SAMWHA

Magnetic Powder Cores

MPP
High Flux
Sendust
Super Flux

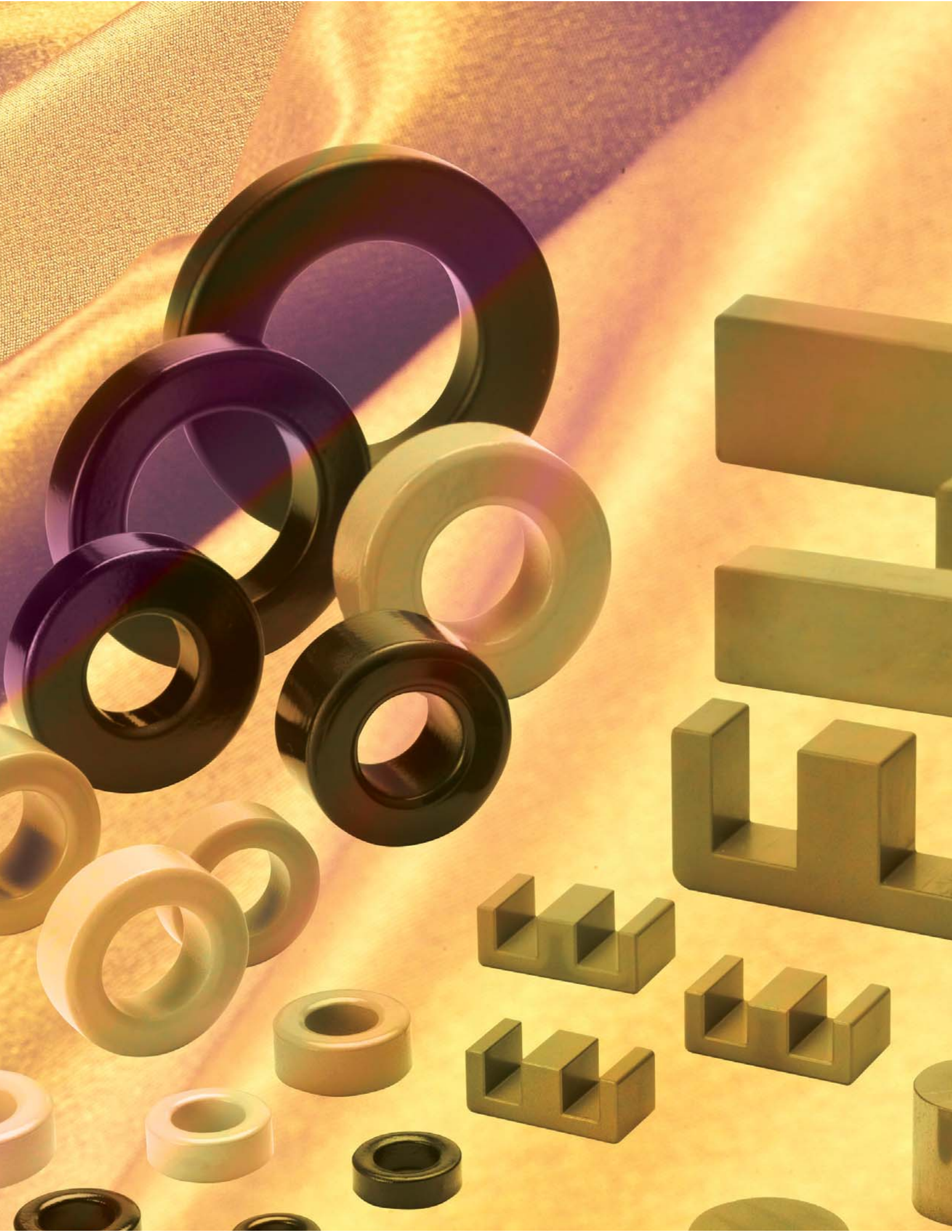
Samwha Electronics

Since its establishment in 1976, Samwha Electronics has been the leading manufacturer of soft magnetic cores, the core materials for electronics parts, by striving to become the world' s most prestigious brand.

With the advent of the 21st century, Samwha Electronics began its efforts to develop technologies and enhance quality, and recently, put focus on management innovation through ERP system and Six sigma.
In order to establish production and sales base for a globalized management system, Samwha Electronics will pledge its efforts not only for early stabilization of factories in china, but also for creative activities of all its employees with innovative movements.

With specialized technologies for developing various magnetic materials and items to meet customers' demands, recently Samwha Electronics also started to produce magnetic powder core(MPC) with MPP, High Flux, Sendust(Fe-Si-Al), Super flux(Fe-Si) materials. And continuously proceeding strong research and development activities even in amorphous and nano-crystaline materials and its items. In near future Samwha Electronics will be a total brand in soft magnetic materials and its parts.

Contents_



General Information

Core Table

Powder Core Overview

Core Identification, Core Tolerance

Core Table

Part No.	A_L value(nH/N²)									Dimensions(mm) OD(Max)×ID(Min)×HT(Max)						Magnetic Path Length ℓ(cm)	Cross Section A(cm²)	Window Area Wa(cm²)	Volume V(cm³)	Packing unit
	026	060	075	090	125	147	160	173	200	Before Coating			After Coating							
OR035□○○○	-	13	16	19	26	31	33	-	-	3.56	1.78	1.52	3.94	1.52	1.96	0.817	0.014	0.122	0.011	40k
OR039□○○○	-	17	21	25	35	41	45	-	-	3.94	2.24	2.54	4.32	1.98	2.97	0.942	0.021	0.147	0.020	40k
OR046□○○○	-	20	25	30	42	49	53	-	-	4.65	2.36	2.54	5.21	1.93	3.30	1.060	0.029	0.213	0.030	40k
OR063□○○○	-	24	30	36	50	59	64	-	-	6.35	2.79	2.79	6.99	2.29	3.43	1.361	0.047	0.384	0.064	40K
OR066□○○○	11	26	32	39	54	64	69	75	86	6.60	2.67	2.54	7.24	2.29	3.18	1.363	0.048	0.412	0.065	40k
OR067□○○○	21	50	62	74	103	122	132	144	165	6.60	2.67	4.78	7.32	2.21	5.54	1.363	0.092	0.421	0.125	28K
OR068□○○○	14	33	42	50	70	81	89	95	112	6.86	3.96	5.08	7.62	3.45	5.72	1.650	0.073	0.456	0.120	28K
OR078□○○○	11	25	31	37	52	62	66	73	83	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.569	0.110	20K
OR096□○○○	11	25	32	38	53	63	68	74	84	9.65	4.78	3.18	10.29	4.27	3.81	2.180	0.075	0.832	0.164	12K
OR097□○○○	14	32	40	48	66	78	84	92	105	9.65	4.78	3.96	10.29	4.27	4.57	2.180	0.095	0.832	0.206	12K
OR102□○○○	14	32	40	48	66	78	84	92	105	10.16	5.08	3.96	10.80	4.57	4.57	2.380	0.100	0.916	0.238	10k
OR112□○○○	11	26	32	38	53	63	68	74	85	11.18	6.35	3.96	11.90	5.89	4.72	2.690	0.091	1.112	0.244	4,800
OR127□○○○	12	27	34	40	56	67	72	79	90	12.70	7.62	4.75	13.46	6.99	5.51	3.120	0.114	1.423	0.356	4,000
OR166□○○○	15	35	43	52	72	88	92	104	115	16.51	10.16	6.35	17.40	9.53	7.11	4.110	0.192	2.378	0.789	2,000
OR172□○○○	19	43	53	64	89	105	114	123	142	17.27	9.65	6.35	18.03	9.02	7.11	4.140	0.232	2.553	0.960	2,000
OR203□○○○	14	32	41	49	68	81	87	96	109	20.32	12.70	6.35	21.10	12.07	7.11	5.090	0.226	3.500	1.150	1,600
OR229□○○○	19	43	54	65	90	106	115	124	144	22.86	13.97	7.62	23.62	13.39	8.38	5.670	0.331	4.380	1.877	750
OR234□○○○	22	51	63	76	105	124	135	146	169	23.57	14.40	8.89	24.30	13.77	9.70	5.880	0.388	4.640	2.281	750
OR270□○○○	32	75	94	113	157	185	201	217	251	26.92	14.73	11.18	27.70	14.10	11.99	6.350	0.654	6.030	4.153	540
OR330□○○○	28	61	76	91	127	150	163	176	-	33.02	19.94	10.67	33.83	19.30	11.61	8.150	0.672	8.990	5.477	360
OR343□○○○	16	38	47	57	79	93	101	109	-	34.29	23.37	8.89	35.20	22.60	9.83	8.950	0.454	9.730	4.063	390
OR358□○○○	24	56	70	84	117	138	150	162	-	35.81	22.36	10.46	36.70	21.50	11.28	8.980	0.678	10.580	6.088	324
OR400□○○○	35	81	101	121	168	198	215	233	-	39.88	24.13	14.48	40.70	23.30	15.37	9.840	1.072	13.010	10.548	240
OR467□○○○	59	135	169	202	281	330	360	-	-	46.74	24.13	18.03	47.60	23.30	18.92	10.740	1.990	17.800	21.373	120
OR468□○○○	37	86	107	128	178	210	228	-	-	46.74	28.70	15.24	47.60	27.90	16.13	11.630	1.340	17.800	15.584	135
OR508□○○○	32	73	91	109	152	179	195	-	-	50.80	31.75	13.46	51.70	30.90	14.35	12.730	1.250	20.990	15.913	60
OR571□○○○	60	138	172	207	287	338	368	-	-	57.15	26.39	15.24	28.00	25.60	16.10	12.500	2.290	6.160	28.625	60
OR572□○○○	33	75	94	112	156	185	200	-	-	57.15	35.56	13.97	58.00	34.70	14.86	14.300	1.444	26.420	20.649	60
OR610□○○○	83	192	240	288	400	470	512	-	-	62.00	32.60	25.00	63.10	31.37	26.27	14.370	3.675	31.270	52.810	27
OR740□○○○	89	206	257	309	429	-	-	-	-	74.10	45.30	35.00	75.20	44.07	36.27	18.380	5.040	44.410	92.635	16
OR777□○○○	30	68	85	102	142	-	-	-	-	77.80	49.23	12.70	78.90	48.00	13.97	20.000	1.770	48.890	35.400	40
OR778□○○○	35	85	107	128	178	-	-	-	-	77.80	49.23	15.90	78.90	48.00	17.20	20.000	2.270	48.890	45.400	32
OR888□○○○	24	57	71	85	119	-	-	-	-	88.90	66.00	15.90	90.03	64.74	17.20	24.100	1.830	32.920	44.103	24
OR1016□○○○	47	112	137	164	228	-	-	-	-	101.60	57.20	16.50	103.10	55.70	17.80	24.270	3.522	24.360	85.479	24

Powder Core Overview

Samwha provides full range of soft magnetic powder cores, Molybdenum Permalloy(MPP), High Flux, Sendust and Super Flux(Fe-Si). Because of excellent DC biased characteristics and low losses, they are widely used to inductors and reactors as well as transformers. Not only standardized but also customized dimensions and shapes are all available under the well-organized quality control system which ensure customer satisfaction.

Name	MPP	High Flux	Sendust	Super Flux
Materials	Fe-Ni-Mo alloy	Fe-Ni alloy	Fe-Si-Al alloy	Fe-Si alloy
Nickel content	80%	50%	0%	0%
Finish	Epoxy, Parylene-C, Plastic Case			
Sizes	From OD: 3.5mm to OD: 101.6mm			
Core Color	Grey	Khaki	Black	Light Blue
Materials Code	M	H	S	F
Permeabilities(μ)	26, 60, 125, 147, 160, 173, 200	26, 60, 125, 147, 160, 173, 200	26, 60, 75, 90, 125	60, 90
Flux Density(G)	7000	15000	10000	16000
Perm. Vs. DC bias	Better	Best	Good	Best
Core Loss	Lowest	Low	Medium	High
Density	8.0g/cm^3	7.5g/cm^3	6.0g/cm^3	6.5g/cm^3
Curie Temp.(℃)	450℃	500℃	500℃	700℃
Temp. Stability	Best	Better	Good	Good
Relative Cost	Highest	High	Low	Medium
Break-Down Voltage	500V min.			
Magnetic Characteristics	Low hysteresis and eddy current Losses	Excellent DC-Bias performance	Much lower core losses than Iron powder cores	Very high saturation flux density
	Excellent inductance stability under high DC bias conditions	Relatively low core losses	Good DC Bias performance	Execllent DC Bias performance
	Excellent temperature stability	Large energy Storage Capacity	Comparatively lower price among powder cores	Low core losses compared to Fe-Si Laminations
	High resistivity			High energy storage capacity
Major Applications	Low loss filter circuits	PFC chokes	PFC chokes	PFC chokes
	Transformers	Switching regulator inductors	Switching regulator inductors	SMPS choke inductors
	Loading coils	In-line noise filters	In-line noise filters	Boost reactors
	EMI/RF filters	Output chokes	Pulse transformers	UPS coke inductors
	Inductors		Flyback transformers	Switching regulator inductors

Core Identification

TOROID Core

OR 330 S 125

- 125 — Permeability(125μ), 026=26μ, 060=60μ, 075=75μ, 147=147μ
- S — Material code(S=Sendust), M=MPP, H=High Flux, F=Super flux
- 330 — Outer Diameter(33.0mm), 066=6.6mm, 127=12.7mm, 777=77.7mm
- OR — Samwha's toroidal core

BLOCK Core

SB 8320 F 060

- 060 — Permeability(60μ)
- F — Material code(F=Super Flux), S=Sendust
- 8320 — Length(80mm)+Width(30mm)+Thickness(20mm)
- SB — Samwha's Block core

E Core

SE 4022 F 060

- 060 — Permeability(60μ)
- F — Material code(F=Super Flux), S=Sendust
- 4022 — Outer Dimension(40mm) + Height(22mm) or Thickness
- SE — Samwha's E core

U Core

SU 3111 F 060

- 060 — Permeability(60μ)
- F — Material code(F=Super Flux), S=Sendust
- 3111 — Outer Dimension(31mm) + Height(11mm) or Thickness
- SU — Samwha's U core

Tolerance of A_L Value

Core dimensions	Tolerance of A_L value			
	Sendust	MPP	High Flux	Super Flux
OD 035 ~ OD 046	±15%	±12%		-
OD 063 ~ OD 112	±12%	±8%		±8%
OD 127 ~ OD 1016	±8%			
Block cores	±12%	-	-	±12%
E cores	±12%	-	-	
U cores	±12%	-	-	

Technical Information

- Magnetic design formulas
- Permeability vs. Frequency Curves
- Permeability vs. DC bias Curves
- Normal Magnetization Curves
- Permeability vs. AC Flux Density Curves
- Typical core losses Curves
- Temperature stability Curves
- Wire Table
- Winding Data
- Single Layer Capacity

Magnetic design formulas

Inductance of wound cores

The Inductance for given numbers of turns can be calculated by using the following equation.

$$L = \frac{0.4\pi\mu N^2 A \times 10^{-2}}{l}$$

$$L_N = A_L \times N^2 \times 10^{-3}$$

L = Inductance(μH)

μ = Core permeability

N = Number of turns

A = Core cross section area(cm^2)

l = Mean magnetic path length(cm)

L_N = Inductance at N turns(μH)

A_L = Nominal inductance(($\cap$H/N^2)

Permeability – Flux Density – Magnetizing Force

$$H = \frac{0.4\pi NI}{l} \quad \text{(Ampere's Law)}$$

$$Bmax = \frac{Erms \times 10^8}{4.44fAN} \quad \text{(Faraday's Law)}$$

$$\mu = \frac{B}{H}$$

H = Magnetizing force(oersteds)

N = Number of turns

I = Peak magnetizing current(amperes)

l = Mean magnetic path length(cm)

Bmax = Maximum flux density(gauss)

Erms = Voltage across coil(volts)

A = Core cross section area(cm^2)

f = Frequency(Hz)

μ = Material permeability

Inductance calculation by permeability vs. DC Bias Curves

- Inductor specification
  - Core part no.: OR400S125 ------- Sendust core
  - Number of winding : 20turns
  - Applied current : DC 10 Amperes
- Calculation procedure

  1) Inductance calculation at 0A

Magnetic design formulas

Inductance could be calculated by below equation.

$L_N = A_L \times N^2 \times 10^{-3}$

When permeability is 125, A_L value of OR400S125 would be 168nH/N² in the table at page 54, Therefore inductance at 0 ampere is calculated as below,

$L \text{ at } 0A = 168 \times 20^2 \times 10^{-3} = 67.2(\mu H)$

2) Magnetizing force(H:Oe) is calculated by Ampere's law to achieve the roll off.

$$H = \frac{0.4 \times \pi \times NI}{l} = \frac{0.4 \times \pi \times 20 \times 10}{9.84} = 25.53(Oe)$$

3) When the magnetizing force(H) is 25.53(Oe), yielding 68% of initial permeability on page 14. Therefore, the inductance at 10A is as below,

$L(10A) = 67.2 \times 0.68 = 45.70(\mu H)$

Core loss

Core loss may be subdivided into three principal components, hysteresis loss and eddy-current loss, residual loss. The energy consumed in magnetizing and demagnetizing magnetic material is called the hysteresis loss. It is proportional to the frequency and to the area inside the hysteresis loop for the material used. As far as hysteresis loss and residual loss in powder cores, they are exceptionally low.

$$\frac{Rac}{\mu L} = aBmaxf + cf + ef^2$$

- Eddy current loss
- Residual loss
- Hysteresis loss
- Total loss factor

Rac=effective resistance(ohms)
a= hysteresis loss coefficient
c= residual loss coefficient
e= eddy current loss coefficient
μ = material permeability
f = frequency(Hz)
L = inductance
Bmax = maximum flux density(gauss)

Magnetic design formulas

Effective Core Parameters

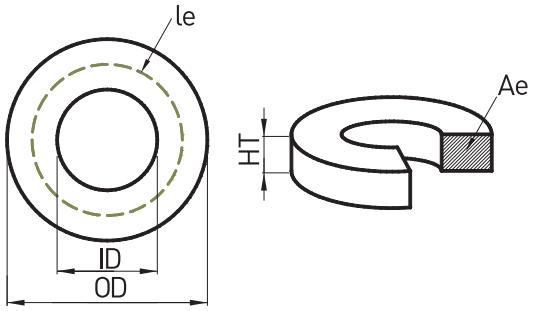
For toroidal powder cores, the effective area(A) is the same as the cross sectional area. By definition and Ampere's Law, the effective magnetic path length is the ratio of ampere-turns(NI) to the average magnetizing force across the core area from inside diameter to outside diameter. Using Ampere's Law and averaging the magnetizing force gives the formula for effective path length.

$$le = \frac{\pi(OD-ID)}{\ln\left(\frac{OD}{ID}\right)}$$

$$Ae = \frac{(OD-ID)}{2} \times HT$$

$$Ve = le \times Ae$$

$$Window\ Area(Wa) = \pi \times (ID/2)^2$$



OD = outside diameter of core, before coating(cm)
ID = inside diameter of core, before coating(cm)
HT = height of core, before coating(cm)
Ae = effective cross section area(cm^2)
le = effective mean magnetic path length(cm)
Ve = effective core volume(cm^3)

Q Factor

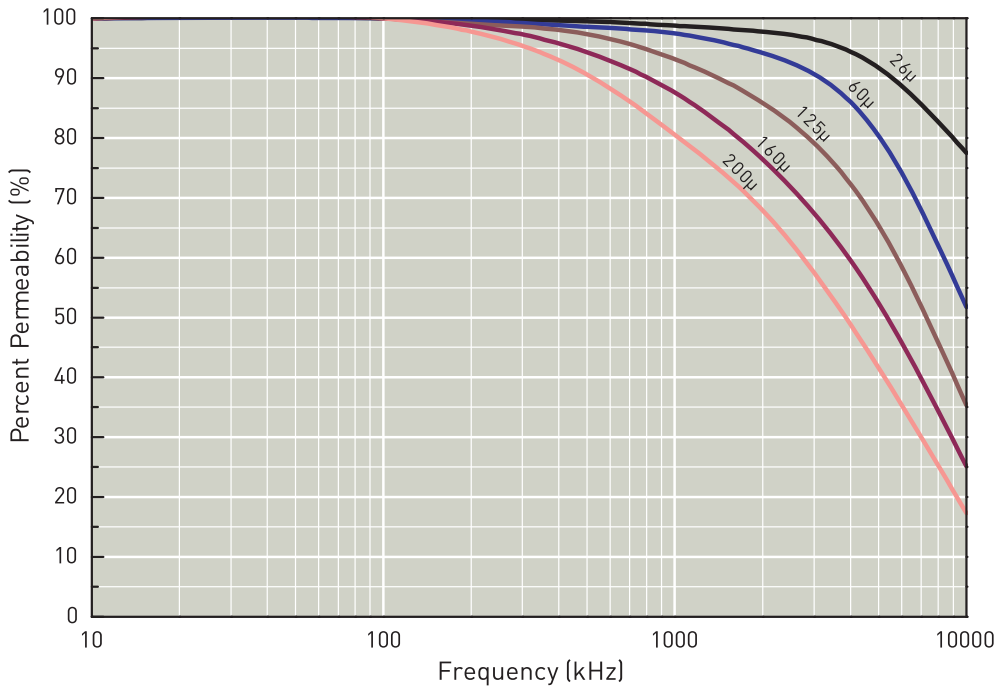
The Q factor is defined as the ratio of reactance to the effective resistance for an inductor and thus indicates its quality. The Q of wound core can be calculated using the following formula, when neglecting the effects of self-resonance caused by the distributed capacitance resulting from the differential voltage between adjacent turns.

$$Q = \frac{\omega L}{Rdc+Rac+Rd} = \frac{Reactance}{Total\ Resistance}$$

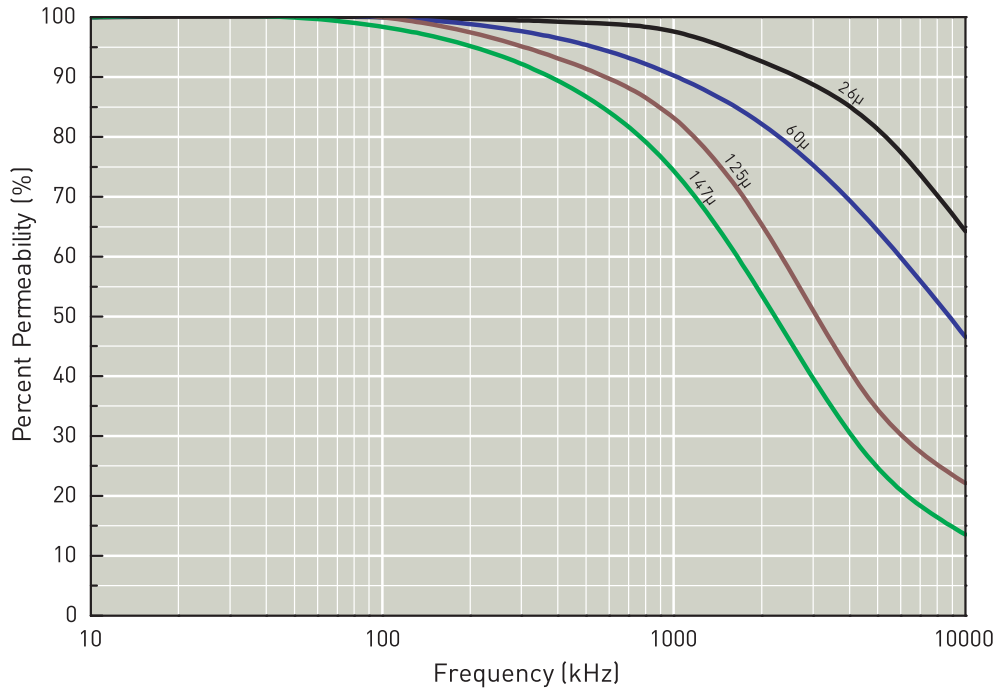
Q = quality factor
$\omega = 2\pi f(Hz)$
L = inductance(H)
Rdc =DC winding resistance (ohm)
Rac = resistance due to core loss (ohm)
Rd = resistance due to winding dielectric loss (ohm)

Permeability vs. Frequency Curves

MPP

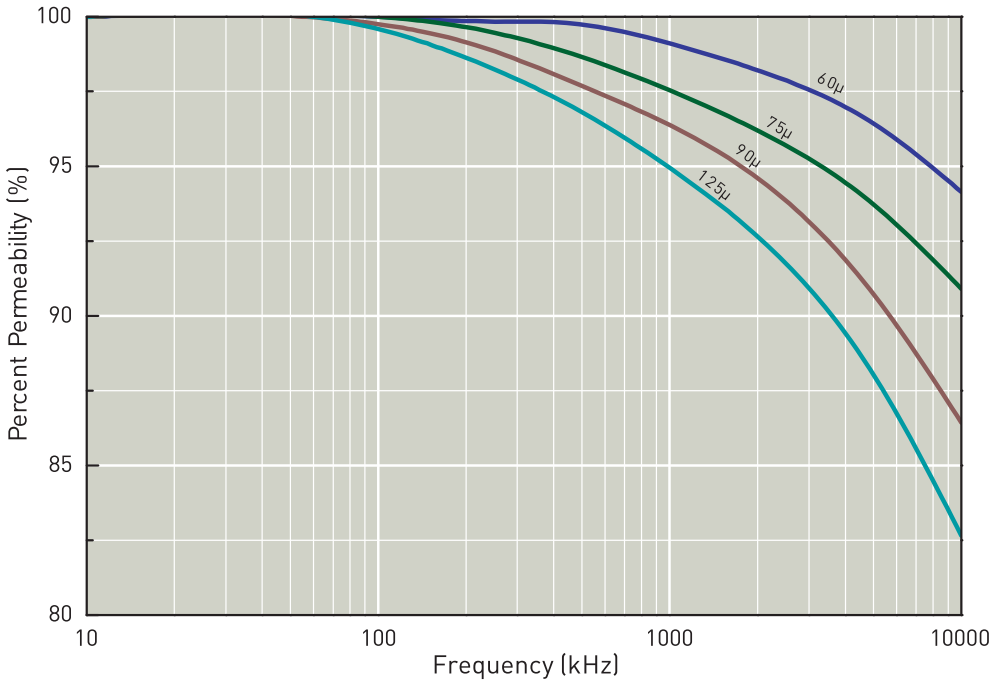


High Flux

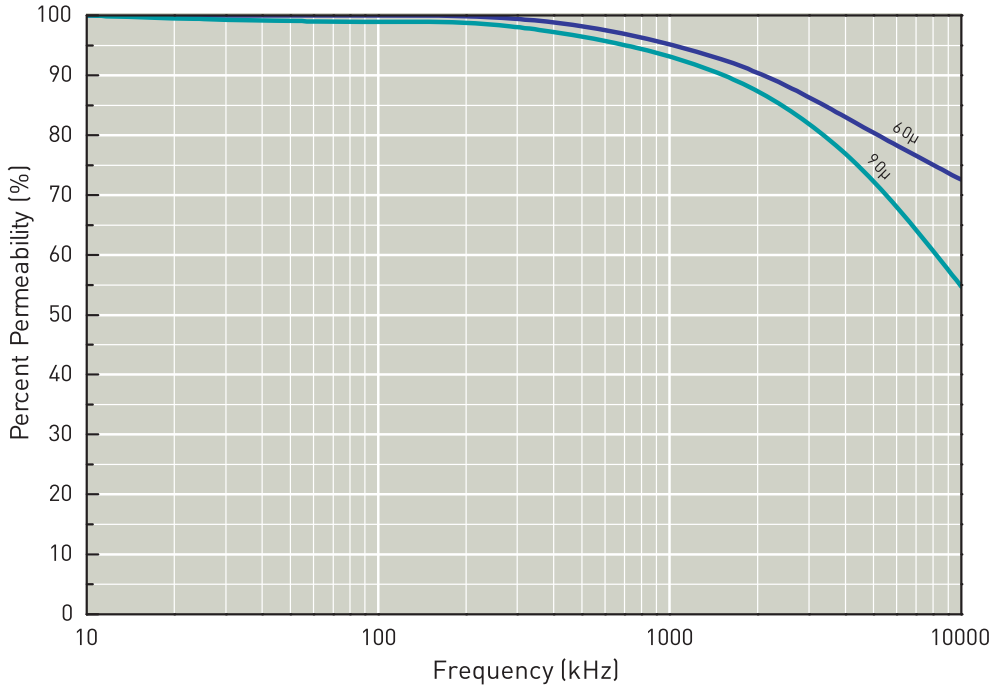


Permeability vs. Frequency Curves

Sendust

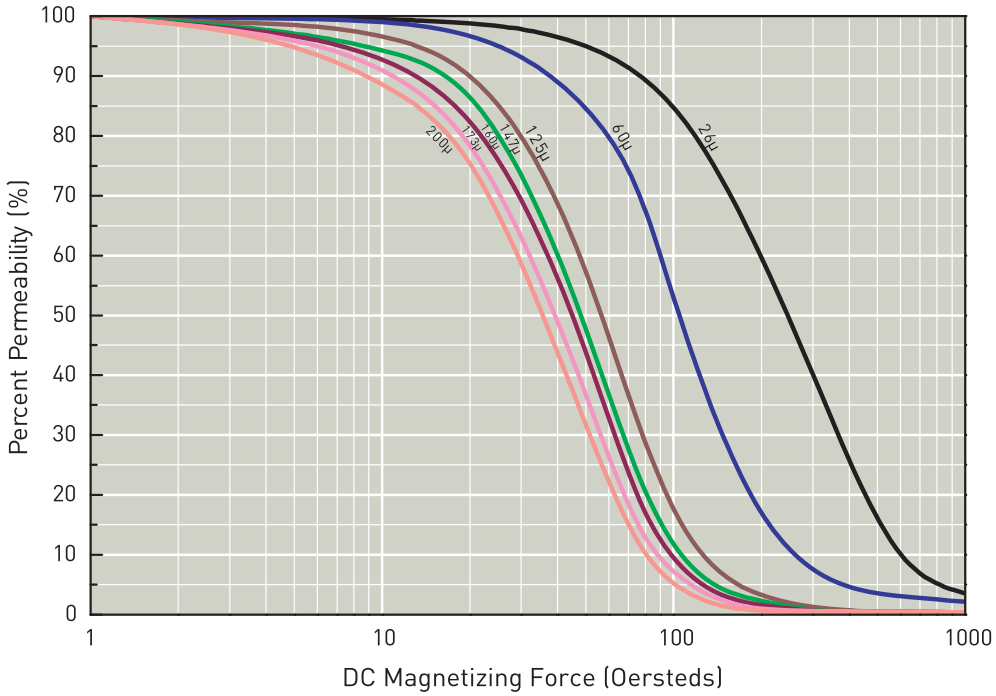


Super Flux

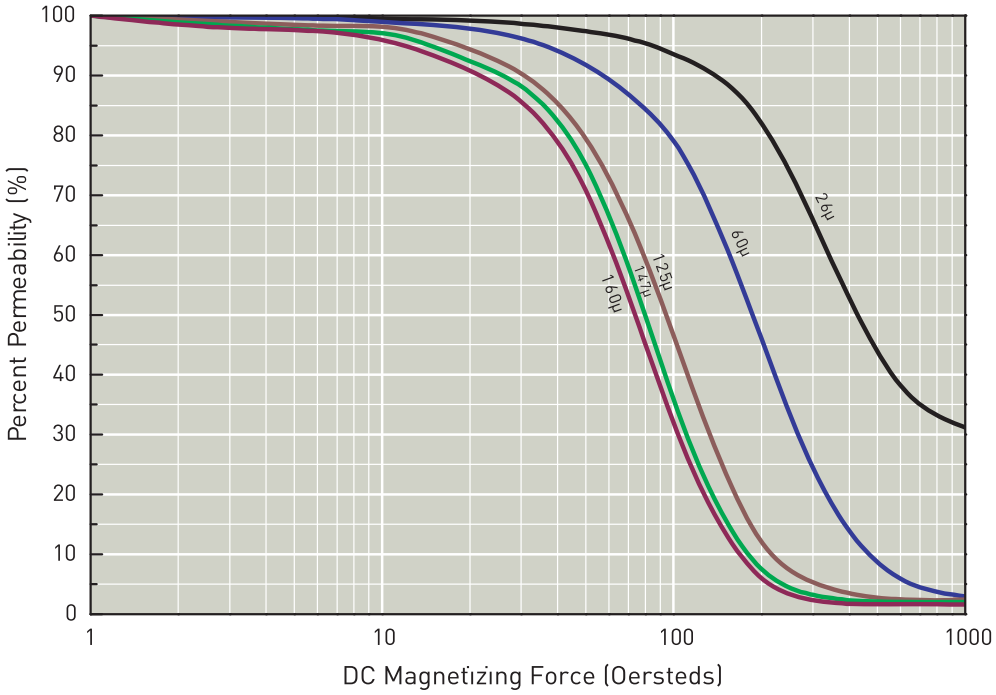


Permeability vs. DC bias Curves

≫MPP

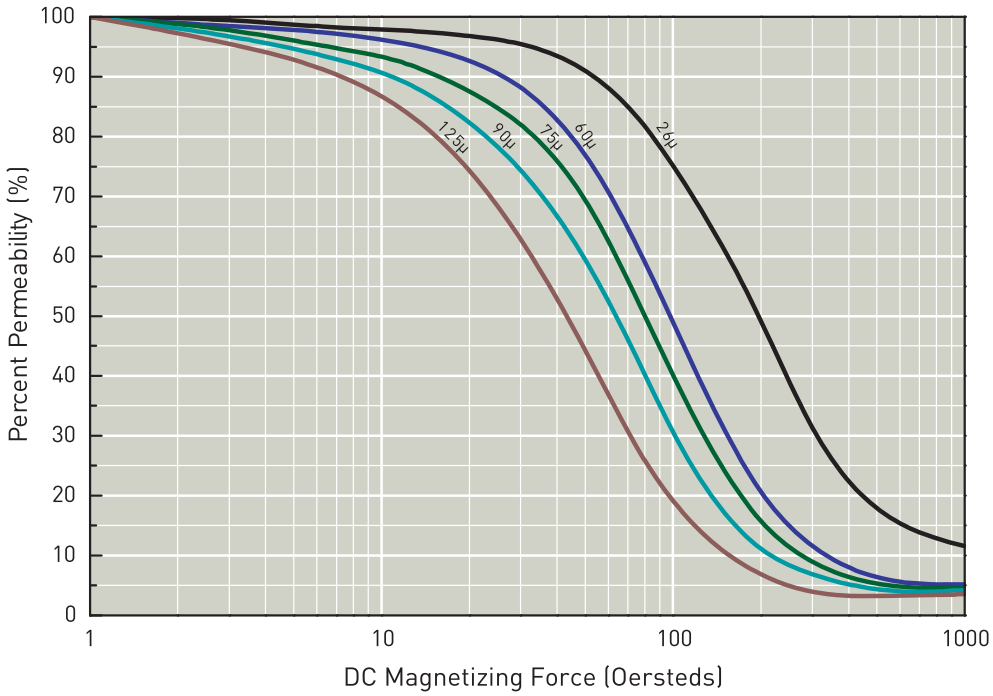


≫High Flux

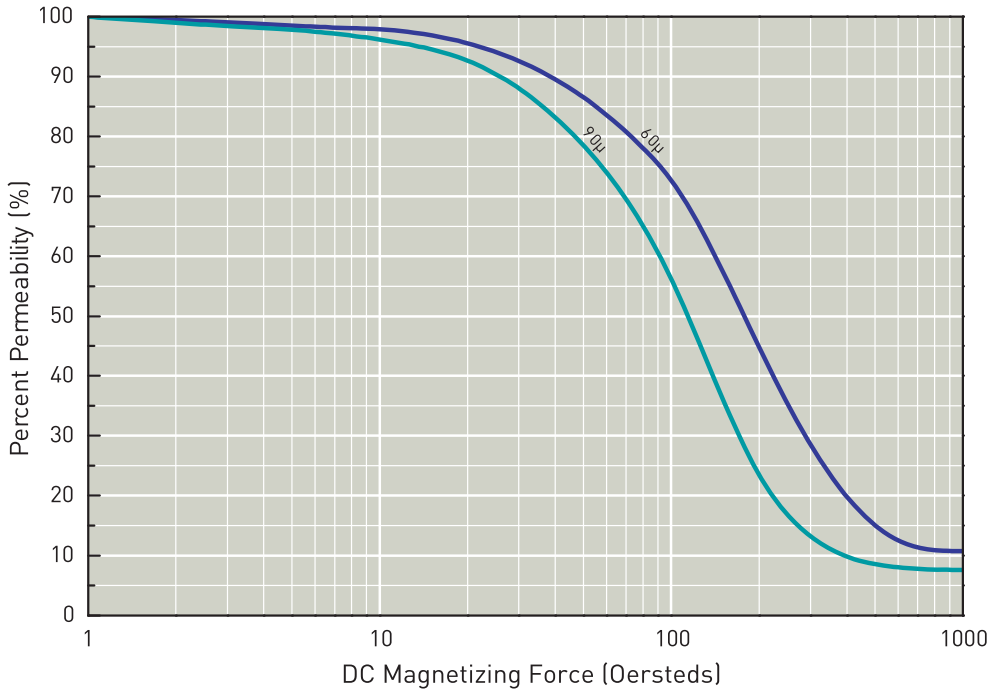


Permeability vs. DC bias Curves

Sendust

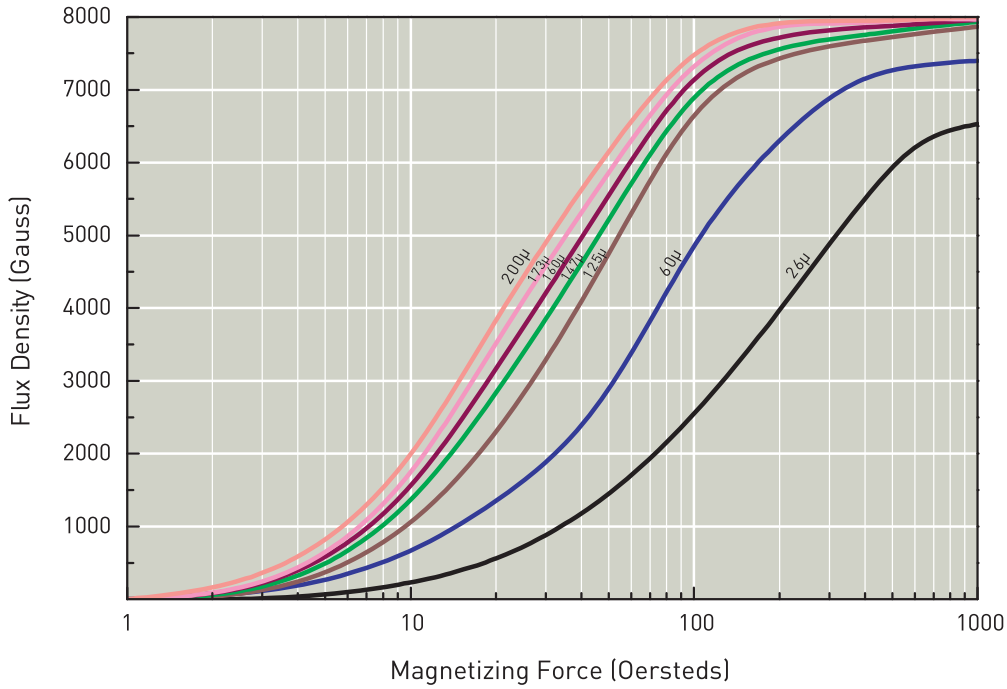


Super Flux

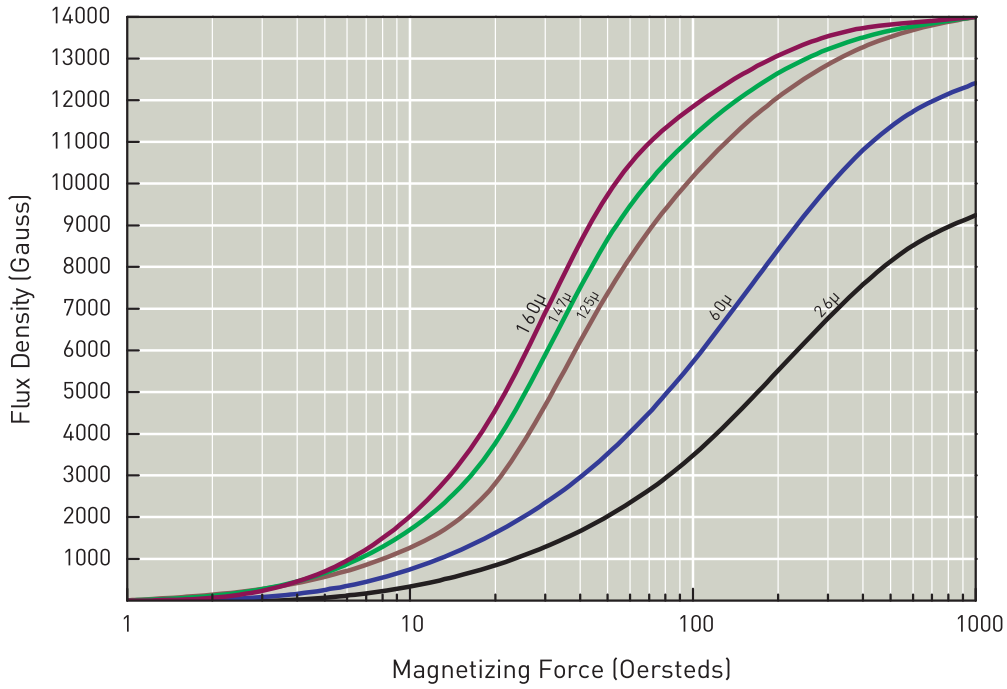


Normal Magnetization Curves

≫MPP

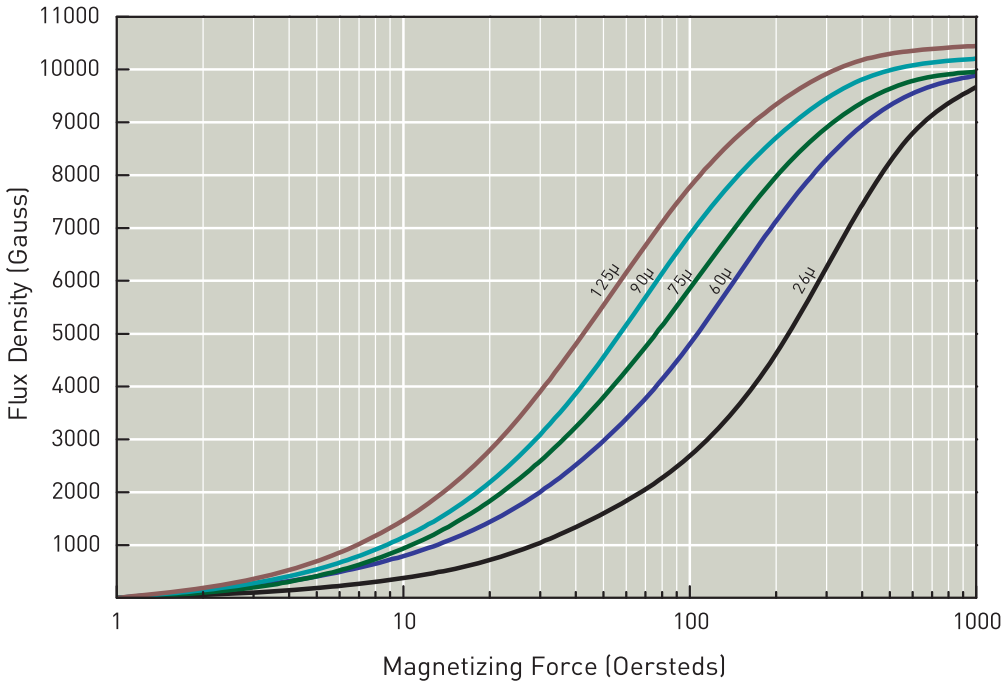


≫High Flux

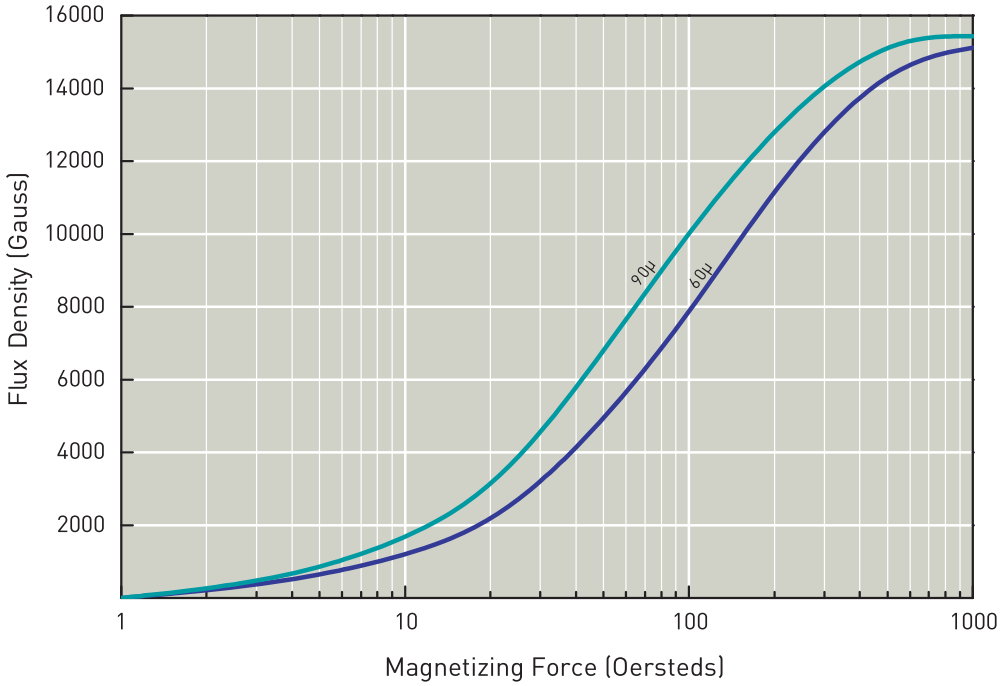


Normal Magnetization Curves

Sendust

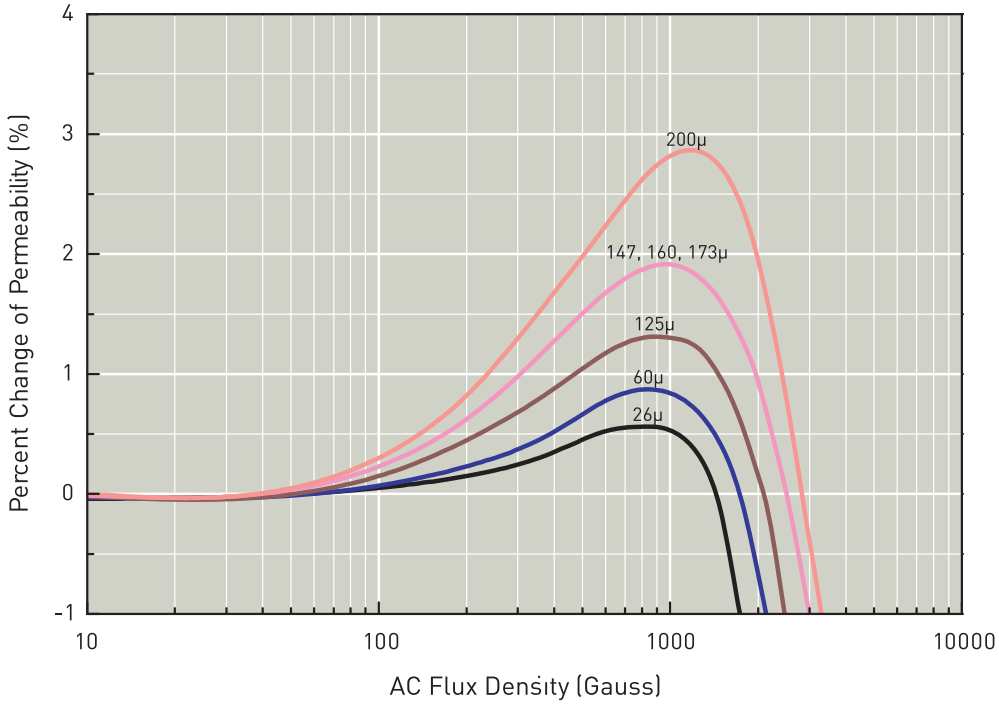


Super Flux

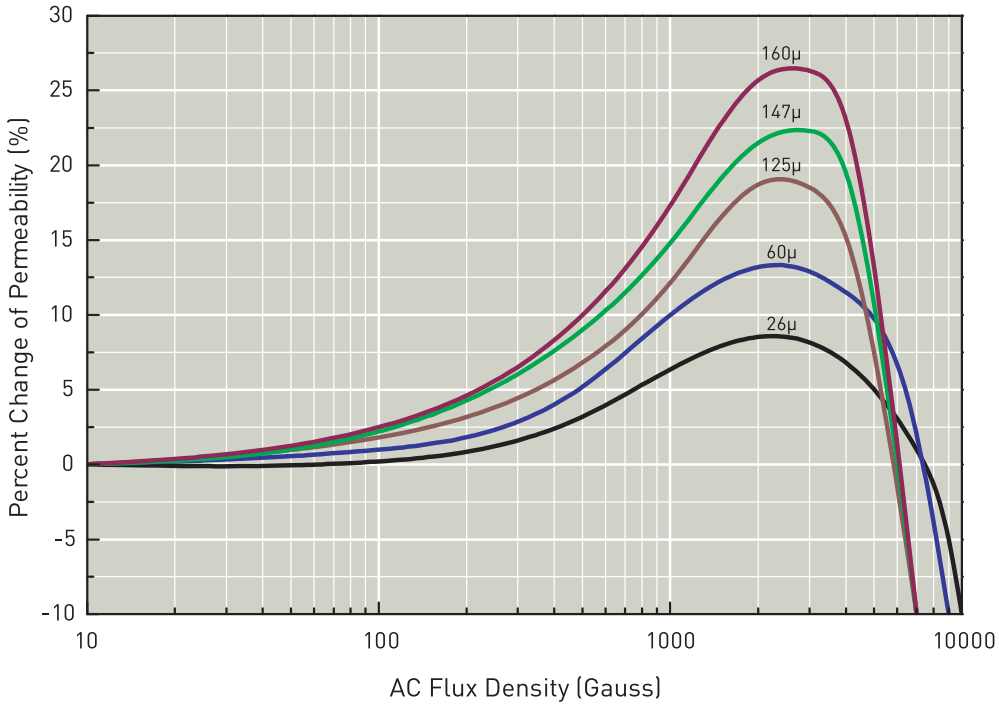


Permeability vs. AC Flux Density Curves

≫MPP

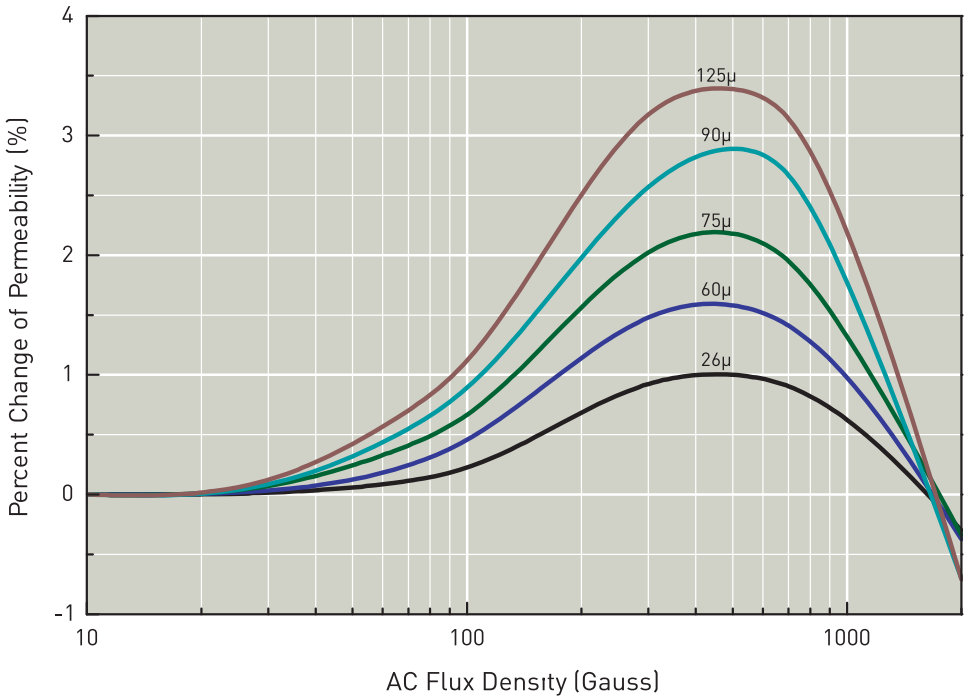


≫High Flux

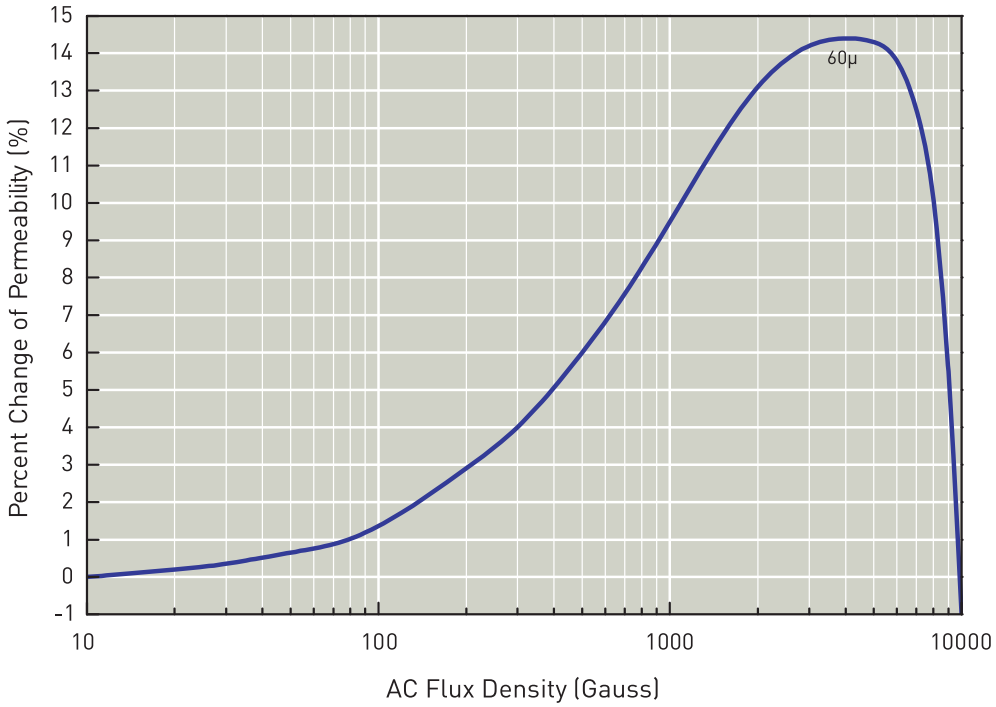


Permeability vs. AC Flux Density Curves

Sendust

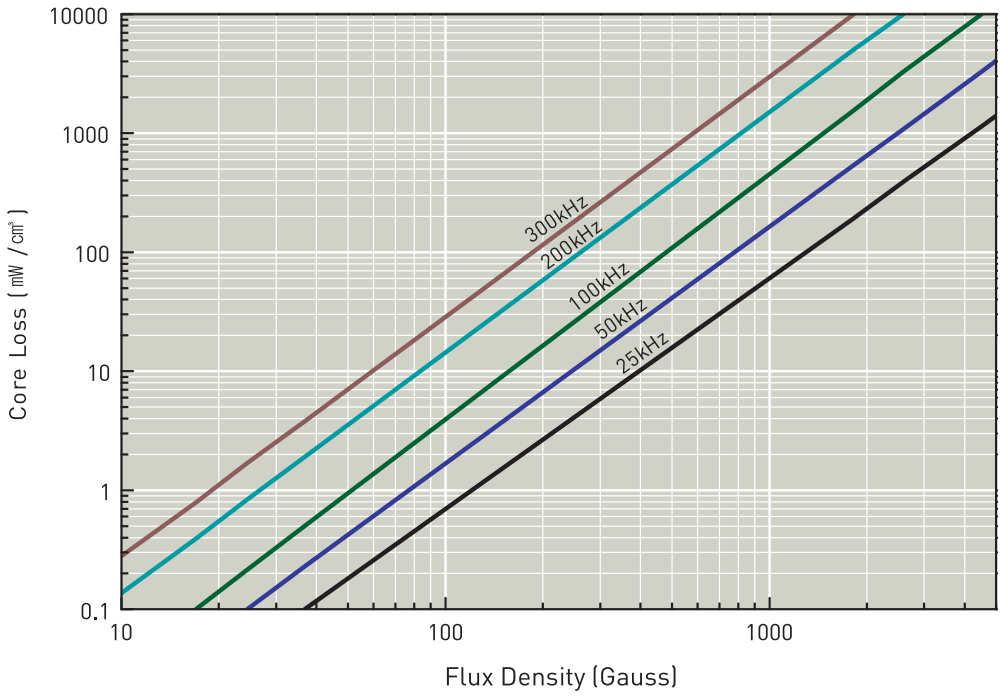


Super Flux

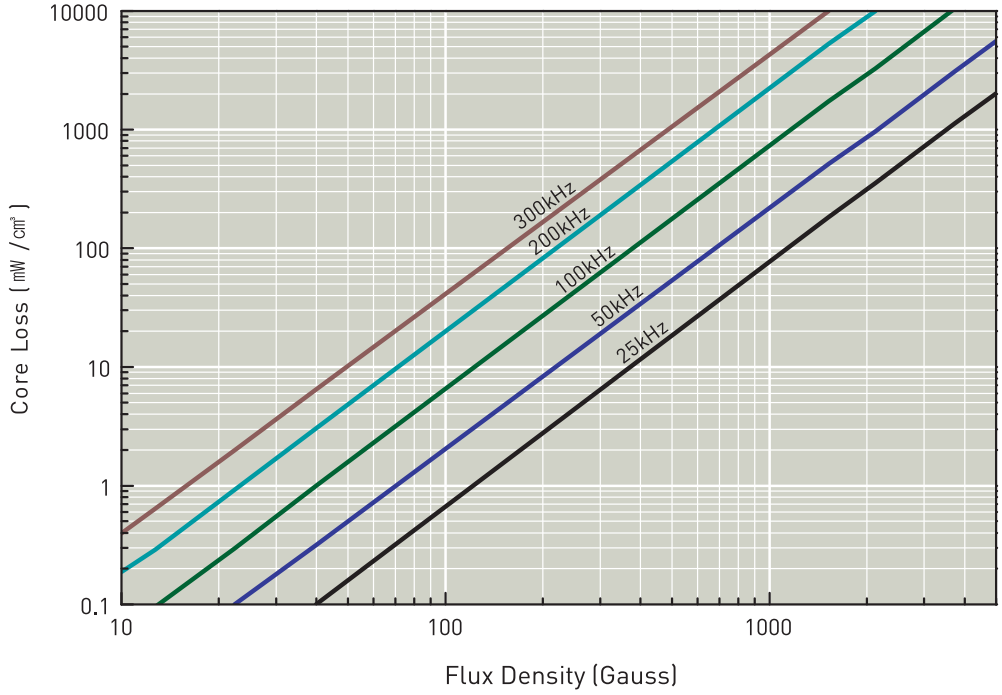


Typical core losses Curves - MPP

≫26, 60 μ

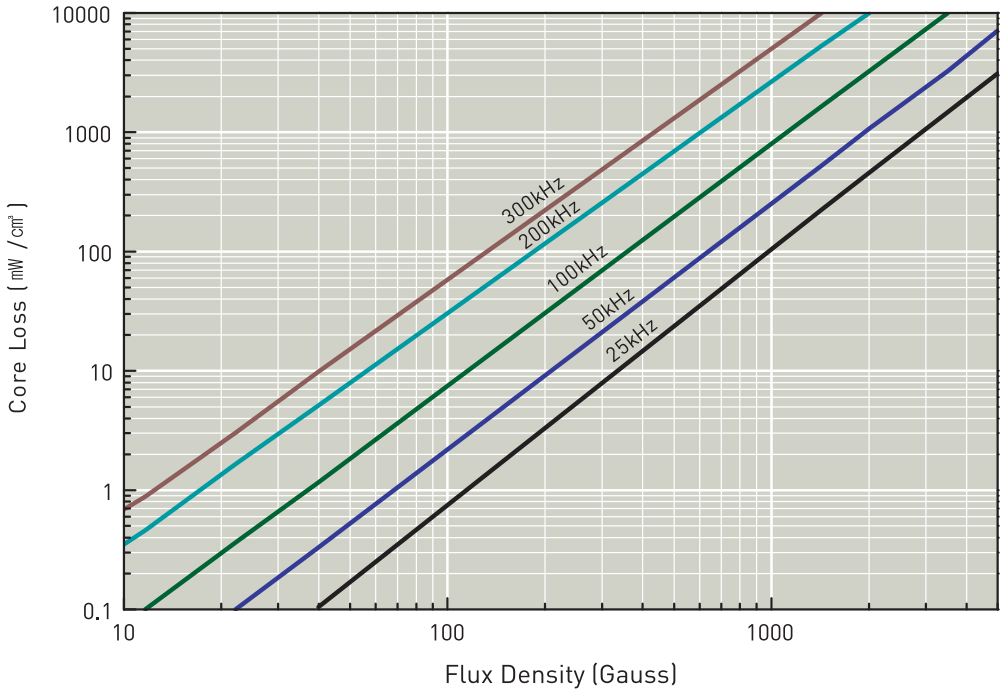


≫125 μ

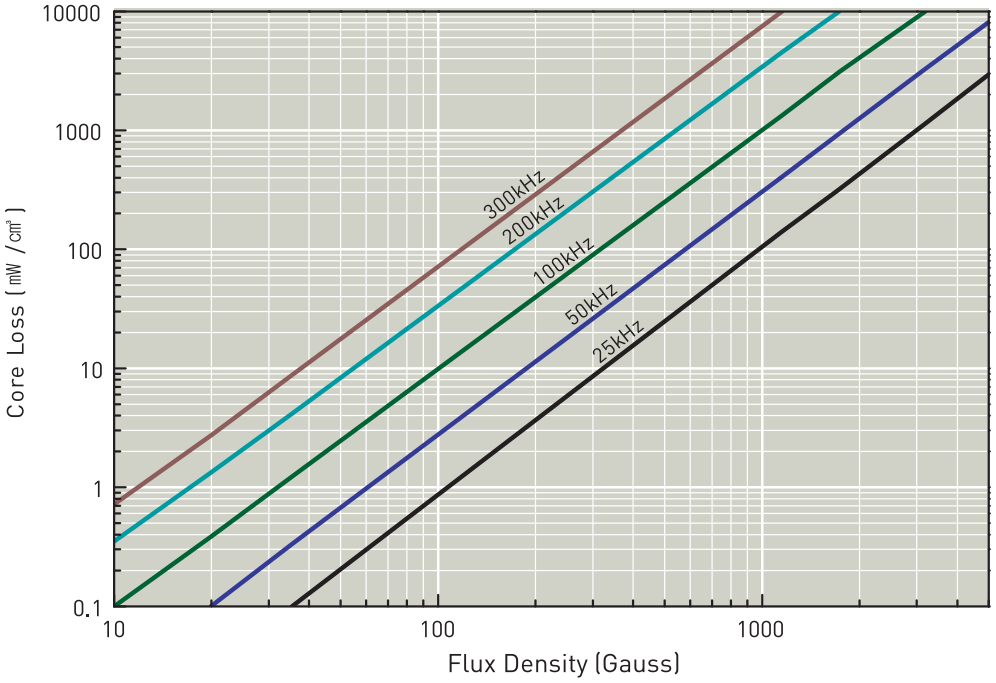


Typical core losses Curves - MPP

≫147, 160, 173 μ

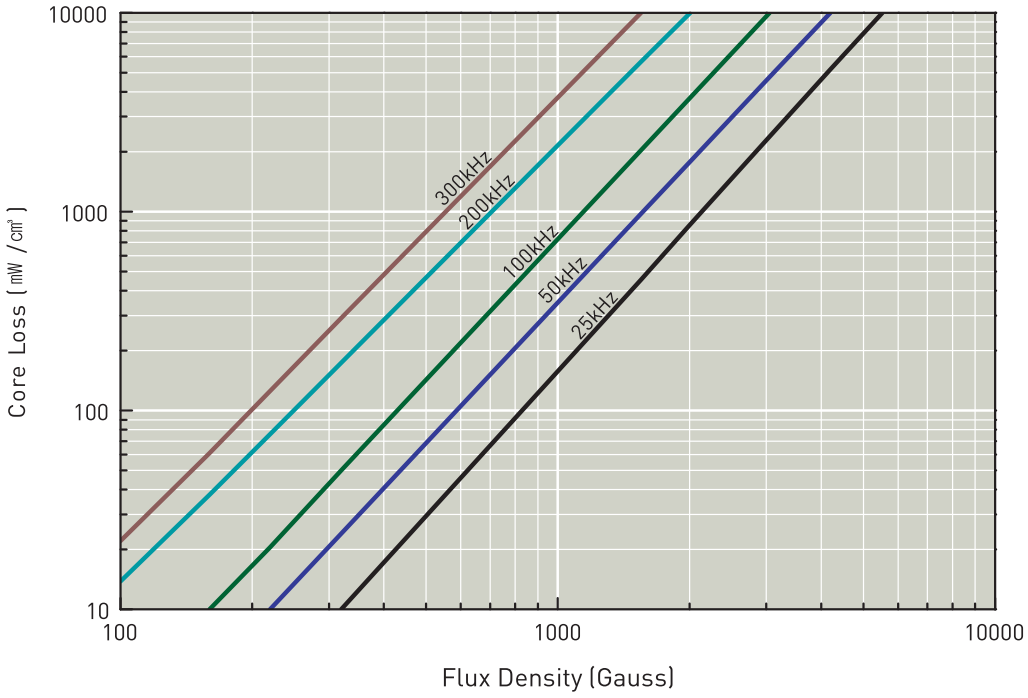


≫200 μ

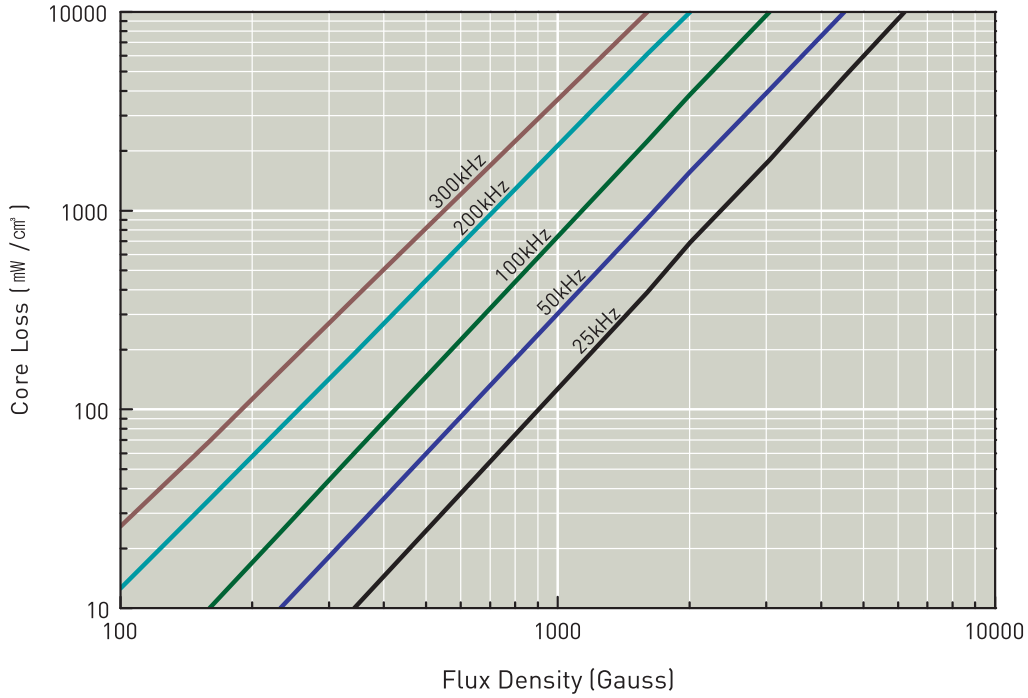


Typical core losses Curves - High Flux

≫26 μ

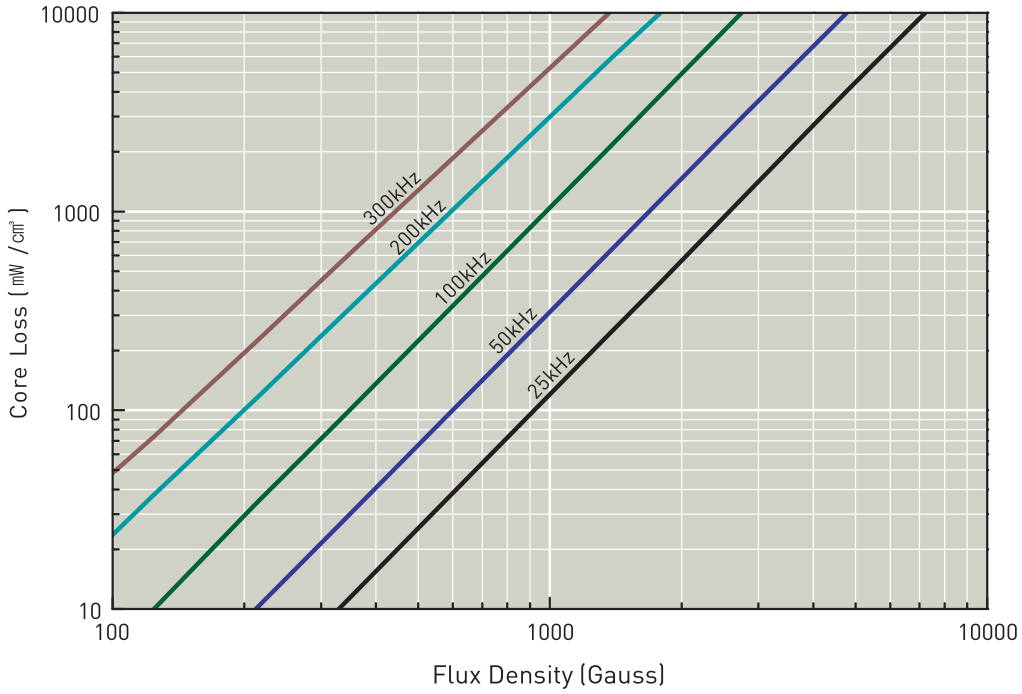


≫60 μ

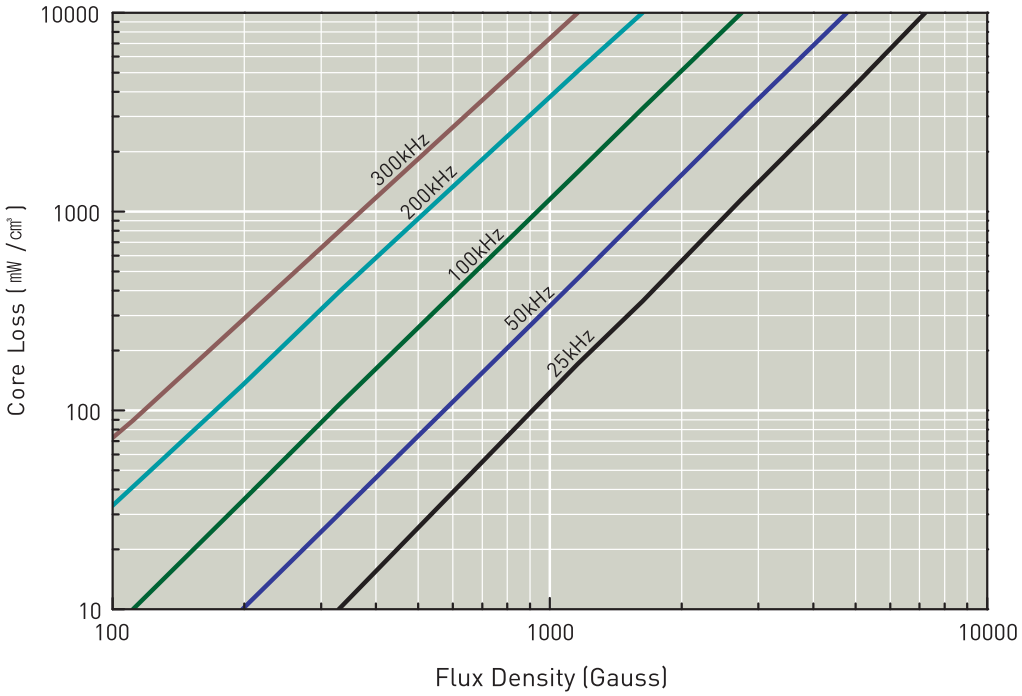


Typical core losses Curves - High Flux

≫125 μ

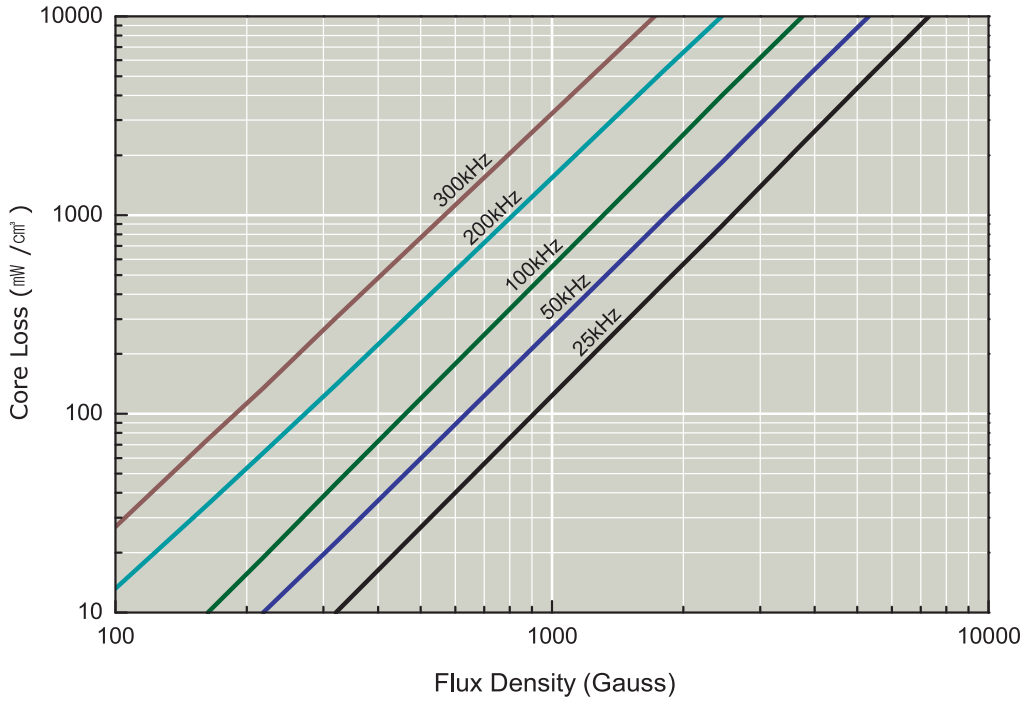


≫147, 160 μ

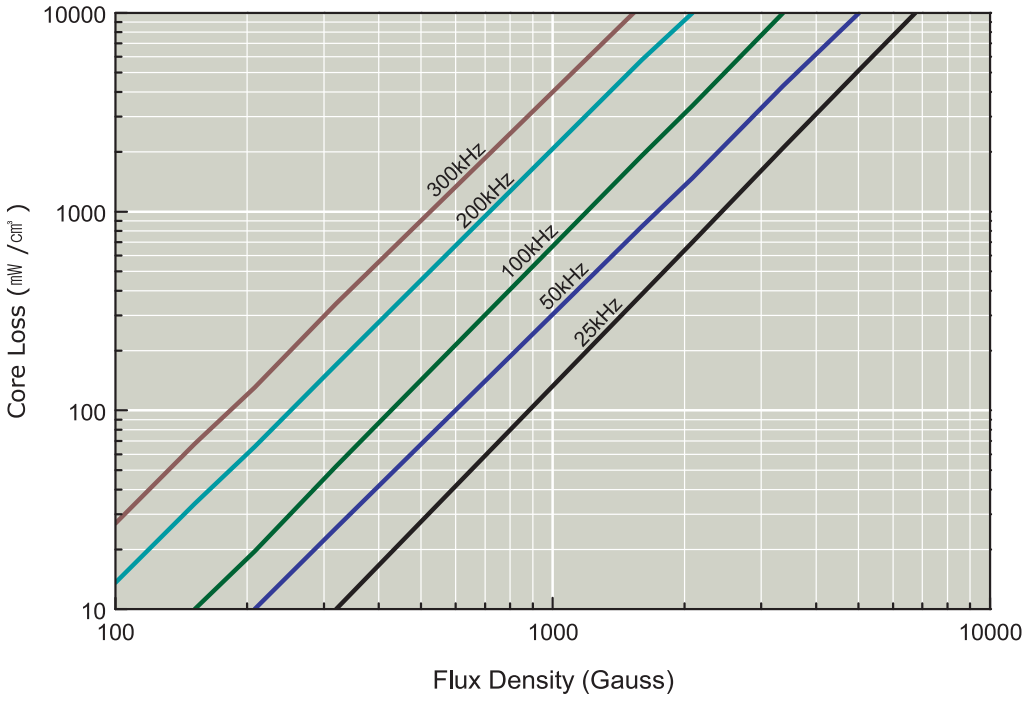


Typical core losses Curves - Sendust

≫26 μ

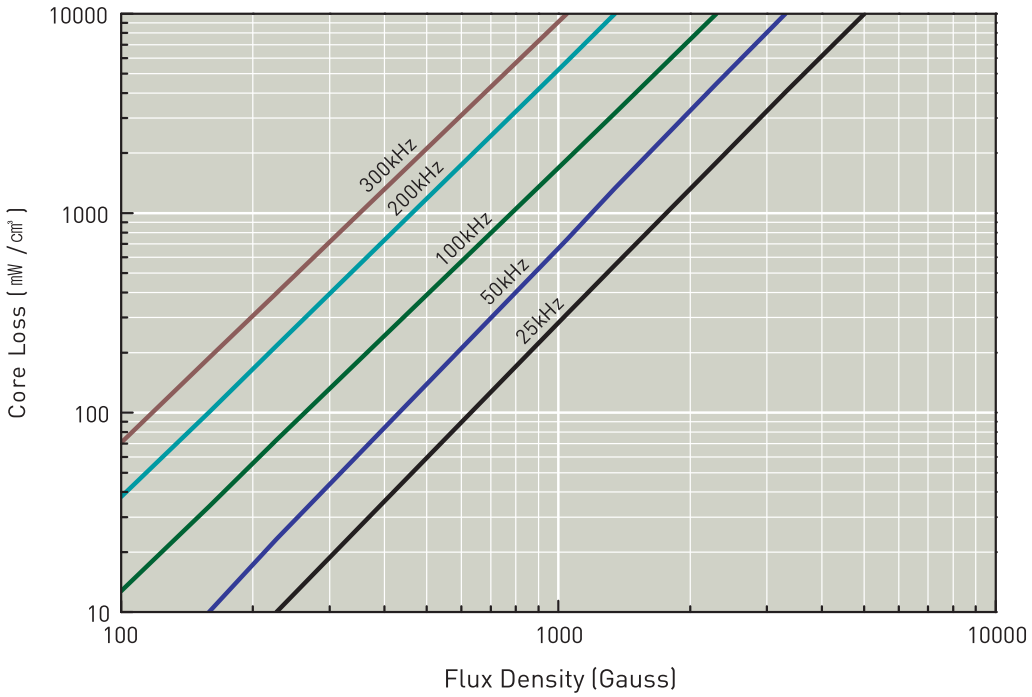


≫60, 75, 90, 125 μ



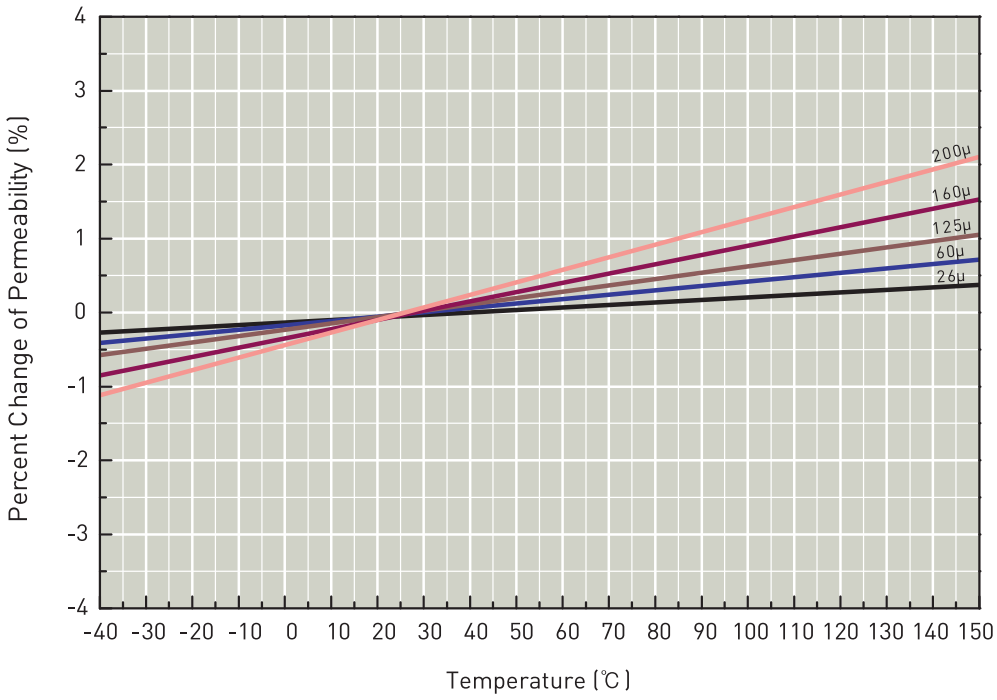
Typical core losses Curves - Super Flux

≫60, 90 μ

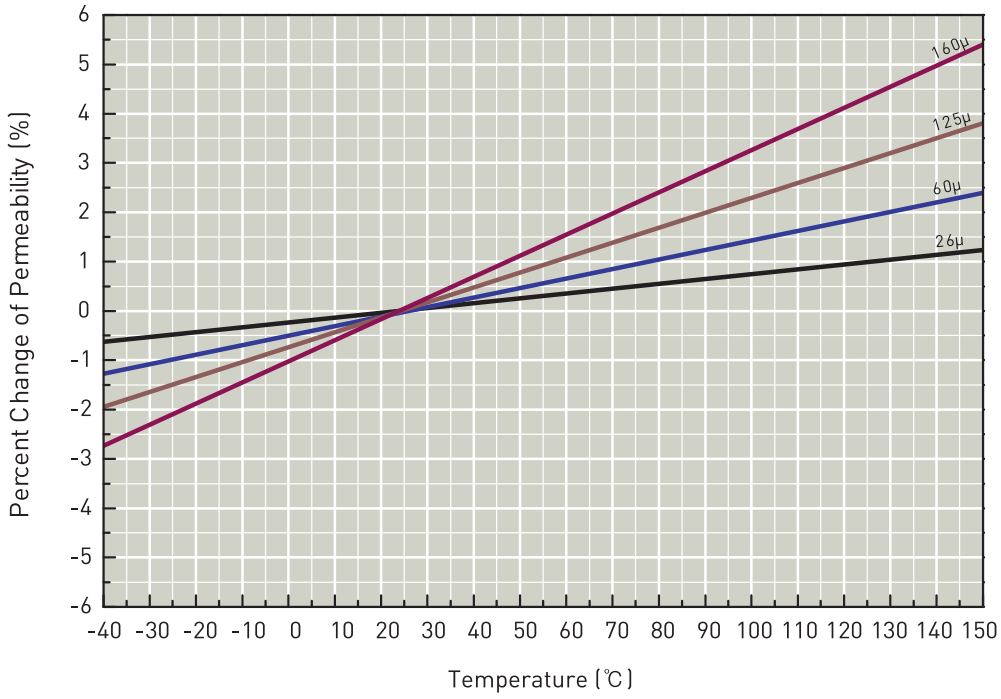


Temperature stability Curves

≫MPP

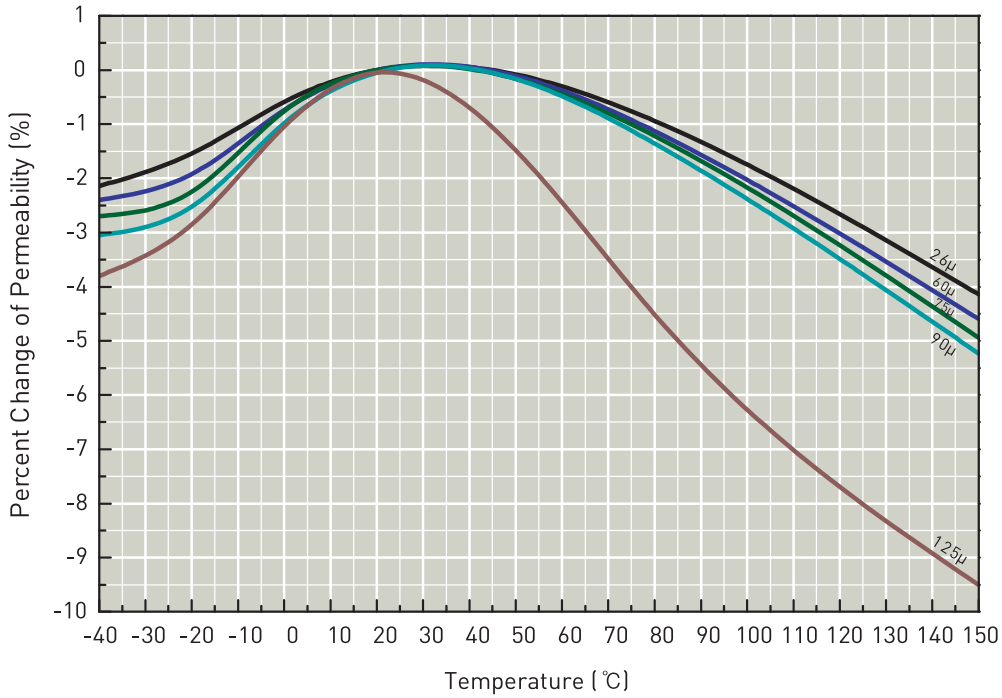


≫High Flux

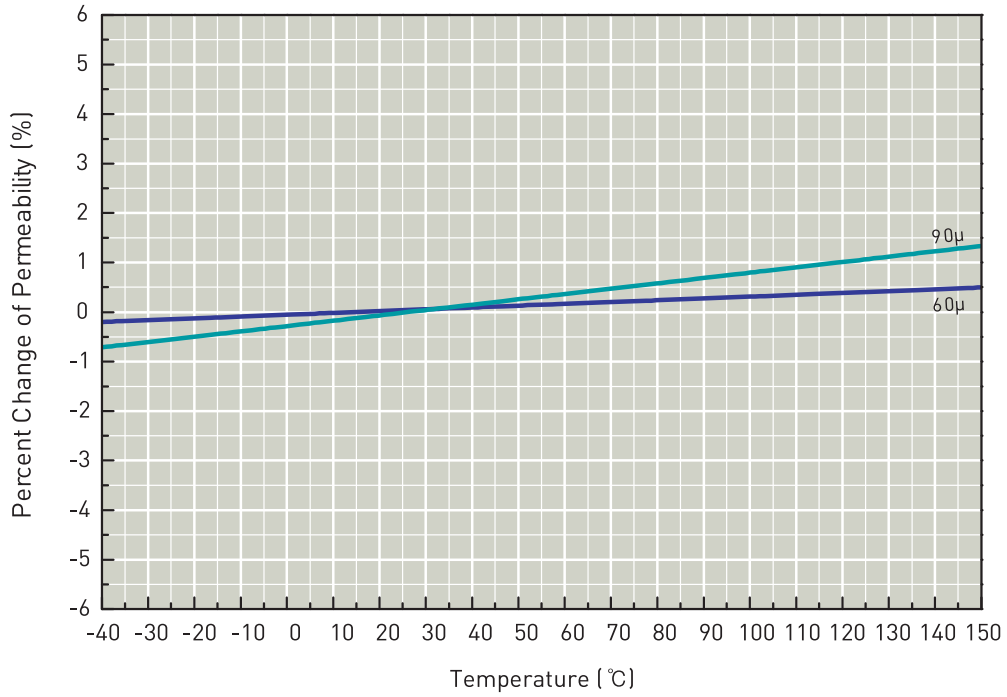


Temperature stability Curves

≫Sendust



≫Super Flux



Wire Table

AWG Wire Size No	Resistance Ω /meter	Wire O.D. (cm) (Heavy)	Wire Area		Current Capacity, Amps (listed by columns of amps/sq.cm.)			
			cm^2 ($x10^{-3}$)	Cir-Mils	200	400	600	800
8	0.00207	0.334	87.62	17295	16.5	33.0	49.5	66.0
9	0.00259	0.298	69.75	13768	13.1	26.2	39.3	52.4
10	0.00328	0.267	55.99	11052	10.4	20.8	31.2	41.6
11	0.00413	0.238	44.49	8782	8.23	16.4	24.6	32.8
12	0.00522	0.213	35.63	7034	6.53	13.1	19.6	26.1
13	0.00656	0.190	28.41	5609	5.18	10.4	15.5	20.8
14	0.00827	0.171	23.07	4555	4.11	8.22	12.3	16.4
15	0.01043	0.153	18.36	3625	3.26	6.52	9.78	13.0
16	0.01319	0.137	14.72	2906	2.58	5.16	7.74	10.3
17	0.01657	0.122	11.77	2323	2.05	4.10	6.15	8.20
18	0.02100	0.110	9.417	1859	1.62	3.25	4.88	6.50
19	0.02640	0.0980	7.543	1489	1.29	2.58	3.87	5.16
20	0.03320	0.0879	6.068	1198	1.02	2.05	3.08	4.10
21	0.04200	0.0785	4.840	955.4	0.812	1.63	2.44	3.25
22	0.05310	0.0701	3.859	761.9	0.640	1.28	1.92	2.56
23	0.06660	0.0632	3.137	619.3	0.511	1.02	1.53	2.04
24	0.08430	0.0566	2.516	496.7	0.404	0.808	1.21	1.62
25	0.1063	0.0505	2.003	395.4	0.320	0.641	0.962	1.28
26	0.1345	0.0452	1.605	316.7	0.253	0.506	0.759	1.01
27	0.1686	0.0409	1.314	259.3	0.202	0.403	0.604	0.806
28	0.2140	0.0366	1.0521	207.7	0.159	0.318	0.477	0.636
29	0.2660	0.0330	0.8553	168.8	0.128	0.255	0.382	0.510
30	0.3410	0.0295	0.6835	134.9	0.100	0.200	0.300	0.400
31	0.4300	0.0267	0.5599	110.525	0.0792	0.158	0.237	0.316
32	0.5310	0.0241	0.4562	90.047	0.0640	0.128	0.192	0.256
33	0.6760	0.0216	0.3664	72.334	0.0504	0.101	0.152	0.202
34	0.8560	0.0191	0.2850	56.264	0.0397	0.0794	0.119	0.159
35	1.086	0.0170	0.2275	44.911	0.0314	0.0627	0.0940	0.125
36	1.362	0.0152	0.1824	36.009	0.0250	0.0500	0.0750	0.100
37	1.680	0.0140	0.1533	30.257	0.0203	0.0405	0.0608	0.0810
38	2.130	0.0125	0.1217	24.031	0.0160	0.0320	0.0480	0.0640
39	2.780	0.01092	0.0937	18.488	0.0123	0.0245	0.0368	0.0490
40	3.510	0.00965	0.0731	14.4375	0.00961	0.0192	0.0288	0.0384
41	4.330	0.00864	0.0586	11.5735	0.00785	0.0157	0.0236	0.0314
42	5.450	0.00762	0.0456	9.0022	0.00625	0.0125	0.0188	0.0250
43	7.020	0.00686	0.0370	7.2960	0.00484	0.00968	0.0145	0.0194
44	8.500	0.00635	0.0317	6.2515	0.00400	0.00800	0.0120	0.0160
45	10.99	0.00546	0.0234	4.6219	0.00309	0.00618	0.00927	0.0124

Winding Data

Core Size	Window Area		Wire Length / Turn				Wound Dimension(unity)			
			100% (unity)		0%		OD(max)		HT(max)	
	cm^2	Cir-Mils	cm	ft	cm	ft	cm	in	cm	in
OR035	0.018	3,600	0.70	0.023	0.59	0.019	0.50	0.20	0.27	0.11
OR039	0.031	6,080	1.05	0.034	0.89	0.029	0.58	0.23	0.48	0.19
OR046	0.029	5,780	1.14	0.037	0.99	0.032	0.67	0.26	0.49	0.20
OR063	0.041	8,100	1.35	0.044	1.16	0.038	0.88	0.35	0.54	0.21
OR066	0.041	8,100	1.33	0.044	1.13	0.037	0.91	0.36	0.51	0.20
OR067	0.038	7,570	1.75	0.057	1.62	0.053	0.92	0.36	0.74	0.29
OR068	0.094	18,500	1.79	0.059	1.56	0.051	0.96	0.38	1.00	0.39
OR078	0.092	18,200	1.60	0.052	1.27	0.042	1.10	0.43	0.67	0.27
OR096	0.143	28,200	1.79	0.059	1.37	0.045	1.34	0.53	0.74	0.29
OR097	0.143	28,200	1.93	0.063	1.52	0.050	1.34	0.53	0.82	0.32
OR102	0.164	32,400	1.99	0.065	1.54	0.051	1.41	0.55	0.85	0.33
OR112	0.273	53,800	2.20	0.072	1.55	0.051	1.57	0.62	0.90	0.35
OR127	0.383	75,600	2.49	0.082	1.75	0.057	1.82	0.72	1.15	0.45
OR166	0.712	140,600	3.22	0.106	2.20	0.072	2.37	0.93	1.52	0.60
OR172	0.638	126,000	3.67	0.120	2.33	0.076	2.49	0.98	1.63	0.64
OR203	1.143	225,600	3.67	0.120	2.33	0.076	2.92	1.15	1.74	0.68
OR229	1.407	277,700	4.29	0.141	2.70	0.089	3.26	1.28	1.98	0.78
OR234	1.488	293,800	4.49	0.147	3.00	0.098	3.35	1.32	2.14	0.84
OR270	1.560	308,000	5.23	0.172	3.76	0.123	3.73	1.47	2.40	0.94
OR330	2.926	577,600	5.93	0.195	3.78	0.124	4.67	1.84	2.80	1.10
OR343	3.994	788,500	5.87	0.193	3.23	0.106	5.01	1.97	2.90	1.14
OR358	3.643	719,100	6.22	0.204	3.78	0.124	5.11	2.01	2.96	1.17
OR400	4.269	842,700	7.38	0.242	4.81	0.158	5.64	2.22	3.52	1.39
OR467	4.269	842,700	8.66	0.284	6.22	0.204	6.38	2.51	3.87	1.53
OR468	6.109	1,206,000	8.34	0.274	5.20	0.171	6.63	2.61	3.98	1.57
OR508	7.518	1,484,000	8.51	0.279	4.95	0.162	7.24	2.85	4.06	1.60
OR571	5.137	1,014,000	9.02	0.296	6.46	0.212	7.57	2.98	3.40	1.34
OR572	9.478	1,871,000	9.33	0.306	5.30	0.174	8.13	3.20	4.44	1.75
OR777	17.98	3,550,000	10.40	0.341	5.90	0.194	11.20	4.40	5.43	2.14

Single layer Winding Capacity

Core Size		035	039 046	063	066 067	068 078	096 097	102	112	127	166	172	203	229	234	270	330	343	358	400	467	468	508	571	572	610	777
ID (mm)		1.58	2.04	2.29	2.29	3.45	4.27	4.57	5.89	6.99	9.53	9.02	12.07	13.39	13.77	14.10	19.30	22.60	21.50	23.30	23.32	27.90	30.90	25.60	34.70	31.37	48.00
Wire No.	Wire Ø (mm)	Turns / Single Layer																									
8	3.340																15	18	17	18	18	23	25	20	29	25	41
9	2.980														11	11	17	20	19	21	21	26	29	23	33	29	47
10	2.670													12	13	13	19	23	22	24	24	29	33	26	37	33	53
11	2.380												12	14	15	15	22	26	25	27	27	33	37	30	42	37	60
12	2.130												14	16	17	17	25	30	28	31	31	37	42	34	48	42	67
13	1.902										12	11	16	18	19	20	28	34	32	35	35	42	47	39	54	47	76
14	1.714										14	13	18	21	22	22	32	38	36	39	39	47	53	43	60	53	84
15	1.529										16	15	21	24	25	25	36	43	41	44	44	54	60	49	68	60	95
16	1.369								10	12	18	17	24	27	28	29	41	48	46	50	50	60	67	55	76	67	106
17	1.224								11	14	21	19	27	31	32	33	46	54	52	56	56	68	76	62	85	75	119
18	1.095								13	16	24	22	31	35	36	37	52	61	58	63	63	76	85	70	96	85	134
19	0.980								15	19	27	25	35	39	40	42	58	69	65	71	71	86	95	78	108	95	150
20	0.879						12	13	17	21	30	29	39	44	46	47	65	77	73	80	80	96	107	88	120	106	168
21	0.785						13	15	20	24	34	32	45	50	51	53	74	87	82	90	90	108	120	99	135	119	188
22	0.701						15	17	23	28	39	37	50	56	58	60	83	98	93	101	101	121	135	111	152	134	211
23	0.632						18	19	26	31	44	41	56	63	65	66	92	109	103	112	112	135	150	124	169	149	235
24	0.566					15	20	22	29	35	49	46	63	71	73	75	103	122	116	126	126	152	168	138	189	165	263
25	0.505					18	23	25	33	40	56	52	71	80	82	84	116	137	130	141	141	170	188	156	212	185	295
26	0.452			12	12	20	26	28	37	45	63	59	80	89	92	94											
27	0.409			14	13	23	29	31	42	50	70	66	89	99	102	105											
28	0.366		13	16	16	26	33	36	47	56	78	74	100	111													
29	0.330	11	15	18	17	29	37	40	52	63	87	82															
30	0.295	13	17	21	20	33	42	45	59	71	98	92															
31	0.267	14	20	23	22	37	47	50	66	79																	
32	0.241	16	22	26	25	41	52	56	73	87																	
33	0.216	18	25	30	28	46	58	63	82	98																	
34	0.191	21	29	34	33	53	67	72	93	112																	
35	0.170	24	33	38	37	60	75	81																			
36	0.152	28	37	44	42	67	84	91																			
37	0.140	31	41	48	46	73																					
38	0.125	35	43	54	52																						
39	0.109	40	53	62	60																						
40	0.097	46	61	71	68																						

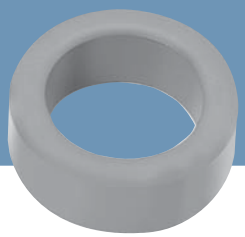
Memo

Core Data

TOROID Cores
BLOCK Cores
CYLINDER Cores
E Cores
U Cores

OD 035

ID 1.78mm
HT 1.52mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
3.56mm	1.78mm	1.52mm	3.94mm	1.52mm	1.96mm	0.0137cm^2	0.817cm	0.0181cm^2	0.0112cm^3
0.14in	0.07in	0.06in	0.155in	0.06in	0.077in	0.002in^2	0.322in	4000cmil	0.001in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	-	-	-	-	-	23.0286
60	13	OR035M060	OR035H060	OR035S060	OR035F060	9.9791
75	16	-	-	OR035S075	-	7.9833
90	19	-	-	OR035S090	OR035F090	6.6527
125	26	OR035M125	OR035H125	OR035S125	-	4.7900
147	31	OR035M147	-	-	-	4.0731
160	33	OR035M160	-	-	-	3.7422
173	-	-	-	-	-	3.4610
200	-	-	-	-		2.9937

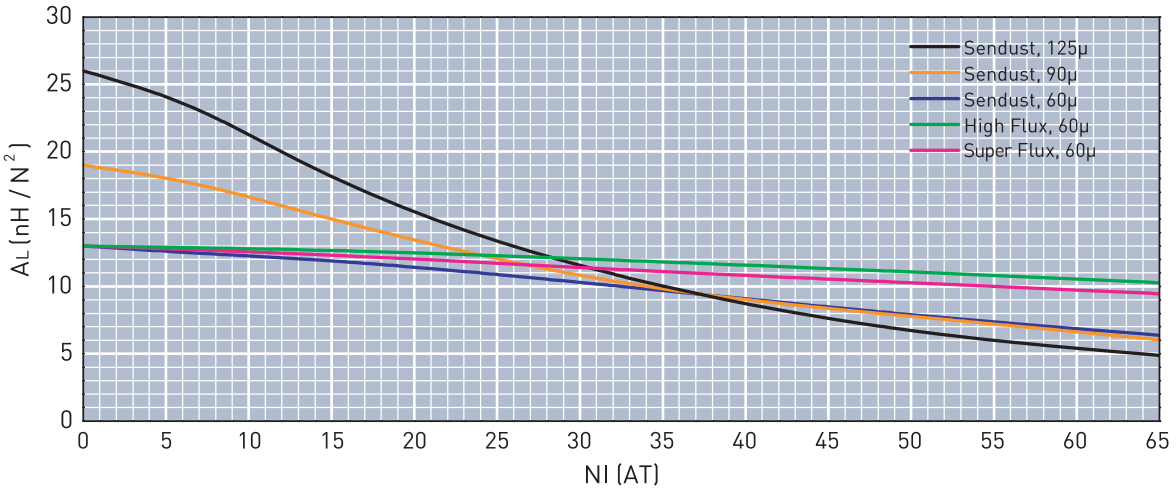
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
29	0.033	11	0.0174
30	0.030	13	0.0263
31	0.027	14	0.0357
32	0.024	16	0.0506
33	0.022	18	0.0723
34	0.019	21	0.1070

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
35	0.017	24	0.1550
36	0.015	28	0.2270
37	0.014	31	0.3100
38	0.012	35	0.4420
39	0.011	40	0.6610
40	0.010	46	0.9600

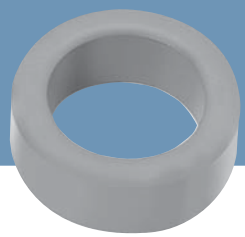
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
41	0.009	52	1.3400
42	0.008	59	1.9100
43	0.007	66	2.7600
44	0.006	72	3.6400
45	0.005	84	4.7800
46	0.005	92	7.5500

A_L value vs. DC Bias characteristics



OD 039

ID 2.24mm
HT 2.54mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
3.94mm	2.24mm	2.54mm	4.32mm	1.98mm	2.97mm	0.0211cm^2	0.942cm	0.0308cm^2	0.0199cm^3
0.155in	0.088in	0.1in	0.17in	0.078in	0.117in	0.003in^2	0.371in	6000cmil	0.001in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	-	-	-	-	-	15.7623
60	17	OR039M060	OR039H060	OR039S060	OR039F060	6.8303
75	21	-	-	OR039S075	-	5.4643
90	25	-	-	OR039S090	OR039F090	4.5536
125	35	OR039M125	OR039H125	OR039S125	-	3.2786
147	41	OR039M147	-	-	-	2.7879
160	45	OR039M160	-	-	-	2.5614
173	-	-	-	-	-	2.3689
200	-	-	-	-	-	2.0491

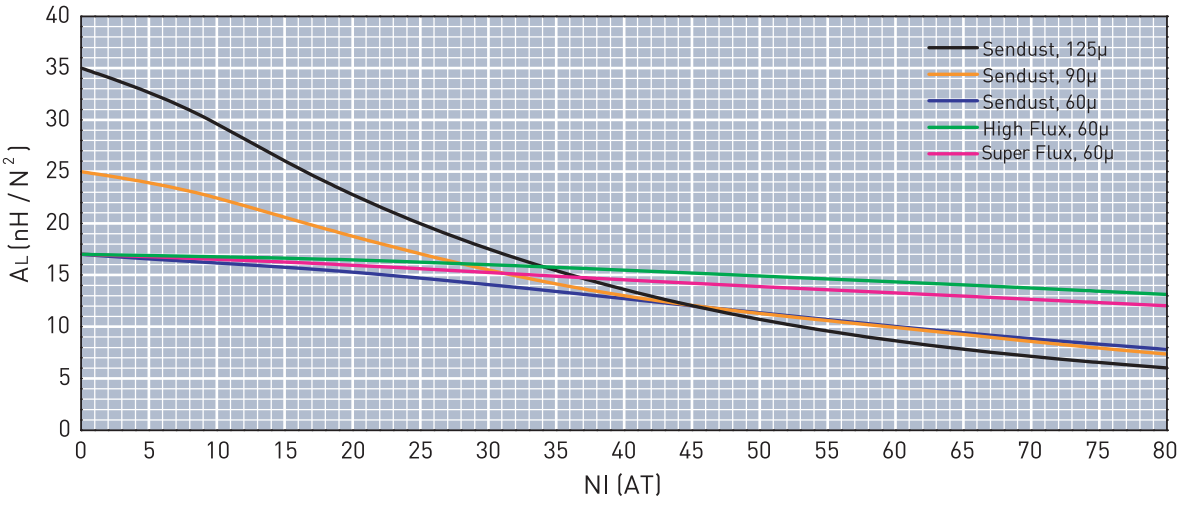
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
28	0.037	13	0.0249
29	0.033	15	0.0357
30	0.030	17	0.0518
31	0.027	20	0.0768
32	0.024	22	0.1040
33	0.022	25	0.1510

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
34	0.019	29	0.2220
35	0.017	33	0.3200
36	0.015	37	0.4500
37	0.014	41	0.6150
38	0.012	46	0.8730
39	0.011	53	1.3200

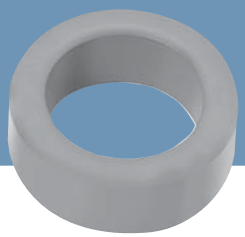
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
40	0.010	61	1.9100
41	0.009	68	2.6300
42	0.008	78	3.7900
43	0.007	87	5.4600
44	0.006	94	7.1300
45	0.005	110	10.800

A_L value vs. DC Bias characteristics



OD 046

ID 2.36mm
HT 2.54mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
4.65mm	2.36mm	2.54mm	5.21mm	1.93mm	3.3mm	0.0285cm^2	1.06cm	0.0293cm^2	0.0302cm^3
0.183in	0.093in	0.1in	0.205in	0.076in	0.13in	0.004in^2	0.417in	6000cmil	0.002in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	-	-	-	-	-	13.1994
60	20	OR046M060	OR046H060	OR046S060	OR046F060	5.7197
75	25	-	-	OR046S075	-	4.5758
90	30	-	-	OR046S090	OR046F090	3.8132
125	42	OR046M125	OR046H125	OR046S125	-	2.7455
147	49	OR046M147	-	-	-	2.3346
160	53	OR046M160	-	-	-	2.1449
173	-	-	-	-	-	1.9837
200	-	-	-	-	-	1.7159

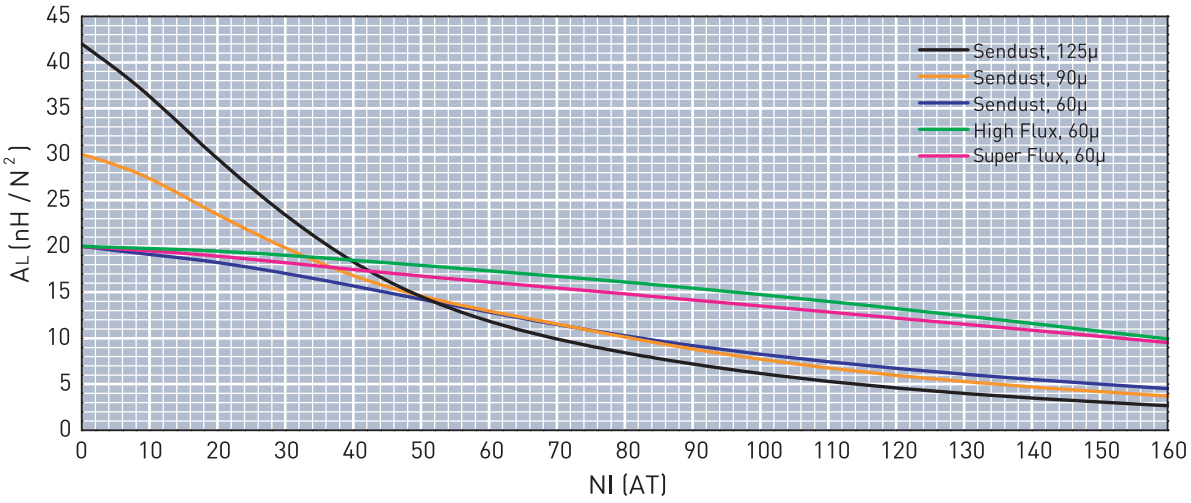
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
27	0.041	11	0.0183
28	0.037	13	0.0275
29	0.033	15	0.0395
30	0.030	17	0.0572
31	0.027	19	0.0807
32	0.024	22	0.1150

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
33	0.022	24	0.1600
34	0.019	28	0.2370
35	0.017	32	0.3430
36	0.015	36	0.4840
37	0.014	40	0.6640
38	0.012	45	0.9440

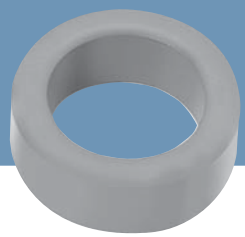
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
39	0.011	52	1.4300
40	0.010	59	2.0500
41	0.009	67	2.8600
42	0.008	76	4.0800
43	0.007	85	5.9000
44	0.006	92	7.7200

A_L value vs. DC Bias characteristics



OD 063

ID 2.79mm
HT 2.79mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
6.35mm	2.79mm	2.79mm	6.99mm	2.29mm	3.43mm	0.047cm^2	1.361cm	0.0412cm^2	0.064cm^3
0.25in	0.11in	0.11in	0.275in	0.09in	0.135in	0.007in^2	0.536in	8000cmil	0.004in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	-	-	-	-	-	9.9112
60	24	OR063M060	OR063H060	OR063S060	OR063F060	4.2948
75	30	-	-	OR063S075	-	3.4359
90	36	-	-	OR063S090	OR063F090	2.8632
125	50	OR063M125	OR063H125	OR063S125	-	2.0615
147	59	OR063M147	-	-	-	1.7530
160	64	OR063M160	-	-	-	1.6106
173	-	-	-	-	-	1.4895
200	-	-	-	-	-	1.2885

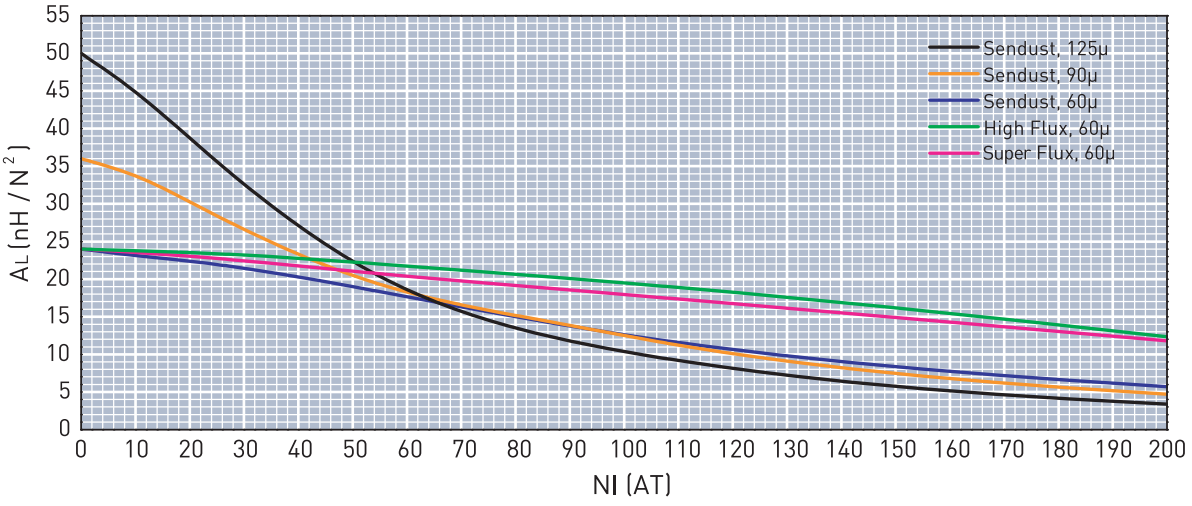
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	12	0.0186
27	0.041	14	0.0273
28	0.037	16	0.0395
29	0.033	18	0.0554
30	0.030	21	0.0828
31	0.027	23	0.1140

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	26	0.1600
33	0.022	30	0.2350
34	0.019	34	0.3360
35	0.017	38	0.4770
36	0.015	44	0.6910
37	0.014	48	0.9310

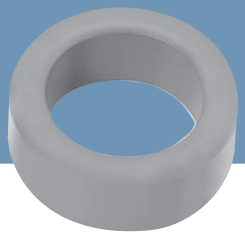
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
38	0.012	54	1.3300
39	0.011	62	1.9900
40	0.010	71	2.8700
41	0.009	80	4.0000
42	0.008	91	5.7200
43	0.007	101	8.1900

A_L value vs. DC Bias characteristics



OD 066

ID 2.67mm
HT 2.54mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
6.6mm	2.67mm	2.54mm	7.24mm	2.29mm	3.18mm	0.0476cm^2	1.363cm	0.0412cm^2	0.0649cm^3
0.26in	0.105in	0.1in	0.285in	0.09in	0.125in	0.007in^2	0.537in	8000cmil	0.004in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	11	OR066M026	OR066H026	OR066S026	-	9.0325
60	26	OR066M060	OR066H060	OR066S060	OR066F060	3.9141
75	32	-	-	OR066S075	-	3.1313
90	39	-	-	OR066S090	OR066F090	2.6094
125	54	OR066M125	OR066H125	OR066S125	-	1.8788
147	64	OR066M147	OR066H147	-	-	1.5976
160	69	OR066M160	OR066H160	-	-	1.4678
173	75	OR066M173	OR066H173	-	-	1.3575
200	86	OR066M200	OR066H200	-	-	1.1742

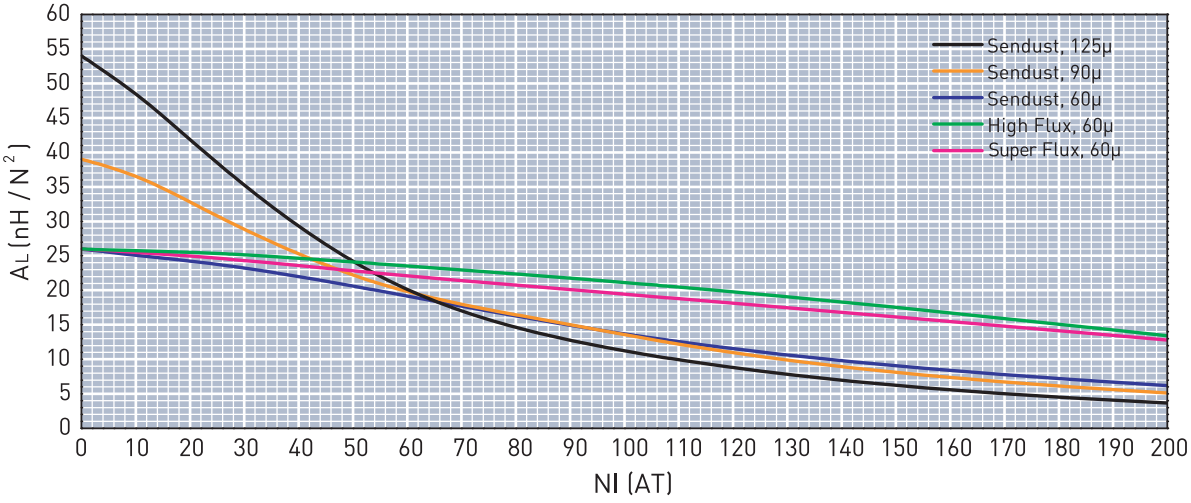
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	12	0.0183
27	0.041	14	0.0267
28	0.037	16	0.0388
29	0.033	18	0.0542
30	0.030	21	0.8100
31	0.027	23	0.1120

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	26	0.1560
33	0.022	30	0.2290
34	0.019	34	0.3290
35	0.017	39	0.4790
36	0.015	44	0.6770
37	0.014	48	0.9120

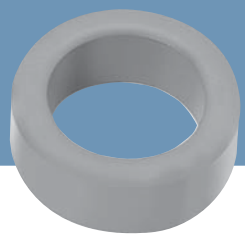
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
38	0.012	54	1.3000
39	0.011	62	1.9500
40	0.010	71	2.8200
41	0.009	80	3.9200
42	0.008	91	5.6000
43	0.007	101	8.0200

A_L value vs. DC Bias characteristics



OD 067

ID 2.67mm
HT 4.78mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
6.6mm	2.67mm	4.78mm	7.32mm	2.21mm	5.54mm	0.092cm^2	1.363cm	0.0384cm^2	0.1254cm^3
0.26in	0.105in	0.188in	0.288in	0.087in	0.218in	0.014in^2	0.537in	8000cmil	0.008in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	21	OR067M026	OR067H026	OR067S026	-	6.7018
60	50	OR067M060	OR067H060	OR067S060	OR067F060	2.9041
75	62	-	-	OR067S075	-	2.3233
90	74	-	-	OR067S090	OR067F090	1.9361
125	103	OR067M125	OR067H125	OR067S125	-	1.3940
147	122	OR067M147	OR067H147	-	-	1.1853
160	132	OR067M160	OR067H160	-	-	1.0890
173	144	OR067M173	OR067H173	-	-	1.0072
200	165	OR067M200	OR067H200	-	-	0.8712

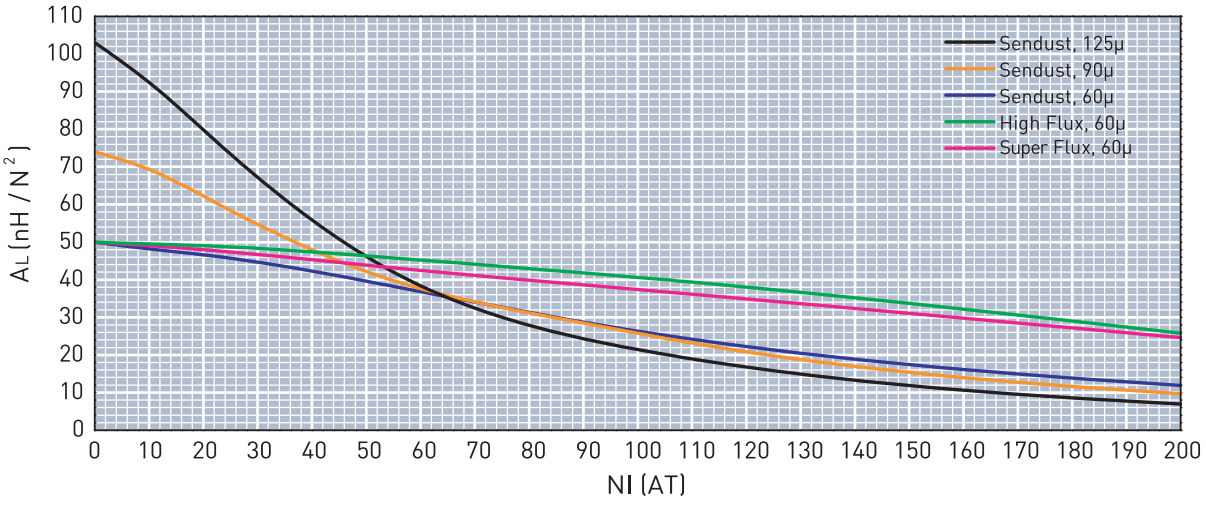
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	12	0.0262
27	0.041	13	0.0355
28	0.037	16	0.0555
29	0.033	17	0.0733
30	0.030	20	0.1100
31	0.027	22	0.1530

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	25	0.2150
33	0.022	28	0.3070
34	0.019	33	0.4570
35	0.017	37	0.6510
36	0.015	42	0.9250
37	0.014	46	1.2500

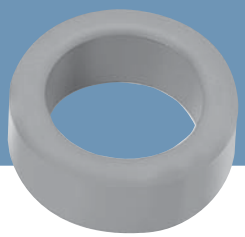
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
38	0.012	52	1.7800
39	0.011	60	2.6900
40	0.010	68	3.8600
41	0.009	77	5.4000
42	0.008	87	7.6700
43	0.007	98	11.100

A_L value vs. DC Bias characteristics



OD 068

ID 3.96mm
HT 5.08mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
6.86mm	3.96mm	5.08mm	7.62mm	3.45mm	5.72mm	0.0725cm^2	1.65cm	0.0935cm^2	0.1196cm^3
0.27in	0.156in	0.2in	0.3in	0.136in	0.225in	0.011in^2	0.65in	18000cmil	0.007in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	14	OR068M026	OR068H026	OR068S026	-	3.7197
60	33	OR068M060	OR068H060	OR068S060	OR068F060	1.6119
75	42	-	-	OR068S075	-	1.2895
90	50	-	-	OR068S090	OR068F090	1.0746
125	70	OR068M125	OR068H125	OR068S125	-	0.7737
147	81	OR068M147	OR068H147	-	-	0.6579
160	89	OR068M160	OR068H160	-	-	0.6045
173	95	OR068M173	OR068H173	-	-	0.5590
200	112	OR068M200	OR068H200	-	-	0.4836

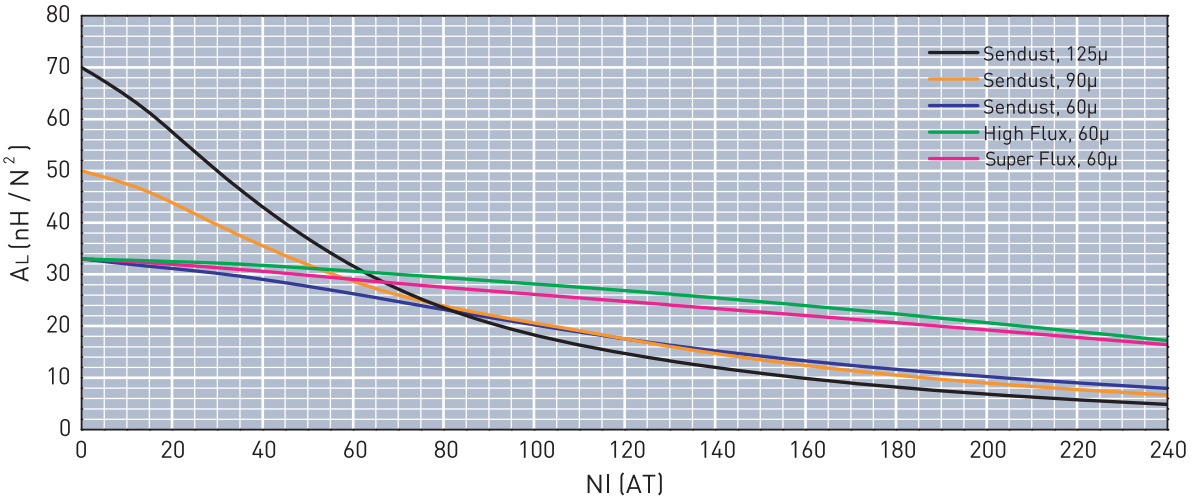
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	20	0.0420
27	0.041	23	0.0605
28	0.037	26	0.0869
29	0.033	29	0.1210
30	0.030	33	0.1760
31	0.027	37	0.2480

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	41	0.3400
33	0.022	46	0.4850
34	0.019	53	0.7080
35	0.017	60	1.0200
36	0.015	67	1.4200
37	0.014	73	1.9100

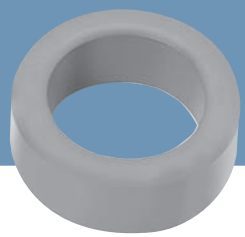
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
38	0.012	83	2.7500
39	0.011	95	4.1200
40	0.010	108	5.9200
41	0.009	121	8.1800
42	0.008	138	11.700
43	0.007	153	16.800

A_L value vs. DC Bias characteristics



OD 078

ID 3.96mm
HT 3.18mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
7.87mm	3.96mm	3.18mm	8.51mm	3.43mm	3.81mm	0.0615cm^2	1.787cm	0.0924cm^2	0.1099cm^3
0.31in	0.156in	0.125in	0.335in	0.135in	0.15in	0.01in^2	0.704in	18000cmil	0.007in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	11	OR078M026	OR078H026	OR078S026	-	4.5682
60	25	OR078M060	OR078H060	OR078S060	OR078F060	1.9795
75	31	-	-	OR078S075	-	1.5836
90	37	-	-	OR078S090	OR078F090	1.3197
125	52	OR078M125	OR078H125	OR078S125	-	0.9502
147	62	OR078M147	OR078H147	-	-	0.8080
160	66	OR078M160	OR078H160	-	-	0.7423
173	73	OR078M173	OR078H173	-	-	0.6865
200	83	OR078M200	OR078H200	-	-	0.5939

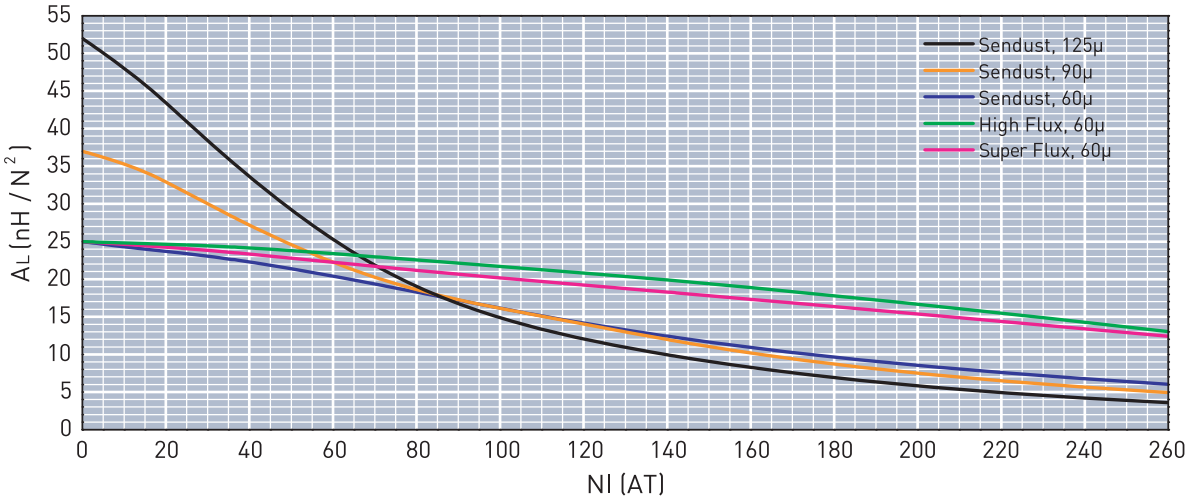
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
22	0.070	12	0.0082
23	0.063	13	0.0109
24	0.057	15	0.0160
25	0.051	18	0.0243
26	0.045	20	0.0342
27	0.041	23	0.0493

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
28	0.037	26	0.0707
29	0.033	29	0.0982
30	0.030	33	0.1430
31	0.027	37	0.2020
32	0.024	41	0.2770
33	0.022	46	0.3950

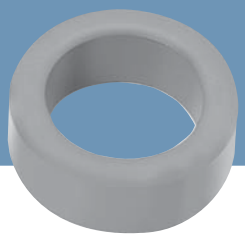
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
34	0.019	53	0.5770
35	0.017	60	0.8280
36	0.015	67	1.1600
37	0.014	73	1.5600
38	0.012	83	2.2400
39	0.011	95	3.7900

A_L value vs. DC Bias characteristics



OD 096

ID 4.78mm
HT 3.18mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
9.65mm	4.78mm	3.18mm	10.29mm	4.27mm	3.81mm	0.0752cm^2	2.18cm	0.1432cm^2	0.1639cm^3
0.38in	0.188in	0.125in	0.405in	0.168in	0.15in	0.012in^2	0.858in	28000cmil	0.01in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	11	OR096M026	OR096H026	OR096S026	-	3.1842
60	25	OR096M060	OR096H060	OR096S060	OR096F060	1.3798
75	32	-	-	OR096S075	-	1.1039
90	38	-	-	OR096S090	OR096F090	0.9199
125	53	OR096M125	OR096H125	OR096S125	-	0.6623
147	63	OR096M147	OR096H147	-	-	0.5632
160	68	OR096M160	OR096H160	-	-	0.5174
173	74	OR096M173	OR096H173	-	-	0.4786
200	84	OR096M200	OR096H200	-	-	0.4139

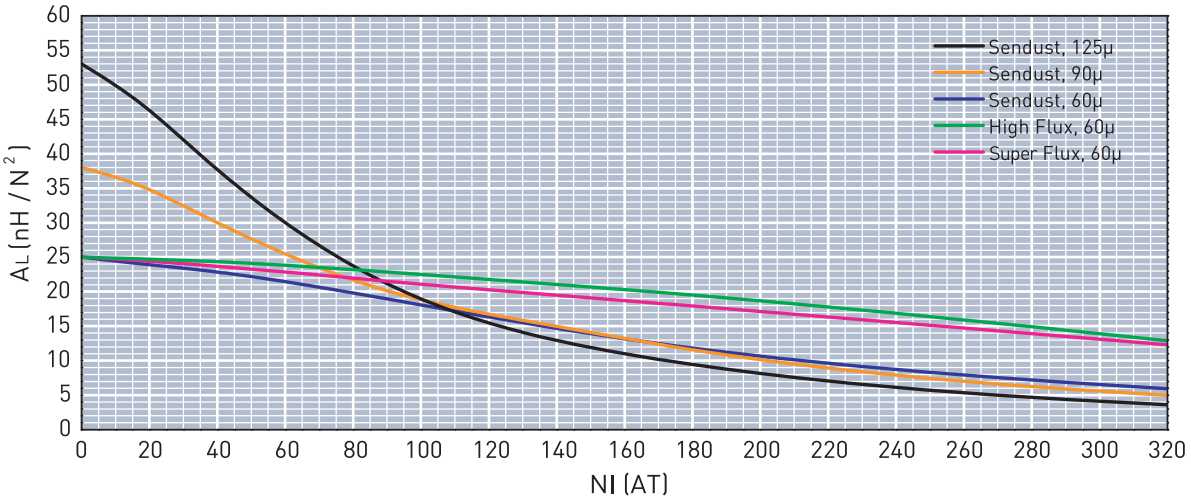
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	12	0.0054
21	0.079	13	0.0074
22	0.070	15	0.0108
23	0.063	18	0.0164
24	0.057	20	0.0231
25	0.051	23	0.0334

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	26	0.0478
27	0.041	29	0.0668
28	0.037	33	0.0966
29	0.033	37	0.1350
30	0.030	42	0.1950
31	0.027	47	0.2760

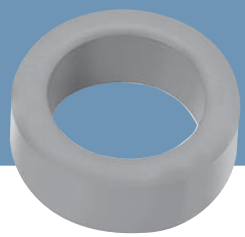
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	52	0.3770
33	0.022	58	0.5350
34	0.019	67	0.7830
35	0.017	75	1.1100
36	0.015	84	1.5700
37	0.014	92	2.1100

A_L value vs. DC Bias characteristics



OD 097

ID 4.78mm
HT 3.96mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
9.65mm	4.78mm	3.96mm	10.29mm	4.27mm	4.57mm	0.0945cm^2	2.18cm	0.1432cm^2	0.206cm^3
0.38in	0.188in	0.156in	0.405in	0.168in	0.18in	0.015in^2	0.858in	28000cmil	0.013in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	14	OR097M026	OR097H026	OR097S026	-	2.7485
60	32	OR097M060	OR097H060	OR097S060	OR097F060	1.1910
75	40	-	-	OR097S075	-	0.9528
90	48	-	-	OR097S090	OR097F090	0.7940
125	66	OR097M125	OR097H125	OR097S125	-	0.5717
147	78	OR097M147	OR097H147	-	-	0.4861
160	84	OR097M160	OR097H160	-	-	0.4466
173	92	OR097M173	OR097H173	-	-	0.4131
200	105	OR097M200	OR097H200	-	-	0.3573

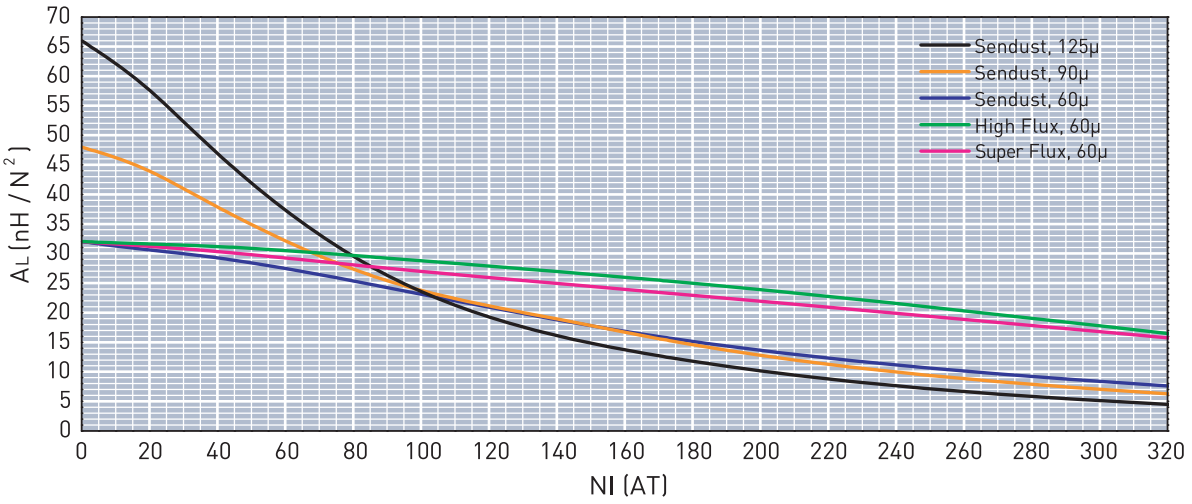
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	12	0.0061
21	0.079	13	0.0083
22	0.070	15	0.0120
23	0.063	18	0.0182
24	0.057	20	0.0256
25	0.051	23	0.0371

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	26	0.0531
27	0.041	29	0.0743
28	0.037	33	0.1070
29	0.033	37	0.1500
30	0.030	42	0.2170
31	0.027	47	0.3070

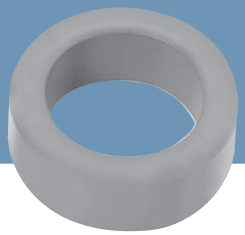
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	52	0.4200
33	0.022	58	0.5940
34	0.019	67	0.8710
35	0.017	75	1.2400
36	0.015	84	1.7400
37	0.014	92	2.3400

A_L value vs. DC Bias characteristics



OD 102

ID 5.08mm
HT 3.96mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
10.16mm	5.08mm	3.96mm	10.8mm	4.57mm	4.57mm	0.1cm^2	2.38cm	0.164cm^2	0.238cm^3
0.4in	0.2in	0.156in	0.425in	0.18in	0.18in	0.016in^2	0.937in	32000cmil	0.015in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	14	OR102M026	OR102H026	OR102S026	-	2.4257
60	32	OR102M060	OR102H060	OR102S060	OR102F060	1.0511
75	40	-	-	OR102S075	-	0.8409
90	48	-	-	OR102S090	OR102F090	0.7008
125	66	OR102M125	OR102H125	OR102S125	-	0.5045
147	78	OR102M147	OR102H147	-	-	0.4290
160	84	OR102M160	OR102H160	-	-	0.3942
173	92	OR102M173	OR102H173	-	-	0.3646
200	105	OR102M200	OR102H200	-	-	0.3153

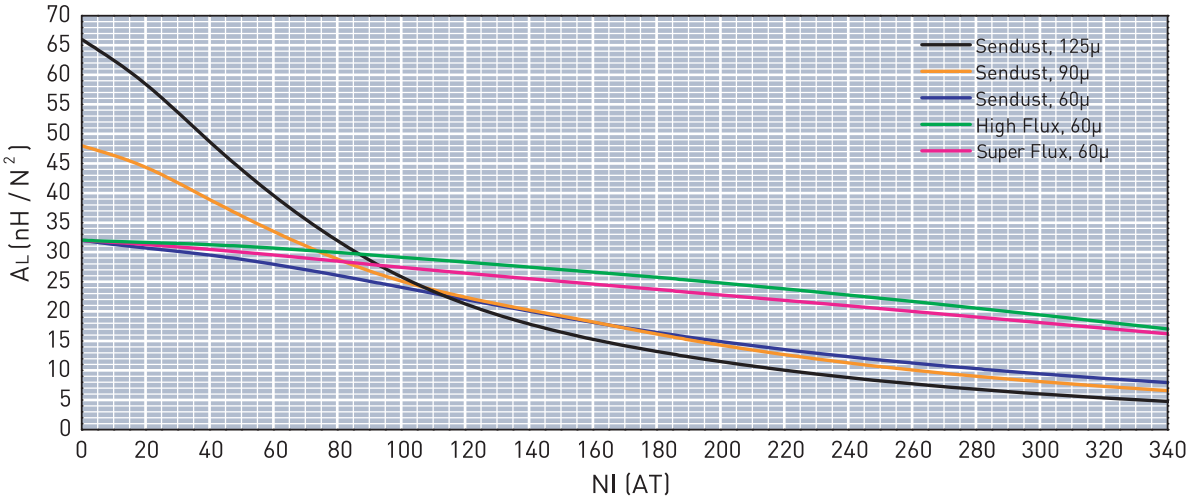
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	13	0.0066
21	0.079	15	0.0097
22	0.070	17	0.0139
23	0.063	19	0.0195
24	0.057	22	0.0285
25	0.051	25	0.0408

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
26	0.045	28	0.0579
27	0.041	31	0.0804
28	0.037	36	0.1190
29	0.033	40	0.1640
30	0.030	45	0.2360
31	0.027	50	0.3300

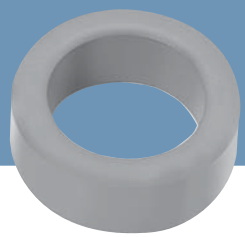
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
32	0.024	56	0.4570
33	0.022	63	0.6540
34	0.019	72	0.9470
35	0.017	81	1.3500
36	0.015	91	1.9000
37	0.014	99	2.5600

A_L value vs. DC Bias characteristics



OD 112

ID 6.35mm
HT 3.96mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
11.18mm	6.35mm	3.96mm	11.9mm	5.89mm	4.72mm	0.0906cm^2	2.69cm	0.2725cm^2	0.2437cm^3
0.44in	0.25in	0.156in	0.469in	0.232in	0.186in	0.014in^2	1.059in	54000cmil	0.015in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	11	OR112M026	OR112H026	OR112S026	-	1.9713
60	26	OR112M060	OR112H060	OR112S060	OR112F060	0.8542
75	32	-	-	OR112S075	-	0.6834
90	38	-	-	OR112S090	OR112F090	0.5695
125	53	OR112M125	OR112H125	OR112S125	-	0.4100
147	63	OR112M147	OR112H147	-	-	0.3487
160	68	OR112M160	OR112H160	-	-	0.3203
173	74	OR112M173	OR112H173	-	-	0.2963
200	85	OR112M200	OR112H200	-	-	0.2563

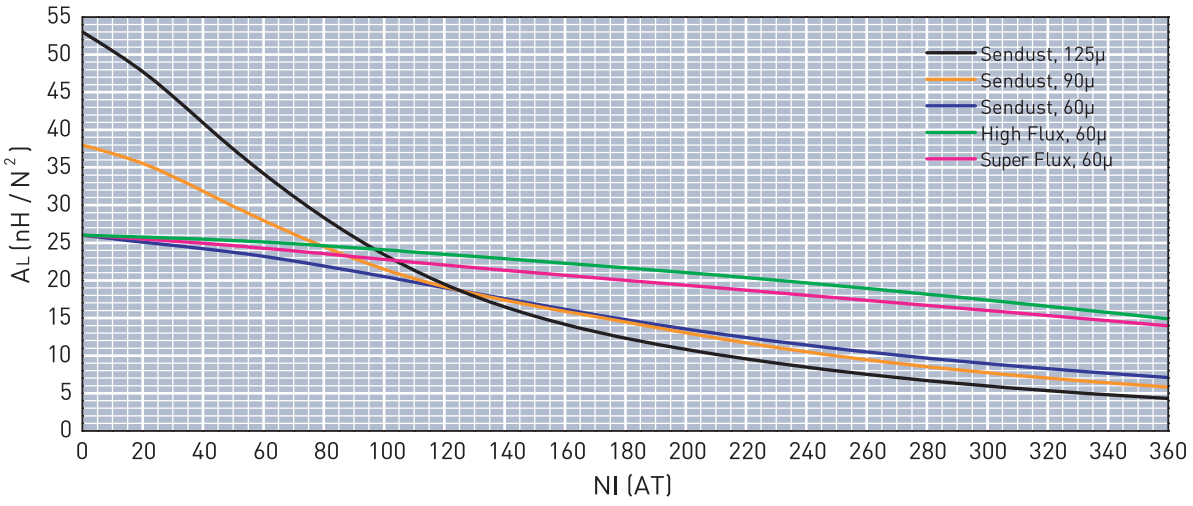
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
16	0.137	10	0.0020
17	0.122	11	0.0028
18	0.110	13	0.0042
19	0.098	15	0.0061
20	0.088	17	0.0087
21	0.079	20	0.0130

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
22	0.070	23	0.0188
23	0.063	26	0.0268
24	0.057	29	0.0378
25	0.051	33	0.0543
26	0.045	37	0.0770
27	0.041	42	0.1090

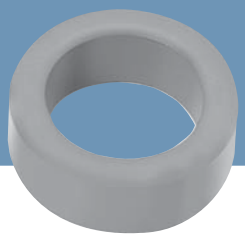
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
28	0.037	47	0.1550
29	0.033	52	0.2140
30	0.030	59	0.3110
31	0.027	66	0.4380
32	0.024	73	0.6000
33	0.022	82	0.8560

A_L value vs. DC Bias characteristics



OD 127

ID 7.62mm
HT 4.75mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
12.7mm	7.62mm	4.75mm	13.46mm	6.99mm	5.51mm	0.114cm^2	3.12cm	0.3837cm^2	0.3557cm^3
0.5in	0.3in	0.187in	0.53in	0.275in	0.217in	0.018in^2	1.228in	76000cmil	0.022in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	12	OR127M026	OR127H026	OR127S026	-	1.4701
60	27	OR127M060	OR127H060	OR127S060	OR127F060	0.6371
75	34	-	-	OR127S075	-	0.5096
90	40	-	-	OR127S090	OR127F090	0.4247
125	56	OR127M125	OR127H125	OR127S125	-	0.3058
147	67	OR127M147	OR127H147	-	-	0.2600
160	72	OR127M160	OR127H160	-	-	0.2389
173	79	OR127M173	OR127H173	-	-	0.2209
200	90	OR127M200	OR127H200	-	-	0.1911

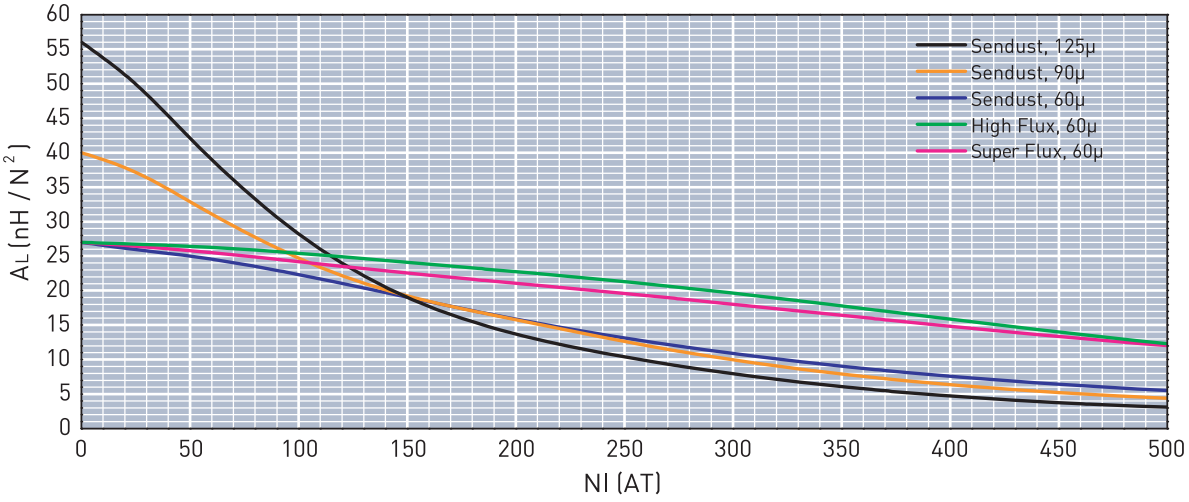
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
16	0.137	12	0.0028
17	0.122	14	0.0041
18	0.110	16	0.0059
19	0.098	19	0.0088
20	0.088	21	0.0122
21	0.079	24	0.0176

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
22	0.070	28	0.0260
23	0.063	31	0.0362
24	0.057	35	0.0516
25	0.051	40	0.0744
26	0.045	45	0.1060
27	0.041	50	0.1480

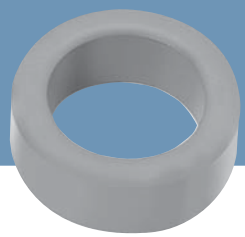
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
28	0.037	56	0.2100
9	0.033	63	0.2930
30	0.030	71	0.4340
31	0.027	79	0.5940
32	0.024	87	0.8090
33	0.022	98	1.1600

A_L value vs. DC Bias characteristics



OD 166

ID 10.16mm
HT 6.35mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
16.51mm	10.16mm	6.35mm	17.4mm	9.53mm	7.11mm	0.192cm^2	4.11cm	0.7133cm^2	0.7891cm^3
0.65in	0.4in	0.25in	0.685in	0.375in	0.28in	0.03in^2	1.618in	141000cmil	0.048in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	15	OR166M026	OR166H026	OR166S026	-	0.7690
60	35	OR166M060	OR166H060	OR166S060	OR166F060	0.3333
75	43	-	-	OR166S075	-	0.2666
90	52	-	-	OR166S090	OR166F090	0.2222
125	72	OR166M125	OR166H125	OR166S125	-	0.1600
147	88	OR166M147	OR166H147	-	-	0.1360
160	92	OR166M160	OR166H160	-	-	0.1250
173	104	OR166M173	OR166H173	-	-	0.1156
200	115	OR166M200	OR166H200	-	-	0.1000

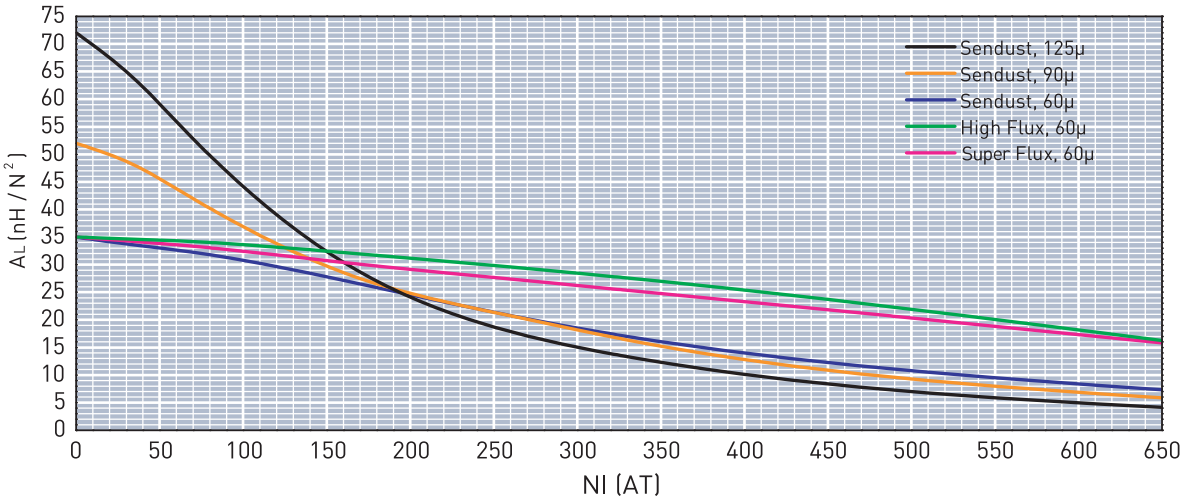
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
13	0.190	12	0.0017
14	0.171	14	0.0025
15	0.153	16	0.0037
16	0.137	18	0.0052
17	0.122	21	0.0077
18	0.110	24	0.0111

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
19	0.098	27	0.0157
20	0.088	30	0.0219
21	0.079	34	0.0314
22	0.070	39	0.0455
23	0.063	44	0.0644
24	0.057	49	0.0906

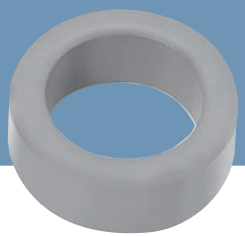
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
25	0.051	56	0.1310
26	0.045	63	0.1890
27	0.041	70	0.2600
28	0.037	78	0.3680
29	0.033	87	0.5100
30	0.030	98	0.7350

A_L value vs. DC Bias characteristics



OD 172

ID 9.65mm
HT 6.35mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
17.27mm	9.65mm	6.35mm	18.03mm	9.02mm	7.11mm	0.232cm^2	4.14cm	0.639cm^2	0.9605cm^3
0.68in	0.38in	0.25in	0.71in	0.355in	0.28in	0.036in^2	1.63in	126000cmil	0.059in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	19	OR172M026	OR172H026	OR172S026	-	0.7918
60	43	OR172M060	OR172H060	OR172S060	OR172F060	0.3431
75	53	-	-	OR172S075	-	0.2745
90	64	-	-	OR172S090	OR172F090	0.2287
125	89	OR172M125	OR172H125	OR172S125	-	0.1647
147	105	OR172M147	OR172H147	-	-	0.1400
160	114	OR172M160	OR172H160	-	-	0.1287
173	123	OR172M173	OR172H173	-	-	0.1190
200	142	OR172M200	OR172H200	-	-	0.1029

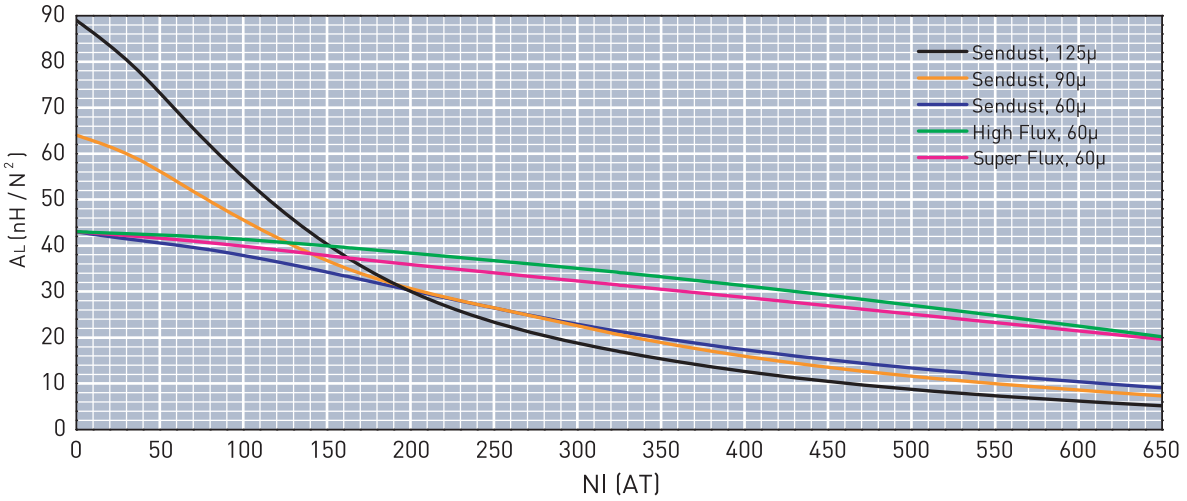
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
13	0.190	11	0.0017
14	0.171	13	0.0025
15	0.153	15	0.0036
16	0.137	17	0.0052
17	0.122	19	0.0073
18	0.110	22	0.0107

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
19	0.098	25	0.0154
20	0.088	29	0.0224
21	0.079	32	0.0215
22	0.070	37	0.0313
23	0.063	41	0.0457
24	0.057	46	0.0635

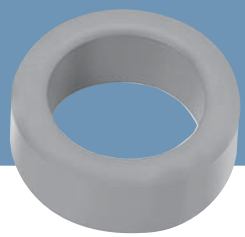
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
25	0.051	52	0.0902
26	0.045	59	0.1290
27	0.041	66	0.1850
28	0.037	74	0.2590
29	0.033	82	0.3690
30	0.030	92	0.5080

A_L value vs. DC Bias characteristics



OD 203

ID 12.7mm
HT 6.35mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
20.32mm	12.7mm	6.35mm	21.1mm	12.07mm	7.11mm	0.226cm^2	5.09cm	1.14cm^2	1.1503cm^3
0.8in	0.5in	0.25in	0.831in	0.475in	0.28in	0.035in^2	2.004in	225000cmil	0.07in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	14	OR203M026	OR203H026	OR203S026	-	0.5413
60	32	OR203M060	OR203H060	OR203S060	OR203F060	0.2346
75	41	-	-	OR203S075	-	0.1877
90	49	-	-	OR203S090	OR203F090	0.1564
125	68	OR203M125	OR203H125	OR203S125	-	0.1126
147	81	OR203M147	OR203H147	-	-	0.0957
160	87	OR203M160	OR203H160	-	-	0.0880
173	96	OR203M173	OR203H173	-	-	0.0814
200	109	OR203M200	OR203H200	-	-	0.0704

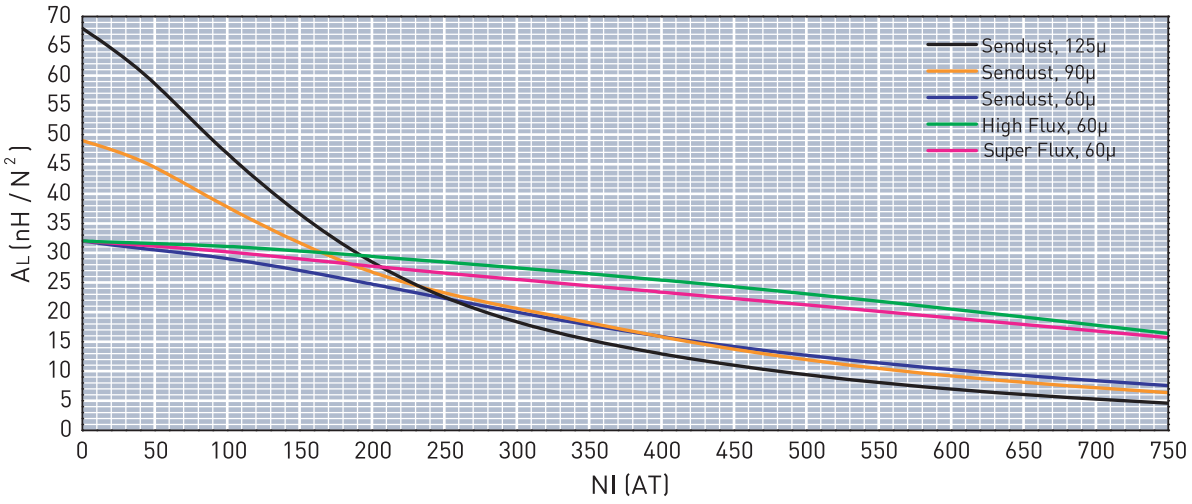
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
11	0.238	12	0.0014
12	0.213	14	0.0017
13	0.190	16	0.0025
14	0.171	18	0.0035
15	0.153	21	0.0051
16	0.137	24	0.0074

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
17	0.122	27	0.0104
18	0.110	31	0.0151
19	0.098	35	0.0215
20	0.088	39	0.0301
21	0.079	45	0.0439
22	0.070	50	0.0618

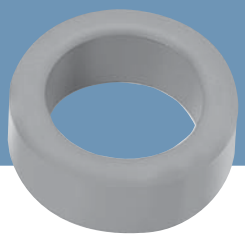
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
23	0.063	56	0.0867
24	0.057	63	0.1240
25	0.051	71	0.1760
26	0.045	80	0.2500
27	0.041	89	0.3490
28	0.037	100	0.4980

A_L value vs. DC Bias characteristics



OD 229

ID 13.97mm
HT 7.62mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
22.86mm	13.97mm	7.62mm	23.62mm	13.39mm	8.38mm	0.331cm^2	5.67cm	1.41cm^2	1.8768cm^3
0.9in	0.55in	0.3in	0.93in	0.527in	0.33in	0.051in^2	2.232in	278000cmil	0.115in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	19	OR229M026	OR229H026	OR229S026	-	0.3748
60	43	OR229M060	OR229H060	OR229S060	OR229F060	0.1624
75	54	-	-	OR229S075	-	0.1299
90	65	-	-	OR229S090	OR229F090	0.1083
125	90	OR229M125	OR229H125	OR229S125	-	0.0780
147	106	OR229M147	OR229H147	-	-	0.0663
160	115	OR229M160	OR229H160	-	-	0.0609
173	124	OR229M173	OR229H173	-	-	0.0563
200	144	OR229M200	OR229H200	-	-	0.0487

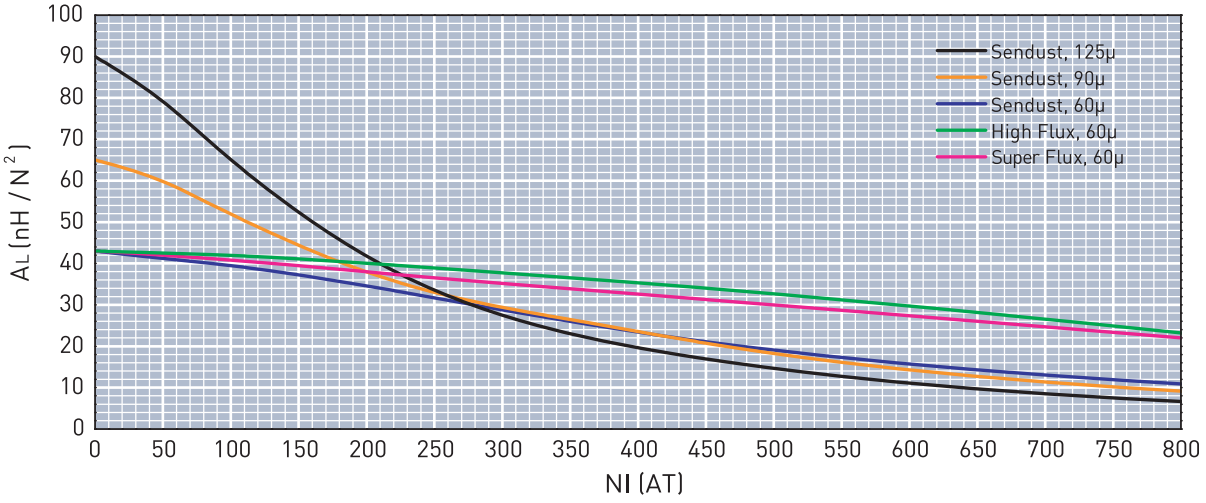
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
10	0.267	12	0.0011
11	0.238	14	0.0016
12	0.213	16	0.0023
13	0.190	18	0.0032
14	0.171	21	0.0047
15	0.153	24	0.0068

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
16	0.137	27	0.0096
17	0.122	31	0.0138
18	0.110	35	0.0198
19	0.098	39	0.0278
20	0.088	44	0.0395
21	0.079	50	0.0565

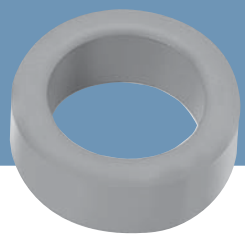
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
22	0.070	56	0.0804
23	0.063	63	0.1130
24	0.057	71	0.1610
25	0.051	80	0.2290
26	0.045	89	0.3240
27	0.041	99	0.4500

A_L value vs. DC Bias characteristics



OD 234

ID 14.4mm
HT 8.89mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
23.57mm	14.4mm	8.89mm	24.3mm	13.77mm	9.7mm	0.388cm^2	5.88cm	1.49cm^2	2.2814cm^3
0.928in	0.567in	0.35iin	0.957in	0.542in	0.382in	0.06in^2	2.315in	294000cmil	0.139in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	22	OR234M026	OR234H026	OR234S026	-	0.3187
60	51	OR234M060	OR234H060	OR234S060	OR234F060	0.1381
75	63	-	-	OR234S075	-	0.1105
90	76	-	-	OR234S090	OR234F090	0.0921
125	105	OR234M125	OR234H125	OR234S125	-	0.0663
147	124	OR234M147	OR234H147	-	-	0.0564
160	135	OR234M160	OR234H160	-	-	0.0518
173	146	OR234M173	OR234H173	-	-	0.0479
200	169	OR234M200	OR234H200	-	-	0.0414

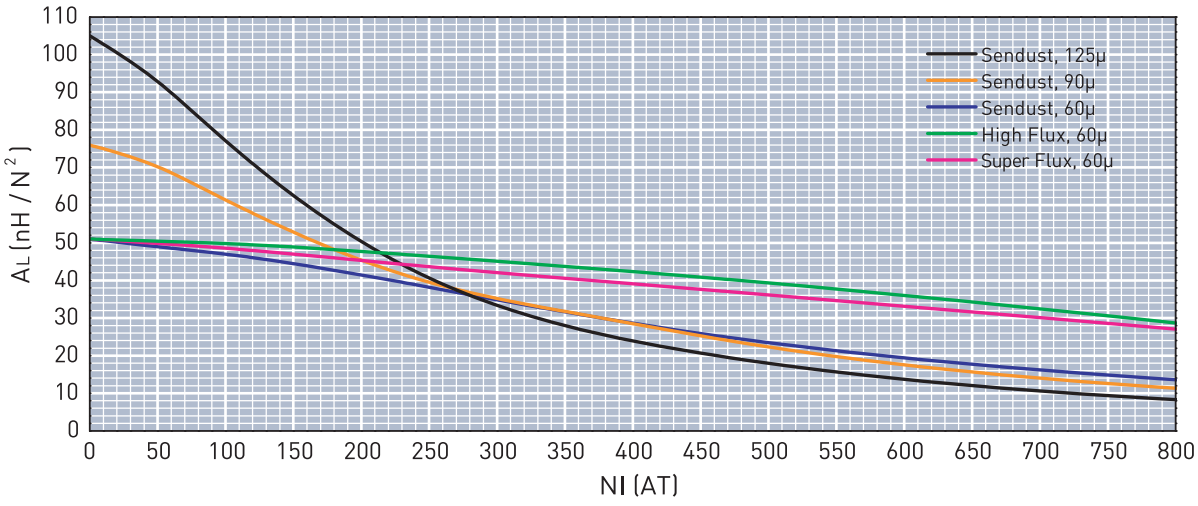
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
9	0.298	11	0.0009
10	0.267	13	0.0013
11	0.238	15	0.0019
12	0.213	17	0.0027
13	0.190	19	0.0037
14	0.171	22	0.0054

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
15	0.153	25	0.0078
16	0.137	28	0.0111
17	0.122	32	0.0159
18	0.110	36	0.0226
19	0.098	40	0.0316
20	0.088	46	0.0458

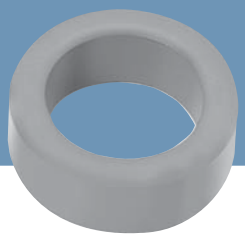
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
21	0.079	51	0.0000
22	0.070	63	0.1130
23	0.063	71	0.1610
24	0.057	80	0.2290
25	0.051	89	0.3240
26	0.045	99	0.4500

A_L value vs. DC Bias characteristics



OD 270

ID 14.73mm
HT 11.18mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
26.92mm	14.73mm	11.18mm	27.7mm	14.1mm	11.99mm	0.654cm^2	6.35cm	1.56cm^2	4.1529cm^3
1.06in	0.58in	0.44in	1.091in	0.555in	0.472in	0.101in^2	2.5in	308000cmil	0.253in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	32	OR270M026	OR270H026	OR270S026	-	0.2364
60	75	OR270M060	OR270H060	OR270S060	OR270F060	0.1024
75	94	-	-	OR270S075	-	0.0819
90	113	-	-	OR270S090	OR270F090	0.0683
125	157	OR270M125	OR270H125	OR270S125	-	0.0492
147	185	OR270M147	OR270H147	-	-	0.0418
160	201	OR270M160	OR270H160	-	-	0.0384
173	217	OR270M173	OR270H173	-	-	0.0355
200	251	OR270M200	OR270H200	-	-	0.0307

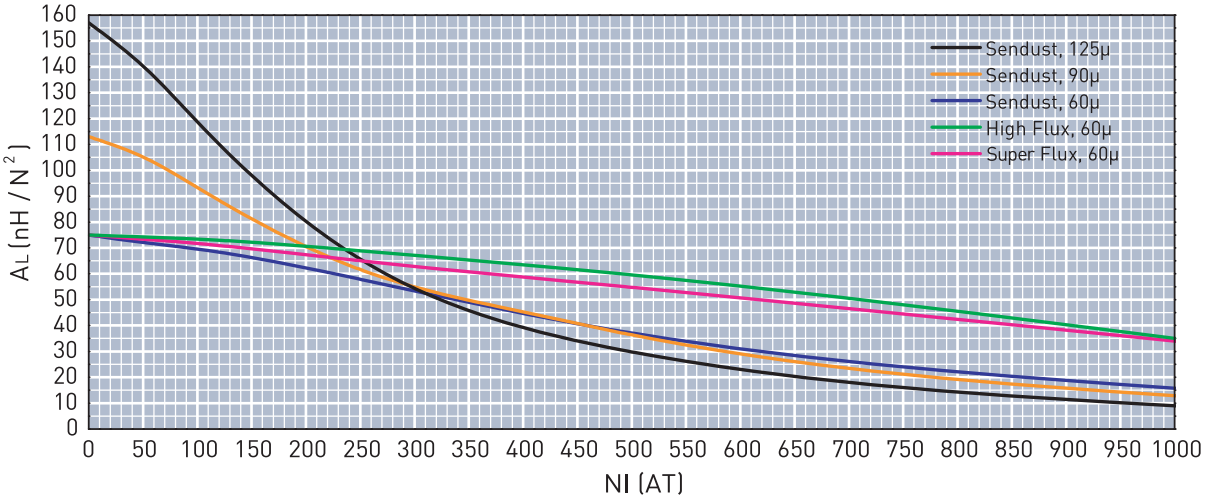
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
9	0.298	11	0.0011
10	0.267	13	0.0016
11	0.238	15	0.0023
12	0.213	17	0.0033
13	0.190	20	0.0049
14	0.171	22	0.0069

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
15	0.153	25	0.0098
16	0.137	29	0.0144
17	0.122	33	0.0203
18	0.110	37	0.0291
19	0.098	42	0.0416
20	0.088	47	0.0587

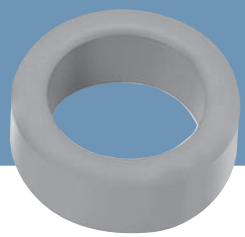
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
21	0.079	53	0.0835
22	0.070	60	0.1200
23	0.063	66	0.1650
24	0.057	75	0.2370
25	0.051	84	0.3350
26	0.045	94	0.4760

A_L value vs. DC Bias characteristics



OD 330

ID 19.94mm
HT 10.67mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
33.02mm	19.94mm	10.67mm	33.83mm	19.3mm	11.61mm	0.672cm^2	8.15cm	2.93cm^2	5.4768cm^3
1.3in	0.785in	0.42in	1.3321in	0.76in	0.457in	0.104in^2	3.209in	578000cmil	0.334in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	28	OR330M026	OR330H026	OR330S026	-	0.1718
60	61	OR330M060	OR330H060	OR330S060	OR330F060	0.0744
75	76	-	-	OR330S075	-	0.0595
90	91	-	-	OR330S090	OR330F090	0.0496
125	127	OR330M125	OR330H125	OR330S125	-	0.0357
147	150	OR330M147	OR330H147	-	-	0.0304
160	163	OR330M160	OR330H160	-	-	0.0279
173	176	OR330M173	-	-	-	0.0258
200	-	-	-	-	-	0.0223

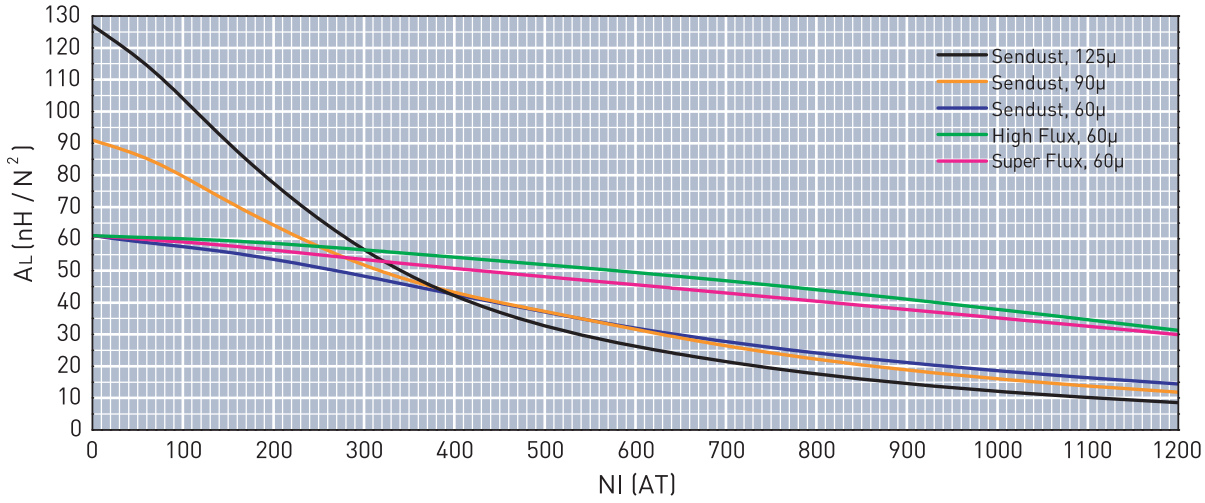
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	15	0.0012
9	0.298	17	0.0017
10	0.267	19	0.0024
11	0.238	22	0.0034
12	0.213	25	0.0055
13	0.190	28	0.0069

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	32	0.0100
15	0.153	36	0.0142
16	0.137	41	0.0204
17	0.122	46	0.0288
18	0.110	52	0.0411
19	0.098	58	0.0578

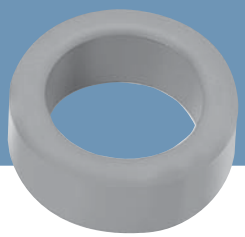
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	65	0.0815
21	0.079	74	0.1180
22	0.070	83	0.1660
23	0.063	92	0.2310
24	0.057	103	0.3280
25	0.051	116	0.4650

A_L value vs. DC Bias characteristics



OD 343

ID 23.37mm
HT 8.89mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
34.29mm	23.37mm	8.89mm	35.2mm	22.6mm	9.83mm	0.454cm^2	8.95cm	4.01cm^2	4.0633cm^3
1.35in	0.92in	0.35in	1.386in	0.888in	0.387in	0.07in^2	3.524in	791000cmil	0.248in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	16	OR343M026	OR343H026	OR343S026	-	0.1960
60	38	OR343M060	OR343H060	OR343S060	OR343F060	0.0850
75	47	-	-	OR343S075	-	0.0680
90	57	-	-	OR343S090	OR343F090	0.0566
125	79	OR343M125	OR343H125	OR343S125	-	0.0408
147	93	OR343M147	OR343H147	-	-	0.0347
160	101	OR343M160	OR343H160	-	-	0.0319
173	109	OR343M173	-	-	-	0.0295
200	-	-	-	-	-	0.0255

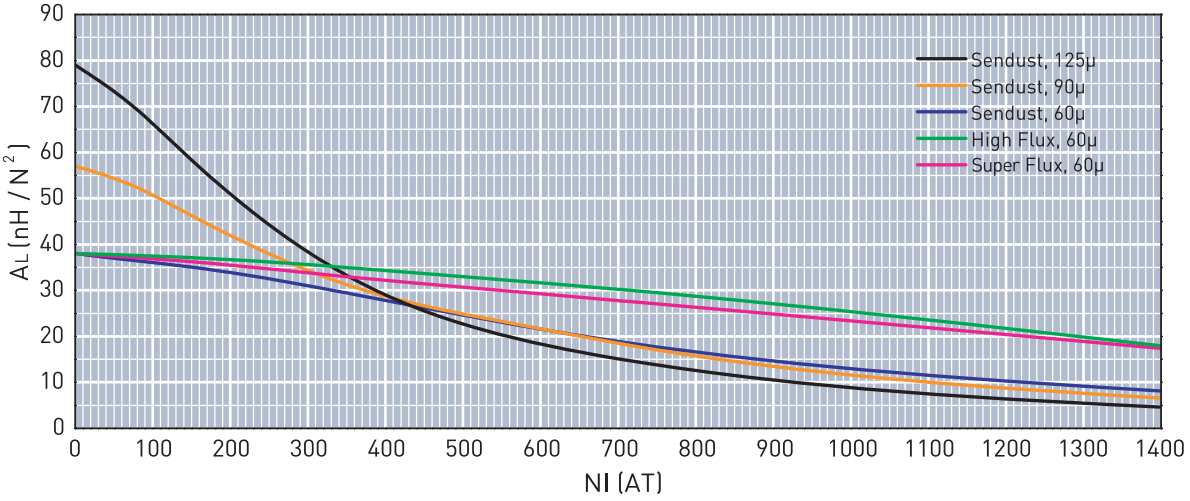
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	18	0.0012
9	0.298	20	0.0017
10	0.267	23	0.0024
11	0.238	26	0.0035
12	0.213	30	0.0051
13	0.190	34	0.0072

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	38	0.0101
15	0.153	43	0.0145
16	0.137	48	0.0205
17	0.122	54	0.0288
18	0.110	61	0.0413
19	0.098	69	0.0665

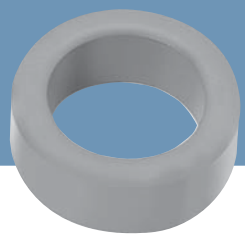
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	77	0.0826
21	0.079	87	0.1180
22	0.070	98	0.1680
23	0.063	109	0.2340
24	0.057	122	0.3220
25	0.051	137	0.4700

A_L value vs. DC Bias characteristics



OD 358

ID 22.36mm
HT 10.46mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
35.81mm	22.36mm	10.46mm	36.7mm	21.5mm	11.28mm	0.678cm^2	8.98cm	3.63cm^2	6.0884cm^3
1.41in	0.88in	0.412in	1.445in	0.848in	0.444in	0.105in^2	3.535in	716000cmil	0.372in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	24	OR358M026	OR358H026	OR358S026	-	0.1539
60	56	OR358M060	OR358H060	OR358S060	OR358F060	0.0667
75	70	-	-	OR358S075	-	0.0533
90	84	-	-	OR358S090	OR358F090	0.0444
125	117	OR358M125	OR358H125	OR358S125	-	0.0320
147	138	OR358M147	OR358H147	-	-	0.0272
160	150	OR358M160	OR358H160	-	-	0.0250
173	162	OR358M173	-	-	-	0.0231
200	-	-	-	-	-	0.0200

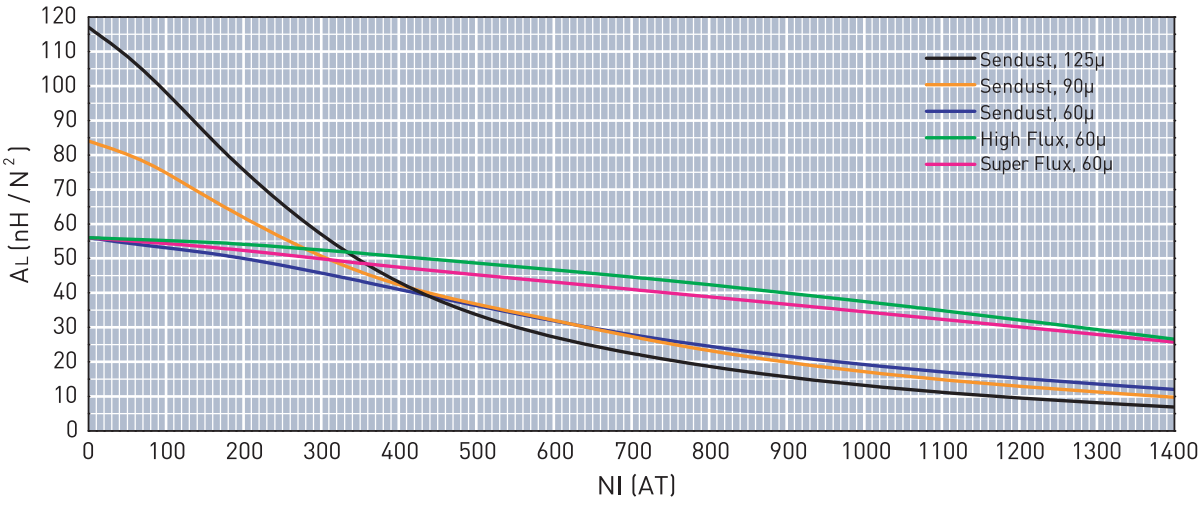
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	17	0.0013
9	0.298	19	0.0019
10	0.267	22	0.0027
11	0.238	25	0.0039
12	0.213	28	0.0055
13	0.190	32	0.0079

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	36	0.0112
15	0.153	41	0.0162
16	0.137	46	0.0229
17	0.122	52	0.0325
18	0.110	58	0.0458
19	0.098	65	0.0648

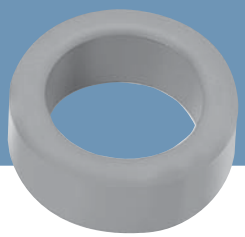
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	73	0.0915
21	0.079	82	0.1300
22	0.070	93	0.1870
23	0.063	103	0.2590
24	0.057	116	0.3680
25	0.051	130	0.5210

A_L value vs. DC Bias characteristics



OD 400

ID 24.13mm
HT 14.48mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
39.88mm	24.13mm	14.48mm	40.7mm	23.3mm	15.37mm	1.072cm^2	9.84cm	4.26cm^2	10.5485cm^3
1.57in	0.95in	0.57in	1.602in	0.917in	0.605in	0.166in^2	3.874in	841000cmil	0.644in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	35	OR400M026	OR400H026	OR400S026	-	0.1079
60	81	OR400M060	OR400H060	OR400S060	OR400F060	0.0468
75	101	-	-	OR400S075	-	0.0374
90	121	-	-	OR400S090	OR400F090	0.0312
125	168	OR400M125	OR400H125	OR400S125	-	0.0225
147	198	OR400M147	OR400H147	-	-	0.0191
160	215	OR400M160	OR400H160	-	-	0.0175
173	233	OR400M173	-	-	-	0.0162
200	-	-	-	-		0.0140

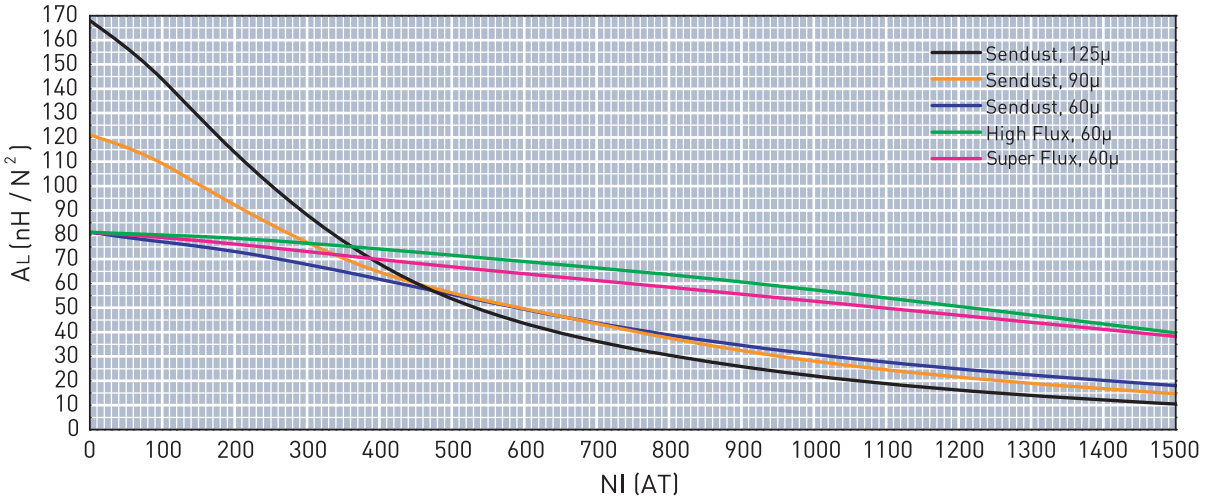
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	18	0.0018
9	0.298	21	0.0026
10	0.267	24	0.0038
11	0.238	27	0.0054
12	0.213	31	0.0078
13	0.190	35	0.0111

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	39	0.0155
15	0.153	44	0.0221
16	0.137	50	0.0317
17	0.122	56	0.0446
18	0.110	63	0.0636
19	0.098	71	0.0902

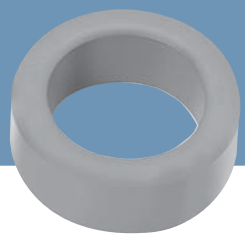
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	80	0.1280
21	0.079	90	0.1820
22	0.070	101	0.2590
23	0.063	112	0.3590
24	0.057	126	0.5110
25	0.051	141	0.7210

A_L value vs. DC Bias characteristics



OD 467

ID 24.13mm
HT 18.03mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
46.74mm	24.13mm	18.03mm	47.6mm	23.3mm	18.92mm	1.99cm^2	10.74cm	4.26cm^2	21.3726cm^3
1.84in	0.95in	0.71in	1.874in	0.917in	0.745in	0.308in^2	4.228in	841000cmil	1.304in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	59	OR467M026	OR467H026	OR467S026	-	0.0756
60	135	OR467M060	OR467H060	OR467S060	OR467F060	0.0328
75	169	-	-	OR467S075	-	0.0262
90	202	-	-	OR467S090	OR467F090	0.0218
125	281	OR467M125	OR467H125	OR467S125	-	0.0157
147	330	OR467M147	-	-	-	0.0134
160	360	OR467M160	-	-	-	0.0123
173	-	-	-	-	-	0.0114
200	-	-	-	-	-	0.0098

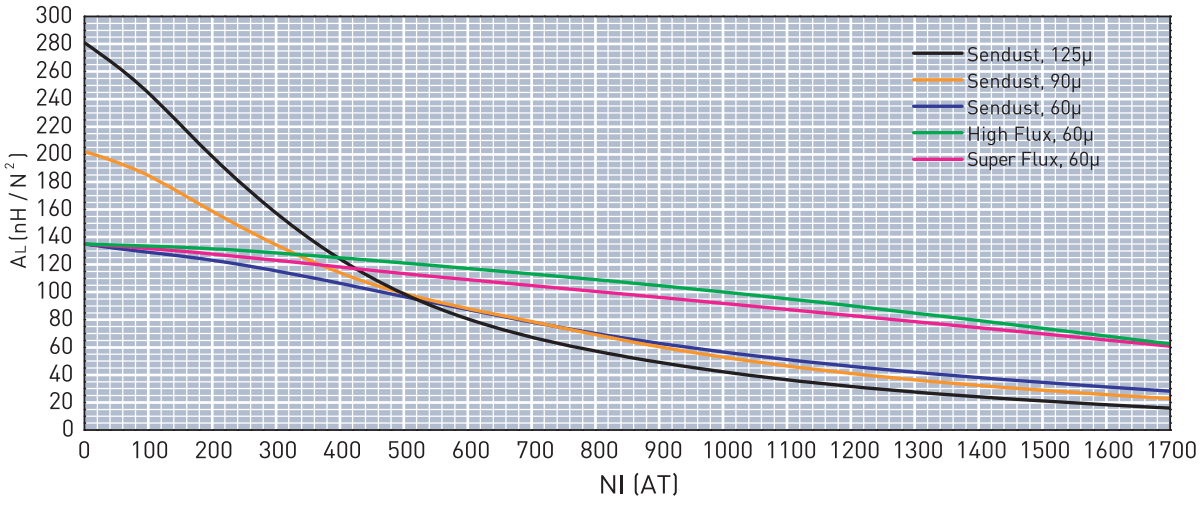
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	18	0.0023
9	0.298	21	0.0034
10	0.267	24	0.0049
11	0.238	27	0.0069
12	0.213	31	0.0100
13	0.190	35	0.0143

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	39	0.0201
15	0.153	44	0.0285
16	0.137	50	0.0410
17	0.122	56	0.0577
18	0.110	63	0.0821
19	0.098	71	0.1160

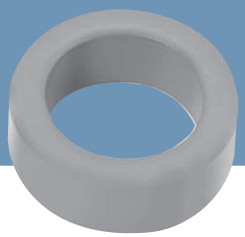
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	80	0.1660
21	0.079	90	0.2360
22	0.070	101	0.3340
23	0.063	112	0.4640
24	0.057	126	0.6600
25	0.051	141	0.9320

A_L value vs. DC Bias characteristics



OD 468

ID 28.7mm
HT 15.24mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
46.74mm	28.7mm	15.24mm	47.6mm	27.9mm	16.13mm	1.34cm^2	11.63cm	6.11cm^2	15.5842cm^3
1.84in	1.13in	0.6in	1.874in	1.098in	0.635in	0.208in^2	4.579in	1206000cmil	0.951in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	37	OR468M026	OR468H026	OR468S026	-	0.0784
60	86	OR468M060	OR468H060	OR468S060	OR468F060	0.0340
75	107	-	-	OR468S075	-	0.0272
90	128	-	-	OR468S090	OR468F090	0.0226
125	178	OR468M125	OR468H125	OR468S125	-	0.0163
147	210	OR468M147	-	-	-	0.0139
160	228	OR468M160	-	-	-	0.0127
173	-	-	-	-	-	0.0118
200	-	-	-	-	-	0.0102

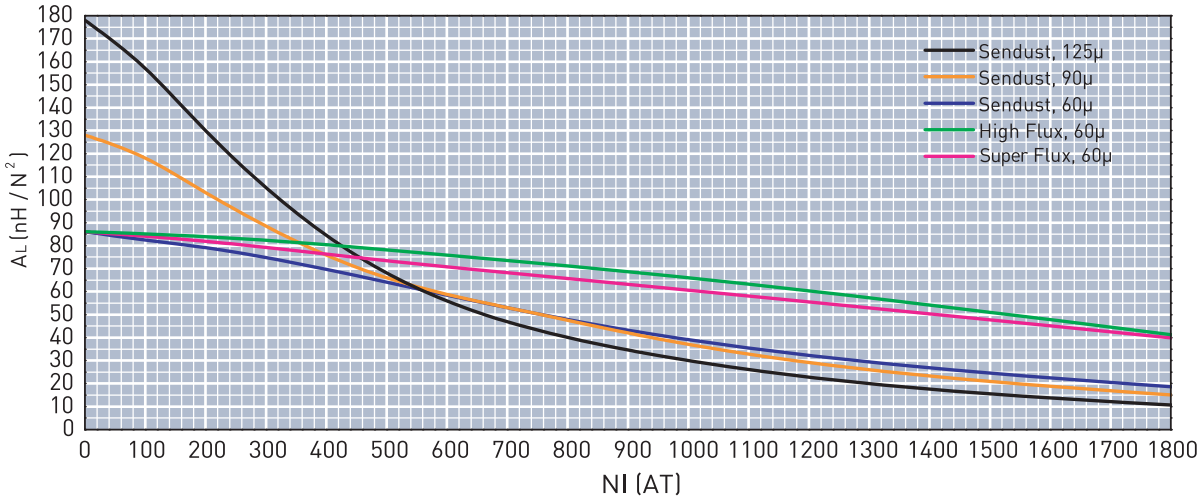
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	23	0.0025
9	0.298	26	0.0035
10	0.267	29	0.0049
11	0.238	33	0.0071
12	0.213	37	0.0100
13	0.190	42	0.0143

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	47	0.0202
15	0.153	54	0.0293
16	0.137	60	0.0411
17	0.122	68	0.0664
18	0.110	76	0.0828
19	0.098	86	0.1180

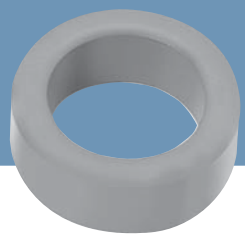
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	96	0.1660
21	0.079	108	0.2360
22	0.070	121	0.3350
23	0.063	135	0.4680
24	0.057	152	0.6660
25	0.051	170	0.9390

A_L value vs. DC Bias characteristics



OD 508

ID 31.75mm
HT 13.46mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
50.8mm	31.75mm	13.46mm	51.7mm	30.9mm	14.35mm	1.25cm^2	12.73cm	7.5cm^2	15.9125cm^3
2in	1.25in	0.53in	2.035in	1.217in	0.565in	0.194in^2	5.012in	1480000cmil	0.971in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	32	OR508M026	OR508H026	OR508S026	-	0.0752
60	73	OR508M060	OR508H060	OR508S060	OR508F060	0.0326
75	91	-	-	OR508S075	-	0.0261
90	109	-	-	OR508S090	OR508F090	0.0217
125	152	OR508M125	OR508H125	OR508S125	-	0.0156
147	179	OR508M147	-	-	-	0.0133
160	195	OR508M160	-	-	-	0.0122
173	-	-	-	-	-	0.0113
200	-	-	-	-	-	0.0098

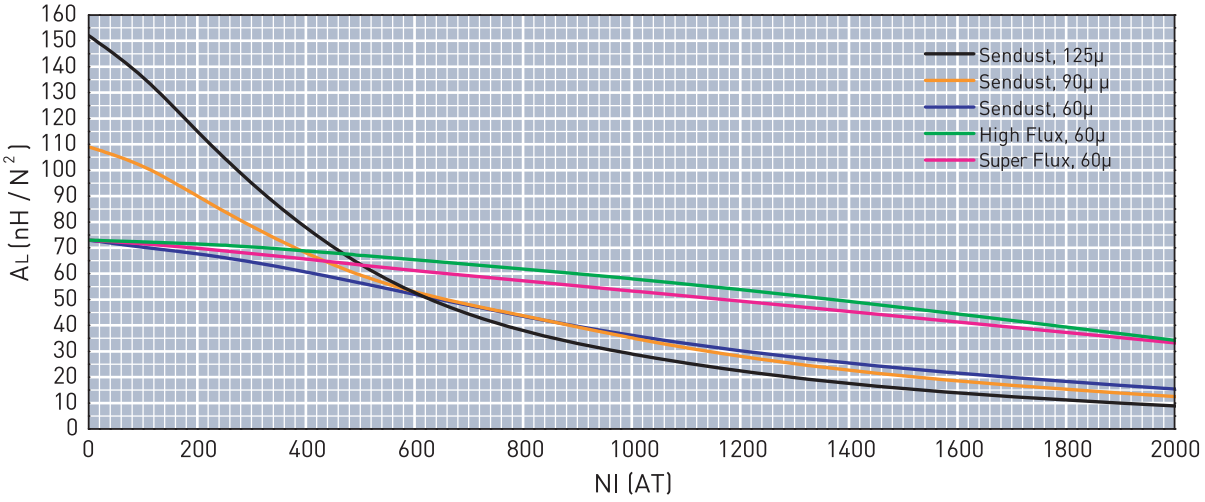
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	25	0.0025
9	0.298	29	0.0037
10	0.267	33	0.0053
11	0.238	37	0.0075
12	0.213	42	0.0108
13	0.190	47	0.0153

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	53	0.0217
15	0.153	60	0.0310
16	0.137	67	0.0437
17	0.122	76	0.0622
18	0.110	85	0.0882
19	0.098	95	0.1210

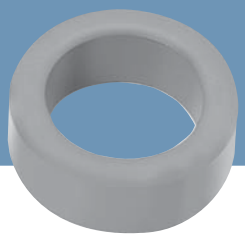
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	107	0.1760
21	0.079	120	0.2500
22	0.070	135	0.3540
23	0.063	150	0.4940
24	0.057	168	0.7010
25	0.051	188	0.9890

A_L value vs. DC Bias characteristics



OD 571

ID 26.39mm
HT 15.24mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
57.15mm	26.39mm	15.24mm	58mm	25.6mm	16.1mm	2.29cm^2	12.5cm	5.15cm^2	28.625cm^3
2.25in	1.039in	0.6in	2.283in	1.008in	0.634in	0.355in^2	4.921in	1016000cmil	1.747in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	60	OR571M026	OR571H026	OR571S026	-	0.0578
60	138	OR571M060	OR571H060	OR571S060	OR571F060	0.0251
75	172	-	-	OR571S075	-	0.0201
90	207	-	-	OR571S090	OR571F090	0.0167
125	287	OR571M125	OR571H125	OR571S125	-	0.0120
147	338	OR571M147	-	-	-	0.0102
160	368	OR571M160	-	-	-	0.0094
173	-	-	-	-	-	0.0087
200	-	-	-	-	-	0.0075

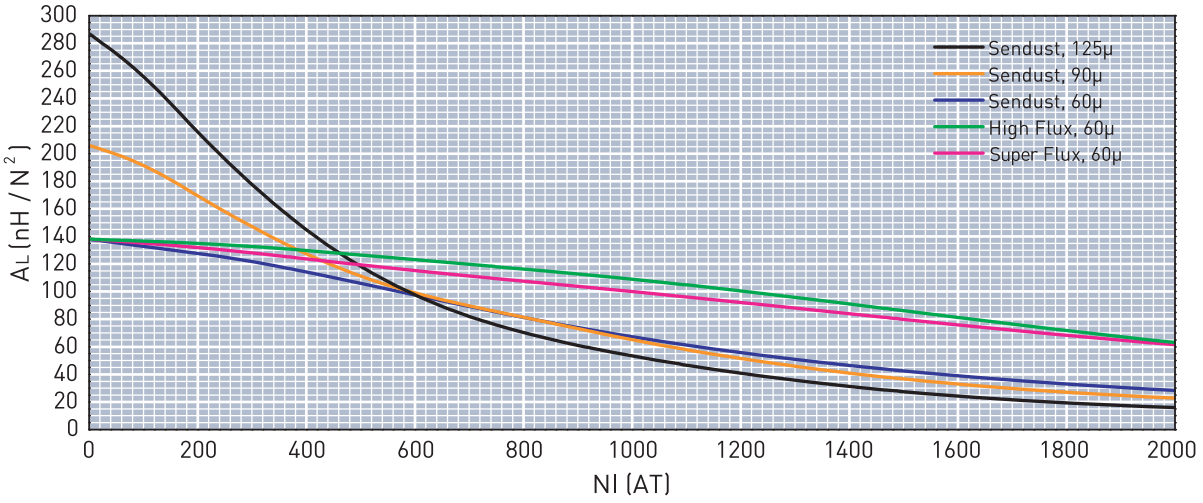
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	20	0.0027
9	0.298	23	0.0039
10	0.267	26	0.0055
11	0.238	30	0.0080
12	0.213	34	0.0115
13	0.190	39	0.0165

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	43	0.0230
15	0.153	49	0.0330
16	0.137	55	0.0469
17	0.122	62	0.0664
18	0.110	70	0.0948
19	0.098	78	0.1330

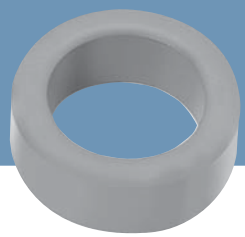
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	88	0.1890
21	0.079	99	0.2690
22	0.070	111	0.3810
23	0.063	124	0.5340
24	0.057	138	0.7520
25	0.051	156	1.0700

A_L value vs. DC Bias characteristics



OD 572

ID 35.56mm
HT 13.97mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
57.15mm	35.56mm	13.97mm	58mm	34.7mm	14.86mm	1.444cm^2	14.3cm	9.46cm^2	20.6492cm^3
2.25in	1.4in	0.55in	2.283in	1.366in	0.585in	0.224in^2	5.63in	1867000cmil	1.26in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	33	OR572M026	OR572H026	OR572S026	-	0.0631
60	75	OR572M060	OR572H060	OR572S060	OR572F060	0.0274
75	94	-	-	OR572S075	-	0.0219
90	112	-	-	OR572S090	OR572F090	0.0182
125	156	OR572M125	OR572H125	OR572S125	-	0.0131
147	185	OR572M147	-	-	-	0.0112
160	200	OR572M160	-	-	-	0.0103
173	-	-	-	-	-	0.0095
200	-	-	-	-	-	0.0082

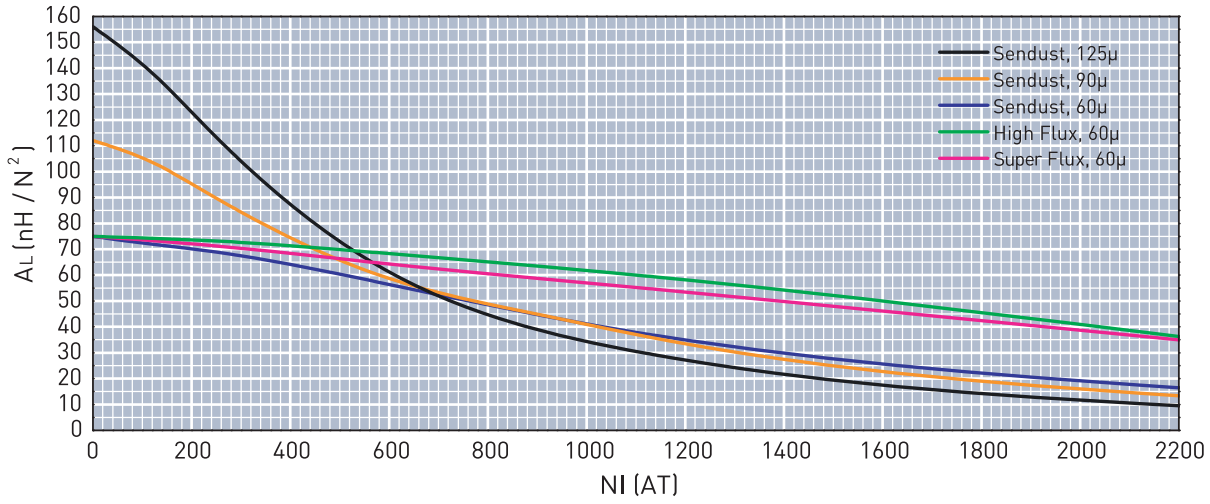
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	29	0.0032
9	0.298	33	0.0045
10	0.267	37	0.0064
11	0.238	42	0.0092
12	0.213	48	0.0133
13	0.190	54	0.0188

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	60	0.0263
15	0.153	68	0.0376
16	0.137	76	0.0531
17	0.122	85	0.0746
18	0.110	96	0.1070
19	0.098	108	0.1520

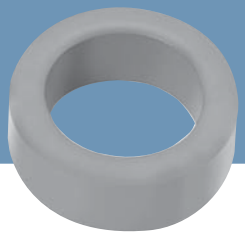
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	120	0.2110
21	0.079	135	0.3000
22	0.070	152	0.4280
23	0.063	169	0.5960
24	0.057	189	0.8450
25	0.051	212	1.1900

A_L value vs. DC Bias characteristics



OD 610

ID 32.6mm
HT 25mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
62mm	32.6mm	25mm	63.1mm	31.37mm	26.27mm	3.675cm^2	14.37cm	7.73cm^2	52.8098cm^3
2.441in	1.283in	0.984in	2.484in	1.235in	1.034in	0.57in^2	5.657in	1526000cmil	3.223in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	83	OR610M026	OR610H026	OR610S026	-	0.0429
60	192	OR610M060	OR610H060	OR610S060	OR610F060	0.0186
75	240	-	-	OR610S075	-	0.0149
90	288	-	-	OR610S090	OR610F090	0.0124
125	400	OR610M125	OR610H125	OR610S125	-	0.0089
147	470	OR610M147	-	-	-	0.0076
160	512	OR610M160	-	-	-	0.0070
173	-	-	-	-	-	0.0065
200	-	-	-	-	-	0.0056

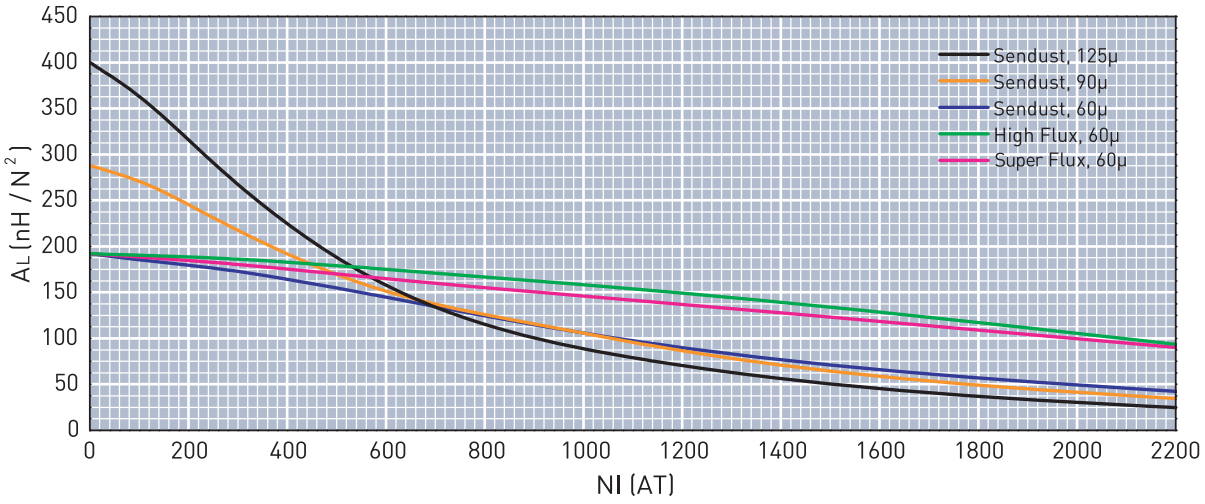
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	25	0.0042
9	0.298	29	0.0061
10	0.267	33	0.0088
11	0.238	37	0.0124
12	0.213	42	0.0178
13	0.190	47	0.0250

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	53	0.0355
15	0.153	60	0.0508
16	0.137	67	0.0717
17	0.122	75	0.1008
18	0.110	85	0.1448
19	0.098	95	0.2034

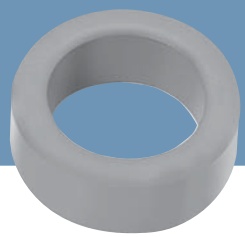
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	106	0.2854
21	0.079	119	0.4053
22	0.070	134	0.5771
23	0.063	149	0.8048
24	0.057	165	1.1281
25	0.051	185	1.5949

A_L value vs. DC Bias characteristics



OD 740

ID 45.3mm
HT 35mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
74.1mm	45.3mm	35mm	75.2mm	44.07mm	36.27mm	5.04cm^2	18.38cm	15.25cm^2	92.6352cm^3
2.917in	1.783in	1.378in	2.961in	1.735in	1.428in	0.781in^2	7.236in	3010000cmil	5.653in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	89	OR740M026	OR740H026	OR740S026	-	0.0269
60	206	OR740M060	OR740H060	OR740S060	OR740F060	0.0116
75	257	-	-	OR740S075	-	0.0093
90	309	-	-	OR740S090	OR740F090	0.0078
125	429	OR740M125	OR740H125	OR740S125	-	0.0056
147	-	-	-	-	-	0.0048
160	-	-	-	-	-	0.0044
173	-	-	-	-	-	0.0040
200	-	-	-	-	-	0.0035

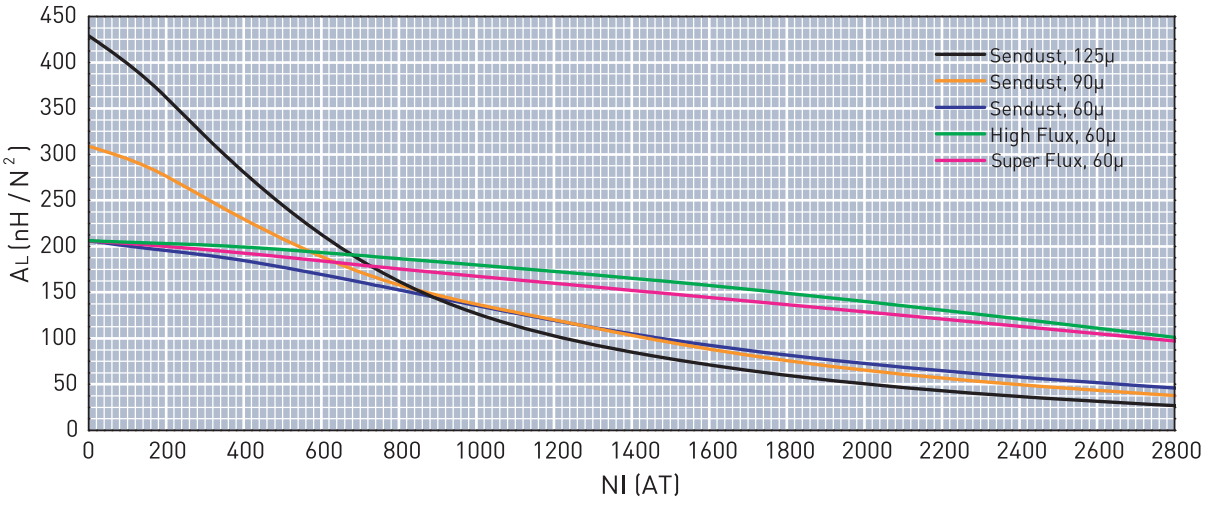
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	38	0.0082
9	0.298	45	0.0115
10	0.267	48	0.0163
11	0.238	55	0.0235
12	0.213	61	0.0330
13	0.190	69	0.0469

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	77	0.0660
15	0.153	87	0.0941
16	0.137	98	0.1340
17	0.122	110	0.1890
18	0.110	123	0.2678
19	0.098	138	0.3777

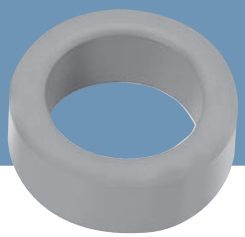
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	154	0.5300
21	0.079	173	0.7533
22	0.070	196	1.0790
23	0.063	215	1.4845
24	0.057	239	2.0887
25	0.051	269	2.9644

A_L value vs. DC Bias characteristics



OD 777

ID 49.23mm
HT 12.7mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
77.8mm	49.23mm	12.7mm	78.9mm	48mm	13.97mm	1.77cm^2	20cm	18.1cm^2	35.4cm^3
3.063in	1.938in	0.5in	3.106in	1.89in	0.55in	0.274in^2	7.874in	3572000cmil	2.16in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	30	OR777M026	OR777H026	OR777S026	-	0.0392
60	68	OR777M060	OR777H060	OR777S060	OR777F060	0.0170
75	85	-	-	OR777S075	-	0.0136
90	102	-	-	OR777S090	OR777F090	0.0113
125	142	OR777M125	OR777H125	OR777S125	-	0.0081
147	-	-	-	-	-	0.0069
160	-	-	-	-	-	0.0064
173	-	-	-	-	-	0.0059
200	-	-	-	-	-	0.0051

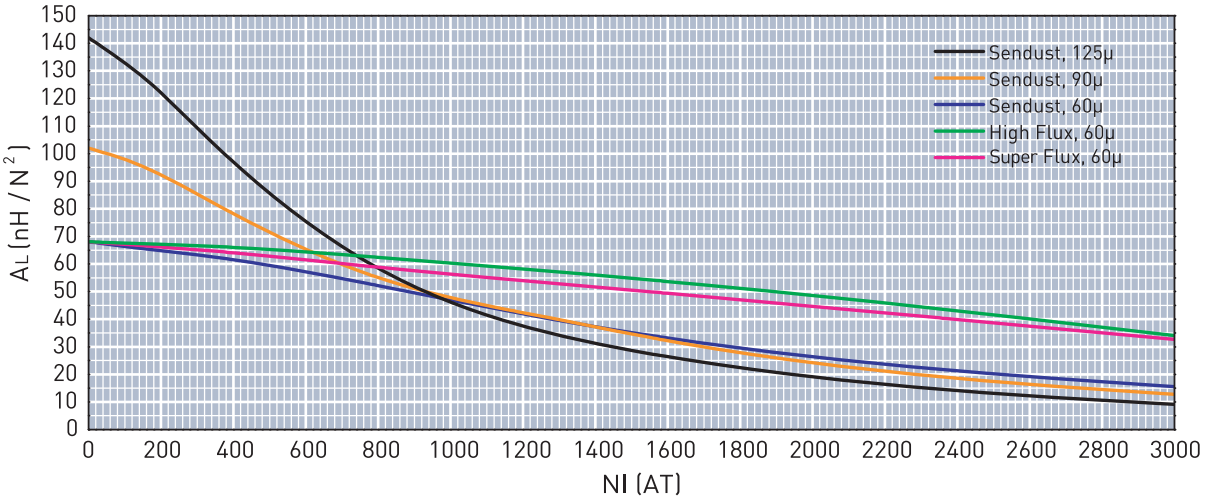
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	41	0.0055
9	0.298	47	0.0079
10	0.267	53	0.0113
11	0.238	60	0.0162
12	0.213	67	0.0228
13	0.190	76	0.0325

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	84	0.0454
15	0.153	95	0.0646
16	0.137	106	0.0912
17	0.122	119	0.1290
18	0.110	134	0.1830
19	0.098	150	0.2580

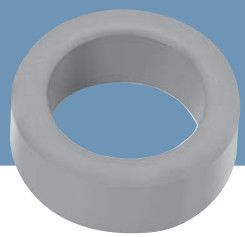
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	168	0.3640
21	0.079	188	0.5140
22	0.070	211	0.7320
23	0.063	235	1.0200
24	0.057	263	1.3000
25	0.051	295	1.8400

A_L value vs. DC Bias characteristics



OD 778

ID 49.23mm
HT 15.9mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
77.8mm	49.23mm	15.9mm	78.9mm	48mm	17.2mm	2.27cm^2	20cm	18.1cm^2	45.4cm^3
3.063in	1.938in	0.626in	3.106in	1.89in	0.677in	0.352in^2	7.874in	3572000cmil	2.77in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	Super Flux	
26	35	OR778M026	OR778H026	OR778S026	-	0.0332
60	85	OR778M060	OR778H060	OR778S060	OR778F060	0.0144
75	107	-	-	OR778S075	-	0.0115
90	128	-	-	OR778S090	OR778F090	0.0096
125	178	OR778M125	OR778H125	OR778S125	-	0.0069
147	-	-	-	-	-	0.0059
160	-	-	-	-	-	0.0054
173	-	-	-	-	-	0.0050
200	-	-	-	-	-	0.0043

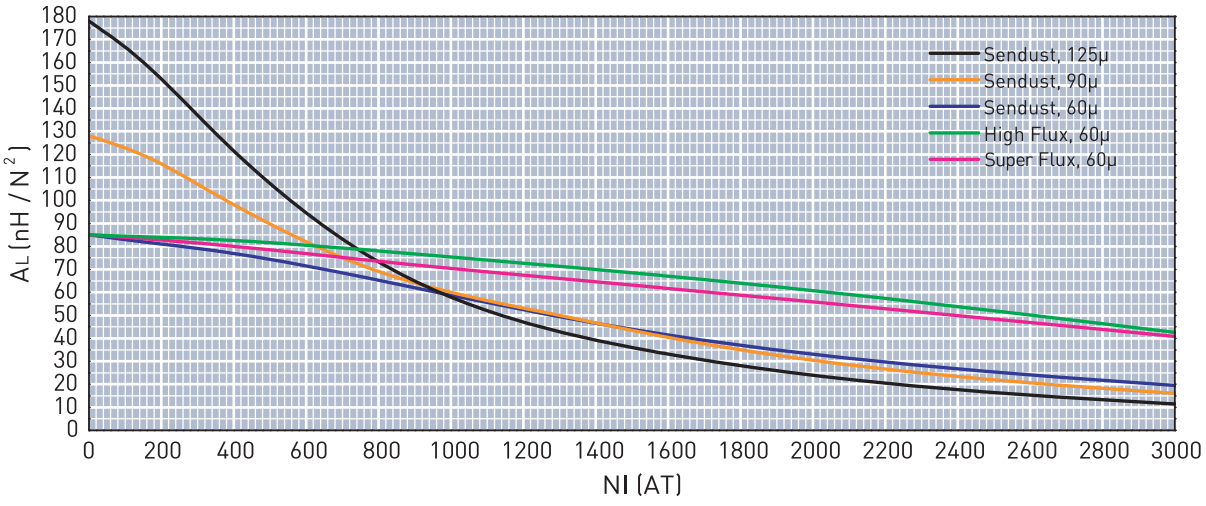
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	41	0.0061
9	0.298	47	0.0088
10	0.267	53	0.0125
11	0.238	60	0.0180
12	0.213	67	0.0253
13	0.190	76	0.0360

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	84	0.0503
15	0.153	95	0.0716
16	0.137	106	0.1010
17	0.122	119	0.1430
18	0.110	134	0.2030
19	0.098	150	0.2860

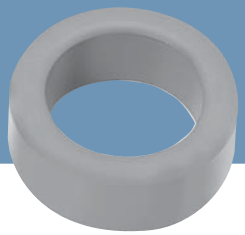
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	168	0.4040
21	0.079	188	0.5700
22	0.070	211	0.8120
23	0.063	235	1.1300
24	0.057	263	1.4400
25	0.051	295	2.0400

A_L value vs. DC Bias characteristics



OD 888

ID 66mm
HT 15.9mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
88.9mm	66mm	15.9mm	90.03mm	64.74mm	17.2mm	1.83cm^2	24.1cm	32.92cm^2	44.103cm^3
3.5in	2.598in	0.626in	3.544in	2.549in	0.677in	0.284in^2	9.488in	6497000cmil	2.691in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	SFlux	
26	24	OR888M026	OR888H026	OR888S026	-	N/A
60	57	OR888M060	OR888H060	OR888S060	OR888F060	
75	71	-	-	OR888S075	-	
90	85	-	-	OR888S090	OR888F090	
125	119	OR888M125	OR888H125	OR888S125	-	
147	-	-	-	-	-	
160	-	-	-	-	-	
173	-	-	-	-	-	
200	-	-	-	-	-	

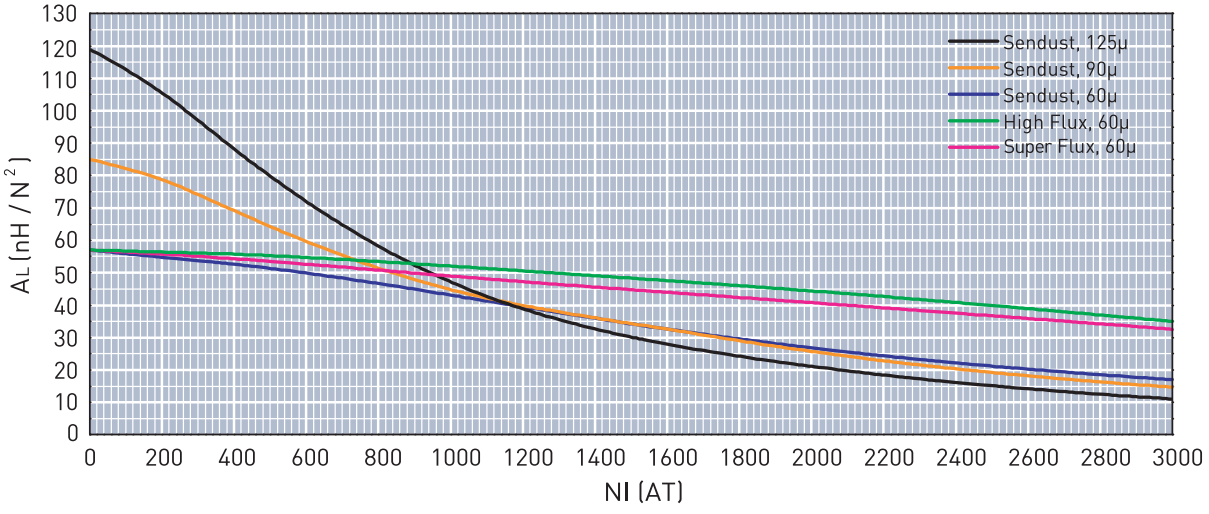
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	N/A	N/A
9	0.298		
10	0.267		
11	0.238		
12	0.213		
13	0.190		

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	N/A	N/A
15	0.153		
16	0.137		
17	0.122		
18	0.110		
19	0.098		

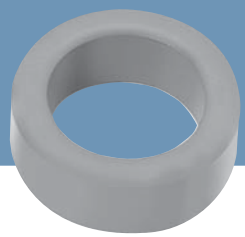
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	N/A	N/A
21	0.079		
22	0.070		
23	0.063		
24	0.057		
25	0.051		

A_L value vs. DC Bias characteristics



OD 1016

ID 57.2mm
HT 16.5mm



Core dimensions and Physical specifications

Before Coating			After Coating			Physical specifications			
						Cross Section	Path Length	Window Area	Volume
OD, max	ID, min	HT, max	OD, max	ID, min	HT, max	(Ae)	(le)	(Wa)	(V)
101.6mm	57.2mm	16.5mm	103.1mm	55.7mm	17.8mm	3.522cm^2	24.27cm	24.37cm^2	85.4789cm^3
4in	2.252in	0.65in	4.059in	2.193in	0.701in	0.546in^2	9.555in	4809000cmil	5.216in^3

Core Part Number

Permeability(μ)	A_L (nH/N^2)	Part Number				DC Resistance(Rdc) per Inductance(Ω /mH)
		MPP	High Flux	Sendust	SFlux	
26	48	OR1016M026	OR1016H026	OR1016S026	-	N/A
60	112	OR1016M060	OR1016H060	OR1016S060	OR1016F060	
75	137	-	-	OR1016S075	-	
90	164	-	-	OR1016S090	OR1016F090	
125	228	OR1016M125	OR1016H125	OR1016S125	-	
147	-	-	-	-	-	
160	-	-	-	-	-	
173	-	-	-	-	-	
200	-	-	-	-	-	

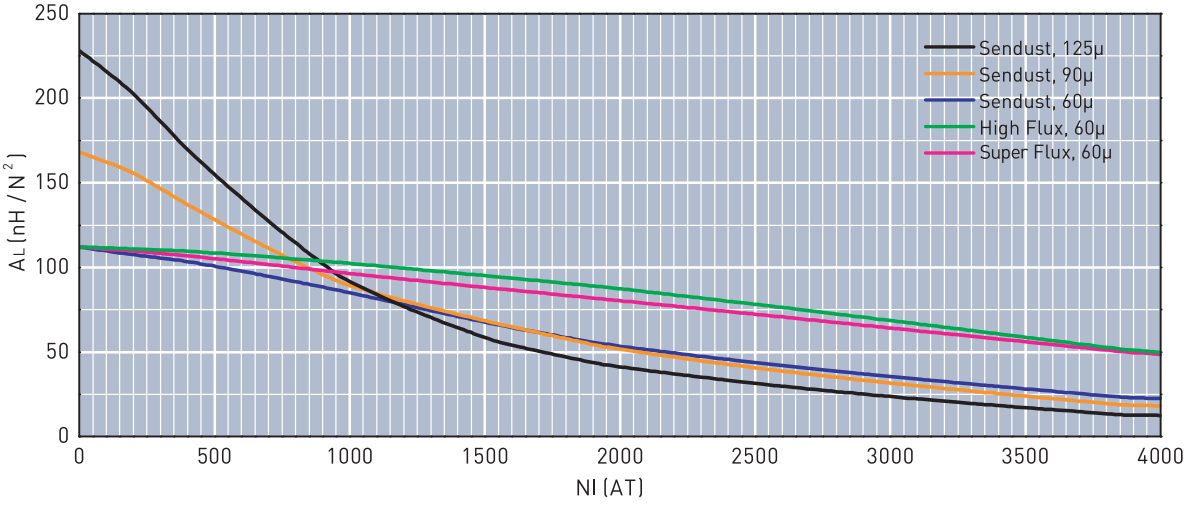
Winding Information

AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
8	0.334	N/A	N/A
9	0.298		
10	0.267		
11	0.238		
12	0.213		
13	0.190		

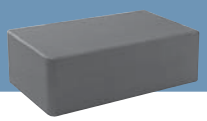
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
14	0.171	N/A	N/A
15	0.153		
16	0.137		
17	0.122		
18	0.110		
19	0.098		

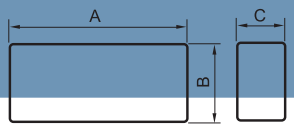
AWG wire		Single layer	
No.	Dia.(cm)	Turns	Rdc, Ω
20	0.088	N/A	N/A
21	0.079		
22	0.070		
23	0.063		
24	0.057		
25	0.051		

A_L value vs. DC Bias characteristics



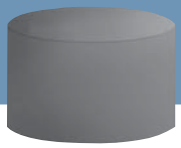
BLOCK CORES

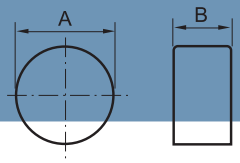




Part No.	Unit dimension			AL value(nH/ N²)		Path Length	Cross Section	Volume	Comment
	A(mm)	B(mm)	C(mm)	40μ	60μ	le(Cm)	Ae(Cm²)	Ve(Cm³)	
SB5315	50	30	15	121	181	18.71	4.5	10	Assembled with 4 pcs
SB5320	50	30	20	165	247	18.28	6	5	
SB6315	60	30	15	100	149	22.71	4.5	18	
SB6320	60	30	20	135	203	22.28	6	12	
SB7220	70	20	20	77	115	26.28	4	21	
SB7315	70	30	15	85	127	26.71	4.5	28	
SB7320	70	30	20	115	172	26.28	6	21	
SB8220	80	20	20	67	99	30.28	4	32	
SB8315	80	30	15	74	110	30.71	4.5	40	
SB8320	80	30	20	100	149	30.28	6	32	

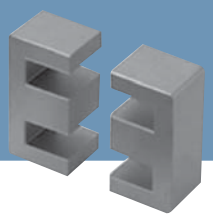
CYLINDER CORES

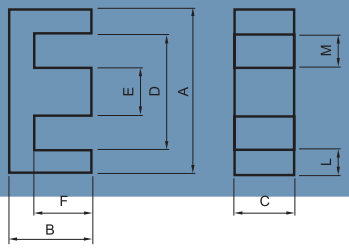




Part No.	Unit dimension		Cross Section	Comment
	A(mm)	B(mm)	Ae(Cm²)	
SR2020	20	20	3.14	Assembled with SB Cores
SR2425	24	25	4.52	
SR2825	28	25	6.00	
SR3030	30	30	7.07	
SR4030	40	30	12.49	
SR6030	60	30	28.27	

E CORES

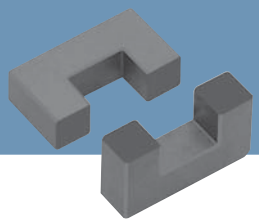


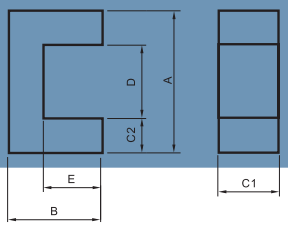


Part No.	unit	A	B	C	D(min.)	E	F(min.)	L	M(min)
SE1808	mm	19.30	8.10	4.78	13.90	4.78	5.54	2.39	4.65
	in	.760±.012	.319±.007	.188±.006	0.548	.188±.005	0.218	0.094	0.183
SE2510	mm	25.4	9.53	6.53	18.8	6.22	6.22	3.17	6.25
	in	1.000±.015	.375±.007	.250±.004	0.74	.250±.005	0.245	0.125	0.246
SE3007	mm	30.1	15.01	7.06	19.5	6.96	9.7	5.11	6.46
	in	1.185±.018	.591±.009	.278±.006	0.768	.274±.008	0.376	0.201	0.254
SE3515	mm	34.54	14.1	9.35	25.3	9.32	9.65	4.45	7.87
	in	1.360±.020	.557±.009	.368±.007	0.995	.367±.008	0.378	0.175	0.31
SE4017	mm	42.8	21.1	10.8	30.4	11.9	15	5.95	9.27
	in	1.687±.025	.830±.013	.424±.010	1.195	.468±.010	0.587	0.234	0.365
SE4020	mm	42.8	21.1	15.4	30.4	11.9	15	5.95	9.27
	in	1.687±.025	.830±.013	.608±.010	1.195	.468±.010	0.587	0.234	0.365
SE4022	mm	42.8	21.1	20	30.4	11.9	15	5.95	9.27
	in	1.687±.025	.830±.013	.788±.010	1.195	.468±.010	0.587	0.234	0.365
SE4317	mm	40.9	16.5	12.5	28.3	12.5	10.4	6	7.9
	in	1.609±.024	.650±.011	.493±.007	1.115	.493±.008	0.409	0.238	0.31
SE5528	mm	54.9	27.6	20.6	37.5	16.8	18.5	8.38	10.3
	in	2.16±.032	1.085±.016	.812±.015	1.476	.660±.015	0.729	0.33	0.405
SE5530	mm	54.9	27.6	24.61	37.5	16.8	18.5	8.38	10.3
	in	2.16±.032	1.085±.016	.969±.015	1.476	.660±.015	0.729	0.33	0.405
SE6527	mm	65.1	32.5	27	44.2	19.7	22.2	10	12.1
	in	2.563±.050	1.279±.150	1.063±.016	1.74	.775±.012	0.874	0.394	0.476
SE7228	mm	72.39	27.94	19.05	52.63	19.05	17.78	9.52	16.89
	in	2.850±.043	1.100±.020	.750±.015	2.072	.750±.015	0.699	0.375	0.665
SE8020	mm	80.01	38.1	19.81	59.28	19.81	28.14	9.91	19.81
	in	3.150±.047	1.500±.025	.780±.015	2.334	.780±.015	1.103	0.39	0.78
SE8044	mm	80.01	45.09	19.81	59.28	19.81	34.67	9.91	20.19
	in	3.15±.035	1.755±.025	.780±.015	2.33	.780±.015	1.35	0.408	0.78

Part No.	AL value(nH/ N²), Tolerance: ±12%			Path Length	Cross Section	Volume
	26μ	60μ	90μ	le(Cm)	Ae(Cm²)	Ve(Cm³)
SE1808	26	48	69	4.01	0.23	0.91
SE2510	39	70	100	4.85	0.39	1.87
SE3007	33	71	92	6.56	0.60	3.94
SE3515	56	102	146	6.94	0.84	5.83
SE4017	56	105	151	9.84	1.28	12.60
SE4020	80	150	217	9.84	1.83	18.00
SE4022	104	194	281	9.84	2.37	23.30
SE4317	88	163	234	7.75	1.52	11.80
SE5528	116	219	-	12.30	3.50	43.10
SE5530	138	261	-	12.30	4.17	51.40
SE6527	162	300	-	14.70	5.40	79.40
SE7228	130	236	-	13.70	3.68	50.30
SE8020	103	190	-	18.50	3.89	72.10
SE8044	91	-	-	20.80	3.89	80.91

U CORES





Part No.	unit	A	B	C1	C2(norm)	D(min)	E(min)
SU4110	mm	40.6	11.2	9.5	8.38	23.88	2.79
	in	1.6±0.020	.440±0.020	.375±0.015	0.33	0.94	0.1
SU4111	mm	40.6	11.2	12.1	8.38	23.88	2.79
	in	1.6±0.020	.440±0.0100	.475±0.015	0.33	0.94	0.1
SU5527	mm	54.9	27.6	16.3	10.5	33.9	17
	in	2.16±0.0	1.085±0.020	.643±0.012	0.42	1.3	0.65
SU5529	mm	54.9	27.6	23.2	10.5	33.9	17
	in	2.16±0.025	1.085±0.020	.912±0.015	0.42	1.3	0.65
SU6527	mm	65.1	32.5	27	10	44.2	22.2
	in	2.565±0.053	1.28±0.012	1.063±0.016	0.394	1.741	0.874
SU6533	mm	65.1	32.5	20	12.5	40.1	20
	in	2.565±0.053	1.28±0.012	.788±0.016	0.493	1.545	0.764
SU8020	mm	80	38.1	19.8	9.9	59.3	28.1
	in	3.15±0.035	1.5±0.025	.780±0.015	0.39	2.334	1.108

Part No.	AL value(nH/ N^2), Tolerance: ±12%				Path Length	Cross Section	Volume
	26μ	40μ	60μ	90μ	le(mm)	Ae(mm^2)	Ve(mm^3)
SU4110	-	56	77.5	109	8.52	0.80	6.81
SU4111	-	72	95	138	8.52	1.01	8.60
SU5527	67	-	-	-	16.80	1.72	28.90
SU5529	85	-	-	-	16.80	2.44	40.99
SU6527	89	-	-	-	21.90	2.70	59.10
SU6533	82	-	-	-	19.90	2.50	49.75
SU8020	64	-	-	-	27.30	1.95	53.20

Core Cross Reference Table

MPP

High Flux

Sendust

Core Cross Reference Table MPP

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR035M060	CM035060	N/A	MP-014060-8	0.140	3.56	0.070	1.78	0.060	1.52	60
OR035M125	CM035125	55140	MP-014125-8	0.140	3.56	0.070	1.78	0.060	1.52	125
OR035M147	CM035147	55139	MP-014147-8	0.140	3.56	0.070	1.78	0.060	1.52	147
OR035M160	CM035160	55138	MP-014160-8	0.140	3.56	0.070	1.78	0.060	1.52	160
OR039M060	CM039060	N/A	MP-015060-8	0.155	3.94	0.088	2.24	0.100	2.54	60
OR039M125	CM039125	55150	MP-015125-2	0.155	3.94	0.088	2.24	0.100	2.54	125
OR039M147	CM039147	55149	MP-015147-8	0.155	3.94	0.088	2.24	0.100	2.54	147
OR039M160	CM039160	55148	MP-015160-8	0.155	3.94	0.088	2.24	0.100	2.54	160
OR046M060	CM046060	55181	MP-018060-8	0.183	4.65	0.093	2.36	0.100	2.54	60
OR046M125	CM046125	55180	MP-018125-8	0.183	4.65	0.093	2.36	0.100	2.54	125
OR046M147	CM046147	55179	MP-018147-8	0.183	4.65	0.093	2.36	0.100	2.54	147
OR046M160	CM046160	55178	MP-018160-8	0.183	4.65	0.093	2.36	0.100	2.54	160
OR063M060	CM063060	55021	MP-025060-8	0.250	6.35	0.110	2.79	0.110	2.79	60
OR063M125	CM063125	55020	MP-025125-8	0.250	6.35	0.110	2.79	0.110	2.79	125
OR063M147	CM063147	55019	MP-025147-8	0.250	6.35	0.110	2.79	0.110	2.79	147
OR063M160	CM063160	55018	MP-025160-8	0.250	6.35	0.110	2.79	0.110	2.79	160
OR063M173	CM063173	55014	MP-025173-8	0.250	6.35	0.110	2.79	0.110	2.79	173
OR063M200	CM063200	55017	N/A	0.250	6.35	0.110	2.79	0.110	2.79	200
OR066M026	CM066026	55242	MP-027026-8	0.260	6.60	0.105	2.67	0.100	2.54	26
OR066M060	CM066060	55241	MP-027060-8	0.260	6.60	0.105	2.67	0.100	2.54	60
OR066M125	CM066125	55240	MP-027125-8	0.260	6.60	0.105	2.67	0.100	2.54	125
OR066M147	CM066147	55239	MP-027147-8	0.260	6.60	0.105	2.67	0.100	2.54	147
OR066M160	CM066160	55238	MP-027160-8	0.260	6.60	0.105	2.67	0.100	2.54	160
OR066M173	CM066173	55234	MP-027173-8	0.260	6.60	0.105	2.67	0.100	2.54	173
OR066M200	CM066200	55237	N/A	0.260	6.60	0.105	2.67	0.100	2.54	200
OR067M026	CM067026	55272	MP-026026-8	0.260	6.60	0.105	2.67	0.188	4.78	26
OR067M060	CM067060	55271	MP-026060-8	0.260	6.60	0.105	2.67	0.188	4.78	60
OR067M125	CM067125	55270	MP-026125-8	0.260	6.60	0.105	2.67	0.188	4.78	125
OR067M147	CM067147	55269	MP-026147-8	0.260	6.60	0.105	2.67	0.188	4.78	147
OR067M160	CM067160	55268	MP-026160-8	0.260	6.60	0.105	2.67	0.188	4.78	160
OR067M173	CM067173	55264	MP-026173-8	0.260	6.60	0.105	2.67	0.188	4.78	173
OR067M200	CM067200	55267	N/A	0.260	6.60	0.105	2.67	0.188	4.78	200
OR068M026	CM068026	55412	MP-028026-8	0.270	6.86	0.156	3.96	0.200	5.08	26
OR068M060	CM068060	55411	MP-028060-8	0.270	6.86	0.156	3.96	0.200	5.08	60
OR068M125	CM068125	55410	MP-028125-8	0.270	6.86	0.156	3.96	0.200	5.08	125
OR068M147	CM068147	55409	MP-028147-8	0.270	6.86	0.156	3.96	0.200	5.08	147
OR068M160	CM068160	55408	MP-028160-8	0.270	6.86	0.156	3.96	0.200	5.08	160
OR068M173	CM068173	55404	MP-028173-8	0.270	6.86	0.156	3.96	0.200	5.08	173
OR068M200	CM068200	55407	N/A	0.270	6.86	0.156	3.96	0.200	5.08	200
OR078M026	CM078026	55032	MP-031026-8	0.310	7.87	0.156	3.96	0.125	3.18	26
OR078M060	CM078060	55031	MP-031060-8	0.310	7.87	0.156	3.96	0.125	3.18	60
OR078M125	CM078125	55030	MP-031125-8	0.310	7.87	0.156	3.96	0.125	3.18	125
OR078M147	CM078147	55029	MP-031147-8	0.310	7.87	0.156	3.96	0.125	3.18	147
OR078M160	CM078160	55028	MP-031160-8	0.310	7.87	0.156	3.96	0.125	3.18	160
OR078M173	CM078173	55024	MP-031173-8	0.310	7.87	0.156	3.96	0.125	3.18	173
OR078M200	CM078200	55027	N/A	0.310	7.87	0.156	3.96	0.125	3.18	200
OR096M026	CM096026	55282	MP-039026-8	0.380	9.65	0.188	4.78	0.125	3.18	26
OR096M060	CM096060	55281	MP-039060-8	0.380	9.65	0.188	4.78	0.125	3.18	60
OR096M125	CM096125	55280	MP-039125-8	0.380	9.65	0.188	4.78	0.125	3.18	125
OR096M147	CM096147	55279	MP-039147-8	0.380	9.65	0.188	4.78	0.125	3.18	147
OR096M160	CM096160	55278	MP-039160-8	0.380	9.65	0.188	4.78	0.125	3.18	160

Core Cross Reference Table MPP

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR096M173	CM096173	55274	MP-039173-8	0.380	9.65	0.188	4.78	0.125	3.18	173
OR096M200	CM096200	55277	N/A	0.380	9.65	0.188	4.78	0.125	3.18	200
OR097M026	CM097026	55292		0.380	9.65	0.188	4.78	0.156	3.96	26
OR097M060	CM097060	55291	MP-038060-8	0.380	9.65	0.188	4.78	0.156	3.96	60
OR097M125	CM097125	55290	MP-038125-8	0.380	9.65	0.188	4.78	0.156	3.96	125
OR097M147	CM097147	55289	MP-038147-8	0.380	9.65	0.188	4.78	0.156	3.96	147
OR097M160	CM097160	55288	MP-038160-2	0.380	9.65	0.188	4.78	0.156	3.96	160
OR097M173	CM097173	55284	MP-038173-2	0.380	9.65	0.188	4.78	0.156	3.96	173
OR097M200	CM097200	55287	N/A	0.380	9.65	0.188	4.78	0.156	3.96	200
OR102M026	CM102026	55042	MP-040026-2	0.400	10.16	0.200	5.08	0.156	3.96	26
OR102M060	CM102060	55041	MP-040060-2	0.400	10.16	0.200	5.08	0.156	3.96	60
OR102M125	CM102125	55040	MP-040125-2	0.400	10.16	0.200	5.08	0.156	3.96	125
OR102M147	CM102147	55039	MP-040147-2	0.400	10.16	0.200	5.08	0.156	3.96	147
OR102M160	CM102160	55038	MP-040160-2	0.400	10.16	0.200	5.08	0.156	3.96	160
OR102M173	CM102173	55034	MP-040173-2	0.400	10.16	0.200	5.08	0.156	3.96	173
OR102M200	CM102200	55037	MP-040200-2	0.400	10.16	0.200	5.08	0.156	3.96	200
OR112M026	CM112026	55132	MP-044026-2	0.440	11.18	0.250	6.35	0.156	3.96	26
OR112M060	CM112060	55131	MP-044060-2	0.440	11.18	0.250	6.35	0.156	3.96	60
OR112M125	CM112125	55130	MP-044125-2	0.440	11.18	0.250	6.35	0.156	3.96	125
OR112M147	CM112147	55129	MP-044147-2	0.440	11.18	0.250	6.35	0.156	3.96	147
OR112M160	CM112160	55128	MP-044160-2	0.440	11.18	0.250	6.35	0.156	3.96	160
OR112M173	CM112173	55124	MP-044173-2	0.440	11.18	0.250	6.35	0.156	3.96	173
OR112M200	CM112200	55127	MP-044200-2	0.440	11.18	0.250	6.35	0.156	3.96	200
OR127M026	CM127026	55052	MP-050026-2	0.500	12.70	0.300	7.62	0.187	4.75	26
OR127M060	CM127060	55051	MP-050060-2	0.500	12.70	0.300	7.62	0.187	4.75	60
OR127M125	CM127125	55050	MP-050125-2	0.500	12.70	0.300	7.62	0.187	4.75	125
OR127M147	CM127147	55049	MP-050147-2	0.500	12.70	0.300	7.62	0.187	4.75	147
OR127M160	CM127160	55048	MP-050160-2	0.500	12.70	0.300	7.62	0.187	4.75	160
OR127M173	CM127173	55044	MP-050173-2	0.500	12.70	0.300	7.62	0.187	4.75	173
OR127M200	CM127200	55047	MP-050200-2	0.500	12.70	0.300	7.62	0.187	4.75	200
OR166M026	CM166026	55122	MP-065026-2	0.650	16.51	0.400	10.16	0.250	6.35	26
OR166M060	CM166060	55121	MP-065060-2	0.650	16.51	0.400	10.16	0.250	6.35	60
OR166M125	CM166125	55120	MP-065125-2	0.650	16.51	0.400	10.16	0.250	6.35	125
OR166M147	CM166147	55119	MP-065147-2	0.650	16.51	0.400	10.16	0.250	6.35	147
OR166M160	CM166160	55118	MP-065160-2	0.650	16.51	0.400	10.16	0.250	6.35	160
OR166M173	CM166173	55114	MP-065173-2	0.650	16.51	0.400	10.16	0.250	6.35	173
OR166M200	CM166200	55117	MP-065200-2	0.650	16.51	0.400	10.16	0.250	6.35	200
OR172M026	CM172026	55382	MP-068026-2	0.680	17.27	0.380	9.65	0.250	6.35	26
OR172M060	CM172060	55381	MP-068060-2	0.680	17.27	0.380	9.65	0.250	6.35	60
OR172M125	CM172125	55380	MP-068125-2	0.680	17.27	0.380	9.65	0.250	6.35	125
OR172M147	CM172147	55379	MP-068147-2	0.680	17.27	0.380	9.65	0.250	6.35	147
OR172M160	CM172160	55378	MP-068160-2	0.680	17.27	0.380	9.65	0.250	6.35	160
OR172M173	CM172173	55374	MP-068173-2	0.680	17.27	0.380	9.65	0.250	6.35	173
OR172M200	CM172200	55377	N/A	0.680	17.27	0.380	9.65	0.250	6.35	200
OR203M026	CM203025	55208	MP-080026-2	0.800	20.32	0.500	12.70	0.250	6.35	26
OR203M060	CM203060	55848	MP-080060-2	0.800	20.32	0.500	12.70	0.250	6.35	60
OR203M125	CM203125	55206	MP-080125-2	0.800	20.32	0.500	12.70	0.250	6.35	125
OR203M147	CM203147	55205	MP-080147-2	0.800	20.32	0.500	12.70	0.250	6.35	147
OR203M160	CM203160	55204	MP-080160-2	0.800	20.32	0.500	12.70	0.250	6.35	160
OR203M200	CM203200	55200	MP-080173-2	0.800	20.32	0.500	12.70	0.250	6.35	173
OR203M200	CM203200	55203	N/A	0.800	20.32	0.500	12.70	0.250	6.35	200

Core Cross Reference Table MPP

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR229M026	CM229026	55312	MP-090026-2	0.900	22.86	0.550	13.97	0.300	7.62	26
OR229M060	CM229060	55059	MP-090060-2	0.900	22.86	0.550	13.97	0.300	7.62	60
OR229M125	CM229125	55310	MP-090125-2	0.900	22.86	0.550	13.97	0.300	7.62	125
OR229M147	CM229147	55309	MP-090147-2	0.900	22.86	0.550	13.97	0.300	7.62	147
OR229M160	CM229160	55308	MP-090160-2	0.900	22.86	0.550	13.97	0.300	7.62	160
OR229M173	CM229173	55304	MP-090173-2	0.900	22.86	0.550	13.97	0.300	7.62	173
OR229M200	CM229200	55307	N/A	0.900	22.86	0.550	13.97	0.300	7.62	200
OR234M026	CM234026	55352	MP-092026-2	0.928	23.57	0.567	14.40	0.350	8.89	26
OR234M060	CM234060	55351	MP-092060-2	0.928	23.57	0.567	14.40	0.350	8.89	60
OR234M125	CM234125	55350	MP-092125-2	0.928	23.57	0.567	14.40	0.350	8.89	125
OR234M147	CM234147	55349	MP-092147-2	0.928	23.57	0.567	14.40	0.350	8.89	147
OR234M160	CM234160	55348	MP-092160-2	0.928	23.57	0.567	14.40	0.350	8.89	160
OR234M173	CM234173	55344	MP-092173-2	0.928	23.57	0.567	14.40	0.350	8.89	173
OR234M200	CM234200	55347	N/A	0.928	23.57	0.567	14.40	0.350	8.89	200
OR270M026	CM270026	55932	MP-106026-2	1.060	26.92	0.580	14.73	0.440	11.18	26
OR270M060	CM270060	55894	MP-106060-2	1.060	26.92	0.580	14.73	0.440	11.18	60
OR270M125	CM270125	55930	MP-106125-2	1.060	26.92	0.580	14.73	0.440	11.18	125
OR270M147	CM270147	55929	MP-106147-2	1.060	26.92	0.580	14.73	0.440	11.18	147
OR270M160	CM270160	55928	MP-106160-2	1.060	26.92	0.580	14.73	0.440	11.18	160
OR270M173	CM270173	55924	MP-106173-2	1.060	26.92	0.580	14.73	0.440	11.18	173
OR270M200	CM270200	55927	N/A	1.060	26.92	0.580	14.73	0.440	11.18	200
OR330M026	CM330026	55550	MP-130026-2	1.300	33.02	0.785	19.94	0.420	10.67	26
OR330M060	CM330060	55071	MP-130060-2	1.300	33.02	0.785	19.94	0.420	10.67	60
OR330M125	CM330125	55548	MP-130125-2	1.300	33.02	0.785	19.94	0.420	10.67	125
OR330M147	CM330147	55547	MP-130147-2	1.300	33.02	0.785	19.94	0.420	10.67	147
OR330M160	CM330160	55546	MP-130160-2	1.300	33.02	0.785	19.94	0.420	10.67	160
OR330M173	CM330173	55542	MP-130173-2	1.300	33.02	0.785	19.94	0.420	10.67	173
OR343M026	CM343026	55587	MP-135025-2	1.350	34.29	0.920	23.37	0.350	8.89	26
OR343M060	CM343060	55586	MP-135060-2	1.350	34.29	0.920	23.37	0.350	8.89	60
OR343M125	CM343125	55585	MP-135125-2	1.350	34.29	0.920	23.37	0.350	8.89	125
OR343M147	CM343147	55584	MP-135147-2	1.350	34.29	0.920	23.37	0.350	8.89	147
OR343M160	CM343160	55583	MP-135160-2	1.350	34.29	0.920	23.37	0.350	8.89	160
OR343M173	CM343173	55579	MP-135173-2	1.350	34.29	0.920	23.37	0.350	8.89	173
OR358M026	CM358026	55326	MP-141026-2	1.410	35.81	0.880	22.35	0.412	10.46	26
OR358M060	CM358060	55076	MP-141060-2	1.410	35.81	0.880	22.35	0.412	10.46	60
OR358M125	CM358125	55324	MP-141125-2	1.410	35.81	0.880	22.35	0.412	10.46	125
OR358M147	CM358147	55323	MP-141147-2	1.410	35.81	0.880	22.35	0.412	10.46	147
OR358M160	CM358160	55322	MP-141160-2	1.410	35.81	0.880	22.35	0.412	10.46	160
OR358M173	CM358173	55318	MP-141173-2	1.410	35.81	0.880	22.35	0.412	10.46	173
OR400M026	CM400026	55256	MP-157026-2	1.570	39.88	0.950	24.13	0.570	14.48	26
OR400M060	CM400060	55083	MP-157060-2	1.570	39.88	0.950	24.13	0.570	14.48	60
OR400M125	CM400125	55254	MP-157125-2	1.570	39.88	0.950	24.13	0.570	14.48	125
OR400M147	CM400147	55253	MP-157147-2	1.570	39.88	0.950	24.13	0.570	14.48	147
OR400M160	CM400160	55252	MP-157160-2	1.570	39.88	0.950	24.13	0.570	14.48	160
OR400M173	CM400173	55248	MP-157173-2	1.570	39.88	0.950	24.13	0.570	14.48	173
OR467M026	CS467026	55440	MP-184026-2	1.840	46.74	0.950	24.13	0.710	18.03	26
OR467M060	CS467060	55439	MP-184060-2	1.840	46.74	0.950	24.13	0.710	18.03	60
OR467M125	CS467125	55438	MP-184125-2	1.840	46.74	0.950	24.13	0.710	18.03	125
OR467M147	CS467147	55437	MP-184147-2	1.840	46.74	0.950	24.13	0.710	18.03	147
OR467M160	CS467160	55436	MP-184160-2	1.840	46.74	0.950	24.13	0.710	18.03	160
OR468M026	CM468026	55091	MP-085026-2	1.840	46.74	1.130	28.70	0.600	15.24	26

Core Cross Reference Table MPP

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR468M060	CM468060	55090	MP-185060-2	1.840	46.74	1.130	28.70	0.600	15.24	60
OR468M125	CM468125	55089	MP-185125-2	1.840	46.74	1.130	28.70	0.600	15.24	125
OR468M147	CM468147	55088	MP-185147-2	1.840	46.74	1.130	28.70	0.600	15.24	147
OR468M160	CM468160	55087	MP-185160-2	1.840	46.74	1.130	28.70	0.600	15.24	160
OR508M026	CM508026	55717	MP-200026-2	2.000	50.80	1.250	31.75	0.530	13.46	26
OR508M060	CM508060	55716	MP-200060-2	2.000	50.80	1.250	31.75	0.530	13.46	60
OR508M125	CM508125	55715	MP-200125-2	2.000	50.80	1.250	31.75	0.530	13.46	125
OR508M147	CM508147	55714	MP-200147-2	2.000	50.80	1.250	31.75	0.530	13.46	147
OR508M160	CM508160	55713	MP-200160-2	2.000	50.80	1.250	31.75	0.530	13.46	160
OR571M026	CM571026	55191	MP-226026-2	2.250	57.15	1.039	26.39	0.600	15.24	26
OR571M060	CM571060	55192	MP-226060-2	2.250	57.15	1.039	26.39	0.600	15.24	60
OR571M125	CM571125	55195	MP-226125-2	2.250	57.15	1.039	26.39	0.600	15.24	125
OR571M147	CM571147	55196	MP-226147-2	2.250	57.15	1.039	26.39	0.600	15.24	147
OR571M160	CM571160	55197	MP-226160-2	2.250	57.15	1.039	26.39	0.600	15.24	160
OR572M026	CM572026	55111	MP-225026-2	2.250	57.15	1.400	35.56	0.550	13.97	26
OR572M060	CM572060	55110	MP-225060-2	2.250	57.15	1.400	35.56	0.550	13.97	60
OR572M125	CM572125	55109	MP-225125-2	2.250	57.15	1.400	35.56	0.550	13.97	125
OR572M147	CM572147	55108	MP-225147-2	2.250	57.15	1.400	35.56	0.550	13.97	147
OR572M160	CM572160	55107	MP-225160-2	2.250	57.15	1.400	35.56	0.550	13.97	160
OR610M026	CM610026	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	26
OR610M060	CM610060	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	60
OR610M125	CM610125	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	125
OR740M026	CM740026	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	26
OR740M060	CM740060	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	60
OR740M125	CM740125	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	125
OR777M026	CM777026	55868	MP-300026-2	3.063	77.80	1.938	49.23	0.500	12.70	26
OR777M060	CM777060	55867	MP-300060-2	3.063	77.80	1.938	49.23	0.500	12.70	60
OR777M125	CM777125	55866	MP-300125-2	3.063	77.80	1.938	49.23	0.500	12.70	125
OR778M026	CM778026	55908	MP-301026-2	3.063	77.80	1.938	49.23	0.626	15.90	26
OR778M060	CM778060	55907	MP-301060-2	3.063	77.80	1.938	49.23	0.626	15.90	60
OR778M125	CM778125	55906	MP-301125-2	3.063	77.80	1.938	49.23	0.626	15.90	125
OR888M026	CM888026	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	26
OR888M060	CM888060	N/A	N/A	3.063	88.90	2.598	66.00	0.626	15.90	60
OR888M125	CM888125	N/A	N/A	3.063	88.90	2.598	66.00	0.626	15.90	125
OR1016M026	CM1016026	55102	MP-400026-2	3.980	101.60	2.252	57.20	0.650	16.50	26
OR1016M060	CM1016060	55099	MP-400060-2	3.980	101.60	2.252	57.20	0.650	16.50	60
OR1016M125	CM1016125	55098	MP-400125-2	3.980	101.60	2.252	57.20	0.650	16.50	125

Core Cross Reference Table — High Flux

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR035H060	CH035060	N/A	HF-014060-8	0.140	3.56	0.070	1.78	0.060	1.52	60
OR035H125	CH035125	N/A	HF-014125-8	0.140	3.56	0.070	1.78	0.060	1.52	125
OR039H060	CH039060	N/A	HF-015060-8	0.155	3.94	0.088	2.24	0.100	2.54	60
OR039H125	CH039125	N/A	HF-015125-8	0.155	3.94	0.088	2.24	0.100	2.54	125
OR046H060	CH046060	N/A	HF-018060-8	0.183	4.65	0.093	2.36	0.100	2.54	60
OR046H125	CH046125	N/A	HF-018125-8	0.183	4.65	0.093	2.36	0.100	2.54	125
OR063H060	CH063060	58021	HF-025060-8	0.250	6.35	0.110	2.79	0.110	2.79	60
OR063H125	CH063125	58020	HF-025125-8	0.250	6.35	0.110	2.79	0.110	2.79	125
OR063H147	CH063147	58019	HF-025147-8	0.250	6.35	0.110	2.79	0.110	2.79	147
OR063H160	CH063160	58018	HF-025160-8	0.250	6.35	0.110	2.79	0.110	2.79	160
OR066H026	CH066026	58242	HF-027026-8	0.260	6.60	0.105	2.67	0.100	2.54	26
OR066H060	CH066060	58241	HF-027060-8	0.260	6.60	0.105	2.67	0.100	2.54	60
OR066H125	CH066125	58240	HF-027125-8	0.260	6.60	0.105	2.67	0.100	2.54	125
OR066H147	CH066147	58239	HF-027147-8	0.260	6.60	0.105	2.67	0.100	2.54	147
OR066H160	CH066160	58238	HF-027160-8	0.260	6.60	0.105	2.67	0.100	2.54	160
OR067H026	CH067026	58272	HF-026026-8	0.260	6.60	0.105	2.67	0.188	4.78	26
OR067H060	CH067060	58271	HF-026060-8	0.260	6.60	0.105	2.67	0.188	4.78	60
OR067H125	CH067125	58270	HF-026125-8	0.260	6.60	0.105	2.67	0.188	4.78	125
OR067H147	CH067147	58269	HF-026147-8	0.260	6.60	0.105	2.67	0.188	4.78	147
OR067H160	CH067160	58268	HF-026160-8	0.260	6.60	0.105	2.67	0.188	4.78	160
OR068H026	CH068026	58412	HF-028026-8	0.270	6.86	0.156	3.96	0.200	5.08	26
OR068H060	CH068060	58411	HF-028060-8	0.270	6.86	0.156	3.96	0.200	5.08	60
OR068H125	CH068125	58410	HF-028125-8	0.270	6.86	0.156	3.96	0.200	5.08	125
OR068H147	CH068147	58409	HF-028147-8	0.270	6.86	0.156	3.96	0.200	5.08	147
OR068H160	CH068160	58408	HF-028160-8	0.270	6.86	0.156	3.96	0.200	5.08	160
OR078H026	CH078026	58032	HF-031026-8	0.310	7.87	0.156	3.96	0.125	3.18	26
OR078H060	CH078060	58031	HF-031060-8	0.310	7.87	0.156	3.96	0.125	3.17	60
OR078H125	CH078125	58030	HF-031125-8	0.310	7.87	0.156	3.96	0.125	3.17	125
OR078H147	CH078147	58029	HF-031147-8	0.310	7.87	0.156	3.96	0.125	3.17	147
OR078H160	CH078160	58028	HF-031160-8	0.310	7.87	0.156	3.96	0.125	3.17	160
OR096H026	CH096026	58282	HF-039026-8	0.380	9.65	0.188	4.78	0.125	3.17	26
OR096H060	CH096060	58281	HF-039060-8	0.380	9.65	0.188	4.78	0.125	3.17	60
OR096H125	CH096125	58280	HF-039125-8	0.380	9.65	0.188	4.78	0.125	3.17	125
OR096H147	CH096147	58279	HF-039147-8	0.380	9.65	0.188	4.78	0.125	3.17	147
OR096H160	CH096160	58278	HF-039160-8	0.380	9.65	0.188	4.78	0.125	3.17	160
OR097H026	CH097026	58292	HF-038026-8	0.380	9.65	0.188	4.78	0.156	3.96	26
OR097H060	CH097060	58291	HF-038060-8	0.380	9.65	0.188	4.78	0.156	3.96	60
OR097H125	CH097125	58290	HF-038125-8	0.380	9.65	0.188	4.78	0.156	3.96	125
OR097H147	CH097147	58289	HF-038147-8	0.380	9.65	0.188	4.78	0.156	3.96	147
OR097H160	CH097160	58288	HF-038160-8	0.380	9.65	0.188	4.78	0.156	3.96	160
OR102H026	CH102026	58042	HF-040026-8	0.400	10.16	0.200	5.08	0.156	3.96	26
OR102H060	CH102060	58041	HF-040060-8	0.400	10.16	0.200	5.08	0.156	3.96	60
OR102H125	CH102125	58040	HF-040125-8	0.400	10.16	0.200	5.08	0.156	3.96	125
OR102H147	CH102147	58039	HF-040147-8	0.400	10.16	0.200	5.08	0.156	3.96	147
OR102H160	CH102160	58038	HF-040160-8	0.400	10.16	0.200	5.08	0.156	3.96	160
OR112H026	CH112026	58132	HF-044026-2	0.440	11.18	0.250	6.35	0.156	3.96	26
OR112H060	CH112060	58131	HF-044060-2	0.440	11.18	0.250	6.35	0.156	3.96	60
OR112H125	CH112125	58130	HF-044125-2	0.440	11.18	0.250	6.35	0.156	3.96	125
OR112H147	CH112147	58129	HF-044147-2	0.440	11.18	0.250	6.35	0.156	3.96	147
OR112H160	CH112160	58128	HF-044160-2	0.440	11.18	0.250	6.35	0.156	3.96	160
OR127H026	CH127026	58052	HF-050026-2	0.500	12.70	0.300	7.62	0.187	4.75	26

Core Cross Reference Table — High Flux

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR127H060	CH127060	58051	HF-050060-2	0.500	12.70	0.300	7.62	0.187	4.75	60
OR127H125	CH127125	58050	HF-050125-2	0.500	12.70	0.300	7.62	0.187	4.75	125
OR127H147	CH127147	58049	HF-050147-2	0.500	12.70	0.300	7.62	0.187	4.75	147
OR127H160	CH127160	58048	HF-050160-2	0.500	12.70	0.300	7.62	0.187	4.75	160
OR166H026	CH166026	58122	HF-065026-2	0.650	16.51	0.400	10.16	0.250	6.35	26
OR166H060	CH166060	58121	HF-065060-2	0.650	16.51	0.400	10.16	0.250	6.35	60
OR166H125	CH166125	58120	HF-065125-2	0.650	16.51	0.400	10.16	0.250	6.35	125
OR166H147	CH166147	58119	HF-065147-2	0.650	16.51	0.400	10.16	0.250	6.35	147
OR166H160	CH166160	58118	HF-065160-2	0.650	16.51	0.400	10.16	0.250	6.35	160
OR172H026	CH172026	58382	HF-068026-2	0.680	17.27	0.380	9.65	0.250	6.35	26
OR172H060	CH172060	58381	HF-068060-2	0.680	17.27	0.380	9.65	0.250	6.35	60
OR172H125	CH172125	58380	HF-068125-2	0.680	17.27	0.380	9.65	0.250	6.35	125
OR172H147	CH172147	58379	HF-068147-2	0.680	17.27	0.380	9.65	0.250	6.35	147
OR172H160	CH172160	58378	HF-068160-2	0.680	17.27	0.380	9.65	0.250	6.35	160
OR203H026	CH203026	58208	HF-080026-2	0.800	20.32	0.500	12.70	0.250	6.35	26
OR203H060	CH203060	58848	HF-080060-2	0.800	20.32	0.500	12.70	0.250	6.35	60
OR203H125	CH203125	58206	HF-080125-2	0.800	20.32	0.500	12.70	0.250	6.35	125
OR203H147	CH203147	58205	HF-080147-2	0.800	20.32	0.500	12.70	0.250	6.35	147
OR203H160	CH203160	58204	HF-080160-2	0.800	20.32	0.500	12.70	0.250	6.35	160
OR229H026	CH229026	58312	HF-090026-2	0.900	22.86	0.550	13.97	0.300	7.62	26
OR229H060	CH229060	58059	HF-090060-2	0.900	22.86	0.550	13.97	0.300	7.62	60
OR229H125	CH229125	58310	HF-090125-2	0.900	22.86	0.550	13.97	0.300	7.62	125
OR229H147	CH229147	58309	HF-090147-2	0.900	22.86	0.550	13.97	0.300	7.62	147
OR229H160	CH229160	58308	HF-090160-2	0.900	22.86	0.550	13.97	0.300	7.62	160
OR234H026	CH234026	58352	HF-092026-2	0.928	23.57	0.567	14.40	0.350	8.89	26
OR234H060	CH234060	58351	HF-092060-2	0.928	23.57	0.567	14.40	0.350	8.89	60
OR234H125	CH234125	58350	HF-092125-2	0.928	23.57	0.567	14.40	0.350	8.89	125
OR234H147	CH234147	58349	HF-092147-2	0.928	23.57	0.567	14.40	0.350	8.89	147
OR234H160	CH234160	58348	HF-092160-2	0.928	23.57	0.567	14.40	0.350	8.89	160
OR270H026	CH270026	58932	HF-106026-2	1.060	26.92	0.580	14.73	0.440	11.18	26
OR270H060	CH270060	55894	HF-106060-2	1.060	26.92	0.580	14.73	0.440	11.18	60
OR270H125	CH270125	58930	HF-106125-2	1.060	26.92	0.580	14.73	0.440	11.18	125
OR270H147	CH270147	58929	HF-106147-2	1.060	26.92	0.580	14.73	0.440	11.18	147
OR270H160	CH270160	58928	HF-106160-2	1.060	26.92	0.580	14.73	0.440	11.18	160
OR330H026	CH330026	58550	HF-130026-2	1.300	33.02	0.785	19.94	0.420	10.67	26
OR330H060	CH330060	58071	HF-130060-2	1.300	33.02	0.785	19.94	0.350	8.76	60
OR330H060	CH330060	58548	HF-130125-2	1.300	33.02	0.785	19.94	0.350	8.76	125
OR330H147	CH330147	58547	HF-130147-2	1.300	33.02	0.785	19.94	0.350	8.76	147
OR330H160	CH330160	58546	HF-130160-2	1.300	33.02	0.785	19.94	0.350	8.76	160
OR343H026	CH343026	58587	HF-135026-2	1.350	34.29	0.920	23.37	0.350	8.89	26
OR343H060	CH343060	58586	HF-135060-2	1.350	34.29	0.920	23.37	0.350	8.89	60
OR343H125	CH343125	58585	HF-135125-2	1.350	34.29	0.920	23.37	0.350	8.89	125
OR343H147	CH343147	58584	HF-135147-2	1.350	34.29	0.920	23.37	0.350	8.89	147
OR343H160	CH343160	58583	HF-135160-2	1.350	34.29	0.920	23.37	0.350	8.89	160
OR358H026	CH358026	58326	HF-141026-2	1.410	35.81	0.880	22.35	0.412	10.46	26
OR358H060	CH358060	58076	HF-141060-2	1.410	35.81	0.880	22.35	0.412	10.46	60
OR358H125	CH358125	58324	HF-141125-2	1.410	35.81	0.880	22.35	0.412	10.46	125
OR358H147	CH358147	58323	HF-141147-2	1.410	35.81	0.880	22.35	0.412	10.46	147
OR358H160	CH358160	58322	HF-141160-2	1.410	35.81	0.880	22.35	0.412	10.46	160
OR400H026	CH400026	58256	HF-157026-2	1.570	39.88	0.950	24.13	0.570	14.48	26
OR400H060	CH400060	58083	HF-157060-2	1.570	39.88	0.950	24.13	0.570	14.48	60

Core Cross Reference Table — High Flux

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR400H125	CH400125	58254	HF-157125-2	1.570	39.88	0.950	24.13	0.570	14.48	125
OR400H147	CH400147	58253	HF-157147-2	1.570	39.88	0.950	24.13	0.570	14.48	147
OR400H160	CH400160	58252	HF-157160-2	1.570	39.88	0.950	24.13	0.570	14.48	160
OR467H026	CH467026	58440	HF-184026-2	1.840	46.74	0.950	24.13	0.710	18.03	26
OR467H060	CH467060	58439	HF-184060-2	1.840	46.74	0.950	24.13	0.710	18.03	60
OR467H125	CH467125	58438	HF-184125-2	1.840	46.74	0.950	24.13	0.710	18.03	125
OR468H026	CH468026	58091	HF-185026-2	1.840	46.74	1.130	28.70	0.600	15.24	26
OR468H060	CH468060	58090	HF-185060-2	1.840	46.74	1.130	28.70	0.600	15.24	60
OR468H125	CH468125	58089	HF-185125-2	1.840	46.74	1.130	28.70	0.600	15.24	125
OR508H026	CH508026	58717	HF-200026-2	2.000	50.80	1.250	31.75	0.530	13.46	26
OR508H060	CH508060	58716	HF-200060-2	2.000	50.80	1.250	31.75	0.530	13.46	60
OR508H125	CH508125	58715	HF-200125-2	2.000	50.80	1.250	31.75	0.530	13.46	125
OR571H026	CH571026	58191	HF-226026-2	2.250	57.15	1.039	26.39	0.600	15.24	26
OR571H060	CH571060	59192	HF-226060-2	2.250	57.15	1.039	26.39	0.600	15.24	60
OR571H125	CH571125	58195	HF-226125-2	2.250	57.15	1.039	26.39	0.600	15.24	125
OR572H026	CH572026	58111	HF-225026-2	2.250	57.15	1.400	35.56	0.550	13.97	26
OR572H060	CH572060	58110	HF-225060-2	2.250	57.15	1.400	35.56	0.550	13.97	60
OR572H125	CH572125	58109	HF-225125-2	2.250	57.15	1.400	35.56	0.550	13.97	125
OR610H026	CH610026	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	26
OR610H060	CH610060	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	60
OR610H125	CH610125	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	125
OR740H026	CH740026	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	26
OR740H060	CH740060	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	60
OR740H125	CH740125	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	125
OR777H026	CH777026	58868	HF-300026-2	3.063	77.80	1.938	49.23	0.500	12.70	26
OR777H060	CH777060	58867	HF-300060-2	3.063	77.80	1.938	49.23	0.500	12.70	60
OR777H125	CH777125	58866	HF-300125-2	3.063	77.80	1.938	49.23	0.500	12.70	125
OR778H026	CH778026	58908	HF-301026-2	3.063	77.80	1.938	49.23	0.626	15.90	26
OR778H060	CH778060	58907	HF-301060-2	3.063	77.80	1.938	49.23	0.626	15.90	60
OR778H125	CH778125	58906	HF-301125-2	3.063	77.80	1.938	49.23	0.626	15.90	125
OR888H026	CM888026	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	26
OR888H060	CM888060	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	60
OR888H125	CM888125	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	125
OR1016H026	CH1016026	58102	HF-400026-2	3.980	101.60	2.252	57.20	0.650	16.50	26
OR1016H060	CH1016060	58099	HF-400060-2	3.980	101.60	2.252	57.20	0.650	16.50	60
OR1016H125	CH1016125	58098	HF-400125-2	3.980	101.60	2.252	57.20	0.650	16.50	125

Core Cross Reference Table — Sendust

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR035S060	CS035060	77141	MS-014060-8	0.140	3.56	0.070	1.78	0.060	1.52	60
OR035S075	CS035075	77445	MS-014075-8	0.140	3.56	0.070	1.78	0.060	1.52	75
OR035S090	CS035090	77444	MS-014090-8	0.140	3.56	0.070	1.78	0.060	1.52	90
OR035S125	CS035125	77140	MS-014125-8	0.140	3.56	0.070	1.78	0.060	1.52	125
OR039S060	CS039060	77151	MS-015060-8	0.155	3.94	0.088	2.24	0.100	2.54	60
OR039S075	CS039075	77155	MS-015075-8	0.155	3.94	0.088	2.24	0.100	2.54	75
OR039S090	CS039090	77154	MS-015090-8	0.155	3.94	0.088	2.24	0.100	2.54	90
OR039S125	CS039125	77150	MS-015125-8	0.155	3.94	0.088	2.24	0.100	2.54	125
OR046S060	CS046060	77181	MS-018060-8	0.183	4.65	0.093	2.36	0.100	2.54	60
OR046S075	CS046075	77185	MS-018075-8	0.183	4.65	0.093	2.36	0.100	2.54	75
OR046S090	CS046090	77184	MS-018090-8	0.183	4.65	0.093	2.36	0.100	2.54	90
OR046S125	CS046125	77180	MS-018125-8	0.183	4.65	0.093	2.36	0.100	2.54	125
OR063S060	CS063060	77021	MS-025060-8	0.250	6.35	0.110	2.79	0.110	2.79	60
OR063S075	CS063075	77825	MS-025075-8	0.250	6.35	0.110	2.79	0.110	2.79	75
OR063S090	CS063090	77824	MS-025090-8	0.250	6.35	0.110	2.79	0.110	2.79	90
OR063S125	CS063125	77020	MS-025125-8	0.250	6.35	0.110	2.79	0.110	2.79	125
OR066S060	CS066060	77241	MS-027060-8	0.260	6.60	0.110	2.67	0.100	2.54	60
OR066S075	CS066075	77245	MS-027075-8	0.260	6.60	0.105	2.67	0.100	2.54	75
OR066S090	CS066090	77244	MS-027090-8	0.260	6.60	0.105	2.67	0.100	2.54	90
OR066S125	CS066125	77240	MS-027125-8	0.260	6.60	0.105	2.67	0.100	2.54	125
OR067S060	CS067060	77271	MS-026060-8	0.260	6.60	0.105	2.67	0.188	4.78	60
OR067S075	CS067075	77875	MS-026075-8	0.260	6.60	0.105	2.67	0.188	4.78	75
OR067S090	CS067090	77874	MS-026090-8	0.260	6.60	0.105	2.67	0.188	4.78	90
OR067S125	CS067125	77270	MS-026125-8	0.260	6.60	0.105	2.67	0.188	4.78	125
OR068S060	CS068060	77411	MS-028060-8	0.270	6.86	0.156	3.96	0.200	5.08	60
OR068S075	CS068075	77415	MS-028075-8	0.270	6.86	0.156	3.96	0.200	5.08	125
OR068S090	CS068090	77414	MS-028090-8	0.270	6.86	0.156	3.96	0.200	5.08	147
OR068S125	CS068125	77410	MS-028125-8	0.270	6.86	0.156	3.96	0.200	5.08	160
OR078S060	CS078060	77031	MS-031060-8	0.310	7.87	0.156	3.96	0.125	5.08	60
OR078S075	CS078075	77835	MS-031075-8	0.310	7.87	0.156	3.96	0.125	5.08	75
OR078S090	CS078090	77834	MS-031090-8	0.310	7.87	0.156	3.96	0.125	5.08	90
OR078S125	CS078125	77030	MS-031125-8	0.310	7.87	0.156	3.96	0.125	5.08	125
OR096S060	CS096060	77281	MS-039060-8	0.380	9.65	0.188	4.78	0.125	3.17	60
OR096S075	CS096075	77885	MS-039075-8	0.380	9.65	0.188	4.78	0.125	3.17	75
OR096S090	CS096090	77884	MS-039090-8	0.380	9.65	0.188	4.78	0.125	3.17	90
OR096S125	CS096125	77280	MS-039125-8	0.380	9.65	0.188	4.78	0.125	3.17	125
OR097S060	CS097060	77291	MS-038060-8	0.380	9.65	0.188	4.78	0.156	3.96	60
OR097S075	CS097075	77295	MS-038075-8	0.380	9.65	0.188	4.78	0.156	3.96	75
OR097S090	CS097090	77294	MS-038090-8	0.380	9.65	0.188	4.78	0.156	3.96	90
OR097S125	CS097125	77290	MS-038125-8	0.380	9.65	0.188	4.78	0.156	3.96	125
OR102S060	CS102060	77041	MS-040060-8	0.400	10.16	0.200	5.08	0.156	3.96	60
OR102S075	CS102075	77845	MS-040075-8	0.400	10.16	0.200	5.08	0.156	3.96	75
OR102S090	CS102090	77844	MS-040090-8	0.400	10.16	0.200	5.08	0.156	3.96	90
OR102S125	CS102125	77040	MS-040125-8	0.400	10.16	0.200	5.08	0.156	3.96	125
OR112S026	CS112026	N/A	MS-044026-8	0.440	11.18	0.250	6.35	0.156	3.96	26
OR112S060	CS112060	77131	MS-044060-8	0.440	11.18	0.250	6.35	0.156	3.96	60
OR112S075	CS112075	77335	MS-044075-8	0.440	11.18	0.250	6.35	0.156	3.96	75
OR112S090	CS112090	77334	MS-044090-8	0.440	11.18	0.250	6.35	0.156	3.96	90
OR112S125	CS112125	77130	MS-044125-8	0.440	11.18	0.250	6.35	0.156	3.96	125
OR127S026	CS127026	N/A	MS-050026-2	0.500	12.70	0.300	7.62	0.187	4.75	26
OR127S060	CS127060	77051	MS-050060-2	0.500	12.70	0.300	7.62	0.187	4.75	60

Core Cross Reference Table — Sendust

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR127S075	CS127075	77055	MS-050075-2	0.500	12.70	0.300	7.62	0.187	4.75	75
OR127S090	CS127090	77054	MS-050090-2	0.500	12.70	0.300	7.62	0.187	4.75	90
OR127S125	CS127125	77050	MS-050125-2	0.500	12.70	0.300	7.62	0.187	4.75	125
OR166S026	CS166026	N/A	MS-065026-2	0.650	16.51	0.400	10.16	0.250	6.35	60
OR166S060	CS166060	77121	MS-065060-2	0.650	16.51	0.400	10.16	0.250	6.35	60
OR166S075	CS166075	77225	MS-065075-2	0.650	16.51	0.400	10.16	0.250	6.35	75
OR166S090	CS166090	77224	MS-065090-2	0.650	16.51	0.400	10.16	0.250	6.35	90
OR166S125	CS166125	77120	MS-065125-2	0.650	16.51	0.400	10.16	0.250	6.35	125
OR172S026	CS172026	N/A	MS-068026-2	0.680	17.27	0.380	9.65	0.250	6.35	26
OR172S060	CS172060	77381	MS-068060-2	0.680	17.27	0.380	9.65	0.250	6.35	60
OR172S075	CS172075	77385	MS-068075-2	0.680	17.27	0.380	9.65	0.250	6.35	75
OR172S090	CS172090	77384	MS-068090-2	0.680	17.27	0.380	9.65	0.250	6.35	90
OR172S125	CS172125	77380	MS-068125-2	0.680	17.27	0.380	9.65	0.250	6.35	125
OR203S026	CS203026	N/A	MS-080026-2	0.800	20.32	0.500	12.70	0.250	6.35	26
OR203S060	CS203060	77848	MS-080060-2	0.800	20.32	0.500	12.70	0.250	6.35	60
OR203S075	CS203075	77211	MS-080075-2	0.800	20.32	0.500	12.70	0.250	6.35	75
OR203S090	CS203090	77210	MS-080090-2	0.800	20.32	0.500	12.70	0.250	6.35	90
OR203S125	CS203125	77206	MS-080125-2	0.800	20.32	0.500	12.70	0.250	6.35	125
OR229S026	CS229026	77312	MS-090026-2	0.900	22.86	0.550	13.97	0.300	7.62	26
OR229S060	CS229060	77059	MS-090060-2	0.900	22.86	0.550	13.97	0.300	7.62	60
OR229S075	CS229075	77315	MS-090075-2	0.900	22.86	0.550	13.97	0.300	7.62	75
OR229S090	CS229090	77314	MS-090090-2	0.900	22.86	0.550	13.97	0.300	7.62	90
OR229S125	CS229125	77310	MS-090125-2	0.900	22.86	0.550	13.97	0.300	7.62	125
OR234S026	CS234026	77352	MS-092026-2	0.928	23.57	0.567	14.40	0.350	8.89	26
OR234S060	CS234060	77353	MS-092060-2	0.928	23.57	0.567	14.40	0.350	8.89	60
OR234S075	CS234075	77355	MS-092075-2	0.928	23.57	0.567	14.40	0.350	8.89	75
OR234S090	CS234090	77354	MS-092090-2	0.928	23.57	0.567	14.40	0.350	8.89	90
OR234S125	CS234125	77350	MS-092125-2	0.928	23.57	0.567	14.40	0.350	8.89	125
OR270S026	CS270026	77932	MS-106026-2	1.060	26.92	0.580	14.73	0.440	11.18	26
OR270S060	CS270060	77894	MS-106060-2	1.060	26.92	0.580	14.73	0.440	11.18	60
OR270S075	CS270075	77935	MS-106075-2	1.060	26.92	0.580	14.73	0.440	11.18	75
OR270S090	CS270090	77934	MS-106090-2	1.060	26.92	0.580	14.73	0.440	11.18	90
OR270S125	CS270125	77930	MS-106125-2	1.060	26.92	0.580	14.73	0.440	11.18	125
OR330S026	CS330026	77550	MS-130026-2	1.300	33.02	0.785	19.94	0.420	10.67	26
OR330S060	CS330060	77071	MS-130060-2	1.300	33.02	0.785	19.94	0.420	10.67	60
OR330S075	CS330075	77553	MS-130075-2	1.300	33.02	0.785	19.94	0.420	10.67	75
OR330S090	CS330090	77552	MS-130090-2	1.300	33.02	0.785	19.94	0.420	10.67	90
OR330S125	CS330125	77548	MS-130125-2	1.300	33.02	0.785	19.94	0.420	10.67	125
OR343S026	CS343026	77587	MS-135026-2	1.350	34.29	0.920	23.37	0.350	8.89	26
OR343S060	CS343060	77586	MS-135060-2	1.350	34.29	0.920	23.37	0.350	8.89	60
OR343S075	CS343075	77590	MS-135075-2	1.350	34.29	0.920	23.37	0.350	8.89	75
OR343S090	CS343090	77589	MS-135090-2	1.350	34.29	0.920	23.37	0.350	8.89	90
OR343S125	CS343125	77585	MS-135125-2	1.350	34.29	0.920	23.37	0.350	8.89	125
OR358S026	CS358026	77326	MS-141026-2	1.410	35.81	0.880	22.35	0.412	10.46	26
OR358S060	CS358060	77076	MS-141060-2	1.410	35.81	0.880	22.35	0.412	10.46	60
OR358S075	CS358075	77329	MS-141075-2	1.410	35.81	0.880	22.35	0.412	10.46	75
OR358S090	CS358090	77328	MS-141090-2	1.410	35.81	0.880	22.35	0.412	10.46	90
OR358S125	CS358125	77324	MS-141125-2	1.410	35.81	0.880	22.35	0.412	10.46	125
OR400S026	CS400026	77256	MS-157026-2	1.570	39.88	0.950	24.13	0.570	14.48	26
OR400S060	CS400060	77083	MS-157060-2	1.570	39.88	0.950	24.13	0.570	14.48	60
OR400S075	CS400075	77259	MS-157075-2	1.570	39.88	0.950	24.13	0.570	14.48	75

Core Cross Reference Table — Sendust

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR400S090	CS400090	77258	MS-157090-2	1.570	39.88	0.950	24.13	0.570	14.48	90
OR400S125	CS400125	77254	MS-157125-2	1.570	39.88	0.950	24.13	0.570	14.48	125
OR467S026	CS467026	77440	MS-184026-2	1.840	46.74	0.950	24.13	0.710	18.03	26
OR467S060	CS467060	77439	MS-184060-2	1.840	46.74	0.950	24.13	0.710	18.03	60
OR467S075	CS467075	77443	MS-184075-2	1.840	46.74	0.950	24.13	0.710	18.03	75
OR467S090	CS467090	77442	MS-184090-2	1.840	46.74	0.950	24.13	0.710	18.03	90
OR467S125	CS467125	77438	MS-184125-2	1.840	46.74	0.950	24.13	0.710	18.03	125
OR468S026	CS468026	77091	MS-185026-2	1.840	46.74	1.130	28.70	0.600	15.24	26
OR468S060	CS468060	77090	MS-185060-2	1.840	46.74	1.130	28.70	0.600	15.24	60
OR468S075	CS468075	77094	MS-185075-2	1.840	46.74	1.130	28.70	0.600	15.24	75
OR468S090	CS468090	77093	MS-185090-2	1.840	46.74	1.130	28.70	0.600	15.24	90
OR468S125	CS468125	77089	MS-185125-2	1.840	46.74	1.130	28.70	0.600	15.24	125
OR508S026	CS508026	77717	MS-200026-2	2.000	50.80	1.250	31.75	0.530	13.46	26
OR508S060	CS508060	77716	MS-200060-2	2.000	50.80	1.250	31.75	0.530	13.46	60
OR508S075	CS508075	77720	MS-200075-2	2.000	50.80	1.250	31.75	0.530	13.46	75
OR508S090	CS508090	77719	MS-200090-2	2.000	50.80	1.250	31.75	0.530	13.46	90
OR508S125	CS508125	77715	MS-200125-2	2.000	50.80	1.250	31.75	0.530	13.46	125
OR571S026	CS571026	77191	MS-226026-2	2.250	57.15	1.040	26.39	0.600	15.24	26
OR571S060	CS571060	77192	MS-226060-2	2.250	57.15	1.040	26.39	0.600	15.24	60
OR571S075	CS571075	77193	MS-226075-2	2.250	57.15	1.040	26.39	0.600	15.24	75
OR571S090	CS571090	77194	MS-226090-2	2.250	57.15	1.040	26.39	0.600	15.24	90
OR571S125	CS571125	77195	MS-226125-2	2.250	57.15	1.040	26.39	0.600	15.24	125
OR572S026	CS572026	77111	MS-225026-2	2.250	57.15	1.400	35.56	0.550	13.97	26
OR572S060	CS572060	77110	MS-225060-2	2.250	57.15	1.400	35.56	0.550	13.97	60
OR572S075	CS572075	77214	MS-225075-2	2.250	57.15	1.400	35.56	0.550	13.97	75
OR572S090	CS572090	77213	MS-225090-2	2.250	57.15	1.400	35.56	0.550	13.97	90
OR572S125	CS572125	77109	MS-225125-2	2.250	57.15	1.400	35.56	0.550	13.97	125
OR610S026	CS610026	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	26
OR610S060	CS610060	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	60
OR610S075	CS610075	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	75
OR610S090	CS610090	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	90
OR610S125	CS610125	N/A	N/A	2.441	62.00	1.283	32.60	0.984	25.00	125
OR740S026	CS740026	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	26
OR740S060	CS740060	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	60
OR740S075	CS740075	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	125
OR740S090	CS740090	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	125
OR740S125	CS740125	N/A	N/A	2.917	74.10	1.783	45.30	1.378	35.00	125
OR777S026	CS777026	77868	MS-300026-2	3.063	77.80	1.940	49.23	0.500	12.70	26
OR777S060	CS777060	77867	MS-300060-2	3.063	77.80	1.940	49.23	0.500	12.70	60
OR777S075	CS777075	N/A	MS-300075-2	3.063	77.80	1.940	49.23	0.500	12.70	75
OR777S090	CS777090	N/A	MS-300090-2	3.063	77.80	1.940	49.23	0.500	12.70	90
OR777S125	CS777125	N/A	MS-300125-2	3.063	77.80	1.938	49.23	0.500	12.70	125
OR778S026	CS778026	77908	MS-301026-2	3.063	77.80	1.938	49.23	0.626	15.90	26
OR778S060	CS778060	77907	MS-301060-2	3.063	77.80	1.938	49.23	0.626	15.90	60
OR778S075	CS778075	N/A	MS-301075-2	3.063	77.80	1.938	49.23	0.626	15.90	75
OR778S090	CS778090	N/A	MS-301090-2	3.063	77.80	1.938	49.23	0.626	15.90	90
OR778S125	CS778125	N/A	MS-301125-2	3.063	77.80	1.938	49.23	0.626	15.90	125
OR888S026	CS888026	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	26
OR888S060	CS888060	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	60
OR888S075	CS888060	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	75
OR888S090	CS888060	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	90

Core Cross Reference Table — Sendust

Samwha	CSC	Magnetics	Arnold	O.D.		I.D.		H.T.		Perm. (μ)
				Inch	mm	Inch	mm	Inch	mm	
OR888S125	CS888125	N/A	N/A	3.500	88.90	2.598	66.00	0.626	15.90	125
OR1016S026	CS1016026	77102	MS-400026-2	3.980	101.60	2.252	57.20	0.650	16.50	26
OR1016S060	CS1016060	77099	MS-400060-2	3.980	101.60	2.252	57.20	0.650	16.50	60
OR1016S075	CS1016125	N/A	MS-400075-2	3.980	101.60	2.252	57.20	0.650	16.50	75
OR1016S090	CS1016060	N/A	MS-400090-2	3.980	101.60	2.252	57.20	0.650	16.50	90
OR1016S125	CS1016125	77098	MS-400125-2	3.980	101.60	2.252	57.20	0.650	16.50	125

Memo

SAMWHA ELECTRONICS Co., Ltd.

Sales Offices & Distributors

SAMWHA ELECTRONICS
SEOUL HQ
Samyoung Bldg 587-8, Sinsa-Dong,
Gangnam-Gu, Seoul, 135-892, Korea
Tel. +82-2-546-0999
Fax. +82-2-546-7354

QINGDAO SAMWHA ELECTRONICS
QINDAO CHINA
Malan, Pingdu-City, Qingdao, 266743,
China
Tel. +86-532-8335-1331
Fax. +86-532-8436-2900

SAMWHA HONGKONG
HONGKONG HQ
Unit 3 to 9, 5th floor, Hi-Tech Center, 9
Choiyuen Road Sheungshui,
New Territories, Hong Kong
Tel. +852-2668-2460
Fax. +852-2668-2420

DONGGUAN Office
Room 1909,Business center, The Center
Point, No.2 DongZong Road, Dongguan-
City, Guangdong, 523125, China
Tel. +86-769-2233-3725, 3517, 3721
Fax. +86-769-2233-3537

SHANGHAI Office
Room 1502, Xinyin Mansion,
Caohejing Hi-Tech. Park, No 888,
Yishan Road, Shanghai, 200233, China
Tel. +86-21-6432-0337
Fax. +86-21-6432-0339

SAMWHA USA INC.
SAN DIEGO HQ
2555 Melksee Street, San Diego,
California, 92154, USA
Tel. +1-619-671-0870
Fax. +1-619-671-0874

CHICAGO Office
200 Fairway Drive, Suite 170,
Vernon Hills,
Illinois(IL), 60061, USA
Tel. +1-847-294-0081
Fax. +1-847-294-0082

PANAMA Office
Buildiing No. 56, Local 1&2
France Field, Colon free zone,
Republica de Panama
Tel. +507-474-1880
Fax. +507-474-0818

SAMWHA EUROPE GMBH
GERMANY
Lyoner Str. 44-48, 60528,
Frankfurt, am Main, Germany
Tel. +49-69-963-7650
Fax. +49-69-963-76565

SAMWHA POLAND SP. Z.O.O.
POLAND
Ul.Finska 2, Biskupice Podgorne 55-040,
Kobierzyce, Poland
Tel. +48-71-733-7295-6
Fax. +48-71-733-7298

SAMWHA HUNGARY KFT.
HUNGARY
1138. Marina Part Danubius u. 16.
A-806, Budapest, Hungary
Tel. +36-27-539-581
Fax. +36-27-539-580

PT. SAMWHA INDONESIA
INDONESIA
Cikananga Rt, 06/02 Cikumpay
Campaka Purwakarta, jawa Barat,
41181, Indonesia
Tel.+62-264-20-0837
Fax.+62-264-20-1538

SAMWHA THAILAND
THAILAND
66 MOO 4 T.Takai A.Mung,
Chachoengsao, 24000, Thailand
Tel. +66-38-847571-3
Fax. +66-38-847575

SAMWHA INDIA
INDIA
A-100, Ground Floor,
Sector - 65, Gautam Budh Nagar,
Noida, 201301, India
Tel. +91-120-4523800
Fax. +91-120-4282488

ANKEDUO ELECTRONICS CO., LTD.
TAIWAN
1F., No.32, Yi 9th Rd., Sinyi District,
Keelung City 201, Taiwan
Tel. +886 2 2425 5499
Fax. +886-2-2425-4527

DONGGUAN Office
Room5C, Huaan Building,
Changqing West Road, Changan Town,
Dongguan City, Guangdong, 150871, China
Tel. +86-769-8155-2596
Fax. +86-769-8176-9866

ARTHUR BEHRENS
GERMANY
Lotzener Strasse 3. D-28207,
Bremen, Germany
Tel. +49-421-49 97 20
Fax. +49-421-44 21 34

MARKETA INTERNATIONAL LTD.
HONGKONG
4F, Lin Fung Centre. 184-186,
Texaco Road, Tsuen Wan, N.T, Hong Kong
Tel. +852-2407-2322
Fax. +852-2407-3327

CARLO CASAGRAN DE & COODY
FINLAND
Abraham Wetterintie 4 A, PL 155,
00810, Helsinki, Finland
Tel. +358-9-755 131
Fax. +358-9-7551 3355

ITACA S.R.L.
ITALY
Via Fratelli Cairoli, 4- 20020,
Barbaiana di Lainate (MI), Italy
Tel. +39-2-93502875
Fax. +39-2-93502961

www.samwha.com/electronics

E-mail : exsales@samwha.com