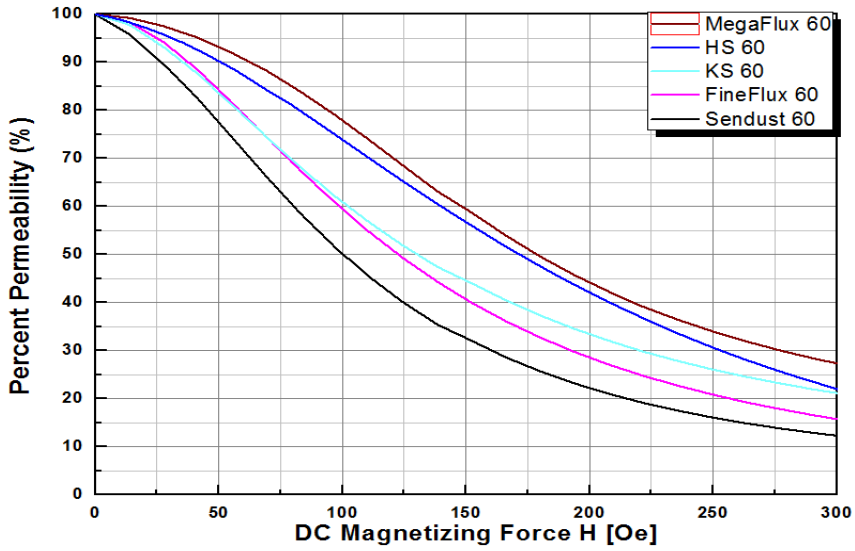


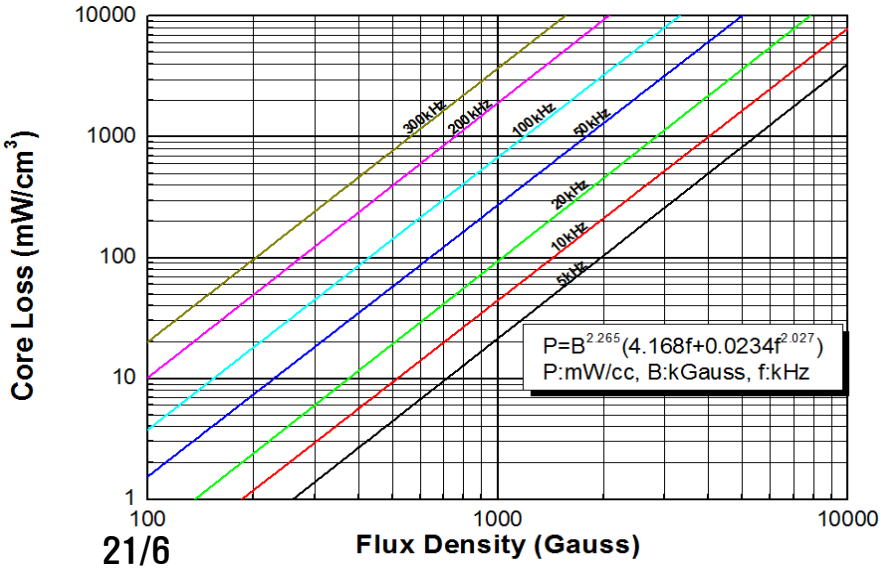
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(1) Material Comparison

Material	60μ DCB%			60μ Core Loss	
	@100 Oe	@150 Oe	@200 Oe	@20kHz,1000G	@50kHz,1,000G
Fine Flux	59%	41%	28%	93	273
Mega Flux	78%	59%	44%	201	590
HS Core	71%	52%	37%	67	206
KS	61%	45%	34%	164	480
SENDUST	50%	32%	22%	99	279

(2) Graph





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(1) General Information

HP Series	
Permeability(μ)	60
Coating Color	Dark blue
Bmax(G)	12,000
Curie Temp[℃]	500
Operating temp[℃]	-40 to 150
OD BF [mm]	16.6~37.8



(2) Identification

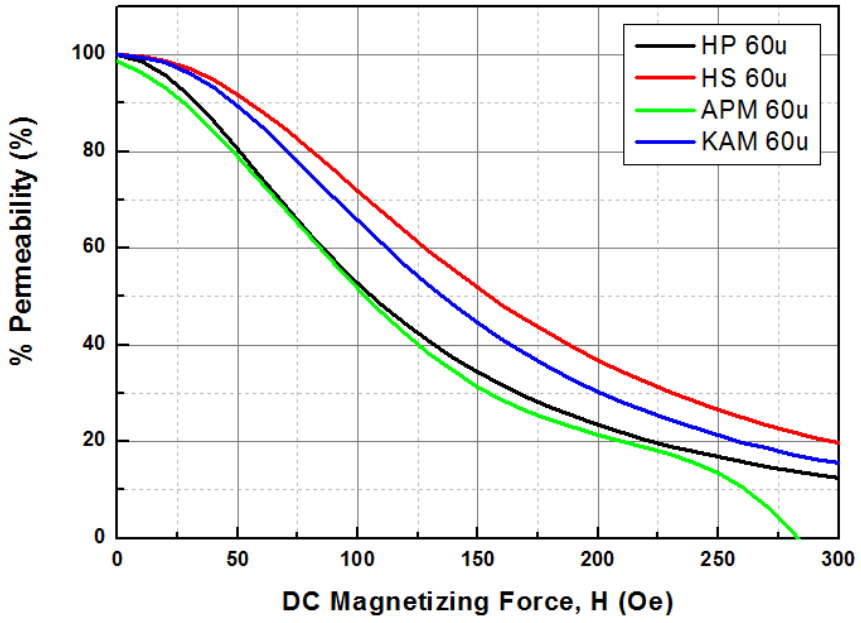
HP 270 060

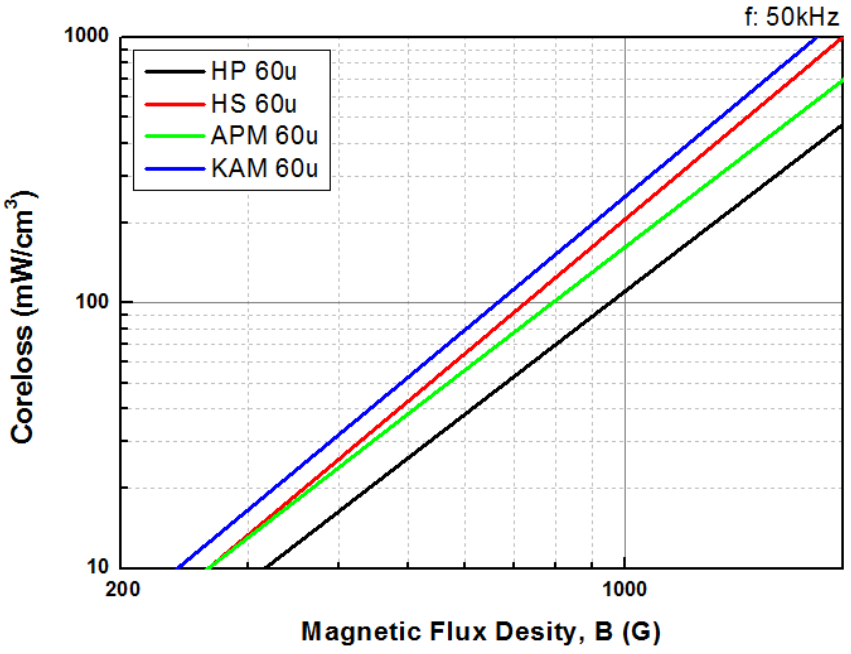
- 060 — Permeability : 60μ
- 270 — OD Size : 27.0mm Available Size : 16.6 ~ 37.8mm
- HP — HP Core

(1) Material Comparison

Material	60μ DCB%			Core Loss [mW/cc]	
	@100 Oe	@150 Oe	@250 Oe	50kHz, 500G	50kHz, 1000G
CSC HP	52%	34%	17%	26	110
HS Core	71%	52%	27%	43	206
APM	51%	31%	13%	38	162
KAM	65%	44%	21%	53	252

(2) Graph (DCB, Coreloss)





◆ Toroidal Core Part List

Size	Before Finish Dimensions			After Finish Dimensions			Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n^2)								
	OD(mm) MAX	ID(mm) MIN	HT(mm) MAX	OD(mm) MAX	ID(mm) MIN	HT(mm) MAX			019μ	026u	040u	060u	075u	090u	125μ	147μ	160μ
096	9.65	4.78	3.18	10.29	4.27	3.81	2.18	0.075		11	17	25	31	38	52	61	67
097	9.65	4.78	3.96	10.29	4.27	4.57	2.18	0.095		14	21	32	40	48	67	78	85
102	10.16	5.08	3.96	10.8	4.57	4.57	2.38	0.100		14	21	32	40	48	67	78	85
112	11.18	6.35	3.96	11.9	5.89	4.72	2.69	0.091		11	17	26	33	39	54	64	69
127	12.7	7.62	4.75	13.46	6.99	5.51	3.12	0.114		12	18	27	34	41	56	66	72
147	14.70	8.90	5.60	15.50	8.20	6.40	3.63	0.154		14	21	32	40	48	67	78	85
166	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192		15	23	35	44	53	73	86	93
172	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232		19	29	43	54	65	90	105	115
203	20.32	12.70	6.35	21.10	12.07	7.11	5.09	0.226		14	21	32	40	48	67	78	85
229	22.86	13.97	7.62	23.62	13.39	8.38	5.67	0.331		19	29	43	54	65	90	105	115
234	23.57	14.40	8.89	24.30	13.77	9.70	5.88	0.388	16	22	34	51	64	77	106	125	136
252	25.20	14.60	10.00	26.00	13.90	10.80	6.10	0.504	20	27	42	62	78	93	130	153	166
270	26.92	14.73	11.18	27.70	14.10	11.99	6.35	0.654	24	33	50	75	94	113	156	184	200
300	30.00	17.40	10.90	30.80	16.70	11.80	7.27	0.652	21	29	45	68	85	101	141	166	180
330	33.02	19.94	10.67	33.83	19.30	11.61	8.15	0.672	19	26	41	61	76	92	127	149	163
343	34.29	23.37	8.89	35.20	22.60	9.83	8.95	0.454	12	16	25	38	48	57	79	93	101
358	35.81	22.35	10.46	36.70	21.50	11.28	8.98	0.678	18	24	37	56	70	84	117	137	149
378	37.80	23.20	12.50	38.70	22.30	13.40	9.40	0.867	22	30	46	70	87	104	145	170	186
400	39.88	24.13	14.48	40.70	23.30	15.37	9.84	1.072	26	35	54	81	101	122	169	198	216
434	43.40	26.40	16.20	44.30	25.50	17.10	10.74	1.308	29	40	61	92	115	138	191	225	245
467	46.74	24.13	18.03	47.60	23.30	18.92	10.74	1.990	43	59	90	135	169	203	281	331	360
468	46.74	28.70	15.24	47.60	27.90	16.13	11.63	1.340	27	37	57	86	108	129	179	211	229
488	48.80	27.90	15.80	49.70	27.00	16.70	11.74	1.569	32	44	67	101	126	151	210	247	269
508	50.80	31.75	13.46	51.70	30.90	14.35	12.73	1.250	23	32	49	73	91	110	152	179	195
540	54.00	29.00	14.40	54.90	28.10	15.30	12.63	1.710	32	44	68	102	128	153	213	250	272
571	57.15	26.39	15.24	58.00	25.60	16.10	12.50	2.290	44	60	92	138	173	207	288	338	368
572	57.15	35.56	13.97	58.00	34.70	14.86	14.30	1.444	24	33	50	75	94	113	156	184	200
596	59.60	34.00	19.50	60.60	33.00	20.50	14.33	2.371	40	54	83	125	156	187	260		
610	62.00	32.60	25.00	63.10	31.37	26.27	14.37	3.675	61	83	128	192	240	288	400		
640	64.00	40.00	21.00	65.10	39.00	22.10	16.04	2.394	36	49	75	113	141	169	234		
680	68.00	36.00	20.00	69.10	35.00	21.10	15.81	3.008	45	62	96	143	179	215	299		
740	74.10	45.30	35.00	75.20	44.07	36.27	18.39	4.788	65	89	137	206	258	309	429		
777	77.80	49.23	12.70	78.90	48.00	13.97	20.00	1.770	22	29	45	68	85	102	142		
778	77.80	49.23	15.90	78.90	48.00	17.02	20.00	2.270	27	37	57	85	106	128	177		
888	88.90	66.00	15.90	90.00	64.74	17.20	24.01	1.830	18	25	38	57	71	86	119		

Ⅲ. Special Shape Powder Core

Ni-Fe alloy
Khaki Color
Lower Core Loss,Excellent DC Bias
Large Energy Storage Capability
Perm 26, 60, 125, 147, 160u



Ni-Fe-Mo alloy
Gray Color
Lowest Core Loss
Excellent Temperature Stabiliy
Perm 26, 60, 125, 147, 160, 173, 200u

High Flux Cores

MPP Cores



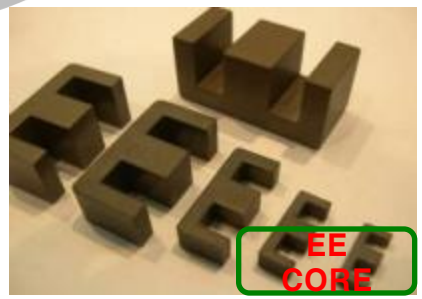




Mega Flux ® Cores

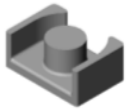
Sendust Cores

Fe-Si-Al alloy
Black Color
Low Core Loss
Moderate Price
Perm 26, 60, 75, 90, 125u



Fe-Si alloy
Dark Brown Color
Excellent DC Bias
Large Energy Storage Capability
Moderate Price
Perm 26, 40, 50, 60, 75, 90u

Ⅲ. Special Shape Powder Core

		Block	E	EER	EQ	Cylinder	Round Block	U	ER	Ellipse	Planar E
Materials	Perm.										
Mega Flux®	26 μ	○	○	○	○	○	○	○	○	○	○
	40 μ	○	○	○	○	○	○	○	○	○	○
	60 μ	○	○	○	○	○	○	○	○	○	○
Sendust	26 μ	○	○	○	○	○	○	○	○	○	○
	40 μ	○	○	○	○	○	○	○	○	○	○
	60 μ	○	○			○	○	○		○	
High Flux	26 μ	○	○	○	○	○	○	○	○	○	○
	40 μ	○	○	○	○	○	○	○	○	○	○
	60 μ	○	○	○	○	○	○	○	○	○	○

1. Black Color : Now Available
2. Blue Color : Shape Development will be finished until 2017

(1) Features

- Outer Diameter 100, 132, 165mm
- MPP, High Flux, Sendust, Mega Flux®
- Electrical Characteristics are Same as Small Toroidal Cores

(2) Application

- Uninterruptible Power Supply (UPS)
- Solar Inverter
- High Power System





(3) Product Identification

CK 13 25 060

- CK: Mega Flux® Core — CH: High Flux, CS: Sendust
- 13: OD Size : 130mm — Available Size : 100 ~ 165mm
- 25: Height : 25mm
- 060: Permeability : 60μ — Available Perm : 26, 50, 60, 125μ

(4) Design Example



Core Stacking
(OD : 132mm)

Wound Product
(Application : UPS)



(1) Features

- Easy to Assemble
- Good Temperature Stability
- Low Core Loss
- Free From Leakage Flux
- Good Design Flexibility

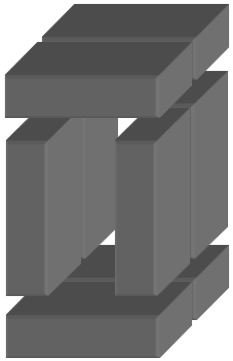




(2) Application

- Solar Inverter
- Uninterruptible Power Supply (UPS)
- Hybrid, Electric Vehicle
- High Power System





(3) Product Identification

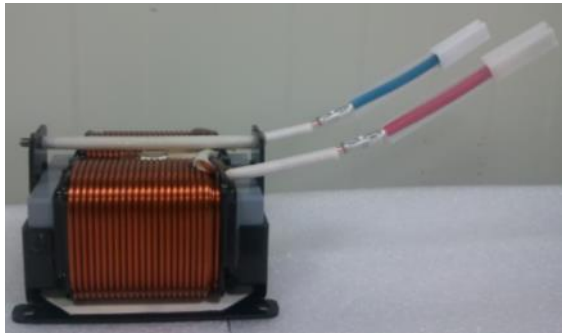
BK 6 3 20 - 060

060	Permeability : 60 μ	Available Perm : 26, 40, 60 μ
20	Height : 20mm	Available Size : 15,20mm
3	Width : 30mm	
6	Length : 60mm	Available Size : 50 ~ 80mm
BK	Mega Flux® Block Core	BH: High Flux, BS: Sendust

(4) Design Example

1)Solar Inverter





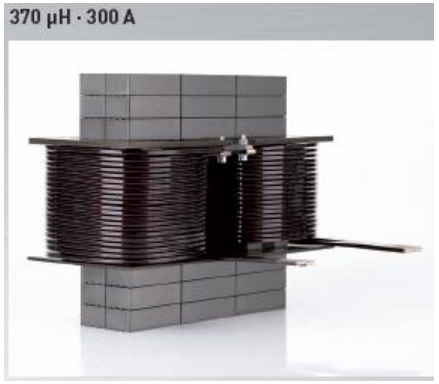
2)UPS



3)Hybrid, Electric Vehicle



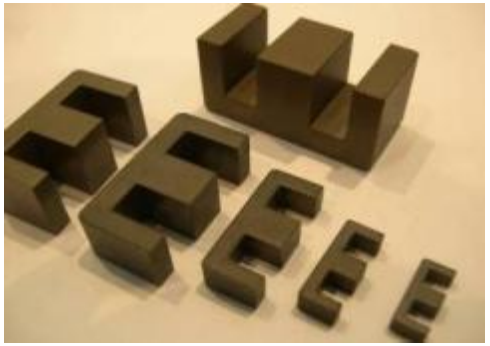
4)High Power System





(1) Features

- Easy Winding
- Sendust, Mega Flux Available
- Good Temperature Stability
- No Bulk Gap
- Minimized Audible Noise



(2) Application

- Solar Inverter
- PFC Choke
- Output Choke

(3) Product Identification

ES 43 21 C – 060

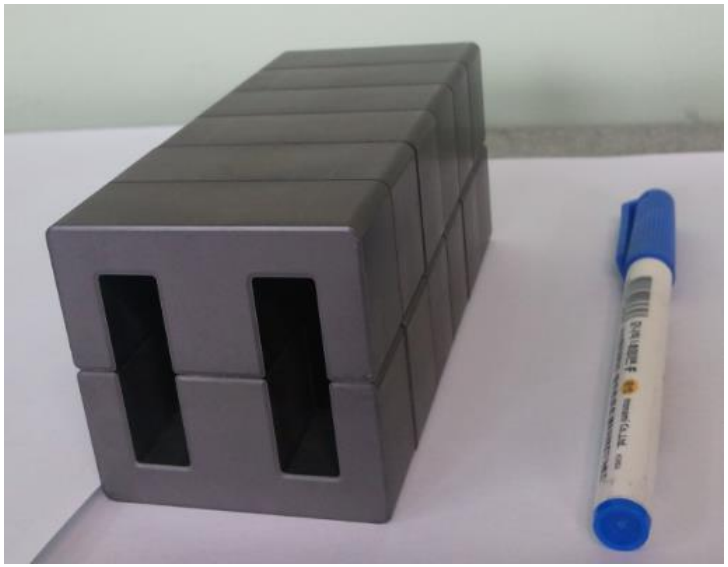
- 060 — Permeability : 60 μ — Available Perm : 26, 40, 60 μ
- C — Height
- 21 — Width : 21mm
- 43 — Length : 43mm — Available Size : 19 ~ 80mm
- ES — Sendust E Core — EK : Mega Flux®

(4) Design Example

1)E Core Stacking

: EK5528A-060 6Layer, AL=1314mH

55mm x 55mm x 124mm



2) Wound Product (PFC, Solar)





(1) Features

- Round Center Leg
- High Flux, Mega Flux Available
- Good Temperature Stability
- No Bulk Gap
- Rectangular Winding is Possible (DCR Reduction)



(2) Application

- High Current, Low Inductance Application
- Hybrid, Electrical Vehicle
- PFC Choke
- Output Choke



(3) Product Identification

HEQ 32 22 B – 060

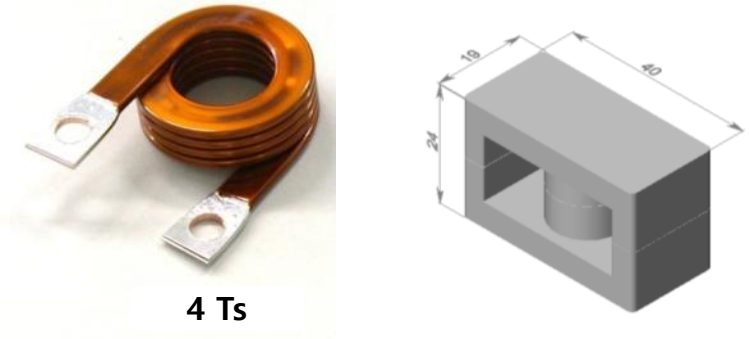
- HEQ : High Flux EQ Core / KEQ : Mega Flux®
- 32 : Length : 32mm (Available Size : 20 ~ 50mm)
- 22 : Width : 22mm
- B : Height
- 060 : Permeability : 60 μ (Available Perm : 26, 40, 60 μ)

(4) Design Example

1) HEV Application



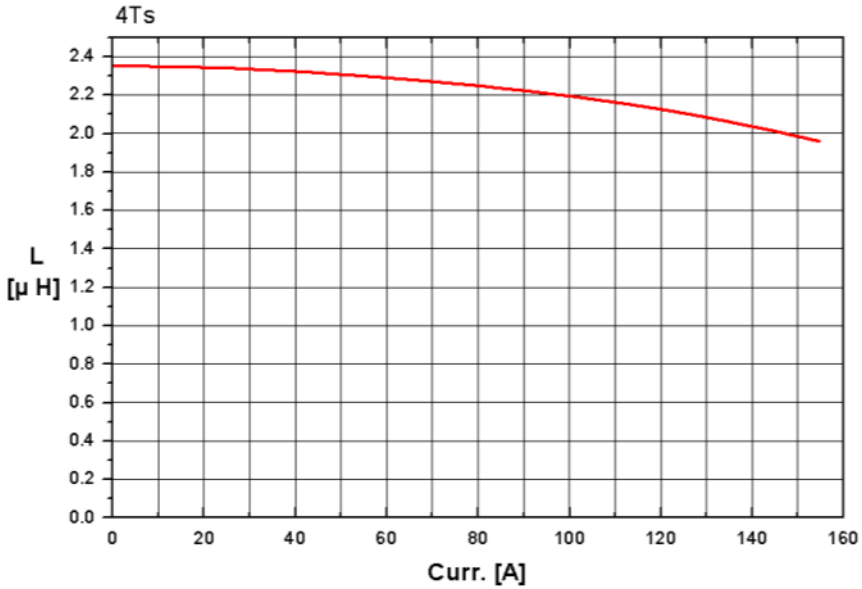
<Gap Ferrite>



<MegaFlux EER Core>

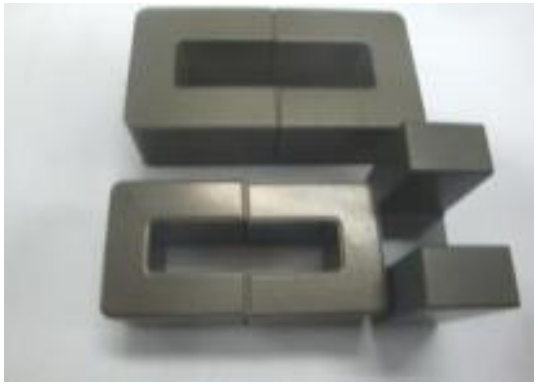
2) DCB Graph

: L(120A)=2㎛H



(1) Features

- Same Size with C Core
- High Flux, Sendust, Mega Flux
- Good Temperature Stability
- No Bulk Gap
- Minimized Audible Noise



(2) Application

- Uninterruptible Power Supply
- Solar Inverter
- Hybrid, Electrical Vehicle
- High Power Industrial Power System

(3) Product Identification

UK 41 41 C – 060

060	Permeability : 60 μ	Available Perm : 26, 40, 60 μ
C	Height	
41	Width : 41mm	Available Size : 36 ~ 65mm
41	Length : 41mm	Available Size : 35 ~ 79mm
UK	Mega Flux® U Core	UH: High Flux, US: Sendust

6. Ellipse Core

(1) Features

- Shorter 1Turn Length than Block
- Good Temperature Stability
- Low Core Loss
- Post Core Round Corner



(2) Application

- Solar Inverter
- Uninterruptible Power Supply (UPS)
- Hybrid, Electric Vehicle

(3) Product Identification

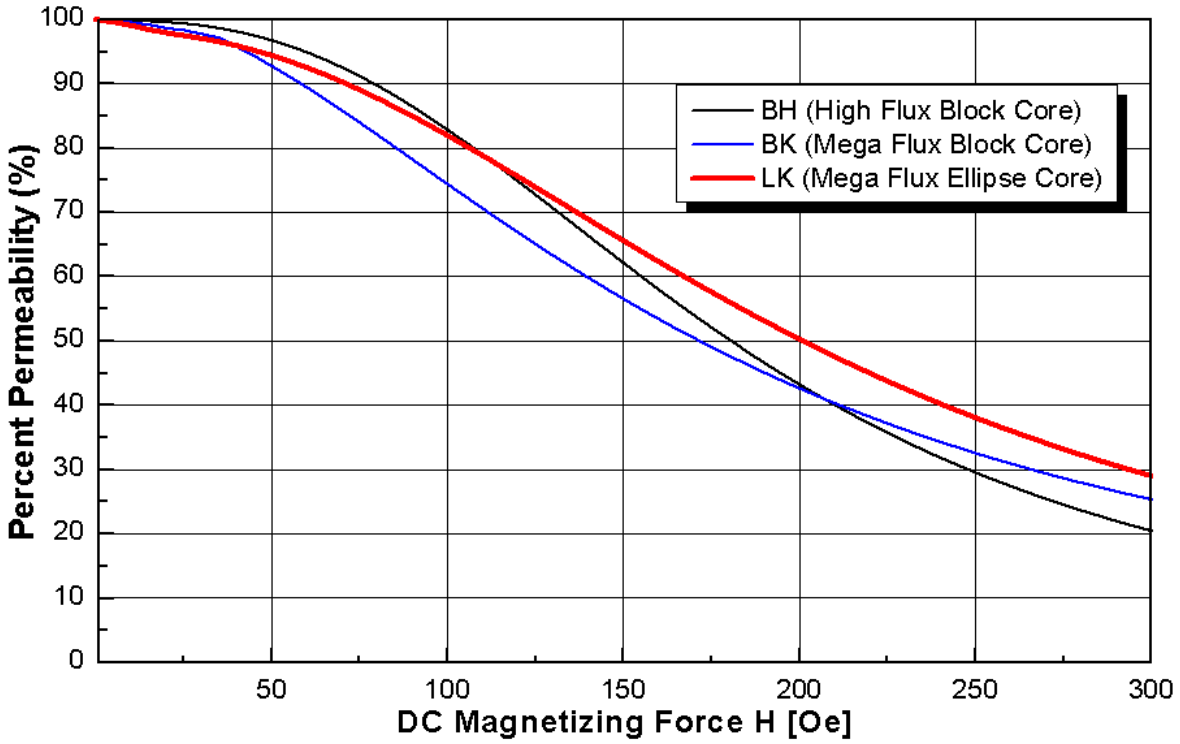
LK 70 35 A - 060

- 060 — Permeability : 60 μ — Available Perm : 26, 40, 60 μ
- A — Height : — Available Size : A=13.5,B=18.5mm
- 35 — Width : 35mm
- 70 — Length : 70mm — Available Size : 50 ~ 80mm
- LK — Mega Flux® Ellipse Core

(3) Material Comparison

Material	60μDCB%		
	@100 Oe	@150 Oe	@200 Oe
LK (Mega Flux® Ellipse)	82%	66%	50%
BH (High Flux Block)	83%	62%	43%
BK (Mega Flux® Block)	74%	56%	42%

(4) DCB Graph



7. Rblock + Cylinder Ⅲ. Special Shape Powder Core

(1) Features

- Shortest 1Turn Length
- Good Temperature Stability
- Low Core Loss
- Post Core Round Shape



(2) Application

- Solar Inverter
- Uninterruptible Power Supply (UPS)
- Hybrid, Electric Vehicle

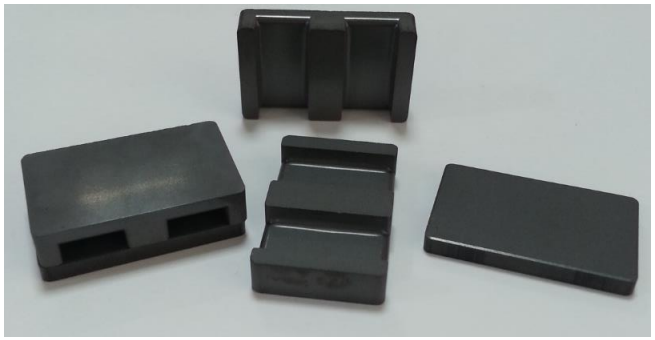
(3) Product Identification(Round Block)

RBK 80 30 A - 060

- RBK : Mega Flux® Round Block Core
- 80 : Length : 80mm — Available Size : 54 ~ 80mm
- 30 : Width : 30mm
- A : Height :
- 060 : Permeability : 60 μ — Available Perm : 26, 40, 60 μ

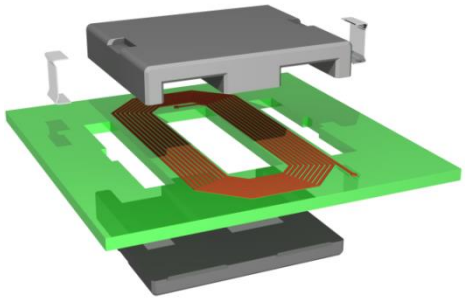
(1) Features

- Same Size with Ferrite Planar E Core
- High Flux, Mega Flux Available
- Good Temperature Stability
- No Bulk Gap
- Easy Winding (PCB Winding)



(2) Application

- High Current, Low Inductance Application
- High Power Density DC-DC Converter(Brick)
- PFC Choke
- Output Choke



(3) Product Identification

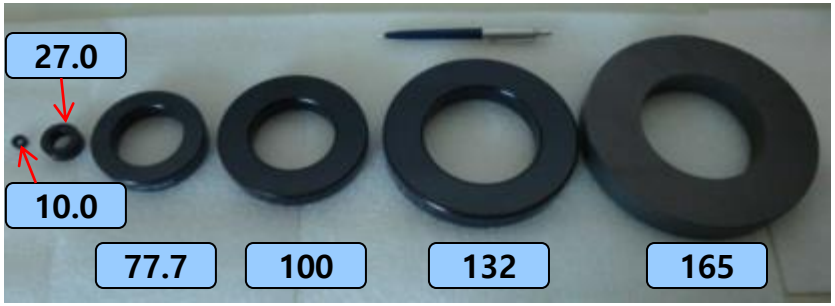
PEH 32 20 A - 060

- 060 — Permeability : 60 μ — Available Perm : 26, 40, 60 μ
- A — Height
- 20 — Width : 20mm
- 32 — Length : 32mm — Available Size : 18 ~ 43.2mm
- PEH — High Flux Planar E Core — PEK :Mega Flux®

Ⅳ. Special Shape Core Part List

(1) Material Comparison

Material	Advantage	Disadvantage
Mega Flux®	High DCB Moderate Price	Core Loss
High Flux	High DCB Low Core Loss	Cost
Sendust	Moderate Price Low Core Loss	DCB



(2) Dimension

Part No. (□□□ : perm.)	Dimensions(mm) Before Finish OD(Max)	ID(Min)	HT(Max)	After Finish OD(Max)	ID(Min)	HT(Max)	Path length (㎝)	Cross Section Area (㎠)	A_L value (nH/n²) ±8% 026 μ	060 μ	125 μ
CS1013□□□	101.6	57.2	13.6	103.1	55.7	14.9	24.27	2.972	40	92	192
CS1016□□□	101.6	57.2	16.5	103.1	55.7	17.8	24.27	3.522	48	112	228
CS1027□□□	101.6	57.2	27.2	103.1	55.7	28.5	24.27	5.944	80	184	384
CS1033□□□	101.6	57.2	33.0	103.1	55.7	34.3	24.27	7.044	96	224	456
CS1320□□□	132.5	78.6	20.3	134.2	77.0	21.7	32.42	5.347	54	124	259
CS1325□□□	132.5	78.6	25.4	134.2	77.0	26.8	32.42	6.710	68	156	325
CS1333□□□	132.5	78.6	33.0	134.2	77.0	34.4	32.42	8.717	88	202	422
CS1340□□□	132.5	78.6	40.6	134.2	77.0	42.0	32.42	10.694	108	248	518
CS1625□□□	165.0	88.9	25.4	167.2	86.9	27.3	38.65	9.460	80	184	384

Ⅳ. Special Shape Core Part List

(1) Material Comparison

Block Material	Advantage	Disadvantage	60μ DCB%		Core Loss @25kHz, 1,000G
			@100 Oe	@200 Oe	
Mega Flux®	High DCB Moderate Price	Core Loss	76%	42%	219mW/cc
High Flux	High DCB Low Core Loss	Cost	76%	43%	102mW/cc
Sendust	Moderate Price Low Core Loss	DCB	45%	21%	106mW/cc

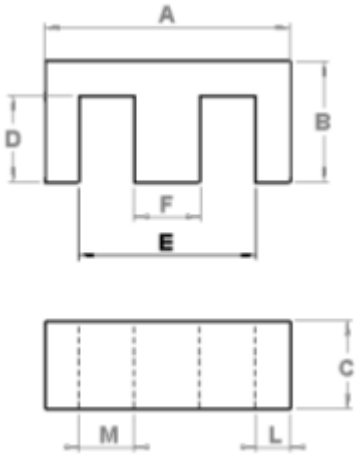
(2) Dimension

P/N	Dimensions			Path length (㎝)	Cross Section Area (㎠)	4pcs AL value (nH/n^2) ±12%		
	Length (mm)	Width (mm)	Height (mm)			026u	040u	060u
BK5315	50.5±0.5	30.3±0.3	15±0.2	18.71	4.5	95	121	181
BK5320	50.5±0.5	30.3±0.3	20±0.2	18.28	6	130	165	247
BK6315	60.5±0.5	30.3±0.3	15±0.2	22.71	4.5	79	100	149
BK6320	60.5±0.5	30.3±0.3	20±0.2	22.28	6	107	135	203
BK7315	70.5±0.5	30.3±0.3	15±0.2	26.71	4.5	67	85	127
BK7320	70.5±0.5	30.3±0.3	20±0.2	26.28	6	91	115	172
BK8315	80.5±0.5	30.3±0.3	15±0.2	30.71	4.5	58	74	110
BK8320	80.5±0.5	30.3±0.3	20±0.2	30.28	6	78	100	149

Ⅳ. Special Shape Core Part List

(1) Material Comparison

Material	Advantage	Disadvantage	60μ DCB%		Core Loss
			@50 Oe	@100 Oe	@25kHz, 1,000G
Mega Flux®	High DCB Moderate Price	Core Loss	91%	76%	219mW/cc
Sendust	Moderate Price Low Core Loss	DCB	76%	50%	106mW/cc



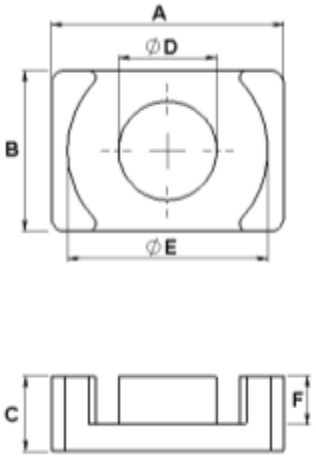
(2) Dimension

P/N	Dimensions								Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n²)±12%		
	A (mm)	B (mm)	C (mm)	D[min] (mm)	E[min] (mm)	F (mm)	L[nom] (mm)	M[min] (mm)			026u	040u	060u
ES1908A	19.3±0.3	8.1±0.2	4.8±0.2	5.5	13.9	4.8±0.2	2.3	4.7	4.01	0.228	26	35	48
ES2510A	25.1±0.3	9.6±0.2	6.5±0.2	6.2	18.8	6.1±0.2	3.0	6.3	4.85	0.385	39	52	70
ES3015A	30.1±0.3	15.0±0.2	7.1±0.2	9.7	19.5	7.0±0.2	5.1	6.4	6.56	0.601	33	46	71
ES3515A	34.5±0.3	14.1±0.2	9.3±0.2	9.6	25.3	9.3±0.2	4.4	7.9	6.94	0.840	56	75	102
ES4117A	40.9±0.6	16.5±0.3	12.5±0.3	10.4	28.3	12.5±0.3	6.0	7.9	7.75	1.520	88	119	163
ES4321A	42.8±0.7	21.1±0.4	10.8±0.3	15.0	30.4	11.7±0.3	5.9	9.5	9.84	1.280	56	76	105
ES4321B	42.8±0.7	21.1±0.4	15.4±0.3	15.0	30.4	11.7±0.3	5.9	9.5	9.84	1.830	80	108	150
ES4321C	42.8±0.7	21.1±0.4	20.0±0.3	15.0	30.4	11.7±0.3	5.9	9.5	9.84	2.370	104	140	194
ES5528A	54.9±0.8	27.6±0.4	20.6±0.4	18.5	37.5	16.8±0.4	8.4	10.3	12.30	3.500	116	157	219
ES5528B	54.9±0.8	27.6±0.4	24.6±0.4	18.5	37.5	16.8±0.4	8.4	10.3	12.30	4.170	138	187	261
ES6533A	65.1±1.0	32.5±0.5	27.0±0.4	22.2	44.2	19.7±0.4	10.0	12.1	14.70	5.400	162	230	300
ES7228A	72.4±1.1	27.9±0.5	19.0±0.4	17.8	52.6	19.1±0.4	9.5	16.9	13.70	3.680	130	173	236
ES8038A	80.0±1.2	38.1±0.6	19.8±0.4	28.1	59.3	19.8±0.4	9.9	19.8	18.50	3.890	103	145	190

Ⅳ. Special Shape Core Part List

(1) Material Comparison

Material	Advantage	Disadvantage	60μ DCB%		Core Loss @25kHz, 1,000G
			@100 Oe	@200 Oe	
Mega Flux®	High DCB Moderate Price	Core Loss	76%	42%	219mW/cc
High Flux	High DCB Low Core Loss	Cost	76%	43%	102mW/cc

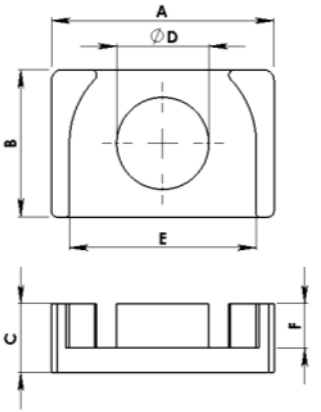


(2) EQ Core (HEQ : HighFlux, KEQ : Mega Flux®)

P/N	Dimensions						Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n²) ±12%		
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			026u	040u	060u
HEQ2014A	20.5±0.3	14.0±0.2	8.1±0.2	8.8±0.2	18.0±0.2	5.7±0.3	4.52	0.608	44	68	101
HEQ2014B	20.5±0.3	14.0±0.2	10.1±0.2	8.8±0.2	18.0±0.2	7.7±0.3	5.32	0.608	37	57	86
HEQ2619A	26.5±0.3	19.0±0.2	10.1±0.2	12.0±0.2	22.6±0.3	6.8±0.3	5.47	1.198	72	110	165
HEQ2619B	26.5±0.3	19.0±0.2	12.4±0.2	12.0±0.2	22.6±0.3	9.1±0.3	6.39	1.198	61	94	141
HEQ3222A	32.0±0.4	22.0±0.3	10.3±0.2	13.5±0.2	27.6±0.3	6.6±0.3	6.03	1.523	83	127	190
HEQ3222B	32.0±0.4	22.0±0.3	15.2±0.2	13.5±0.2	27.6±0.3	11.5±0.3	7.99	1.523	62	96	144
HEQ3626A	36.0±0.5	26.0±0.3	17.4±0.3	14.4±0.2	32.0±0.4	13.4±0.3	9.47	1.808	62	96	144
HEQ4128A	41.5±0.5	28.0±0.4	19.9±0.3	14.9±0.2	36.5±0.4	15.4±0.3	11.52	1.997	57	87	131
HEQ5032A	50.0±0.6	32.0±0.4	25.0±0.4	20.0±0.3	44.0±0.5	19.5±0.4	13.34	3.141	77	118	178

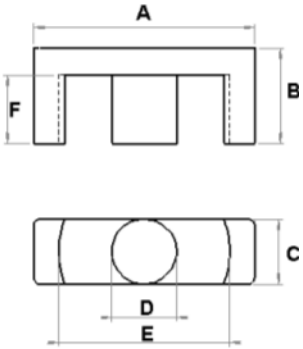
(3) ER Core (RH : HighFlux, RK : Mega Flux®)

P/N	Dimensions						Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n²) ±12%		
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			026u	040u	060u
RH1911A	18.8±0.3	11.0±0.2	6.0±0.2	7.4±0.2	15.6±0.2	4.0±0.2	3.54	0.425	39	60	90
RH2314A	23.4±0.3	14.0±0.2	8.7±0.2	9.2±0.2	19.4±0.2	6.2±0.2	4.91	0.670	45	69	103
RH2518A	25.0±0.3	18.0±0.2	8.4±0.2	11.0±0.2	21.0±0.3	5.4±0.2	4.97	0.960	63	97	146
RH2518B	25.0±0.3	18.0±0.2	10.8±0.2	11.0±0.2	21.0±0.3	7.8±0.2	5.93	0.960	53	81	122
RH3020A	30.0±0.4	20.0±0.3	9.2±0.2	12.0±0.2	25.6±0.3	5.9±0.2	5.81	1.140	64	99	148
RH3020B	30.0±0.4	20.0±0.3	11.8±0.2	12.0±0.2	25.6±0.3	8.5±0.2	6.85	1.140	54	84	125
RH3222A	32.0±0.4	22.0±0.3	10.3±0.2	13.5±0.2	27.0±0.3	6.6±0.2	6.25	1.430	75	115	172
RH3222B	32.0±0.4	22.0±0.3	13.4±0.2	13.5±0.2	27.0±0.3	9.7±0.2	7.49	1.430	62	96	144
RH3222C	32.0±0.4	22.0±0.3	15.2±0.2	13.5±0.2	27.0±0.3	11.5±0.2	8.21	1.430	57	88	131
RH3624A	36.2±0.4	24.0±0.3	11.2±0.2	15.0±0.2	30.4±0.4	7.2±0.2	6.78	1.770	85	131	197
RH3624B	36.2±0.4	24.0±0.3	14.4±0.2	15.0±0.2	30.4±0.4	10.4±0.2	8.06	1.770	72	110	166
RH4225A	42.0±0.5	25.0±0.3	12.3±0.2	16.2±0.3	35.2±0.4	7.9±0.2	7.61	2.060	88	136	204
RH4225B	42.0±0.5	25.0±0.3	15.8±0.2	16.2±0.3	35.2±0.4	11.4±0.2	9.01	2.060	75	115	172



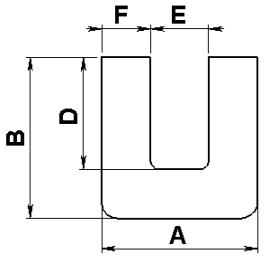
(4) EER Core (HER : HighFlux, KER : Mega Flux®)

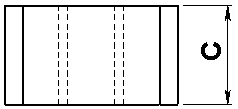
P/N	Dimensions						Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n²) ±12%		
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			026u	040u	060u
HER2507A	25.5±0.3	9.3±0.2	7.5±0.2	7.5±0.2	19.8±0.2	6.2	5.10	0.450	39	53	73
HER2507B	25.5±0.3	11.0±0.2	7.5±0.2	7.5±0.2	19.8±0.2	7.9	5.78	0.450	34	47	65
HER3010A	30.6±0.3	15.8±0.2	9.8±0.2	9.8±0.2	22.0±0.2	11	8.66	0.754	38	53	72
HER3511A	35.0±0.4	15.8±0.2	11.3±0.2	11.3±0.2	25.6±0.3	9.8	8.30	1.078	57	78	108
HER3511B	35.0±0.4	20.7±0.2	11.3±0.2	11.3±0.2	25.6±0.3	14.7	10.27	1.078	46	63	87
HER4013A	40.0±0.5	17.4±0.3	13.3±0.3	13.3±0.3	29.0±0.4	10.4	9.13	1.491	72	99	135
HER4013B	40.0±0.5	22.4±0.3	13.3±0.3	13.3±0.3	29.0±0.4	15.4	11.13	1.491	59	81	111
HER4215A	42.0±0.6	22.4±0.4	15.5±0.4	15.5±0.4	29.4±0.5	15.4	10.64	2.026	84	115	158
HER4215B	42.0±0.6	25.4±0.4	15.5±0.4	15.5±0.4	29.4±0.5	18.4	11.84	2.026	75	103	142
HER4917A	49.0±0.7	18.8±0.5	17.2±0.5	17.2±0.5	36.5±0.6	12.2	9.57	2.353	99	136	185
HER4917B	49.0±0.7	24.7±0.5	17.2±0.5	17.2±0.5	36.5±0.6	18.1	11.93	2.353	79	109	149



Ⅳ. Special Shape Core Part List

(1) Dimension



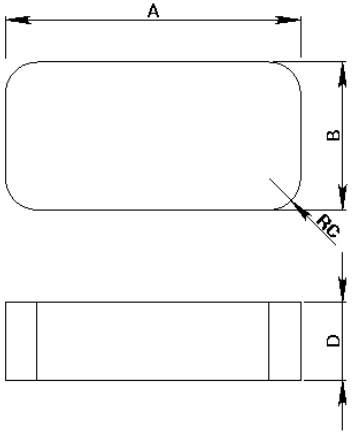


P/N	Dimensions						Inner Radius (mm)	Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n²) ±12%		
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)				026u	040u	060u
UH3536A	35.0±0.5	36.0±0.5	20.0±0.5	25.0	13.0	11.0±0.3	2	16.90	2.200	43	65	98
UH3536B	35.0±0.5	36.0±0.5	25.0±0.5	25.0	13.0	11.0±0.3	2	16.90	2.750	53	82	123
UH4141A	41.0±0.6	41.0±0.6	20.0±0.5	28.0	15.0	13.0±0.3	2	19.30	2.600	44	68	102
UH4141B	41.0±0.6	41.0±0.6	25.0±0.5	28.0	15.0	13.0±0.3	2	19.30	3.250	55	85	127
UH4141C	41.0±0.6	41.0±0.6	30.0±0.5	28.0	15.0	13.0±0.3	2	19.30	3.900	66	102	152
UH5251A	52.0±0.7	51.0±0.7	25.0±0.5	35.0	20.0	16.0±0.4	2.5	24.30	4.000	54	83	124
UH5251B	52.0±0.7	51.0±0.7	30.0±0.5	35.0	20.0	16.0±0.4	2.5	24.30	4.800	65	99	149
UH6361A	63.0±0.8	60.5±0.8	30.0±0.5	41.5	25.0	19.0±0.4	3	29.10	5.700	64	98	148
UH6361B	63.0±0.8	60.5±0.8	35.0±0.5	41.5	25.0	19.0±0.4	3	29.10	6.650	75	115	172
UH7965A	79.0±1.0	64.5±1.0	30.0±0.5	42.5	35.0	22.0±0.5	4	32.60	6.600	66	102	153
UH7965B	79.0±1.0	64.5±1.0	35.0±0.5	42.5	35.0	22.0±0.5	4	32.60	7.700	77	119	178

(1) Part List

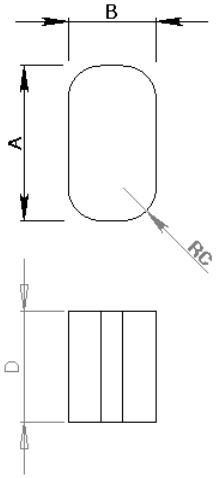
1) Plates

P/N	Dimensions				Cross Section Area(㎠)
	A Length (mm)	B Width (mm)	RC Radius (mm)	D Height (mm)	
LK5035A	50.5±0.5	35.3±0.3	7.5±0.2	13.5±0.2	4.77
LK5035B	50.5±0.5	35.3±0.3	7.5±0.2	18.5±0.2	6.52
LK6035A	60.5±0.5	35.3±0.3	7.5±0.2	13.5±0.2	4.77
LK6035B	60.5±0.5	35.3±0.3	7.5±0.2	18.5±0.2	6.52
LK7035A	70.5±0.5	35.3±0.3	7.5±0.2	13.5±0.2	4.77
LK7035B	70.5±0.5	35.3±0.3	7.5±0.2	18.5±0.2	6.52
LK8035A	80.5±0.5	35.3±0.3	7.5±0.2	13.5±0.2	4.77
LK8035B	80.5±0.5	35.3±0.3	7.5±0.2	18.5±0.2	6.52

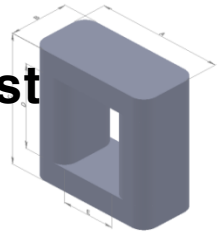


2) Posts

P/N	Dimensions				Cross Section Area (㎠)
	A Length (mm)	B Width (mm)	RC Radius (mm)	D Height (mm)	
LK3515A	35.3±0.3	15.2±0.2	7.5±0.2	20.0±0.2	4.77
LK3515B	35.3±0.3	15.2±0.2	7.5±0.2	25.0±0.2	4.77
LK3520A	35.3±0.3	20.2±0.2	7.5±0.2	20.0±0.2	6.52
LK3520B	35.3±0.3	20.2±0.2	7.5±0.2	25.0±0.2	6.52



Ⅳ. Special Shape Core Part List

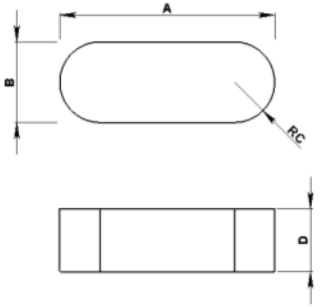


(2) Assembling

PLATE	POST		Dimensions					Path length (㎝)	Cross Section Area (㎠)	Window Area (㎠)	AL value (nH/n²)±12%		
	P/N	1 LEG STACK	A Length (mm)	B Width (mm)	C Height (mm)	D Inner HT (mm)	E Inner Length (mm)				026u	040u	060u
LK5035A	LK3515A	2	50.5±0.5	35.3±0.3	67.0±0.5	40.0±0.4	20.0±0.4	16.47	4.77	8	113	146	218
	LK3515B	2	50.5±0.5	35.3±0.3	77.0±0.5	50.0±0.4	20.0±0.4	18.47	4.77	10	101	130	195
	LK3515A	3	50.5±0.5	35.3±0.3	87.0±0.5	60.0±0.4	20.0±0.4	20.47	4.77	12	91	117	176
LK5035B	LK3520A	2	50.5±0.5	35.3±0.3	67.0±0.5	40.0±0.4	10.0±0.4	16.04	6.52	4	158	204	306
	LK3520B	2	50.5±0.5	35.3±0.3	77.0±0.5	50.0±0.4	10.0±0.4	18.04	6.52	5	141	182	273
	LK3520A	3	50.5±0.5	35.3±0.3	87.0±0.5	60.0±0.4	10.0±0.4	20.04	6.52	6	127	164	245
LK6035A	LK3515A	2	60.5±0.5	35.3±0.3	67.0±0.5	40.0±0.4	30.0±0.4	18.47	4.77	12	101	130	195
	LK3515B	2	60.5±0.5	35.3±0.3	77.0±0.5	50.0±0.4	30.0±0.4	20.47	4.77	15	91	117	176
	LK3515A	3	60.5±0.5	35.3±0.3	87.0±0.5	60.0±0.4	30.0±0.4	22.47	4.77	18	83	107	160
LK6035B	LK3520A	2	60.5±0.5	35.3±0.3	77.0±0.5	40.0±0.4	20.0±0.4	18.04	6.52	8	141	182	273
	LK3520B	2	60.5±0.5	35.3±0.3	87.0±0.5	50.0±0.4	20.0±0.4	20.04	6.52	10	127	164	245
	LK3520A	3	60.5±0.5	35.3±0.3	97.0±0.5	60.0±0.4	20.0±0.4	22.04	6.52	12	115	149	223
LK7035A	LK3515A	2	70.5±0.5	35.3±0.3	67.0±0.5	40.0±0.4	40.0±0.4	20.47	4.77	16	91	117	176
	LK3515B	2	70.5±0.5	35.3±0.3	77.0±0.5	50.0±0.4	40.0±0.4	22.47	4.77	20	83	107	160
	LK3515A	3	70.5±0.5	35.3±0.3	87.0±0.5	60.0±0.4	40.0±0.4	24.47	4.77	24	76	98	147
LK7035B	LK3520A	2	70.5±0.5	35.3±0.3	77.0±0.5	40.0±0.4	30.0±0.4	20.04	6.52	12	127	164	245
	LK3520B	2	70.5±0.5	35.3±0.3	87.0±0.5	50.0±0.4	30.0±0.4	22.04	6.52	15	115	149	223
	LK3520A	3	70.5±0.5	35.3±0.3	97.0±0.5	60.0±0.4	30.0±0.4	24.04	6.52	18	106	136	204
LK8035A	LK3515A	2	80.5±0.5	35.3±0.3	67.0±0.5	40.0±0.4	50.0±0.4	22.47	4.77	16	83	107	160
	LK3515B	2	80.5±0.5	35.3±0.3	77.0±0.5	50.0±0.4	50.0±0.4	24.47	4.77	20	76	98	147
	LK3515A	3	80.5±0.5	35.3±0.3	87.0±0.5	60.0±0.4	50.0±0.4	26.47	4.77	24	70	91	136
LK8035B	LK3520A	2	80.5±0.5	35.3±0.3	77.0±0.5	40.0±0.4	40.0±0.4	22.04	6.52	12	115	149	223
	LK3520B	2	80.5±0.5	35.3±0.3	87.0±0.5	50.0±0.4	40.0±0.4	24.04	6.52	15	106	136	204
	LK3520A	3	80.5±0.5	35.3±0.3	97.0±0.5	60.0±0.4	40.0±0.4	26.04	6.52	18	98	126	189

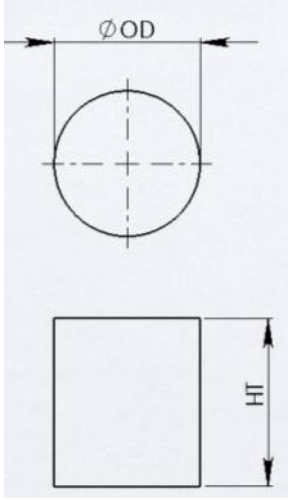
(1) Plate : Round Block Core

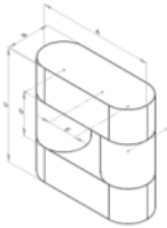
P/N	Dimensions				Cross Section Area (㎠)	POST
	A Length (mm)	B Width (mm)	RC Radius (mm)	D Height (mm)		
RBK5420A	54.5±0.5	20.2±0.3	10.0±0.2	15.7±0.2	3.14	CK2020
RBK6424A	64.5±0.5	24.2±0.3	12.0±0.2	18.8±0.2	4.52	CK2424
RBK6725A	67.5±0.5	25.2±0.3	12.5±0.2	19.6±0.2	4.91	CK2525
RBK7428A	74.5±0.5	27.5±0.3	13.7±0.2	21.7±0.2	6.00	CK2828
RBK8030A	80.5±0.5	30.2±0.3	15.0±0.2	23.5±0.2	7.07	CK3030



(2) Post : Cylinder Core

P/N	Dimensions		1Turn length (mm)	Cross Section Area (㎠)	PLATE
	OD (mm)	HT (mm)			
CK2020	20.2±0.3	20.0±0.2	62.80	3.14	RBK5420A
CK2424	24.2±0.3	24.0±0.2	75.40	4.52	RBK6424A
CK2525	25.2±0.3	25.0±0.2	78.50	4.91	RBK6725A
CK2828	27.5±0.3	27.5±0.2	86.40	6.00	RBK7428A
CK3030	30.2±0.3	30.0±0.2	94.20	7.07	RBK8030A





(3) Assembling

PLATE P/N	POST		Dimensions					Path Length (㎝)	Cross Section Area (㎠)	Window Area (㎠)	AL value (nH/n²) ±12%		
	P/N	1 LEG STACK	A Length (mm)	B Width (mm)	C Height (mm)	D Inner Height (mm)	E Inner Length (mm)				026u	040u	060u
RBK5420A	CK2020	1	54	20	51.4	20	14	12.41	3.14	2.8	99	127	191
		2	54	20	71.4	40	14	16.41	3.14	5.6	75	96	144
		3	54	20	91.4	60	14	20.41	3.14	8.4	60	77	116
RBK6424A	CK2424	1	64	24	61.6	24	16	14.72	4.52	3.84	120	154	232
		2	64	24	85.6	48	16	19.52	4.52	7.68	90	116	175
		3	64	24	109.6	72	16	24.32	4.52	11.52	72	93	140
RBK6725A	CK2525	1	67	25	64.2	25	17	15.41	4.91	4.25	124	160	240
		2	67	25	89.2	50	17	20.41	4.91	8.5	94	121	181
		3	67	25	114.2	75	17	25.41	4.91	12.75	75	97	146
RBK7428A	CK2828	1	74	27.5	71.4	28	19	17.13	6.00	5.32	136	176	264
		2	74	27.5	99.4	56	19	22.73	6.00	10.64	103	133	199
		3	74	27.5	127.4	84	19	28.33	6.00	15.96	83	106	160
RBK8030A	CK3030	1	80	30	77	30	20	18.4	7.07	6	150	193	290
		2	80	30	107	60	20	24.4	7.07	12	113	146	218
		3	80	30	137	90	20	30.4	7.07	18	91	117	175

(4) Cylinder Core Part List

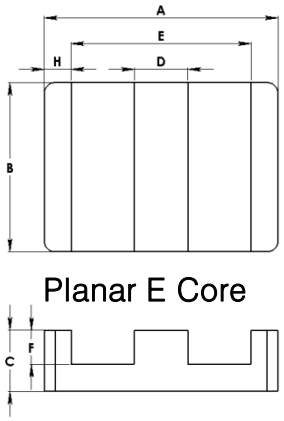
P/N	Dimensions		Cross Section Area (㎠)
	OD (mm)	HT (mm)	
CK(CH, CS)2020	20.2±0.2	20.0±0.2	3.14
CK(CH, CS)2424	24.0±0.2	24.0±0.2	4.50
CK(CH, CS)2525	25.0±0.2	25.0±0.2	4.91
CK(CH, CS)2825	27.6±0.3	25.0±0.2	6.00
CK(CH, CS)2830	27.6±0.3	30.0±0.2	6.00
CK(CH, CS)3026	30.0±0.5	26.0±0.2	7.07
CK(CH, CS)3030	30.0±0.5	30.0±0.2	7.07
CK(CH, CS)3035	30.0±0.5	34.7±0.2	7.07
CK(CH, CS)3530	35.0±0.5	30.0±0.2	9.62
CK(CH, CS)3735	37.0±0.5	35.25±0.2	10.75
CK(CH, CS)4030	40.0±0.6	30.0±0.3	12.56
CK(CH, CS)4230	42.0±0.6	30.0±0.3	13.85
CK(CH, CS)4630	46.0±0.6	30.0±0.3	16.61
CK(CH, CS)5030	50.0±0.7	30.0±0.4	19.63
CK(CH, CS)5530	55.0±0.7	30.0±0.4	23.76
CK(CH, CS)6030	60.0±0.8	30.0±0.5	28.27
CK(CH, CS)6330	63.0±0.8	30.0±0.5	31.17
CK(CH, CS)6830	68.0±0.8	30.0±0.5	36.31

※CK : Mega Flux Cylinder Core
CH : High Flux Cylinder Core
CS : Sendust Cylinder Core
Available Perm. = 26, 40, 60 μ

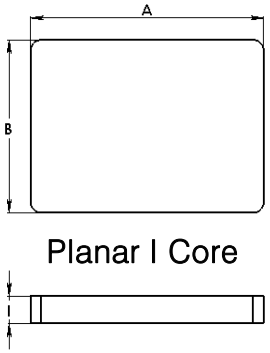
Ⅳ. Special Shape Core Part List

(1) Dimension

P/N	Dimensions							Path length (㎝)	Cross Section Area (㎠)	AL value (nH/n²) ±12%		
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H, I (mm)			026u	040u	060u
PEK1810A	18.0±0.3	10.0±0.2	4.0±0.2	4.0±0.2	14.0±0.2	2.0±0.3	2.0±0.2	2.03	0.394	63	98	146
PIK1810A	18.0±0.3	10.0±0.2					2.0±0.2					
PEK2216A	21.8±0.3	15.8±0.2	5.7±0.2	5.0±0.2	16.8±0.2	3.2±0.3	2.5±0.2	2.61	0.780	98	150	225
PIK2216A	21.8±0.3	15.8±0.2					2.5±0.2					
PEK3220A	31.8±0.3	20.3±0.2	6.4±0.2	6.4±0.2	25.4±0.3	3.2±0.3	3.2±0.2	3.55	1.283	118	182	272
PIK3220A	31.8±0.3	20.3±0.2					3.2±0.2					
PEK3825A	38.0±0.3	25.4±0.2	8.2±0.2	7.6±0.2	30.4±0.3	4.4±0.3	3.8±0.2	4.35	1.906	143	220	330
PIK3825A	38.0±0.3	25.4±0.2					3.8±0.2					
PEK4328A	43.2±0.4	27.9±0.3	9.5±0.2	8.2±0.2	35.0±0.3	5.4±0.3	4.1±0.2	5.05	2.257	146	225	337
PIK4328A	43.2±0.4	27.9±0.3					4.1±0.2					



Planar E Core



Planar I Core



Thank You !