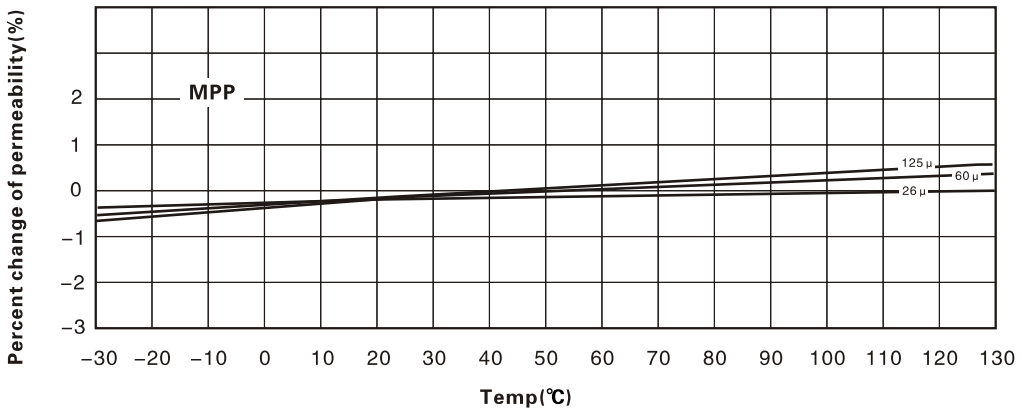
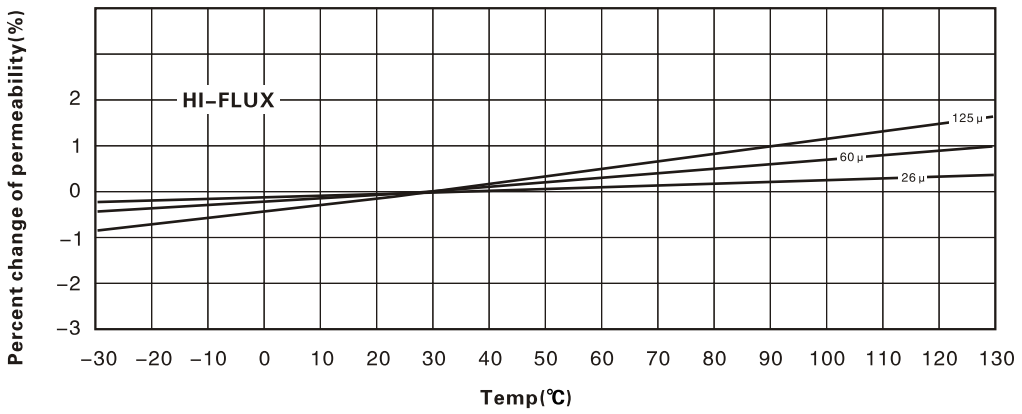
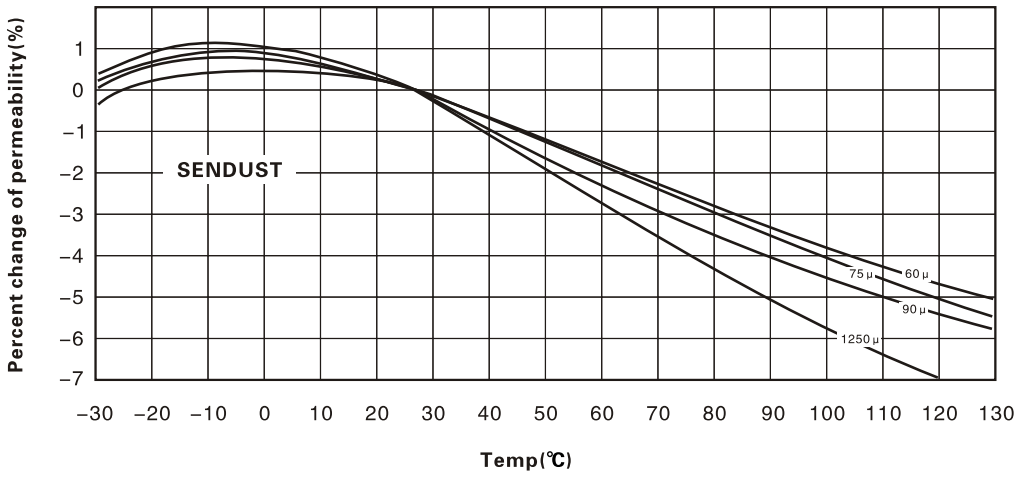
ALLOY POWDER CORE SERIES PRODUCTS

Material Characteristics Curves

Temperature Stability







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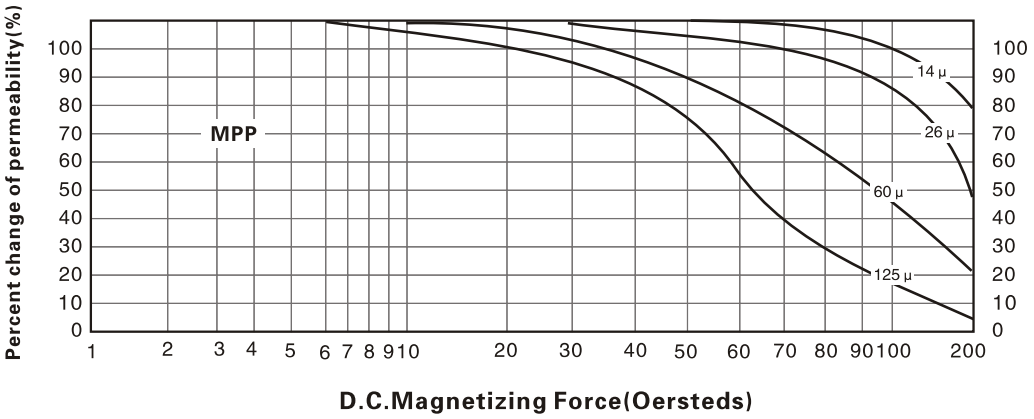
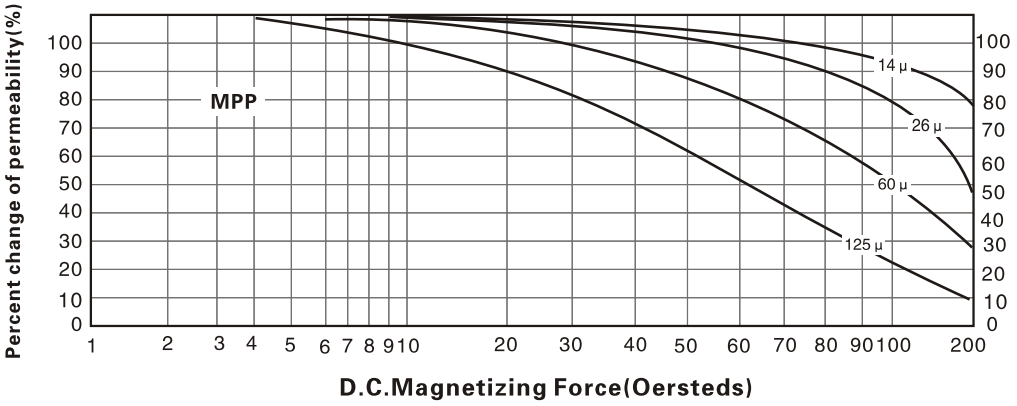
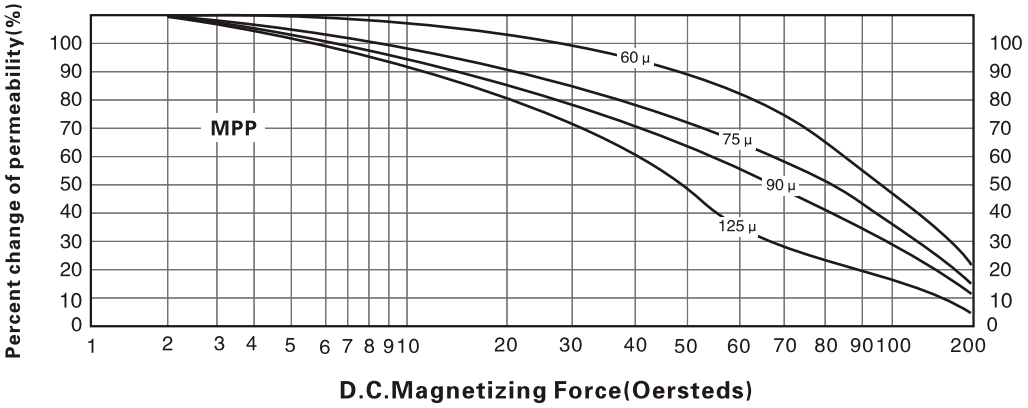
ALLOY POWDER CORE SERIES PRODUCTS

Material Characteristics Curves

Typical Incremental Permeability vs.D.C.Bias



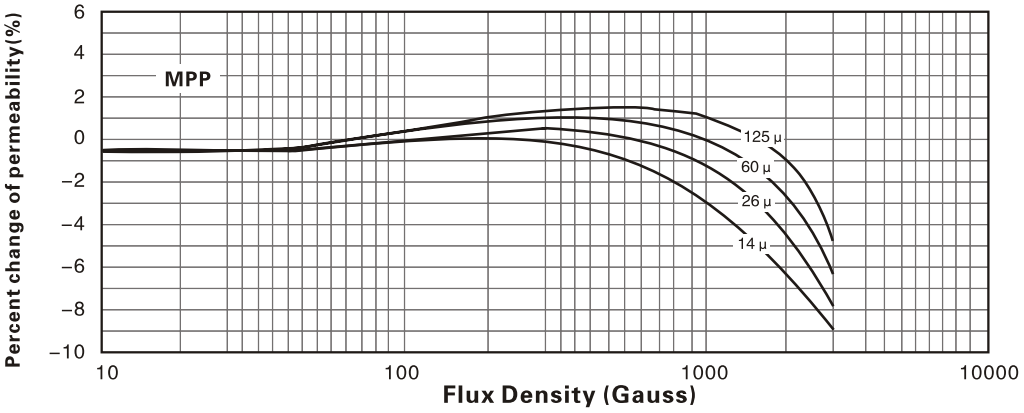


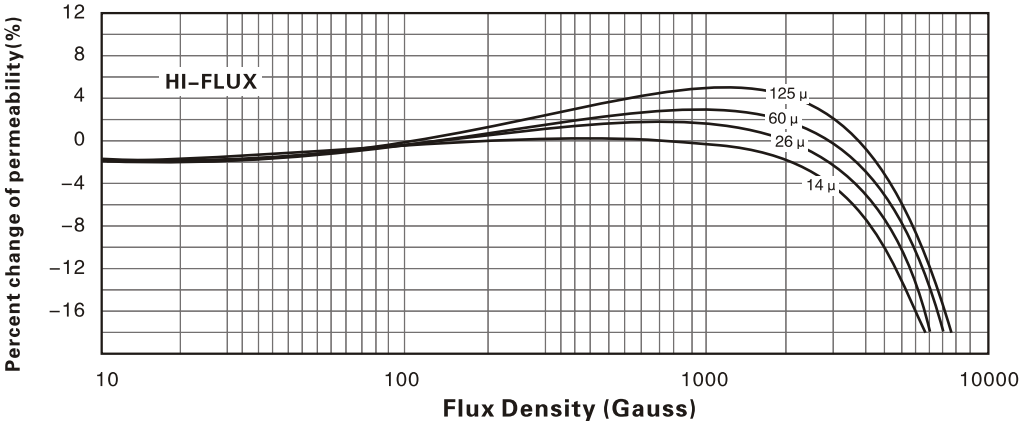


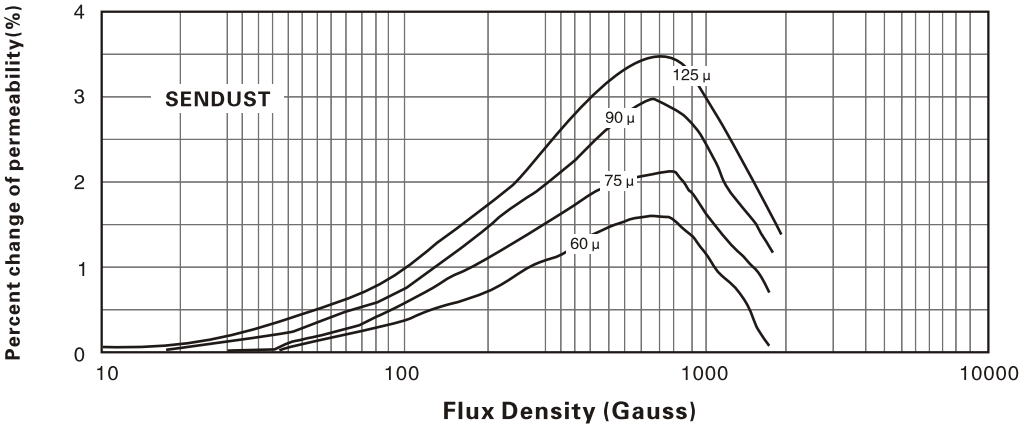
ALLOY POWDER CORE SERIES PRODUCTS

Material Characteristics Curves

Permeability vs AC Flux Density







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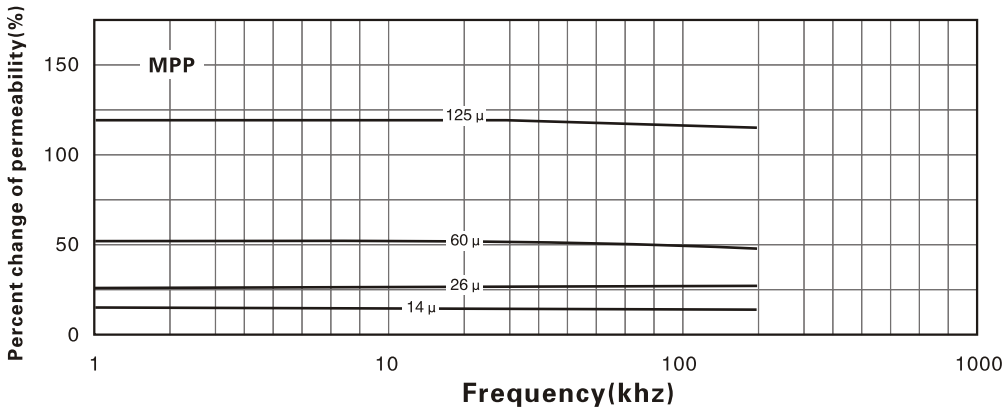
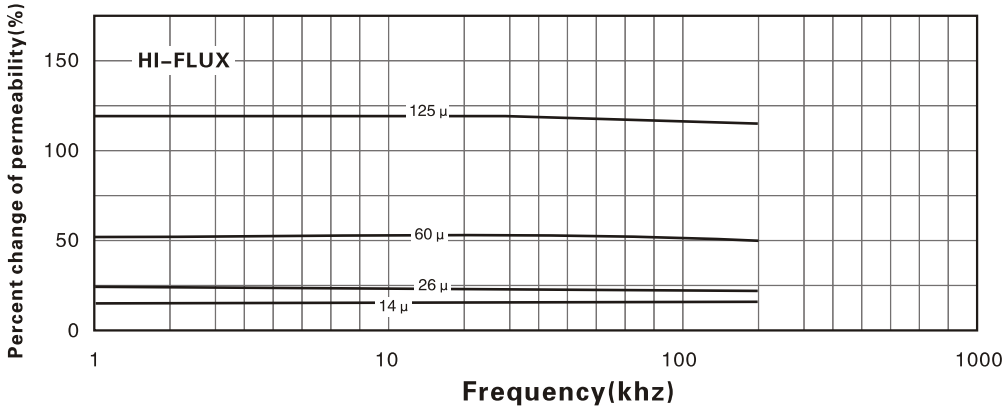
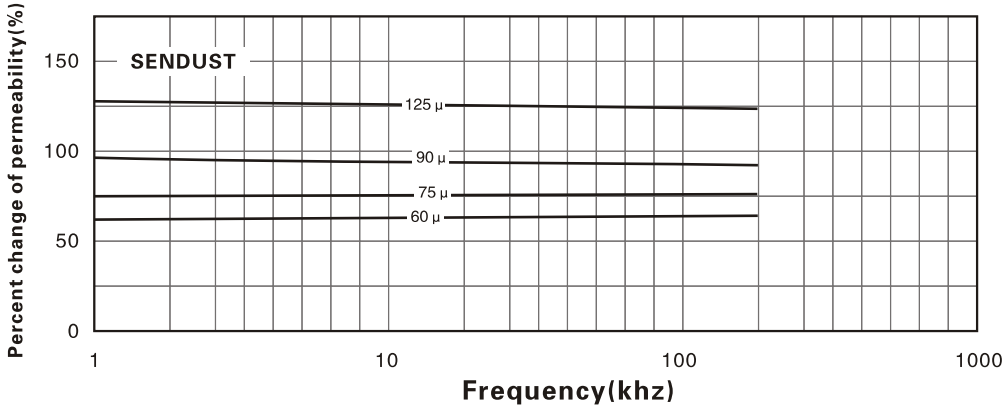
ALLOY POWDER CORE SERIES PRODUCTS

Material Characteristics Curves

Permeability vs.Frequency





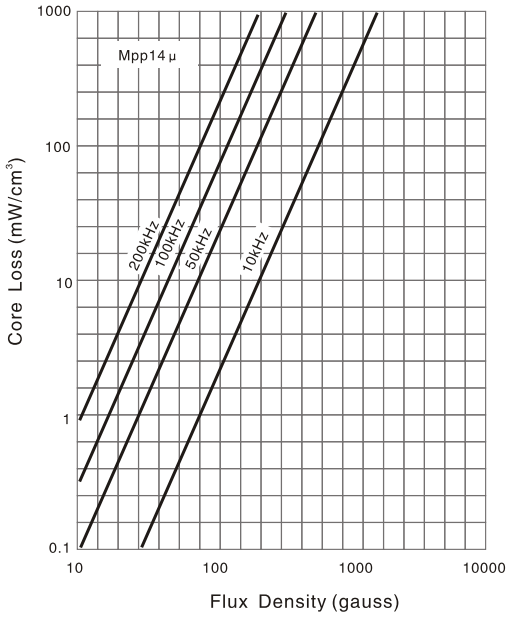


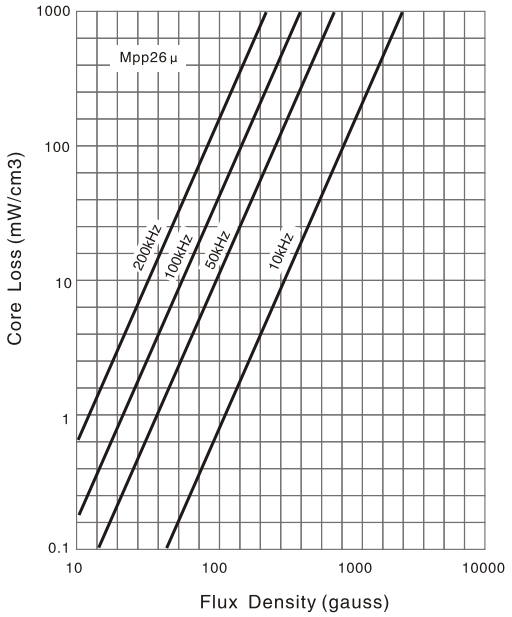
ALLOY POWDER CORE SERIES PRODUCTS

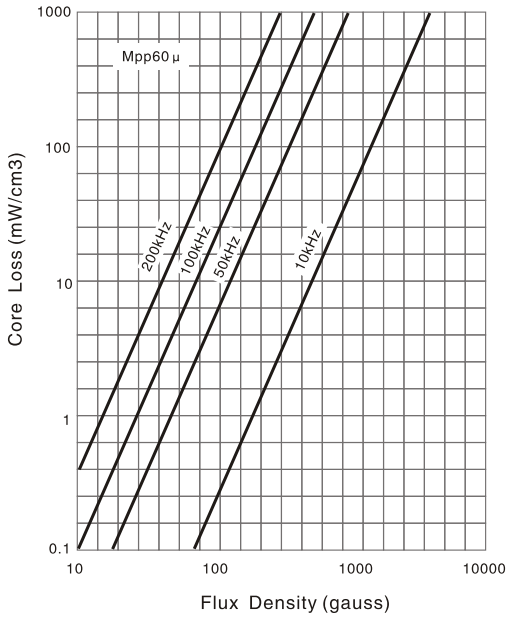
Material Characteristics Curves

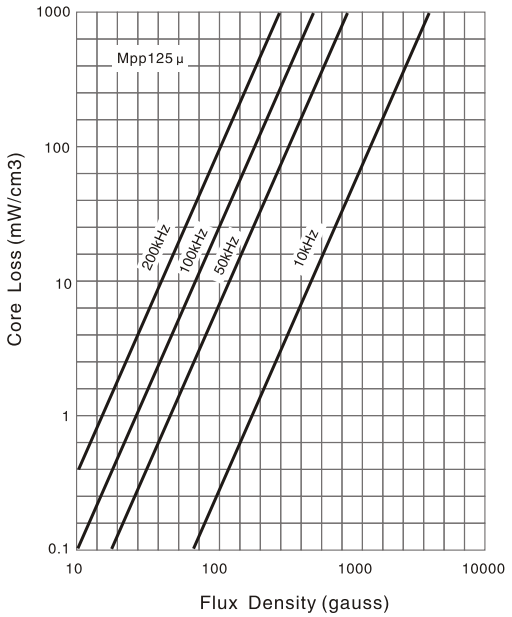
E Type Cores

Core Loss vs. Flux Density







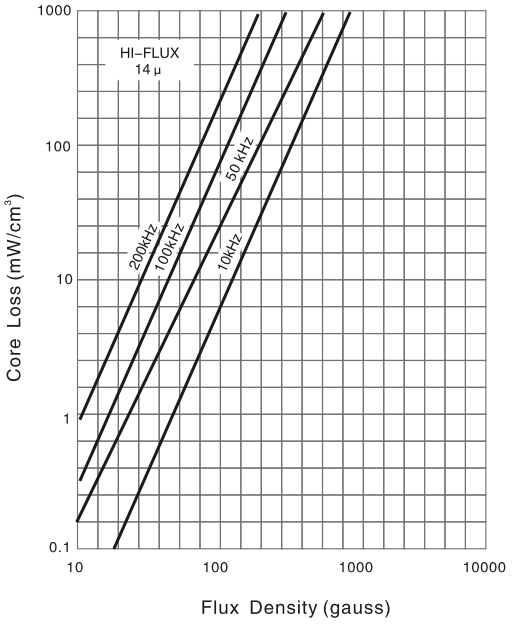


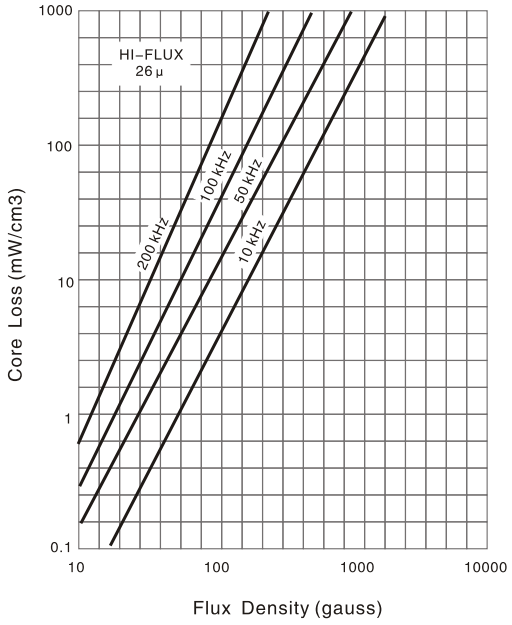
ALLOY POWDER CORE SERIES PRODUCTS

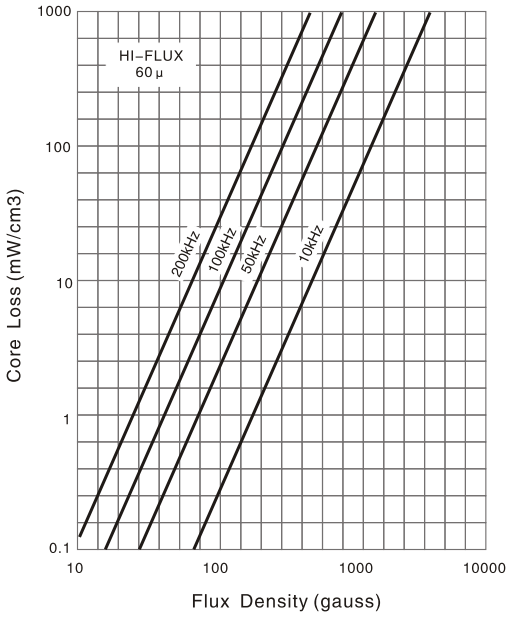
Material Characteristics Curves

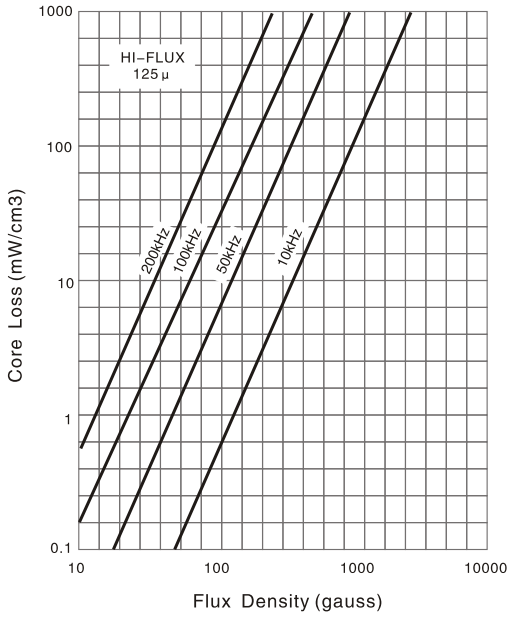
E Type Cores

Core Loss vs. Flux Density







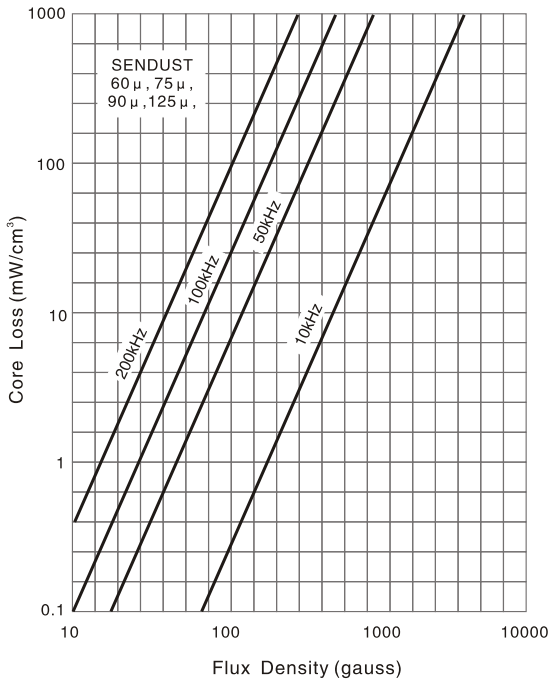


ALLOY POWDER CORE SERIES PRODUCTS

Material Characteristics Curves

E Type Cores

Core Loss vs. Flux Density



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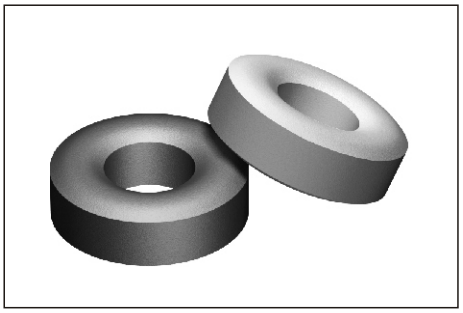


ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores

TYPICAL PART No.

MPP 106—125
HF
KS

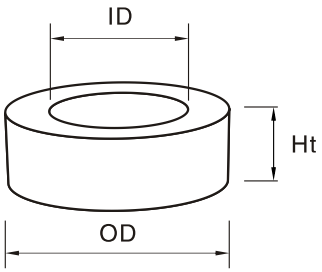
- Permeability(μ_e)
- Size Designation
- Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			Le cm	Ae cm^2	Ve cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
031–14	6	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.11
031–26	11	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.11
031–60	25	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.11
031–75	31	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.11
031–90	37	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.11
031–125	52	7.87	3.96	3.18	8.51	3.43	3.81	1.787	0.062	0.11
038–26	14	9.65	4.78	3.96	10.29	4.27	4.60	2.180	0.094	0.206
038–60	32	9.65	4.78	3.96	10.29	4.27	4.60	2.180	0.094	0.206
038–75	40	9.65	4.78	3.96	10.29	4.27	4.60	2.180	0.094	0.206
038–90	48	9.65	4.78	3.96	10.29	4.27	4.60	2.180	0.094	0.206
038–125	66	9.65	4.78	3.96	10.29	4.27	4.60	2.180	0.094	0.206
039–14	6	9.65	4.78	3.18	10.29	4.27	3.81	2.177	0.075	0.164
039–26	11	9.65	4.78	3.18	10.29	4.27	3.81	2.177	0.075	0.164
039–60	25	9.65	4.78	3.18	10.29	4.27	3.81	2.177	0.075	0.164
039–75	32	9.65	4.78	3.18	10.29	4.27	3.81	2.177	0.075	0.164
039–90	38	9.65	4.78	3.18	10.29	4.27	3.81	2.177	0.075	0.164
039–125	53	9.65	4.78	3.18	10.29	4.27	3.81	2.177	0.075	0.164
040–14	7	10.16	5.08	3.96	10.80	4.57	4.57	2.38	0.100	0.238
040–26	14	10.16	5.08	3.96	10.80	4.57	4.57	2.38	0.100	0.238
040–60	32	10.16	5.08	3.96	10.80	4.57	4.57	2.38	0.100	0.238
040–75	40	10.16	5.08	3.96	10.80	4.57	4.57	2.38	0.100	0.238
040–90	48	10.16	5.08	3.96	10.80	4.57	4.57	2.38	0.100	0.238
040–125	66	10.16	5.08	3.96	10.80	4.57	4.57	2.38	0.100	0.238

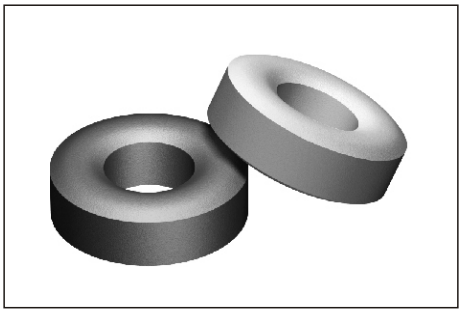
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
Ve: Core Volume
Operating temperature range: –55℃~+125℃
A_L Test condition: 10kHz, 1mT

ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores



TYPICAL PART No.

MPP 106—125
HF
KS

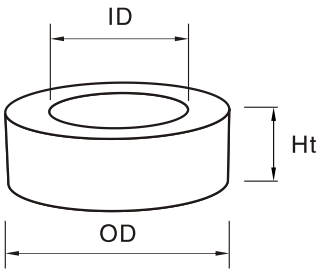
- Permeability(μ_e)
- Size Designation
- Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

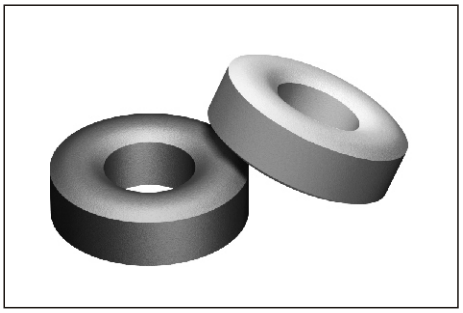
Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			L cm	A cm^2	V cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
050–14	6.4	12.7	7.62	4.75	13.46	6.99	5.51	3.124	0.114	0.356
050–26	12	12.7	7.62	4.75	13.46	6.99	5.51	3.124	0.114	0.356
050–60	27	12.7	7.62	4.75	13.46	6.99	5.51	3.124	0.114	0.356
050–75	34	12.7	7.62	4.75	13.46	6.99	5.51	3.124	0.114	0.356
050–90	40	12.7	7.62	4.75	13.46	6.99	5.51	3.124	0.114	0.356
050–125	56	12.7	7.62	4.75	13.46	6.99	5.51	3.124	0.114	0.356
065–14	8	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192	0.789
065–26	15	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192	0.789
065–60	35	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192	0.789
065–75	43	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192	0.789
065–90	52	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192	0.789
065–125	72	16.51	10.16	6.35	17.40	9.53	7.11	4.11	0.192	0.789
068–14	10	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232	0.961
068–26	19	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232	0.961
068–60	43	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232	0.961
068–75	53	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232	0.961
068–90	64	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232	0.961
068–125	89	17.27	9.65	6.35	18.03	9.02	7.11	4.14	0.232	0.961
080–26	14	20.30	12.70	6.35	21.10	12.07	7.11	5.090	0.226	1.150
080–35	19	20.30	12.70	6.35	21.10	12.07	7.11	5.090	0.226	1.150
080–60	32	20.30	12.70	6.35	21.10	12.07	7.11	5.090	0.226	1.150
080–75	41	20.30	12.70	6.35	21.10	12.07	7.11	5.090	0.226	1.150
080–90	49	20.30	12.70	6.35	21.10	12.07	7.11	5.090	0.226	1.150
080–125	68	20.30	12.70	6.35	21.10	12.07	7.11	5.090	0.226	1.150

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
Ve: Core Volume
Operating temperature range: –55℃~+125℃
A_L Test condition: 10kHz, 1mT

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086–29–87851838 Fax:0086–29–87851840



ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores

TYPICAL PART No.

MPP 106—125
HF
KS

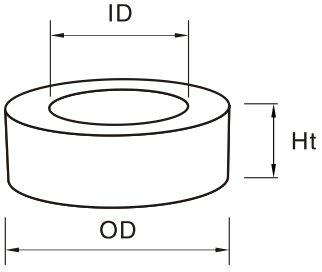
- 125 — Permeability(μ_e)
- 106 — Size Designation
- MPP / HF / KS — Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			L cm	A cm^2	V cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
090-26	19	22.90	14.00	7.62	23.62	13.39	8.38	5.670	0.331	1.880
090-35	25	22.90	14.00	7.62	23.62	13.39	8.38	5.670	0.331	1.880
090-60	43	22.90	14.00	7.62	23.62	13.39	8.38	5.670	0.331	1.880
090-75	54	22.90	14.00	7.62	23.62	13.39	8.38	5.670	0.331	1.880
090-90	65	22.90	14.00	7.62	23.62	13.39	8.38	5.670	0.331	1.880
090-125	90	22.90	14.00	7.62	23.62	13.39	8.38	5.670	0.331	1.880
092-26	22	23.60	14.40	8.89	24.30	13.77	9.70	5.880	0.388	2.280
092-35	30	23.60	14.40	8.89	24.30	13.77	9.70	5.880	0.388	2.280
092-60	51	23.60	14.40	8.89	24.30	13.77	9.70	5.880	0.388	2.280
092-75	63	23.60	14.40	8.89	24.30	13.77	9.70	5.880	0.388	2.280
092-90	76	23.60	14.40	8.89	24.30	13.77	9.70	5.880	0.388	2.280
092-125	105	23.60	14.40	8.89	24.30	13.77	9.70	5.880	0.388	2.280
106-26	32	26.90	14.70	11.20	27.70	14.10	11.99	0.635	0.654	4.150
106-35	45	26.90	14.70	11.20	27.70	14.10	11.99	0.635	0.654	4.150
106-60	75	26.90	14.70	11.20	27.70	14.10	11.99	0.635	0.654	4.150
106-75	94	26.90	14.70	11.20	27.70	14.10	11.99	0.635	0.654	4.150
106-90	113	26.90	14.70	11.20	27.70	14.10	11.99	0.635	0.654	4.150
106-125	157	26.90	14.70	11.20	27.70	14.10	11.99	0.635	0.654	4.150
107-26	26	26.90	14.70	8.64	27.70	14.10	9.45	6.352	0.497	3.1551
107-60	59	26.90	14.70	8.64	27.70	14.10	9.45	6.352	0.497	3.1551
107-75	74	26.90	14.70	8.64	27.70	14.10	9.45	6.352	0.497	3.1551
107-90	89	26.90	14.70	8.64	27.70	14.10	9.45	6.352	0.497	3.1551
107-125	123	26.90	14.70	8.64	27.70	14.10	9.45	6.352	0.497	3.1551

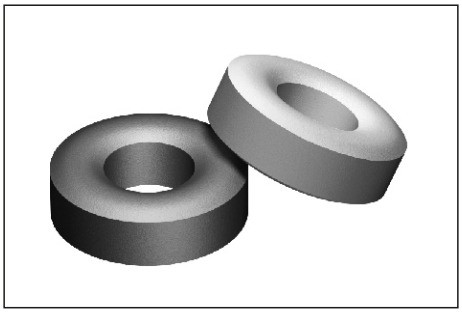
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
Ve: Core Volume
Operating temperature range: –55℃~+125℃
A_L Test condition: 10kHz, 1mT

ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores



TYPICAL PART No.

MPP 106—125
HF
KS

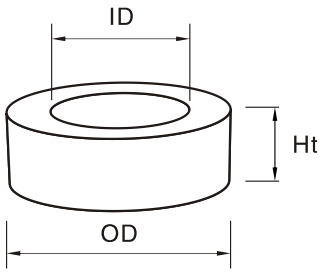
- Permeability(μ_e)
- Size Designation
- Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

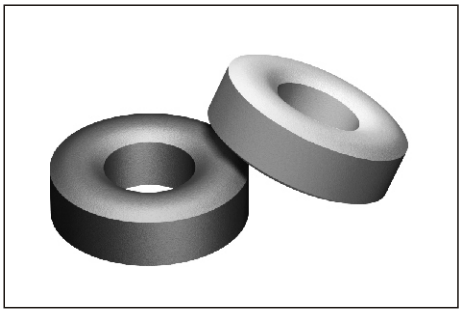
Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			L cm	A cm^2	V cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
130–26	28	33.00	19.90	10.70	33.83	19.30	11.61	8.150	0.672	5.480
130–35	36	33.00	19.90	10.70	33.83	19.30	11.61	8.150	0.672	5.480
130–60	61	33.00	19.90	10.70	33.83	19.30	11.61	8.150	0.672	5.480
130–75	76	33.00	19.90	10.70	33.83	19.30	11.61	8.150	0.672	5.480
130–90	91	33.00	19.90	10.70	33.83	19.30	11.61	8.150	0.672	5.480
130–125	127	33.00	19.90	10.70	33.83	19.30	11.61	8.150	0.672	5.480
131–26	22	33.00	19.90	8.76	33.83	19.30	9.70	8.147	0.551	4.490
131–60	51	33.00	19.90	8.76	33.83	19.30	9.70	8.147	0.551	4.490
131–75	64	33.00	19.90	8.76	33.83	19.30	9.70	8.147	0.551	4.490
131–90	76.5	33.00	19.90	8.76	33.83	19.30	9.70	8.147	0.551	4.490
131–125	109	33.00	19.90	8.76	33.83	19.30	9.70	8.147	0.551	4.490
132–26	28	33.0	19.90	11.18	33.83	19.30	11.99	8.147	0.698	5.687
132–60	65	33.0	19.90	11.18	33.83	19.30	11.99	8.147	0.698	5.687
132–75	81	33.0	19.90	11.18	33.83	19.30	11.99	8.147	0.698	5.687
132–90	97	33.0	19.90	11.18	33.83	19.30	11.99	8.147	0.698	5.687
132–125	135	33.0	19.90	11.18	33.83	19.30	11.99	8.147	0.698	5.687
135–26	16	34.30	23.40	8.89	35.10	22.56	9.83	8.950	0.454	4.060
135–35	22	34.30	23.40	8.89	35.10	22.56	9.83	8.950	0.454	4.060
135–60	38	34.30	23.40	8.89	35.10	22.56	9.83	8.950	0.454	4.060
135–75	47	34.30	23.40	8.89	35.10	22.56	9.83	8.950	0.454	4.060
135–90	57	34.30	23.40	8.89	35.10	22.56	9.83	8.950	0.454	4.060
135–125	79	34.30	23.40	8.89	35.10	22.56	9.83	8.950	0.454	4.060

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
Ve: Core Volume
Operating temperature range: –55℃~+125℃
A_L Test condition: 10kHz, 1mT

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086–29–87851838 Fax:0086–29–87851840



ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores

TYPICAL PART No.

MPP 106—125
HF
KS

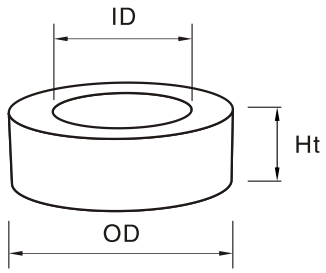
- Permeability(μ_e)
- Size Designation
- Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			L cm	A cm^2	V cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
141-26	24	35.80	22.40	10.50	36.63	21.54	11.28	0.678	6.088	3.640
141-35	33	35.80	22.40	10.50	36.63	21.54	11.28	0.678	6.088	3.640
141-60	56	35.80	22.40	10.50	36.63	21.54	11.28	0.678	6.088	3.640
141-75	70	35.80	22.40	10.50	36.63	21.54	11.28	0.678	6.088	3.640
141-90	84	35.80	22.40	10.50	36.63	21.54	11.28	0.678	6.088	3.640
141-125	117	35.80	22.40	10.50	36.63	21.54	11.28	0.678	6.088	3.640
157-26	35	39.90	24.10	14.50	40.72	23.30	15.37	9.840	1.072	10.500
157-35	48	39.90	24.10	14.50	40.72	23.30	15.37	9.840	1.072	10.500
157-60	81	39.90	24.10	14.50	40.72	23.30	15.37	9.840	1.072	10.500
157-75	101	39.90	24.10	14.50	40.72	23.30	15.37	9.840	1.072	10.500
157-90	121	39.90	24.10	14.50	40.72	23.30	15.37	9.840	1.072	10.500
157-125	168	39.90	24.10	14.50	40.72	23.30	15.37	9.840	1.072	10.500
168-26	47	42.90	24.20	16.26	44.00	23.30	17.16	10.261	1.475	15.741
168-35	63	42.90	24.20	16.26	44.00	23.30	17.16	10.261	1.475	15.741
168-60	108	42.90	24.20	16.26	44.00	23.30	17.16	10.261	1.475	15.741
168-75	135	42.90	24.20	16.26	44.00	23.30	17.16	10.261	1.475	15.741
168-90	161	42.90	24.20	16.26	44.00	23.30	17.16	10.261	1.475	15.741
168-125	224	42.90	24.20	16.26	44.00	23.30	17.16	10.261	1.475	15.741
184-26	59	46.70	24.10	18.00	47.63	23.32	18.92	10.740	1.990	21.300
184-35	80	46.70	24.10	18.00	47.63	23.32	18.92	10.740	1.990	21.300
184-60	135	46.70	24.10	18.00	47.63	23.32	18.92	10.740	1.990	21.300
184-75	169	46.70	24.10	18.00	47.63	23.32	18.92	10.740	1.990	21.300
184-90	202	46.70	24.10	18.00	47.63	23.32	18.92	10.740	1.990	21.300
184-125	281	46.70	24.10	18.00	47.63	23.32	18.92	10.740	1.990	21.300

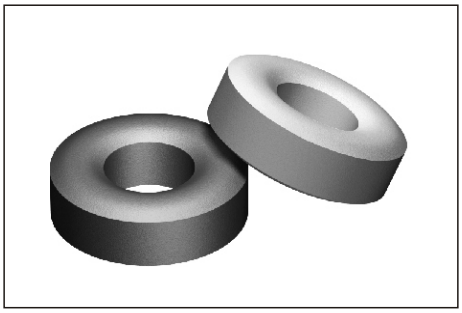
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
Ve: Core Volume
Operating temperature range: -55℃~+125℃
A_L Test condition: 10kHz, 1mT

ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores



TYPICAL PART No.

MPP 106—125
HF
KS

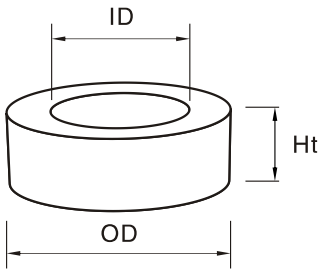
- Permeability(μ_e)
- Size Designation
- Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			L cm	A cm^2	V cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
185–26	37	46.70	28.70	15.20	47.63	27.89	16.13	11.630	1.340	15.580
185–35	50	46.70	28.70	15.20	47.63	27.89	16.13	11.630	1.340	15.580
185–60	86	46.70	28.70	15.20	47.63	27.89	16.13	11.630	1.340	15.580
185–75	107	46.70	28.70	15.20	47.63	27.89	16.13	11.630	1.340	15.580
185–90	128	46.70	28.70	15.20	47.63	27.89	16.13	11.630	1.340	15.580
185–125	178	46.70	28.70	15.20	47.63	27.89	16.13	11.630	1.340	15.580
200–26	32	50.80	31.80	13.50	51.69	30.94	14.35	12.730	1.251	15.930
200–35	43	50.80	31.80	13.50	51.69	30.94	14.35	12.730	1.251	15.930
200–60	73	50.80	31.80	13.50	51.69	30.94	14.35	12.730	1.251	15.930
200–75	91	50.80	31.80	13.50	51.69	30.94	14.35	12.730	1.251	15.930
200–90	109	50.80	31.80	13.50	51.69	30.94	14.35	12.730	1.251	15.930
200–125	152	50.80	31.80	13.50	51.69	30.94	14.35	12.730	1.251	15.930
225–26	33	57.20	35.60	14.00	58.00	34.70	14.86	14.300	1.444	20.650
225–35	44	57.20	35.60	14.00	58.00	34.70	14.86	14.300	1.444	20.650
225–60	75	57.20	35.60	14.00	58.00	34.70	14.86	14.300	1.444	20.650
225–75	94	57.20	35.60	14.00	58.00	34.70	14.86	14.300	1.444	20.650
225–90	112	57.20	35.60	14.00	58.00	34.70	14.86	14.300	1.444	20.650
225–125	156	57.20	35.60	14.00	58.00	34.70	14.86	14.300	1.444	20.650
226–26	60	57.20	26.40	15.20	58.00	25.60	16.10	12.500	2.290	28.600
226–35	81	57.20	26.40	15.20	58.00	25.60	16.10	12.500	2.290	28.600
226–60	138	57.20	26.40	15.20	58.00	25.60	16.10	12.500	2.290	28.600
226–75	172	57.20	26.40	15.20	58.00	25.60	16.10	12.500	2.290	28.600
226–90	207	57.20	26.40	15.20	58.00	25.60	16.10	12.500	2.290	28.600
226–125	287	57.20	26.40	15.20	58.00	25.60	16.10	12.500	2.290	28.600

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
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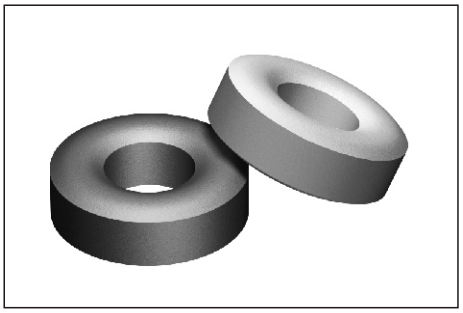
Operating temperature range: –55℃~+125℃
A_L Test condition: 10kHz, 1mT

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086–29–87851838 Fax:0086–29–87851840



ALLOY POWDER CORE SERIES PRODUCTS

Toroidal Cores

TYPICAL PART No.

MPP 106—125
HF
KS

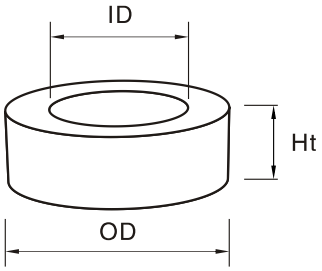
- 125 — Permeability(μ_e)
- 106 — Size Designation
- KS — Materials Mix No.

Permeability:From 14 μ to125 μ
MPP:MPP Core(gray)
HF:High Flux Core(blue)
KS:Sendust Core(black)

STANDARD SPECIFICATIONS

Part No. MPP-XXX-XX HF-XXX-XX KS-XXX-XX	A_L nH/N^2	Dimensions (Bare)			Dimensions (Coated)			L cm	A cm^2	V cm^3
		OD mm	ID mm	HT mm	OD mm(Max)	ID mm(Min)	HT mm(Max)			
300-26	30	77.80	49.20	12.70	78.90	48.20	13.84	20.00	1.770	34.700
300-60	68	77.80	49.20	12.70	78.90	48.20	13.84	20.00	1.770	34.700
300-75	85	77.80	49.20	12.70	78.90	48.20	13.84	20.00	1.770	34.700
300-90	102	77.80	49.20	12.70	78.90	48.20	13.84	20.00	1.770	34.700
300-125	142	77.80	49.20	12.70	78.90	48.20	13.84	20.00	1.770	34.700
301-26	37	77.80	49.20	15.90	78.90	48.20	17.02	19.950	2.270	45.300
301-60	85	77.80	49.20	15.90	78.90	48.20	17.02	19.950	2.270	45.300
301-75	107	77.80	49.20	15.90	78.90	48.20	17.02	19.950	2.270	45.300
301-90	128	77.80	49.20	15.90	78.90	48.20	17.02	19.950	2.270	45.300
301-125	178	77.80	49.20	15.90	78.90	48.20	17.02	19.950	2.270	45.300

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS



Le: Mean Magnetic Path length
Ae: Cross Section Area
Ve: Core Volume
Operating temperature range: -55℃~+125℃
A_L Test condition: 10kHz, 1mT