Manitech

Magnetic Powder Core Product Catalog

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Material Introduction and Overview

Overview - Magnetic Powder Core

Powder cores are made from discrete particles of ferromagnetic powder.Before forming the magnetic core, each particle is coated with a thin layer of electrically insulating material to ensure electrical isolation between particles. The particles are then compacted under high pressure to form the desired magnetic core geometry. The electrical insulation between particles allows the material to be used at high frequencies. This insulation also creates distributed air gaps throughout the core material, giving it the ability to maintain inductance linearity under DC bias.Manitech produces four different types of alloy powder cores: MNS–Sendus; MNF–Olypermalloy; MNP –FluxsanTM ; MNH – Iron-Nickel.

MNS - Sendus

- Iron-Silicon-Aluminum alloy powder material
- Permeability options: 14μ, 26μ, 40μ, 60μ, 75μ, 90μ, 125μ, 147μ, and 160μ
- Low magnetostriction, suitable for quiet (low-audible-noise) applications
- Cost-effective, low-loss material
- Operating frequency up to the MHz range
- No thermal aging
- Available in a wide variety of shapes: toroidal, E-type, block-type, and EQ-type

MNP-Molypermalloy

- Nickel-Iron-Molybdenum alloy powder material
- Permeability options: 14μ, 26μ, 60μ, 125μ, 147μ, 160μ, 173μ, and 205μ
- Ultra-low-loss powder material,
- Suitable for operating frequencies ≤ 200 kHz
- No thermal aging
- Various toroidal core options with an approximate outer diameter of 154 mm
- Stable MPP cores available — please visit our website for more details.

MNF-FluxsanTM

- Permeability options: 14μ, 26μ, 40μ, 60μ, 75μ, 90μ, and 125μ
- High saturation characteristics
- Low core loss
- Operating at frequencies ≤ 200 kHz
- No thermal aging
- Available in various shapes: toroidal, E-type, block-type, and EQ-type

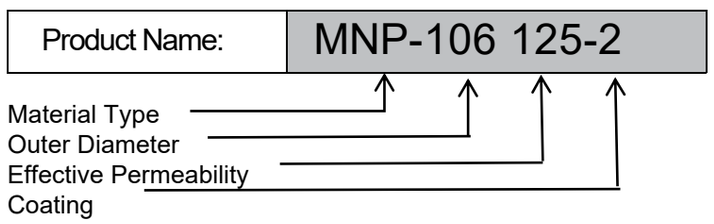
MNH -HI-FLUXTM

- Permeability options: 14μ, 26μ, 60μ, 125μ, 147μ, and 160μ
- High saturation characteristics
- Medium core loss
- Operating at frequencies ≤ 200 kHz
- No thermal aging

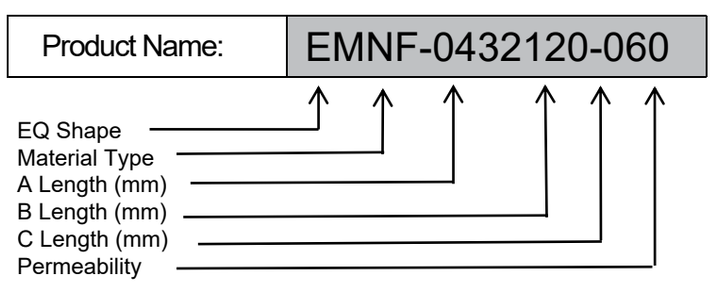
Product Naming Example

Product Name
Alloy Magnetic Powder Core Naming Structure：

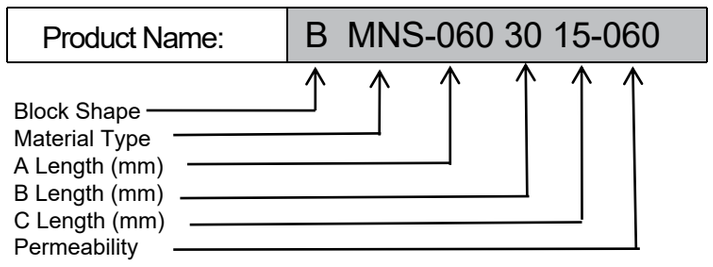
Toroidal Core Geometry



Type E Core Geometry



Block Core Geometry

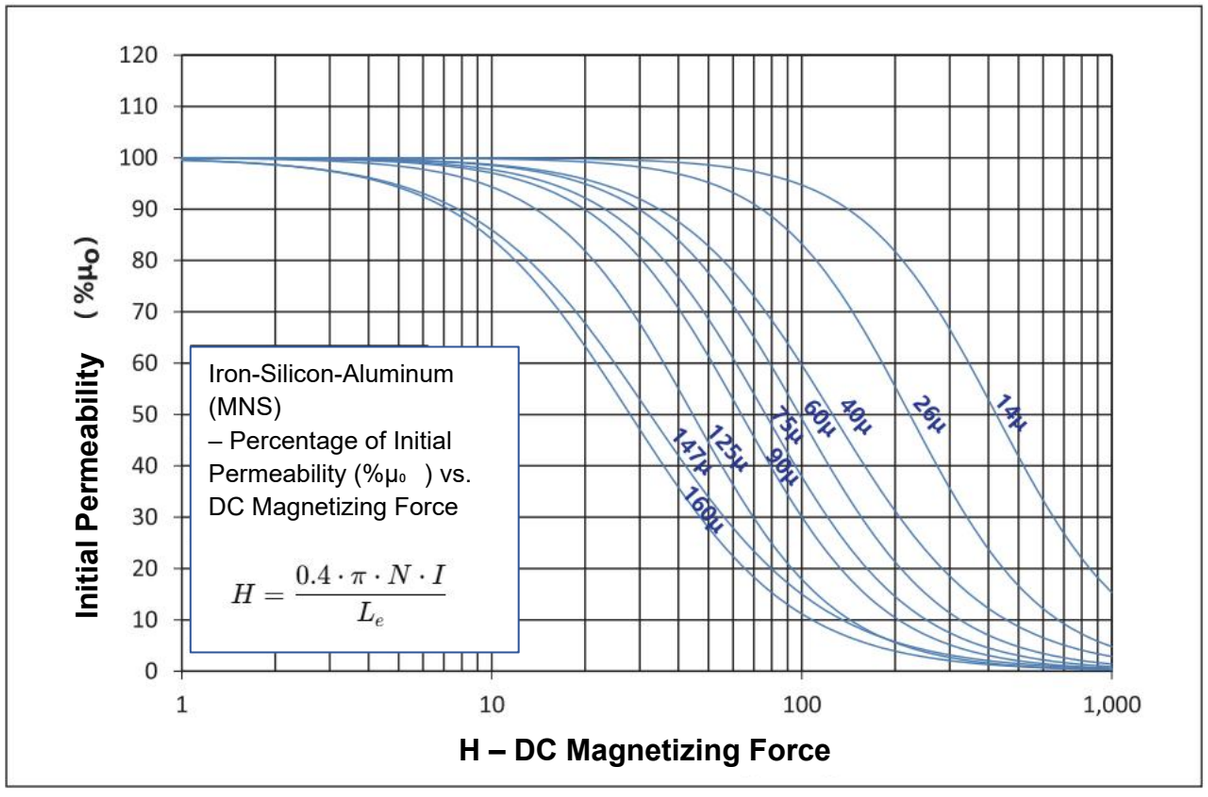


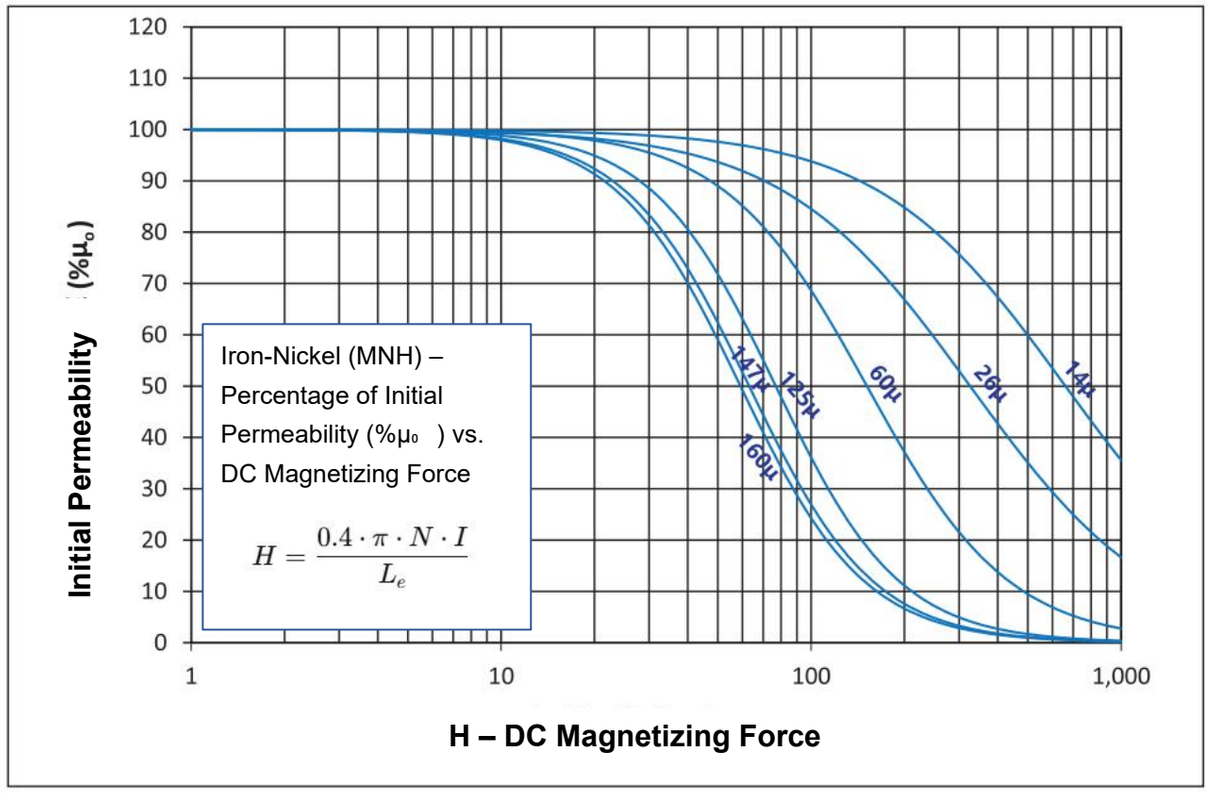
Material Type Codes
MNS = Iron-Silicon-Aluminum
MNF = Iron-Silicon
MNP = Iron-Nickel-Molybdenum
MNH = Iron-Nickel

Coating Codes
2 = Blue Epoxy Coating
4 = Black Epoxy Coating

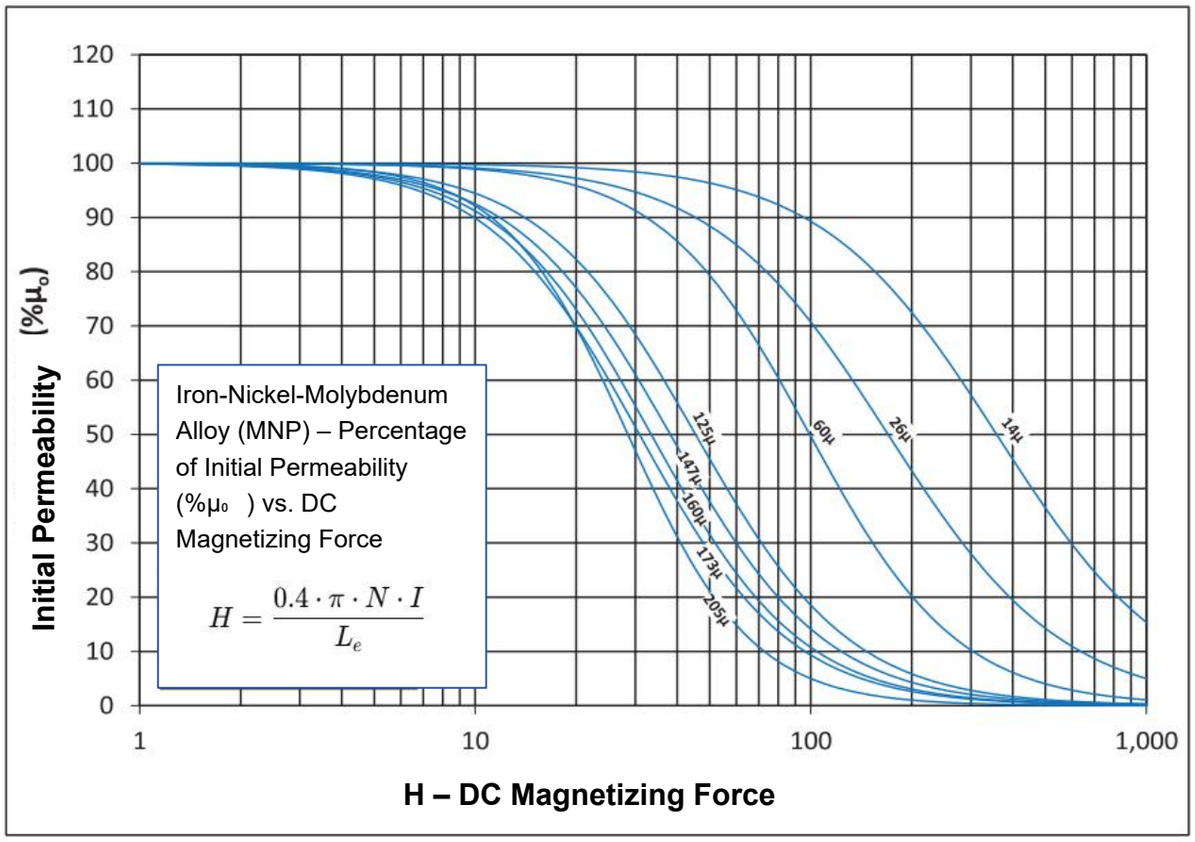
Packaging Information

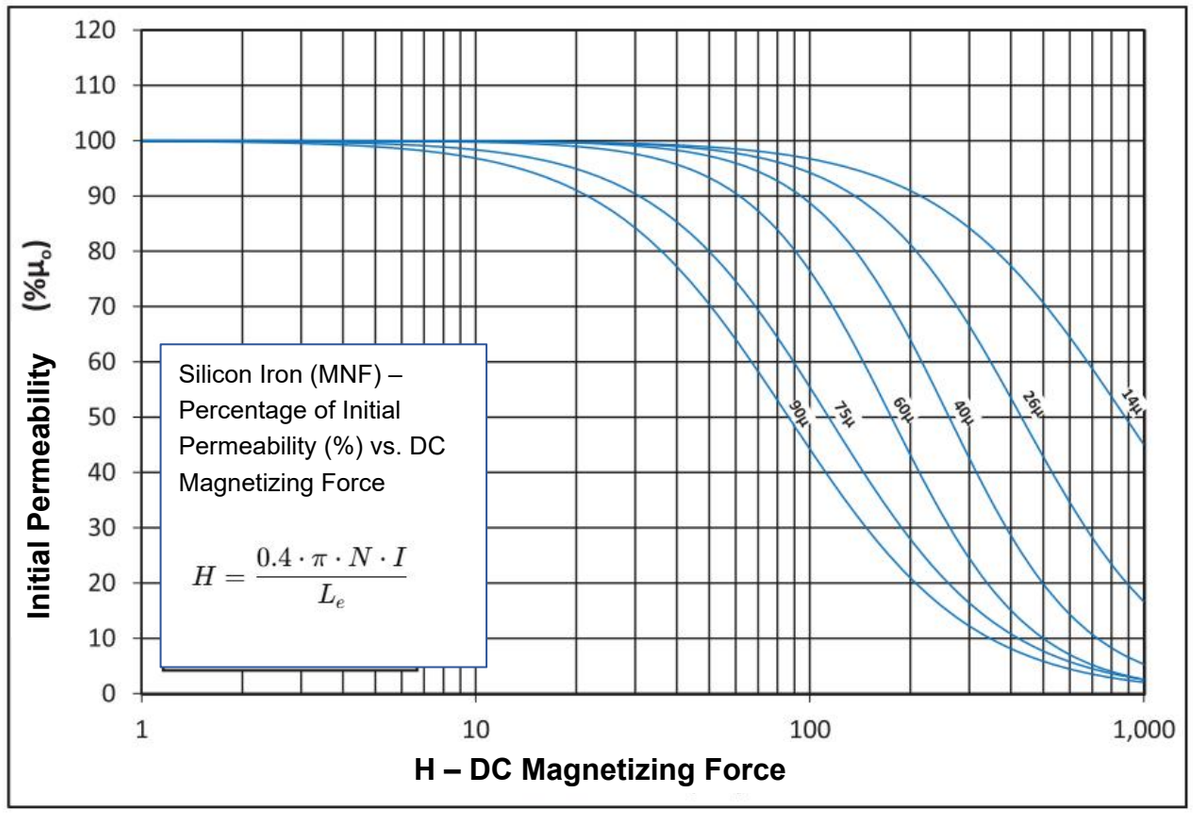
The standard carton size is 31 × 31 × 11.5 cm.
The quantity per box can be found on the product's detailed page.


Initial Permeability (%μ₀)
120
110
100
90
80
70
60
50
40
30
20
10
0
1
10
100
1,000
H – DC Magnetizing Force
Iron-Silicon-Aluminum (MNS) – Percentage of Initial Permeability (%μ₀) vs. DC Magnetizing Force
$H = \frac{0.4 \cdot \pi \cdot N \cdot I}{L_e}$
14μ
26μ
40μ
60μ
75μ
90μ
125μ
147μ
168μ

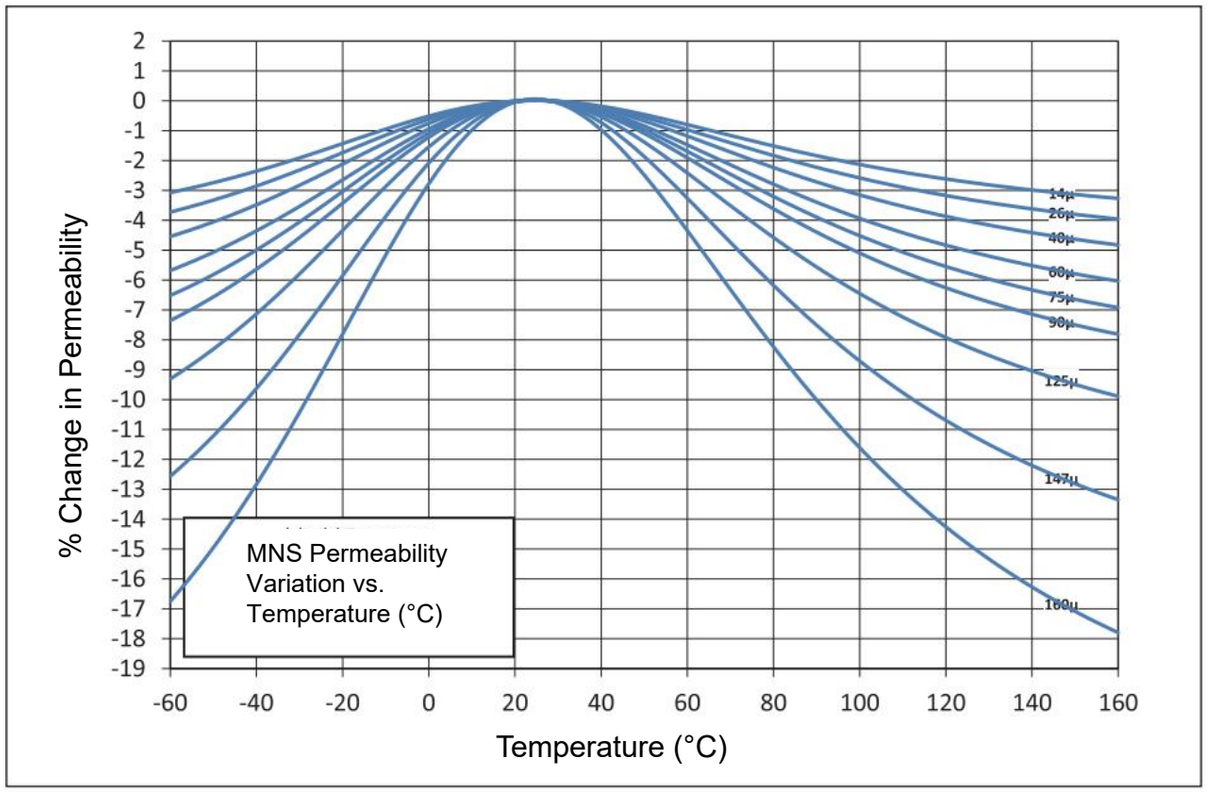

Initial Permeability (%μ₀)
120
110
100
90
80
70
60
50
40
30
20
10
0
1
10
100
1,000
H – DC Magnetizing Force
Iron-Nickel (MNH) – Percentage of Initial Permeability (%μ₀) vs. DC Magnetizing Force
$H = \frac{0.4 \cdot \pi \cdot N \cdot I}{L_e}$
14μ
26μ
60μ
125μ
147μ
168μ

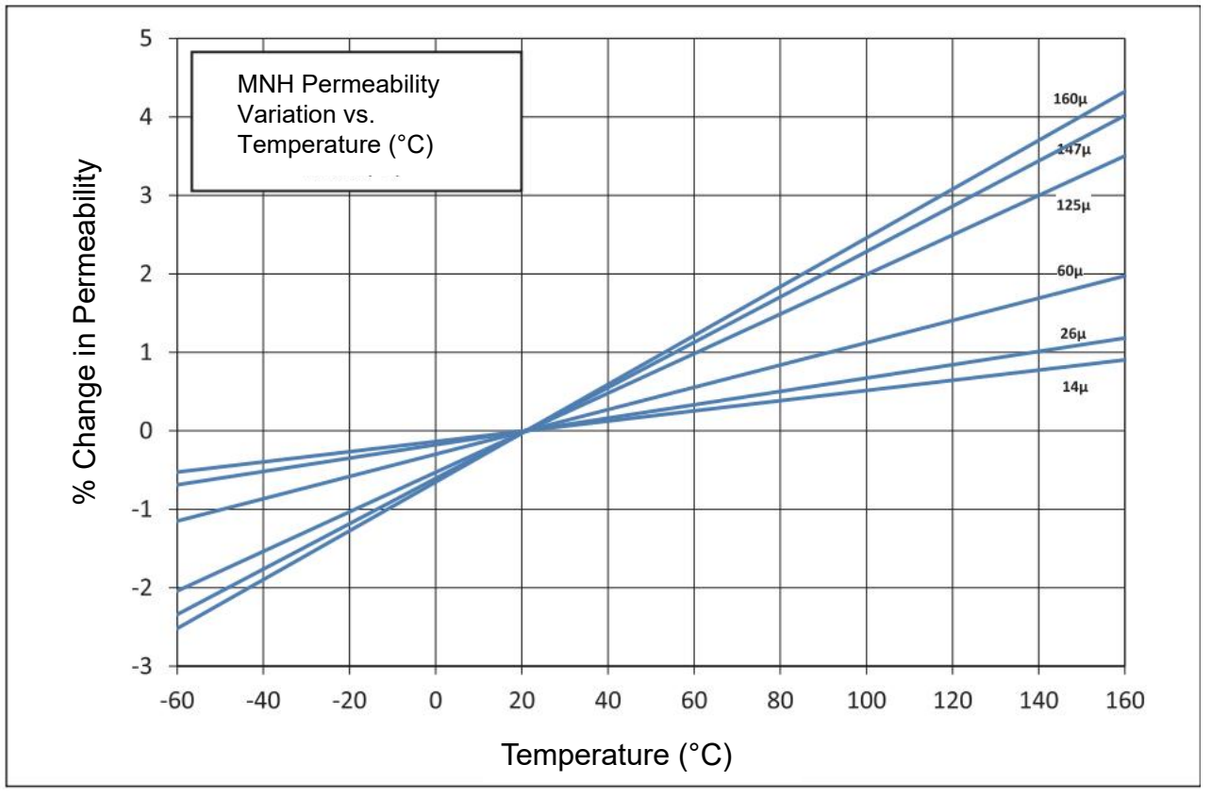
Relationship Between Initial Permeability and DC Magnetizing Force



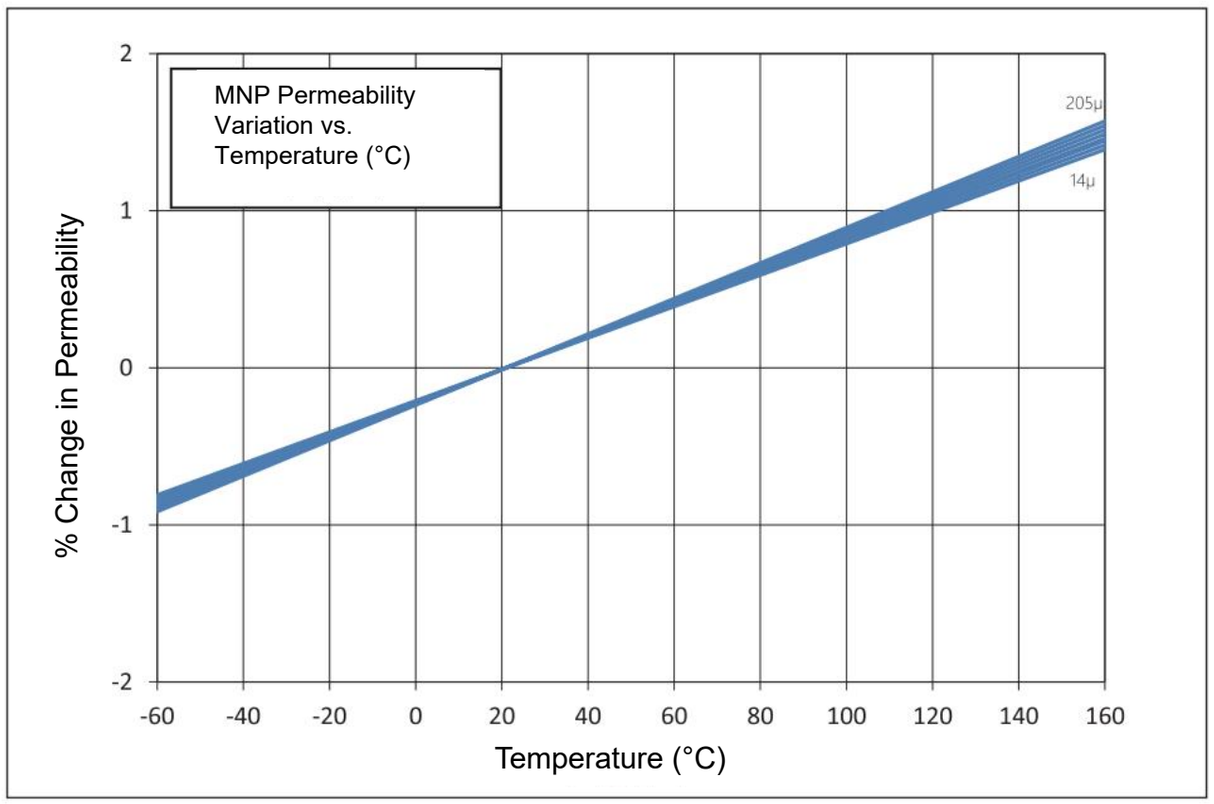


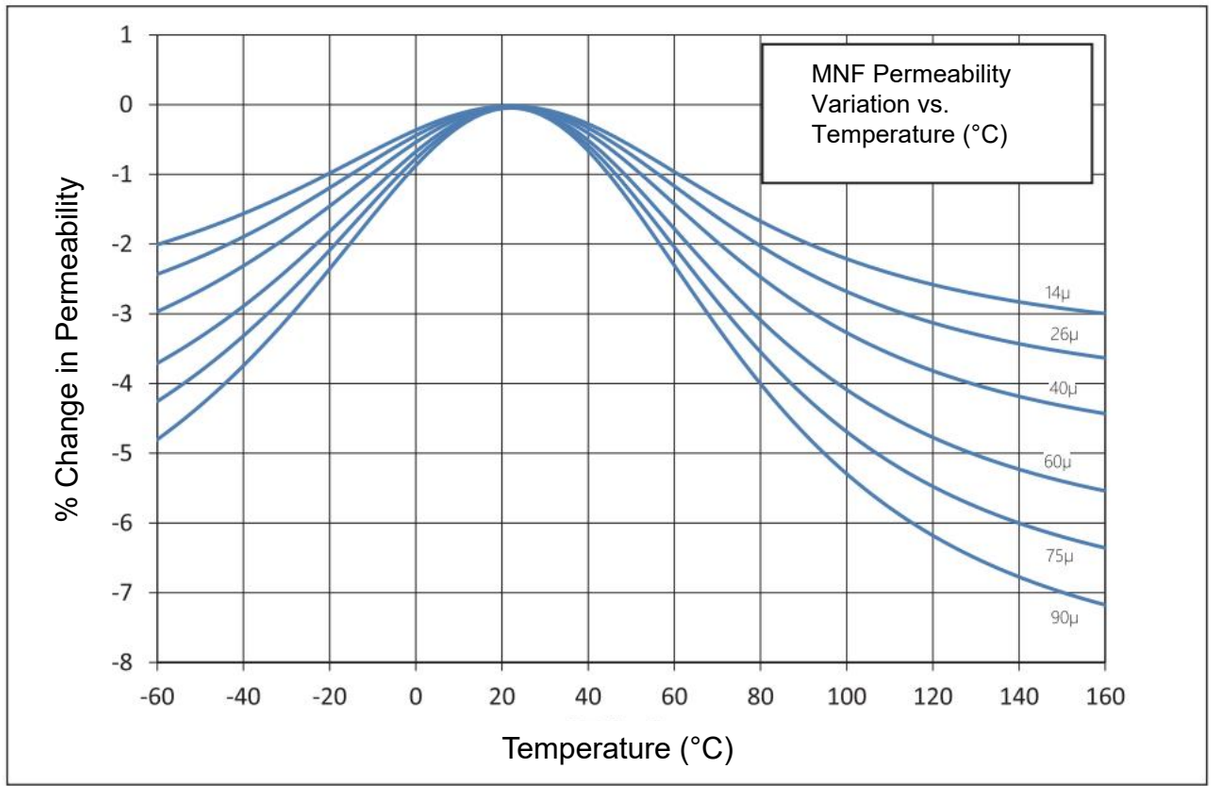
Relationship Between Permeability and Temperature



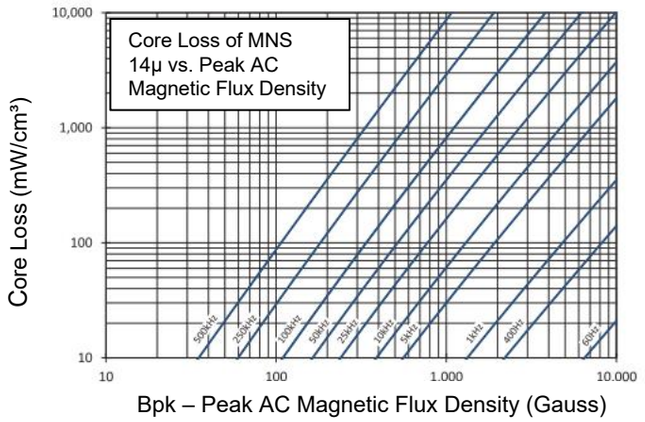


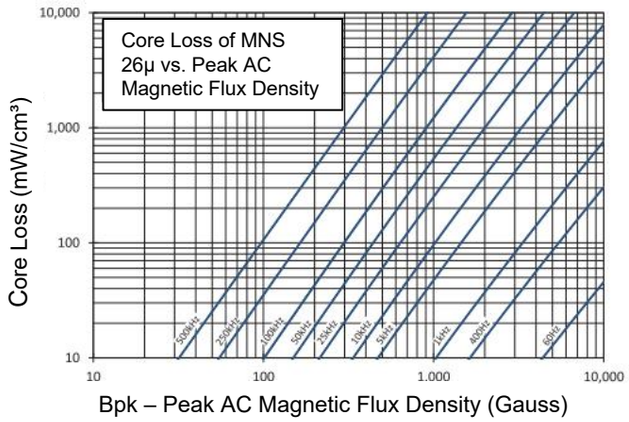
Relationship Between Permeability and Temperature

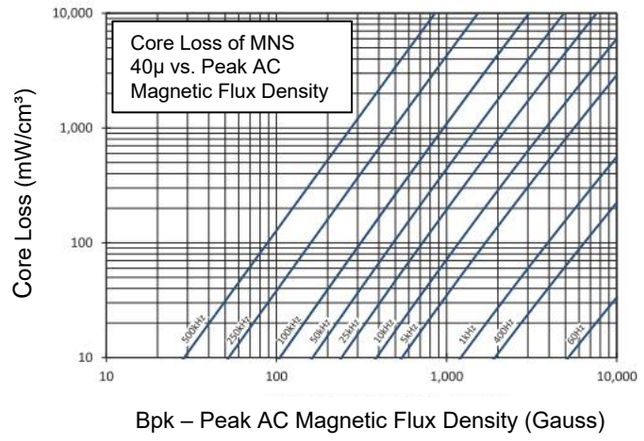


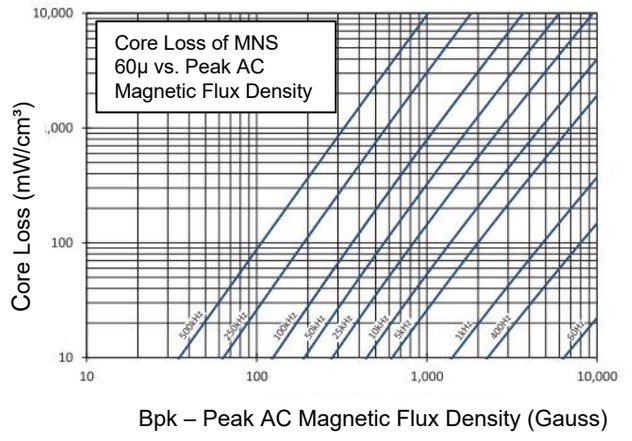


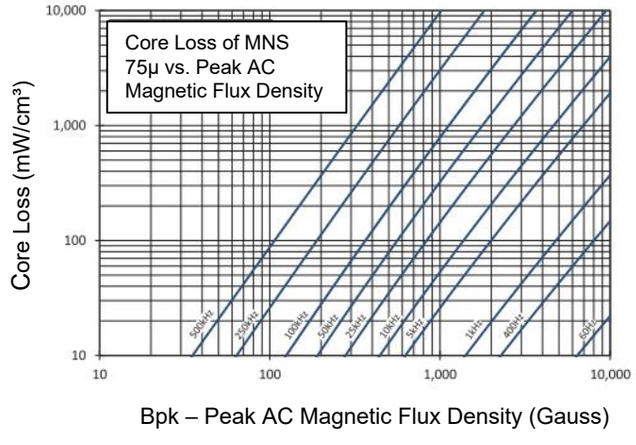
Iron-Silicon-Aluminum (MNS) Core Loss

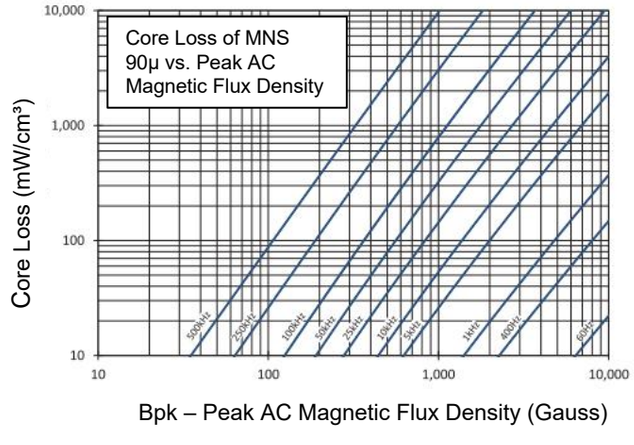




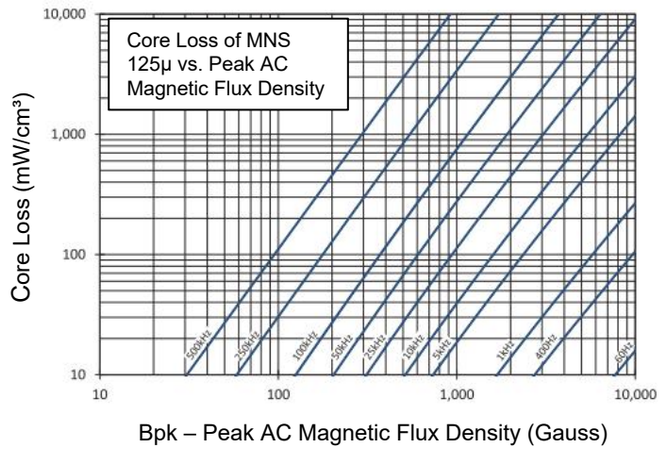


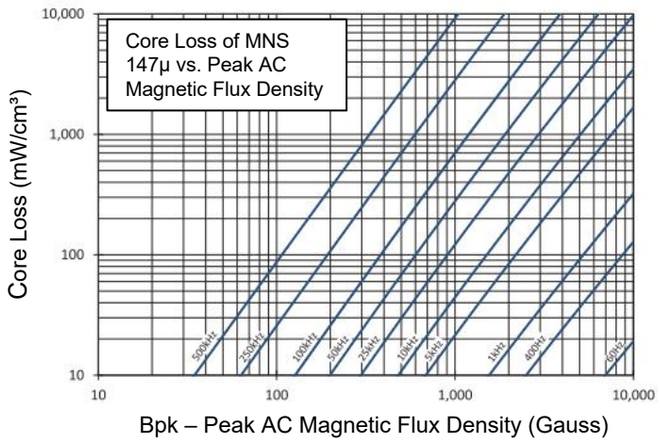


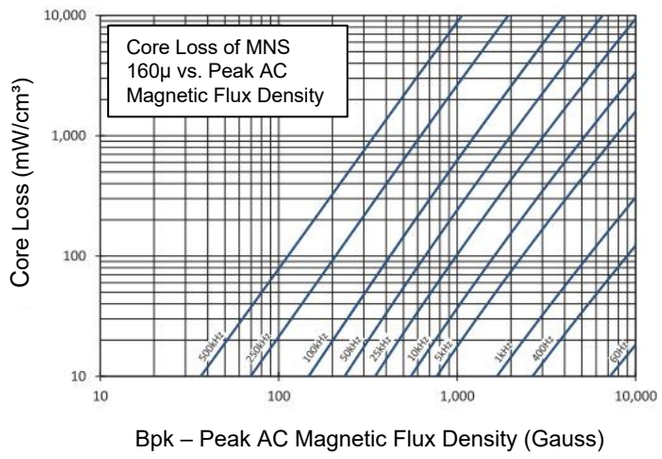




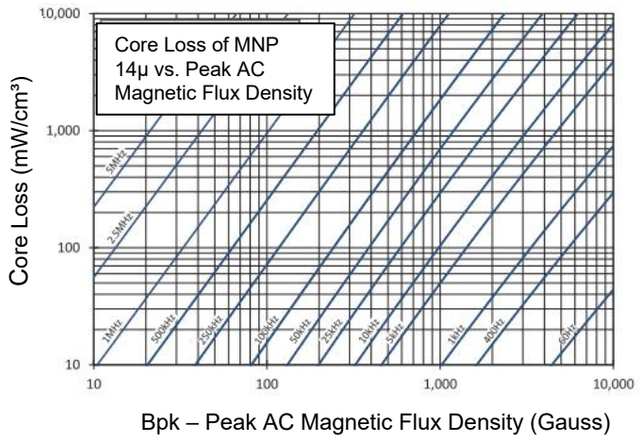
Core Loss of Iron-Silicon-Aluminum (MNS)

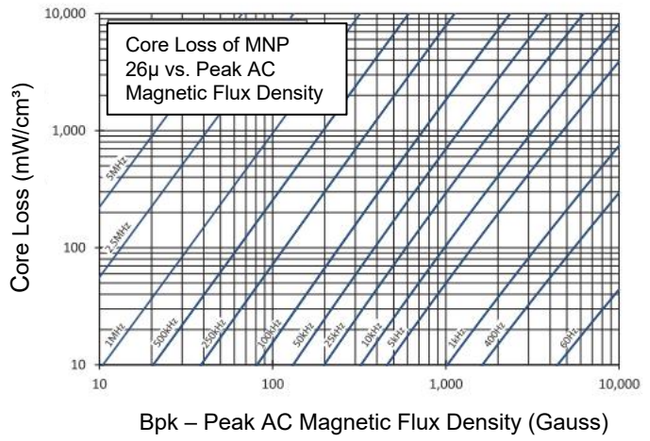


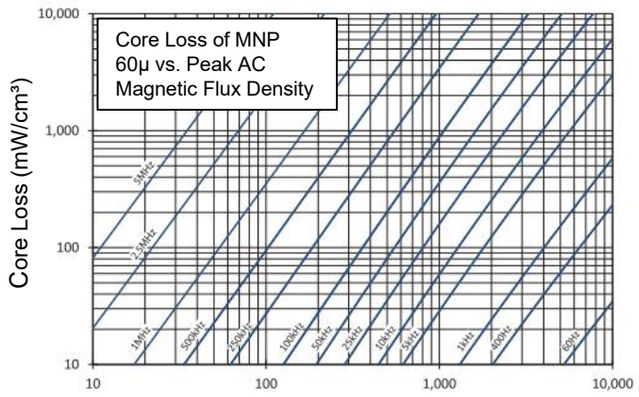


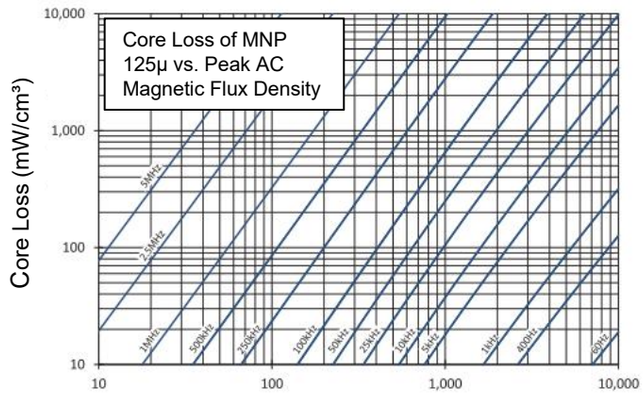


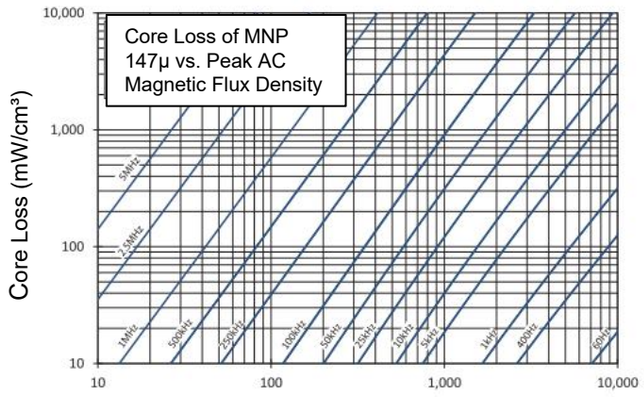
Core Loss of Iron-Nickel-Molybdenum (MNP)

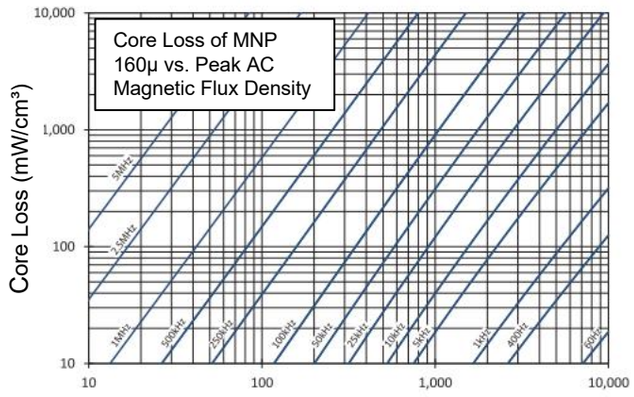




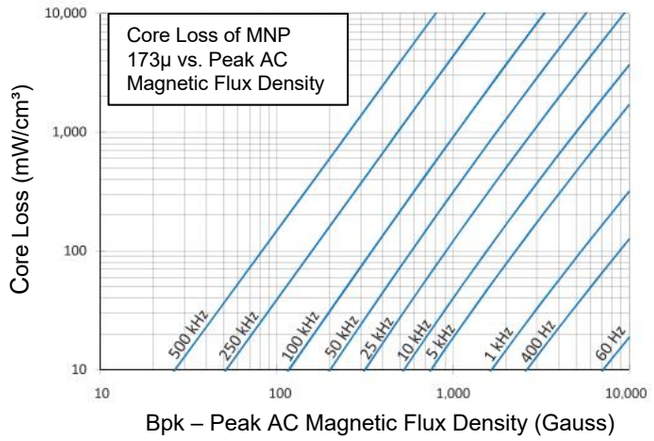


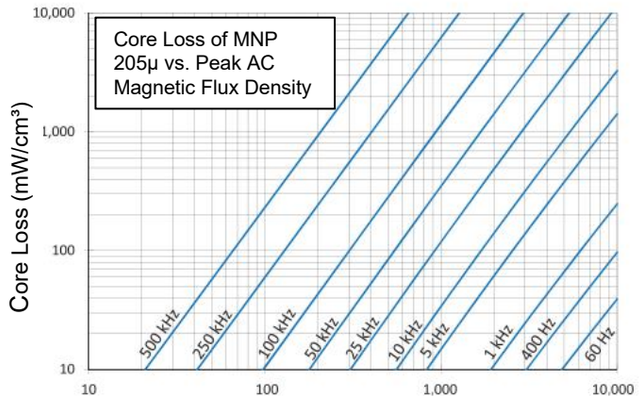


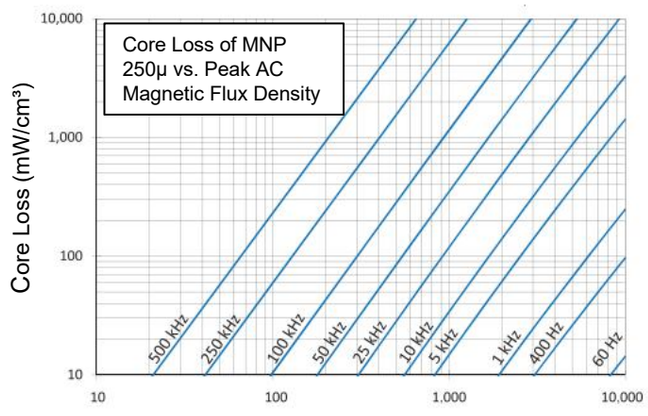




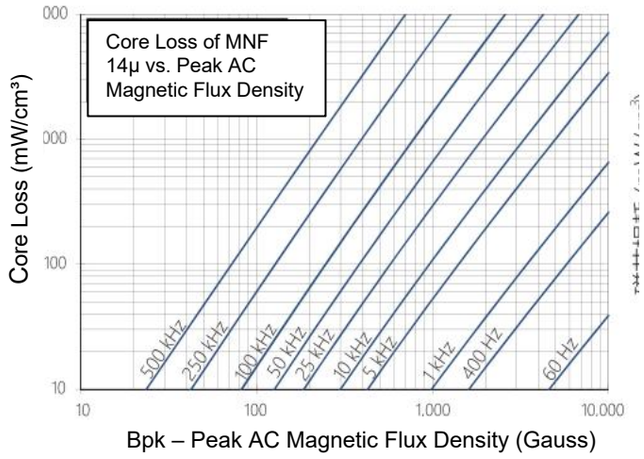
Core Loss of Iron-Nickel-Molybdenum (MNP)

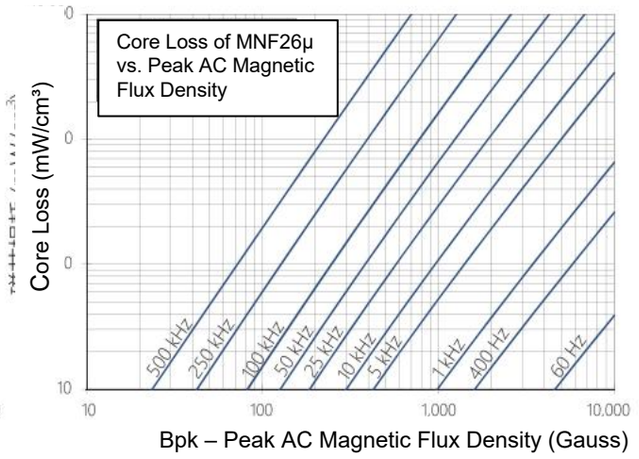


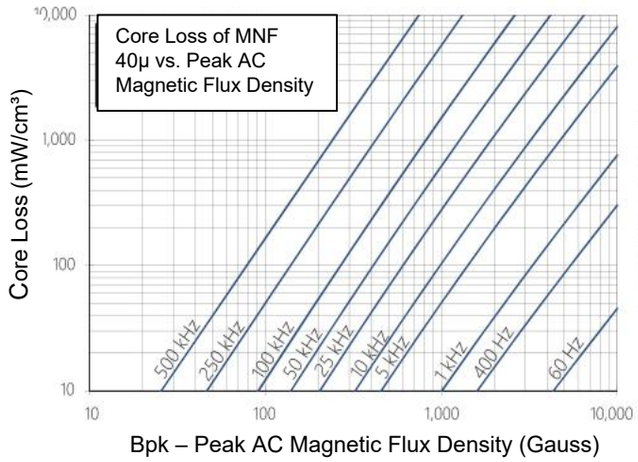


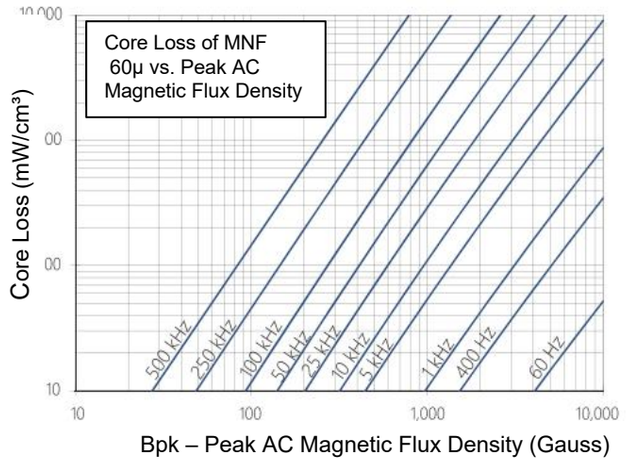


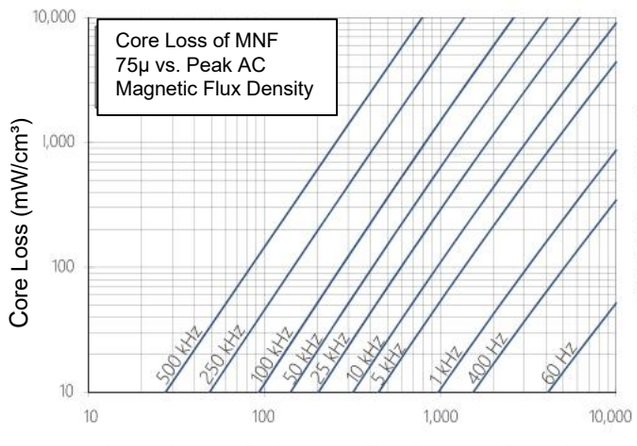
Core Loss of Iron-Silicon (MNF)

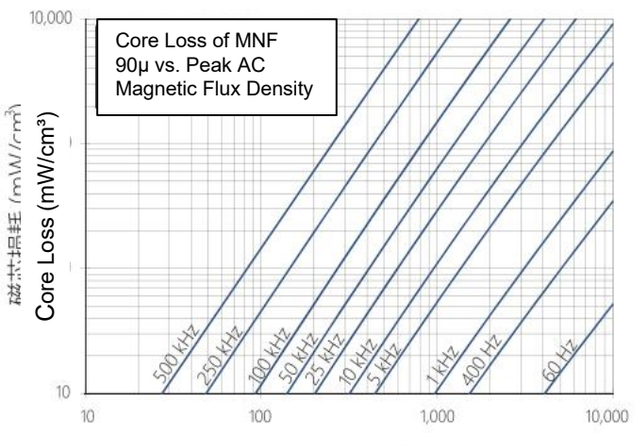




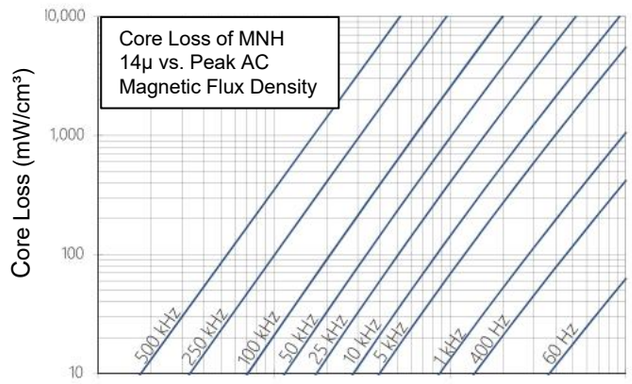




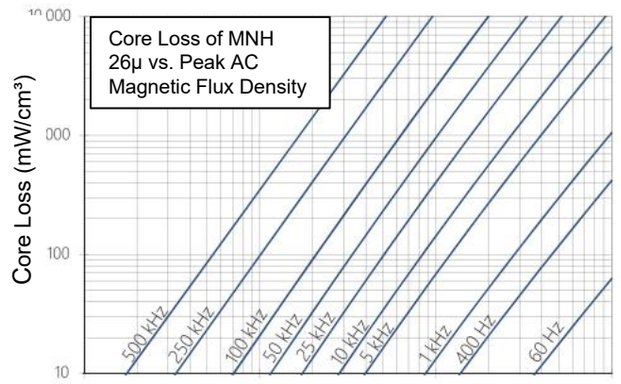




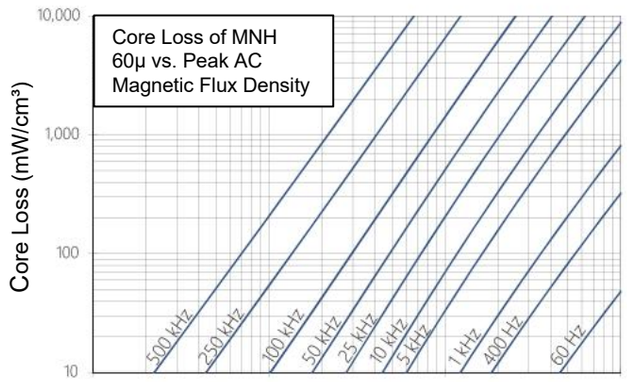
Core Loss of Iron-Nickel (MNH)



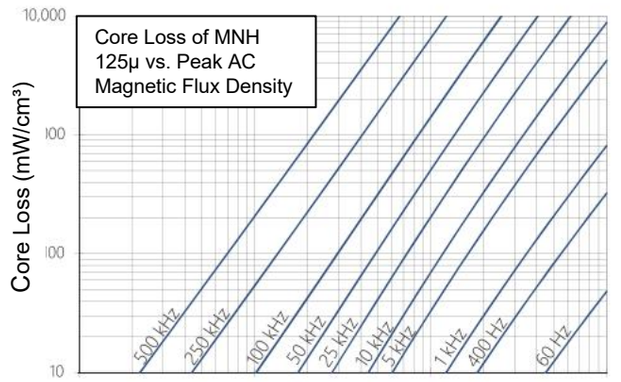
Bpk – Peak AC Magnetic Flux Density (Gauss)



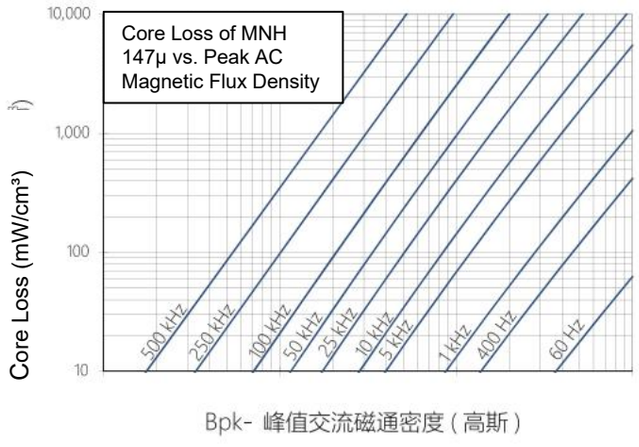
Bpk – Peak AC Magnetic Flux Density (Gauss)



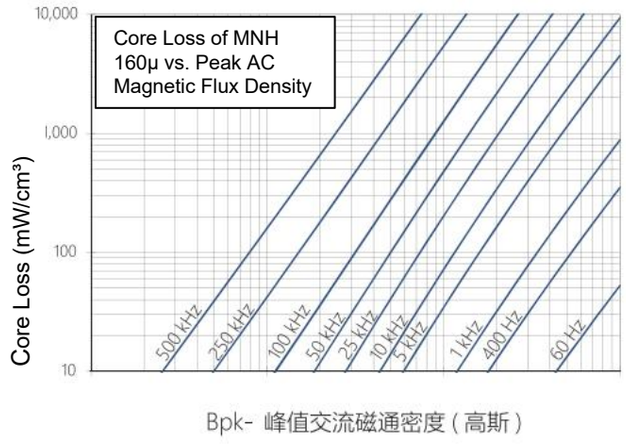
Bpk – Peak AC Magnetic Flux Density (Gauss)



Bpk – Peak AC Magnetic Flux Density (Gauss)

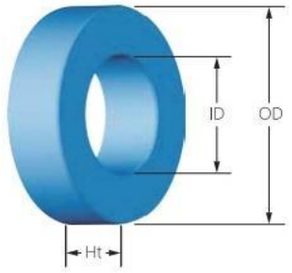


Bpk – Peak AC Magnetic Flux Density (Gauss)



Bpk – Peak AC Magnetic Flux Density (Gauss)

Toroidal Core – 0.400 inch / 10.16 mm Outer Diameter



Product Name:	MNS-040 125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	10.16 mm	0.400 in
	After Coating (Max)	10.8 mm	0.425 in
Inner Diameter	Bare Core	5.08 mm	0.200 in
	After Coating (Min)	4.57 mm	0.180 in
Height	Bare Core	3.96 mm	0.156 in
	After Coating (Max)	4.57 mm	0.180 in

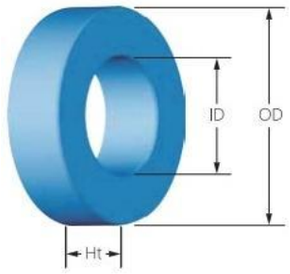
Magnetic Dimensions

Symbol	Description	Value
Ae	Effective Cross-sectional Area	0.100 cm2
Le	Effective Magnetic Path Length	2.38 cm
Ve	Effective Core Volume	0.238 cm2
WA	Minimum Effective Window Area	0.164 cm2
SA	Surface Area	4.20 cm2
MLT	Mean Length per Turn	1.77 cm

Permeability / Product Names

Effective permeability	Inductance Factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	7	MNS-040014-4	MNP-040014-2	MNH-040014-2	MNF-040014-2
26μ	14	MNS-040026-4	MNP-040026-2	MNH-040026-2	MNF-040026-2
40μ	21	MNS-040040-4			
60μ	32	MNS-040060-4	MNP-040060-2	MNH-040060-2	MNF-040060-2
75μ	40	MNS-040075-4			MNF-040075-2
90μ	48	MNS-040090-4			MNF-040090-2
125μ	66	MNS-040125-4	MNP-040125-2	MNH-040125-2	
147μ	78	MNS-040147-4	MNP-040147-2	MNH-040147-2	
160μ	84	MNS-040160-4	MNP-040160-2	MNH-040160-2	
173μ	92		MNP-040173-2		
205μ	105		MNP-040205-2		

Toroidal Core – 0.440 inch / 11.18 mm Outer Diameter



Product Name:	MNS-044 125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	11.18 mm	0.440in
	After Coating (Max)	11.89 mm	0.468 in
Inner Diameter	Bare Core	6.35 mm	0.250 in
	After Coating (Min)	5.89mm	0.232 in
Height	Bare Core	3.96 mm	0.156 in
	After Coating (Max)	4.72mm	0.186 in

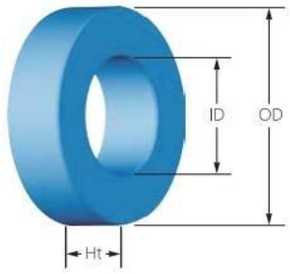
Magnetic Dimensions

Symbol	Description	Value
Ae	Effective Cross-sectional Area	0.0906 cm2
Le	Effective Magnetic Path Length	2.69 cm
Ve	Effective Core Volume	0.244 cm2
WA	Minimum Effective Window Area	0.272 cm2
SA	Surface Area	5.10 cm2
MLT	Mean Length per Turn	1.84 cm

Permeability / Product Names

Effective permeability	Inductance Factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	6	MNS-044014-4	MNP-044014-2	MNH-044014-2	MNF-044014-2
26μ	11	MNS-044026-4	MNP-044026-2	MNH-044026-2	MNF-044026-2
40μ	17	MNS-044040-4			
60μ	26	MNS-044060-4	MNP-044060-2	MNH-044060-2	MNF-044060-2
75μ	32	MNS-044075-4			MNF-044075-2
90μ	38	MNS-044090-4			MNF-044090-2
125μ	53	MNS-044125-4	MNP-044125-2	MNH-044125-2	
147μ	63	MNS-044147-4	MNP-044147-2	MNH-044147-2	
160μ	68	MNS-044160-4	MNP-044160-2	MNH-044160-2	
173μ	74		MNP-044173-2		
205μ	88		MNP-044205-2		

Toroidal Core – 0.500 inch / 12.7 mm Outer Diameter



Product Name:	MNS-050 125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	12.7 mm	0.500 in
	After Coating (Max)	13.46 mm	0.530 in
Inner Diameter	Bare Core	7.62 mm	0.300 in
	After Coating (Min)	6.99 mm	0.275 in
Height	Bare Core	4.75 mm	0.187 in
	After Coating (Max)	5.51mm	0.217 in

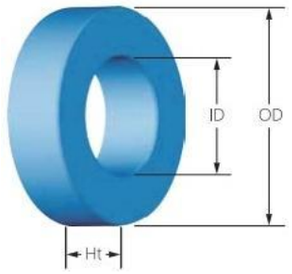
Magnetic Dimensions

c	Description	Value
Ae	Effective Cross-sectional Area	0.114 cm2
Le	Effective Magnetic Path Length	3.12 cm
Ve	Effective Core Volume	0.356 cm2
WA	Minimum Effective Window Area	0.384 cm2
SA	Surface Area	6.67 cm2
MLT	Mean Length per Turn	2.10 cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	6.4	MNS-050014-4	MNP-050014-2	MNH-050014-2	MNF-050014-2
26μ	12	MNS-050026-4	MNP-050026-2	MNH-050026-2	MNF-050026-2
40μ	18	MNS-050040-4			
60μ	27	MNS-050060-4	MNP-050060-2	MNH-050060-2	MNF-050060-2
75μ	34	MNS-050075-4			MNF-050075-2
90μ	40	MNS-050090-4			MNF-050090-2
125μ	56	MNS-050125-4	MNP-050125-2	MNH-050125-2	
147μ	67	MNS-050147-4	MNP-050147-2	MNH-050147-2	
160μ	72	MNS-050160-4	MNP-050160-2	MNH-050160-2	
173μ	79		MNP-050173-2		
205μ	93		MNP-050205-2		

Toroidal Core – 0.655 inch / 16.64 mm Outer Diameter



Product Name:	MNS-065125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	16.64 mm	0.655 in
	After Coating (Max)	17.4 mm	0.685 in
Inner Diameter	Bare Core	10.16 mm	0.400 in
	After Coating (Min)	9.53 mm	0.375 in
Height	Bare Core	6.35 mm	0.250 in
	After Coating (Max)	7.11 mm	0.280 in

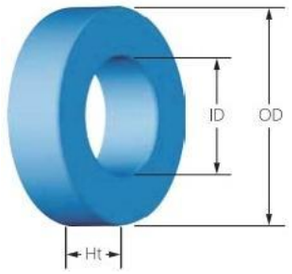
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.192cm²
Le	Effective Magnetic Path Length	4.11cm
Ve	Effective Magnetic Path Length	0.789cm³
WA	Effective Magnetic Path Length	0.713cm²
SA	Surface Area	11.2cm²
MLT	Mean Length per Turn	2.69cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	8	MNS-065014-4	MNP-065014-2	MNH-065014-2	MNF-065014-2
26μ	15	MNS-065026-4	MNP-065026-2	MNH-065026-2	MNF-065026-2
40μ	23	MNS-065040-4			
60μ	35	MNS-065060-4	MNP-065060-2	MNH-065060-2	MNF-065060-2
75μ	43	MNS-065075-4			MNF-065075-2
90μ	52	MNS-065090-4			MNF-065090-2
125μ	72	MNS-065125-4	MNP-065125-2	MNH-065125-2	
147μ	88	MNS-065147-4	MNP-065147-2	MNH-065147-2	
160μ	92	MNS-065160-4	MNP-065160-2	MNH-065160-2	
173μ	104		MNP-065173-2		
205μ	123		MNP-065205-2		

Toroidal Core – 0.680 inch / 17.27 mm Outer Diameter



Product Name:	MNS-068125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	17.27 mm	0.680 in
	After Coating (Max)	18.03 mm	0.710 in
Inner Diameter	Bare Core	9.65 mm	0.380 in
	After Coating (Min)	9.02 mm	0.355 in
Height	Bare Core	6.35 mm	0.250 in
	After Coating (Max)	7.11 mm	7.11 mm

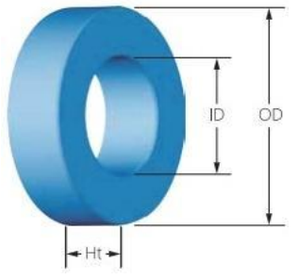
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.232cm²
Le	Effective Magnetic Path Length	4.14 cm
Ve	Effective Magnetic Path Length	0.961cm³
WA	Effective Magnetic Path Length	0.639cm²
SA	Surface Area	11.7cm²
MLT	Mean Length per Turn	2.77cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	10	MNS-068014-4	MNP-068014-2	MNH-068014-2	MNF-068014-2
26μ	19	MNS-068026-4	MNP-068026-2	MNH-068026-2	MNF-068026-2
40μ	29	MNS-068040-4			
60μ	43	MNS-068060-4	MNP-068060-2	MNH-068060-2	MNF-068060-2
75μ	53	MNS-068075-4			MNF-068075-2
90μ	64	MNS-068090-4			MNF-068090-2
125μ	89	MNS-068125-4	MNP-068125-2	MNH-068125-2	
147μ	105	MNS-068147-4	MNP-068147-2	MNH-068147-2	
160μ	114	MNS-068160-4	MNP-068160-2	MNH-068160-2	
173μ	123		MNP-068173-2		
205μ	146		MNP-068205-2		

Toroidal Core – 0.800 inch / 20.32mm Outer Diameter



Product Name:	MNS-080125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	20.32 mm	0.800 in
	After Coating (Max)	21.08 mm	21.08 mm
Inner Diameter	Bare Core	12.7 mm	0.500 in
	After Coating (Min)	12.07 mm	0.475 in
Height	Bare Core	6.35 mm	0.250 in
	After Coating (Max)	7.11 mm	0.280 in

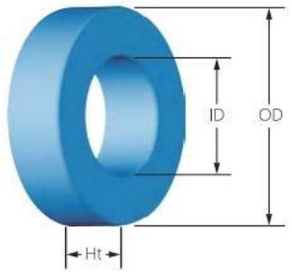
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.226cm²
Le	Effective Magnetic Path Length	5.09cm
Ve	Effective Magnetic Path Length	1.15cm³
WA	Effective Magnetic Path Length	1.14cm²
SA	Surface Area	15.5cm²
MLT	Mean Length per Turn	2.93cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	7.8	MNS-080014-4	MNP-080014-2	MNH-080014-2	MNF-080014-2
26μ	14	MNS-080026-4	MNP-080026-2	MNH-080026-2	MNF-080026-2
40μ	21	MNS-080040-4			
60μ	32	MNS-080060-4	MNP-080060-2	MNH-080060-2	MNF-080060-2
75μ	41	MNS-080075-4			MNF-080075-2
90μ	49	MNS-080090-4			MNF-080090-2
125μ	68	MNS-080125-4	MNP-080125-2	MNH-080125-2	
147μ	81	MNS-080147-4	MNP-080147-2	MNH-080147-2	
160μ	87	MNS-080160-4	MNP-080160-2	MNH-080160-2	
173μ	96		MNP-080173-2		
205μ	113		MNP-080205-2		

Toroidal Core – 0.900 inch /22.86 mm Outer Diameter



Product Name:	MNS-090125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	22.86 mm	0.900in
	After Coating (Max)	23.62 mm	0.930 in
Inner Diameter	Bare Core	13.97mm	0.550 in
	After Coating (Min)	13.39mm	0.527 in
Height	Bare Core	7.62 mm	0.300 in
	After Coating (Max)	8.38mm	0.330 in

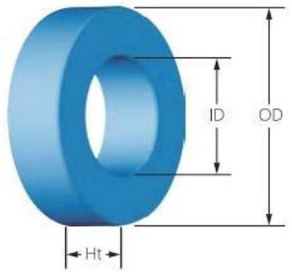
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.331cm²
Le	Effective Magnetic Path Length	5.67cm
Ve	Effective Magnetic Path Length	1.88cm³
WA	Effective Magnetic Path Length	1.41cm²
SA	Surface Area	19.8 cm²
MLT	Mean Length per Turn	3.37cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	9.9	MNS-090014-4	MNP-090014-2	MNH-090014-2	MNF-090014-2
26μ	19	MNS-090026-4	MNP-090026-2	MNH-090026-2	MNF-090026-2
40μ	29	MNS-090040-4			
60μ	43	MNS-090060-4	MNP-090060-2	MNH-090060-2	MNF-090060-2
75μ	54	MNS-090075-4			MNF-090075-2
90μ	65	MNS-090090-4			MNF-090090-2
125μ	90	MNS-090125-4	MNP-090125-2	MNH-090125-2	
147μ	106	MNS-090147-4	MNP-090147-2	MNH-090147-2	
160μ	115	MNS-090160-4	MNP-090160-2	MNH-090160-2	
173μ	124		MNP-090173-2		
205μ	147		MNP-090205-2		

Toroidal Core – 0.928 inch / 23.57 mm Outer Diameter



Product Name:	MNS-092125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	23.57 mm	0.928 in
	After Coating (Max)	24.28 mm	0.956 in
Inner Diameter	Bare Core	14.4 mm	0.567 in
	After Coating (Min)	13.77 mm	0.542 in
Height	Bare Core	8.89 mm	0.350 in
	After Coating (Max)	9.7 mm	0.382 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.388cm²
Le	Effective Magnetic Path Length	5.88cm
Ve	Effective Magnetic Path Length	2.28cm³
WA	Effective Magnetic Path Length	1.49cm²
SA	Surface Area	21.8cm²
MLT	Mean Length per Turn	3.68cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	12	MNS-092014-4	MNP-092014-2	MNH-092014-2	MNF-092014-2
26μ	22	MNS-092026-4	MNP-092026-2	MNH-092026-2	MNF-092026-2
40μ	34	MNS-092040-4			
60μ	51	MNS-092060-4	MNP-092060-2	MNH-092060-2	MNF-092060-2
75μ	63	MNS-092075-4			MNF-092075-2
90μ	76	MNS-092090-4			MNF-092090-2
125μ	105	MNS-092125-4	MNP-092125-2	MNH-092125-2	
147μ	124	MNS-092147-4	MNP-092147-2	MNH-092147-2	
160μ	135	MNS-092160-4	MNP-092160-2	MNH-092160-2	
173μ	146		MNP-092173-2		
205μ	173		MNP-092205-2		

Toroidal Core – 1.060 inch / 26.92 mm Outer Diameter

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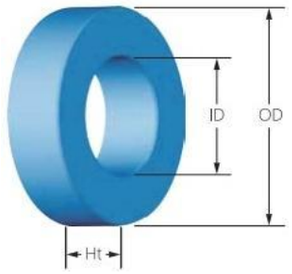


Product Name:	MNS-106125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	26.92 mm	1.060 in
	After Coating (Max)	27.69 mm	1.090 in
Inner Diameter	Bare Core	14.73 mm	0.580 in
	After Coating (Min)	14.1 mm	0.555 in
Height	Bare Core	11.18 mm	0.440 in
	After Coating (Max)	11.99 mm	0.472 in

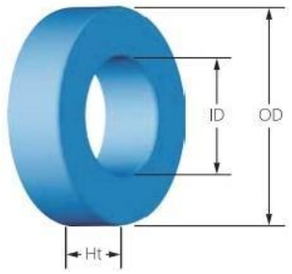
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.654cm²
Le	Effective Magnetic Path Length	6.35cm
Ve	Effective Magnetic Path Length	4.15cm³
WA	Effective Magnetic Path Length	1.56cm²
SA	Surface Area	28.8cm²
MLT	Mean Length per Turn	4.46cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	18	MNS-106014-4	MNP-106014-2	MNH-106014-2	MNF-106014-2
26μ	32	MNS-106026-4	MNP-106026-2	MNH-106026-2	MNF-106026-2
40μ	50	MNS-106040-4			
60μ	75	MNS-106060-4	MNP-106060-2	MNH-106060-2	MNF-106060-2
75μ	94	MNS-106075-4			MNF-106075-2
90μ	113	MNS-106090-4			MNF-106090-2
125μ	157	MNS-106125-4	MNP-106125-2	MNH-106125-2	
147μ	185	MNS-106147-4	MNP-106147-2	MNH-106147-2	
160μ	201	MNS-106160-4	MNP-106160-2	MNH-106160-2	
173μ	217		MNP-106173-2		
205μ	257		MNP-106205-2		

Toroidal Core – 1.060 inch / 26.92 mm Outer Diameter



Product Name:	MNS-107125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	26.92 mm	1.060 in
	After Coating (Max)	27.69 mm	1.090 in
Inner Diameter	Bare Core	14.73 mm	0.250 in
	After Coating (Min)	14.10 mm	0.555 in
Height	Bare Core	8.64 mm	0.340 in
	After Coating (Max)	9.45 mm	0.372 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.497cm²
Le	Effective Magnetic Path Length	6.35cm
Ve	Effective Magnetic Path Length	3.16 cm³
WA	Effective Magnetic Path Length	1.56cm²
SA	Surface Area	26.3cm²
MLT	Mean Length per Turn	3.95cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	13.8	MNS-107014-4	MNP-107014-2	MNH-107014-2	MNF-107014-2
26μ	25.5	MNS-107026-4	MNP-107026-2	MNH-107026-2	MNF-107026-2
40μ	39	MNS-107040-4			
60μ	59	MNS-107060-4	MNP-107060-2	MNH-107060-2	MNF-107060-2
75μ	73.7	MNS-107075-4			MNF-107075-2
90μ	88.4	MNS-107090-4			MNF-107090-2
125μ	123	MNS-107125-4	MNP-107125-2	MNH-107125-2	
147μ	145	MNS-107147-4	MNP-107147-2	MNH-107147-2	
160μ	157	MNS-107160-4	MNP-107160-2	MNH-107160-2	
173μ	170		MNP-107173-2		
205μ	197		MNP-107205-2		

Toroidal Core – 1.060 inch / 26.92 mm Outer Diameter

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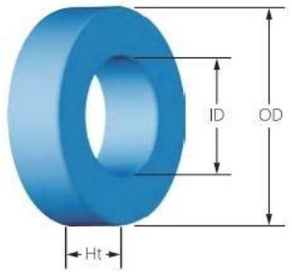


Product Name:	MNS-108125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	26.92 mm	1.060 in
	After Coating (Max)	27.81 mm	1.095 in
Inner Diameter	Bare Core	14.73 mm	0.580 in
	After Coating (Min)	14.10 mm	0.555 in
Height	Bare Core	14.00 mm	0.551 in
	After Coating (Max)	15.00 mm	0.591 in

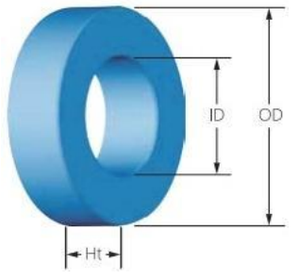
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.819cm²
Le	Effective Magnetic Path Length	6.35cm
Ve	Effective Magnetic Path Length	5.20 cm³
WA	Effective Magnetic Path Length	1.56cm²
SA	Surface Area	31.9cm²
MLT	Mean Length per Turn	5.08cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	22	MNS-108014-4	MNP-108014-2	MNH-108014-2	MNF-108014-2
26μ	40.7	MNS-108026-4	MNP-108026-2	MNH-108026-2	MNF-108026-2
40μ	62.7	MNS-108040-4			
60μ	94	MNS-108060-4	MNP-108060-2	MNH-108060-2	MNF-108060-2
75μ	117.5	MNS-108075-4			MNF-108075-2
90μ	141	MNS-108090-4			MNF-108090-2
125μ	195.8	MNS-108125-4	MNP-108125-2	MNH-108125-2	
147μ	230.3	MNS-108147-4	MNP-108147-2	MNH-108147-2	
160μ	250.6	MNS-108160-4	MNP-108160-2	MNH-108160-2	
173μ	271		MNP-108173-2		
205μ	321		MNP-108205-2		

Toroidal Core – 1.060 inch / 26.92 mm Outer Diameter



Product Name:	MNS-109125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	26.92 mm	1.060 in
	After Coating (Max)	27.81 mm	1.095 in
Inner Diameter	Bare Core	14.73 mm	0.580 in
	After Coating (Min)	14.10 mm	0.555 in
Height	Bare Core	18.00 mm	0.709 in
	After Coating (Max)	19.00 mm	0.748 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.01cm²
Le	Effective Magnetic Path Length	6.35cm
Ve	Effective Magnetic Path Length	6.43cm³
WA	Effective Magnetic Path Length	1.56cm²
SA	Surface Area	35.8cm²
MLT	Mean Length per Turn	5.88cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	28	MNS-109014-4	MNP-109014-2	MNH-109014-2	MNF-109014-2
26μ	52	MNS-109026-4	MNP-109026-2	MNH-109026-2	MNF-109026-2
40μ	80	MNS-109040-4			
60μ	120	MNS-109060-4	MNP-109060-2	MNH-109060-2	MNF-109060-2
75μ	150	MNS-109075-4			MNF-109075-2
90μ	180	MNS-109090-4			MNF-109090-2
125μ	250	MNS-109125-4	MNP-109125-2	MNH-109125-2	
147μ	294	MNS-109147-4	MNP-109147-2	MNH-109147-2	
160μ	320	MNS-109160-4	MNP-109160-2	MNH-109160-2	
173μ	346		MNP-109173-2		
205μ	410		MNP-109205-2		

Toroidal Core – 1.300 inch / 33.02 mm Outer Diameter

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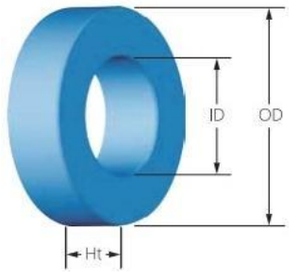


Product Name:	MNS-130125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	33.02 mm	1.300 in
	After Coating (Max)	33.83 mm	1.332 in
Inner Diameter	Bare Core	19.94 mm	0.785 in
	After Coating (Min)	19.30 mm	0.760 in
Height	Bare Core	10.67 mm	0.420 in
	After Coating (Max)	11.61 mm	0.457 in

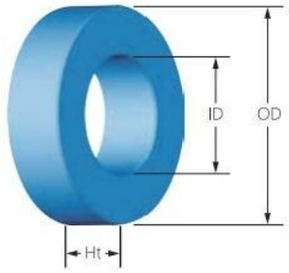
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.672cm²
Le	Effective Magnetic Path Length	8.15cm
Ve	Effective Magnetic Path Length	5.48cm³
WA	Effective Magnetic Path Length	2.93cm²
SA	Surface Area	40.1cm²
MLT	Mean Length per Turn	4.74cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	14	MNS-130014-4	MNP-130014-2	MNH-130014-2	MNF-130014-2
26μ	28	MNS-130026-4	MNP-130026-2	MNH-130026-2	MNF-130026-2
40μ	41	MNS-130040-4			
60μ	61	MNS-130060-4	MNP-130060-2	MNH-130060-2	MNF-130060-2
75μ	76	MNS-130075-4			MNF-130075-2
90μ	91	MNS-130090-4			MNF-130090-2
125μ	127	MNS-130125-4	MNP-130125-2	MNH-130125-2	
147μ	150	MNS-130147-4	MNP-130147-2	MNH-130147-2	
160μ	163	MNS-130160-4	MNP-130160-2	MNH-130160-2	
173μ	176		MNP-130173-2		
205μ	208		MNP-130205-2		

Toroidal Core – 1.300 inch / 33.02 mm Outer Diameter



Product Name:	MNS-131125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	33.02 mm	1.300 in
	After Coating (Max)	33.82 mm	1.332 in
Inner Diameter	Bare Core	19.94 mm	0.785 in
	After Coating (Min)	19.30 mm	0.760 in
Height	Bare Core	8.76 mm	0.345 in
	After Coating (Max)	9.70 mm	0.382 in

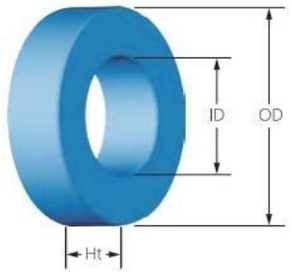
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.551cm²
Le	Effective Magnetic Path Length	8.15cm
Ve	Effective Magnetic Path Length	4.49cm³
WA	Effective Magnetic Path Length	2.93cm²
SA	Surface Area	37.8cm²
MLT	Mean Length per Turn	4.36cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	11.9	MNS-131014-4	MNP-131014-2	MNH-131014-2	MNF-131014-2
26μ	22.1	MNS-131026-4	MNP-131026-2	MNH-131026-2	MNF-131026-2
40μ	34	MNS-131040-4			
60μ	51	MNS-131060-4	MNP-131060-2	MNH-131060-2	MNF-131060-2
75μ	63.8	MNS-131075-4			MNF-131075-2
90μ	76.5	MNS-131090-4			MNF-131090-2
125μ	109	MNS-131125-4	MNP-131125-2	MNH-131125-2	
147μ	129	MNS-131147-4	MNP-131147-2	MNH-131147-2	
160μ	136	MNS-131160-4	MNP-131160-2	MNH-131160-2	
173μ	151		MNP-131173-2		
205μ	180		MNP-131205-2		

Toroidal Core – 1.300 inch / 33.02 mm Outer Diameter



Product Name:	MNS-132125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	33.02 mm	1.300 in
	After Coating (Max)	33.83 mm	1.332 in
Inner Diameter	Bare Core	19.94 mm	0.785 in
	After Coating (Min)	19.30 mm	0.760 in
Height	Bare Core	11.18 mm	0.440 in
	After Coating (Max)	11.99 mm	0.472 in

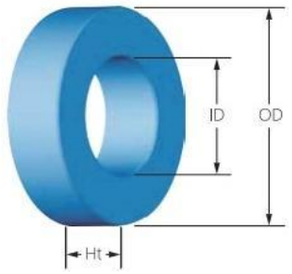
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.698cm²
Le	Effective Magnetic Path Length	8.15cm
Ve	Effective Magnetic Path Length	5.69cm³
WA	Effective Magnetic Path Length	2.93cm²
SA	Surface Area	40.6cm²
MLT	Mean Length per Turn	4.82cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	15	MNS-132014-4	MNP-132014-2	MNH-132014-2	MNF-132014-2
26μ	28	MNS-132026-4	MNP-132026-2	MNH-132026-2	MNF-132026-2
40μ	43	MNS-132040-4			
60μ	65	MNS-132060-4	MNP-132060-2	MNH-132060-2	MNF-132060-2
75μ	80.8	MNS-132075-4			MNF-132075-2
90μ	96.9	MNS-132090-4			MNF-132090-2
125μ	135	MNS-132125-4	MNP-132125-2	MNH-132125-2	
147μ	158	MNS-132147-4	MNP-132147-2	MNH-132147-2	
160μ	172	MNS-132160-4	MNP-132160-2	MNH-132160-2	
173μ	186		MNP-132173-2		
205μ	215		MNP-132205-2		

Toroidal Core – 1.300 inch / 33.02mm Outer Diameter



Product Name:	MNS-133125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	33.02 mm	1.300 in
	After Coating (Max)	33.83 mm	1.332 in
Inner Diameter	Bare Core	19.94 mm	0.785 in
	After Coating (Min)	19.30 mm	0.760 in
Height	Bare Core	14.00 mm	0.551 in
	After Coating (Max)	15.00 mm	0.591 in

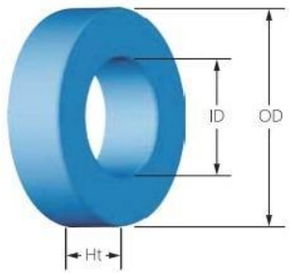
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.874cm²
Le	Effective Magnetic Path Length	8.15cm
Ve	Effective Magnetic Path Length	7.12cm³
WA	Effective Magnetic Path Length	2.93cm²
SA	Surface Area	44.3cm²
MLT	Mean Length per Turn	5.42cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	18.7	MNS-133014-4	MNP-133014-2	MNH-133014-2	MNF-133014-2
26μ	34.7	MNS-133026-4	MNP-133026-2	MNH-133026-2	MNF-133026-2
40μ	53.3	MNS-133040-4			
60μ	80	MNS-133060-4	MNP-133060-2	MNH-133060-2	MNF-133060-2
75μ	100	MNS-133075-4			MNF-133075-2
90μ	120	MNS-133090-4			MNF-133090-2
125μ	166.7	MNS-133125-4	MNP-133125-2	MNH-133125-2	
147μ	196	MNS-133147-4	MNP-133147-2	MNH-133147-2	
160μ	213	MNS-133160-4	MNP-133160-2	MNH-133160-2	
173μ	230.7		MNP-133173-2		
205μ	266.7		MNP-133205-2		

Toroidal Core – 1.300 inch / 33.02 mm Outer Diameter



Product Name:	MNS-134125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	33.02 mm	1.300 in
	After Coating (Max)	33.83 mm	1.332 in
Inner Diameter	Bare Core	19.94 mm	0.785 in
	After Coating (Min)	19.3 mm	0.760 in
Height	Bare Core	18.00 mm	0.709 in
	After Coating (Max)	19.00mm	0.748 in

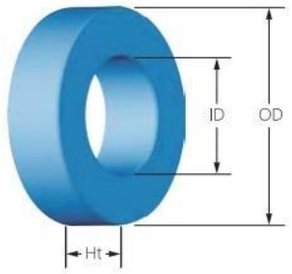
Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.10cm²
Le	Effective Magnetic Path Length	8.15cm
Ve	Effective Magnetic Path Length	8.98cm³
WA	Effective Magnetic Path Length	2.93cm²
SA	Surface Area	49.1cm²
MLT	Mean Length per Turn	6.22cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	23.8	MNS-134014-4	MNP-134014-2	MNH-134014-2	MNF-134014-2
26μ	44	MNS-134026-4	MNP-134026-2	MNH-134026-2	MNF-134026-2
40μ	68	MNS-134040-4			
60μ	102	MNS-134060-4	MNP-134060-2	MNH-134060-2	MNF-134060-2
75μ	127.5	MNS-134075-4			MNF-134075-2
90μ	153	MNS-134090-4			MNF-134090-2
125μ	214	MNS-134125-4	MNP-134125-2	MNH-134125-2	
147μ	250	MNS-134147-4	MNP-134147-2	MNH-134147-2	
160μ	272	MNS-134160-4	MNP-134160-2	MNH-134160-2	
173μ	294		MNP-134173-2		
205μ	340		MNP-134205-2		

Toroidal Core – 1.300 inch / 34.29 mm Outer Diameter



Product Name:	MNS-135125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	34.29 mm	1.350 in
	After Coating (Max)	35.10 mm	1.382 in
Inner Diameter	Bare Core	23.37 mm	0.920 in
	After Coating (Min)	22.56 mm	0.888 in
Height	Bare Core	8.89 mm	0.350 in
	After Coating (Max)	9.83 mm	0.387 in

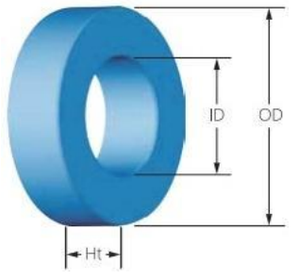
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.454cm²
Le	Effective Magnetic Path Length	8.95cm
Ve	Effective Magnetic Path Length	4.06cm³
WA	Effective Magnetic Path Length	4.00cm²
SA	Surface Area	41.4cm²
MLT	Mean Length per Turn	4.35cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	9	MNS-135014-4	MNP-135014-2	MNH-135014-2	MNF-135014-2
26μ	16	MNS-135026-4	MNP-135026-2	MNH-135026-2	MNF-135026-2
40μ	25	MNS-135040-4			
60μ	38	MNS-135060-4	MNP-135060-2	MNH-135060-2	MNF-135060-2
75μ	47	MNS-135075-4			MNF-135075-2
90μ	56	MNS-135090-4			MNF-135090-2
125μ	79	MNS-135125-4	MNP-135125-2	MNH-135125-2	
147μ	93	MNS-135147-4	MNP-135147-2	MNH-135147-2	
160μ	101	MNS-135160-4	MNP-135160-2	MNH-135160-2	
173μ	109		MNP-135173-2		
205μ	130		MNP-135205-2		

Toroidal Core – 1.4100 inch / 35.81mm Outer Diameter



Product Name:	MNS-141125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	35.81 mm	1.410 in
	After Coating (Max)	36.63 mm	1.442 in
Inner Diameter	Bare Core	22.35 mm	0.880 in
	After Coating (Min)	21.54 mm	0.848 in
Height	Bare Core	10.46 mm	0.412 in
	After Coating (Max)	11.28 mm	0.444 in

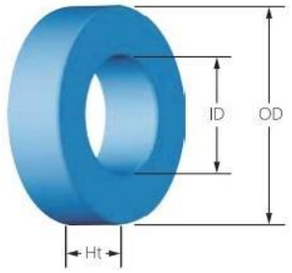
Magnetic Dimensions

Ae	Effective Cross-sectional Area	0.678cm²
Le	Effective Magnetic Path Length	8.98cm
Ve	Effective Magnetic Path Length	6.09cm³
WA	Effective Magnetic Path Length	3.64cm²
SA	Surface Area	45.6cm²
MLT	Mean Length per Turn	4.84cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	13	MNS-141014-4	MNP-141014-2	MNH-141014-2	MNF-141014-2
26μ	24	MNS-141026-4	MNP-141026-2	MNH-141026-2	MNF-141026-2
40μ	37	MNS-141040-4			
60μ	56	MNS-141060-4	MNP-141060-2	MNH-141060-2	MNF-141060-2
75μ	70	MNS-141075-4			MNF-141075-2
90μ	84.3	MNS-141090-4			MNF-141090-2
125μ	117	MNS-141125-4	MNP-141125-2	MNH-141125-2	
147μ	138	MNS-141147-4	MNP-141147-2	MNH-141147-2	
160μ	150	MNS-141160-4	MNP-141160-2	MNH-141160-2	
173μ	162		MNP-141173-2		
205μ	192		MNP-141205-2		

Toroidal Core – 1.570 inch / 39.88 mm Outer Diameter



Product Name:	MNS-157125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	39.88 mm	1.570 in
	After Coating (Max)	40.69 mm	1.602 in
Inner Diameter	Bare Core	24.13 mm	0.950 in
	After Coating (Min)	23.32 mm	0.918 in
Height	Bare Core	14.48 mm	0.570 in
	After Coating (Max)	15.37 mm	0.605 in

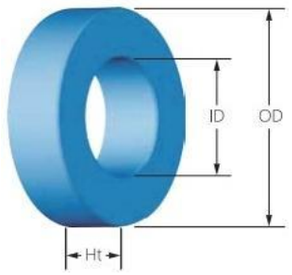
Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.07cm²
Le	Effective Magnetic Path Length	9.85cm
Ve	Effective Magnetic Path Length	10.5cm³
WA	Effective Magnetic Path Length	4.27cm²
SA	Surface Area	60.2cm²
MLT	Mean Length per Turn	5.98cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	19	MNS-157014-4	MNP-157014-2	MNH-157014-2	MNF-157014-2
26μ	35	MNS-157026-4	MNP-157026-2	MNH-157026-2	MNF-157026-2
40μ	54	MNS-157040-4			
60μ	81	MNS-157060-4	MNP-157060-2	MNH-157060-2	MNF-157060-2
75μ	101	MNS-157075-4			MNF-157075-2
90μ	121	MNS-157090-4			MNF-157090-2
125μ	168	MNS-157125-4	MNP-157125-2	MNH-157125-2	
147μ	198	MNS-157147-4	MNP-157147-2	MNH-157147-2	
160μ	215	MNS-157160-4	MNP-157160-2	MNH-157160-2	
173μ	233		MNP-157173-2		
205μ	276		MNP-157205-2		

Toroidal Core – 1.580 inch / 40.13 mm Outer Diameter



Product Name:	MNS-158125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	40.13 mm	1.580 in
	After Coating (Max)	40.94 mm	1.610in
Inner Diameter	Bare Core	22.08mm	0.869 in
	After Coating (Min)	21.27mm	0.837 in
Height	Bare Core	17.00 mm	0.669in
	After Coating (Max)	17.89mm	0.704in

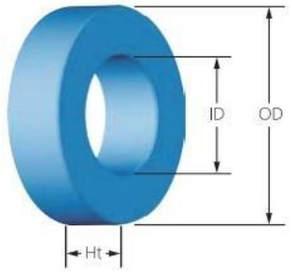
Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.537cm²
Le	Effective Magnetic Path Length	9.510cm
Ve	Effective Magnetic Path Length	15.043cm³
WA	Effective Magnetic Path Length	3.551cm²
SA	Surface Area	62.800 cm²
MLT	Mean Length per Turn	6.580cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	28	MNS-158014-4	MNP-158014-2	MNH-158014-2	MNF-158014-2
26μ	53	MNS-158026-4	MNP-158026-2	MNH-158026-2	MNF-158026-2
40μ	81	MNS-158040-4	MNP-158040-2	MNH-158040-2	MNF-158040-2
60μ	122	MNS-158060-4	MNP-158060-2	MNH-158060-2	MNF-158060-2
75μ	153	MNS-158075-4	MNP-158075-2	MNH-158075-2	MNF-158075-2
90μ	183	MNS-158090-4	MNP-158090-2	MNH-158090-2	MNF-158090-2
125μ	254	MNS-158125-4	MNP-158125-2	MNH-158125-2	
147μ	299	MNS-158147-4	MNP-158147-2	MNH-158147-2	
160μ	325	MNS-158160-4	MNP-158160-2	MNH-158160-2	
173μ	352		MNP-158173-2		
205μ	417		MNP-158205-2		

Toroidal Core – 1.840 inch / 46.74 mm Outer Diameter



Product Name:	MNS-184125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	46.74 mm	1.840 in
	After Coating (Max)	47.63 mm	1.875 in
Inner Diameter	Bare Core	24.13 mm	0.950 in
	After Coating (Min)	23.32mm	0.918 in
Height	Bare Core	18.03 mm	0.710 in
	After Coating (Max)	18.92 mm	0.745 in

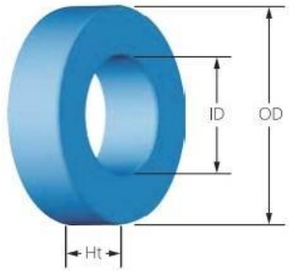
Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.99cm²
Le	Effective Magnetic Path Length	10.743cm
Ve	Effective Magnetic Path Length	21.4cm³
WA	Effective Magnetic Path Length	4.27cm²
SA	Surface Area	81.7cm²
MLT	Mean Length per Turn	7.38cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	32	MNS-184014-4	MNP-184014-2	MNH-184014-2	MNF-184014-2
26μ	59	MNS-184026-4	MNP-184026-2	MNH-184026-2	MNF-184026-2
40μ	90	MNS-184040-4			
60μ	135	MNS-184060-4	MNP-184060-2	MNH-184060-2	MNF-184060-2
75μ	169	MNS-184075-4			MNF-184075-2
90μ	202	MNS-184090-4			MNF-184090-2
125μ	281	MNS-184125-4	MNP-184125-2	MNH-184125-2	
147μ	330	MNS-184147-4	MNP-184147-2	MNH-184147-2	
160μ	360	MNS-184160-4	MNP-184160-2	MNH-184160-2	
173μ	390		MNP-184173-2		
205μ	462		MNP-184205-2		

Toroidal Core – 1.840 inch / 46.74 mm Outer Diameter



Product Name:	MNS-185125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	46.74 mm	1.840 in
	After Coating (Max)	47.63 mm	1.875 in
Inner Diameter	Bare Core	28.70 mm	1.130 in
	After Coating (Min)	27.89 mm	1.098 in
Height	Bare Core	15.24 mm	0.600 in
	After Coating (Max)	16.13 mm	0.635 in

Magnetic Dimensions

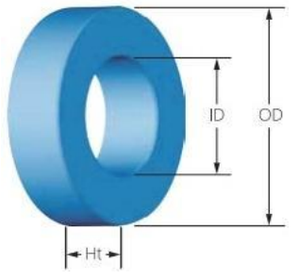
Ae	Effective Cross-sectional Area	1.34 cm^2
Le	Effective Magnetic Path Length	11.62cm
Ve	Effective Magnetic Path Length	15.6cm^3
WA	Effective Magnetic Path Length	6.11cm^2
SA	Surface Area	79.6cm^2
MLT	Mean Length per Turn	6.59cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	20	MNS-185014-4	MNP-185014-2	MNH-185014-2	MNF-185014-2
26μ	37	MNS-185026-4	MNP-185026-2	MNH-185026-2	MNF-185026-2
40μ	57	MNS-185040-4			
60μ	86	MNS-185060-4	MNP-185060-2	MNH-185060-2	MNF-185060-2
75μ	107	MNS-185075-4			MNF-185075-2
90μ	128	MNS-185090-4			MNF-185090-2
125μ	178	MNS-185125-4	MNP-185125-2	MNH-185125-2	
147μ	210	MNS-185147-4	MNP-185147-2	MNH-185147-2	
160μ	228	MNS-185160-4	MNP-185160-2	MNH-185160-2	
173μ	246		MNP-185173-2		
205μ	292		MNP-185205-2		

Toroidal Core – 2.000 inch / 50.80mm Outer Diameter

Manitech



Product Name:	MNS-200125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	50.8 mm	2.000in
	After Coating (Max)	51.69 mm	2.035 in
Inner Diameter	Bare Core	31.75 mm	1.250 in
	After Coating (Min)	30.94 mm	1.218 in
Height	Bare Core	13.46 mm	0.530 in
	After Coating (Max)	14.35 mm	0.565 in

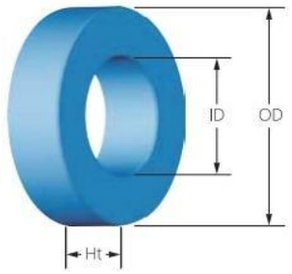
Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.25cm²
Le	Effective Magnetic Path Length	12.73cm
Ve	Effective Magnetic Path Length	15.9cm³
WA	Effective Magnetic Path Length	7.52cm²
SA	Surface Area	88.2cm²
MLT	Mean Length per Turn	6.49cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	17	MNS-200014-4	MNP-200014-2	MNH-200014-2	MNF-200014-2
26μ	32	MNS-200026-4	MNP-200026-2	MNH-200026-2	MNF-200026-2
40μ	49	MNS-200040-4			
60μ	73	MNS-200060-4	MNP-200060-2	MNH-200060-2	MNF-200060-2
75μ	91	MNS-200075-4			MNF-200075-2
90μ	109	MNS-200090-4			MNF-200090-2
125μ	152	MNS-200125-4	MNP-200125-2	MNH-200125-2	
147μ	179	MNS-200147-4	MNP-200147-2	MNH-200147-2	
160μ	195	MNS-200160-4	MNP-200160-2	MNH-200160-2	
173μ	210		MNP-200173-2		
205μ	249		MNP-200205-2		

Toroidal Core – 2.250 inch / 57.15 mm Outer Diameter



Product Name:	MNS-225125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	57.15 mm	2.250 in
	After Coating (Max)	58.04 mm	2.285 in
Inner Diameter	Bare Core	35.56 mm	1.400in
	After Coating (Min)	34.75 mm	1.368 in
Height	Bare Core	13.97 mm	0.550 in
	After Coating (Max)	14.86 mm	0.585 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.44cm²
Le	Effective Magnetic Path Length	14.296cm
Ve	Effective Magnetic Path Length	20.70cm³
WA	Effective Magnetic Path Length	9.48cm²
SA	Surface Area	109cm²
MLT	Mean Length per Turn	7.04cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	18	MNS-225014-4	MNP-225014-2	MNH-225014-2	MNF-225014-2
26μ	33	MNS-225026-4	MNP-225026-2	MNH-225026-2	MNF-225026-2
40μ	50	MNS-225040-4			
60μ	75	MNS-225060-4	MNP-225060-2	MNH-225060-2	MNF-225060-2
75μ	94	MNS-225075-4			MNF-225075-2
90μ	112	MNS-225090-4			MNF-225090-2
125μ	156	MNS-225125-4	MNP-225125-2	MNH-225125-2	
147μ	185	MNS-225147-4	MNP-225147-2	MNH-225147-2	
160μ	200	MNS-225160-4	MNP-225160-2	MNH-225160-2	
173μ	218		MNP-225173-2		
205μ	259		MNP-225205-2		

Toroidal Core – 2.250 inch / 57.15 mm Outer Diameter

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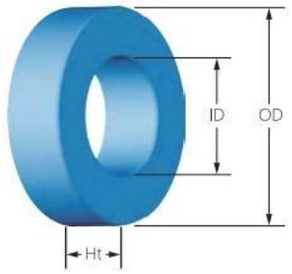


Product Name:：	MNS-226125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	57.15 mm	2.250 in
	After Coating (Max)	58.04 mm	2.285 in
Inner Diameter	Bare Core	26.39 mm	1.039 in
	After Coating (Min)	25.58 mm	1.007 in
Height	Bare Core	15.24 mm	0.600 in
	After Coating (Max)	16.13 mm	0.635 in

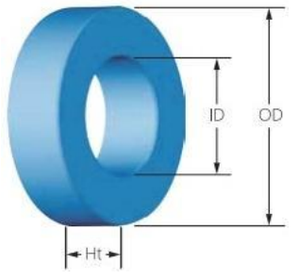
Magnetic Dimensions

Ae	Effective Cross-sectional Area	2.29cm²
Le	Effective Magnetic Path Length	12.50cm
Ve	Effective Magnetic Path Length	28.6cm³
WA	Effective Magnetic Path Length	5.14cm²
SA	Surface Area	105cm²
MLT	Mean Length per Turn	7.75cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	32	MNS-226014-4	MNP-226014-2	MNH-226014-2	MNF-226014-2
26μ	60	MNS-226026-4	MNP-226026-2	MNH-226026-2	MNF-226026-2
40μ	92	MNS-226040-4			
60μ	138	MNS-226060-4	MNP-226060-2	MNH-226060-2	MNF-226060-2
75μ	172	MNS-226075-4			MNF-226075-2
90μ	207	MNS-226090-4			MNF-226090-2
125μ	287	MNS-226125-4	MNP-226125-2	MNH-226125-2	
147μ	338	MNS-226147-4	MNP-226147-2	MNH-226147-2	
160μ	368	MNS-226160-4	MNP-226160-2	MNH-226160-2	
173μ	398		MNP-226173-2		
205μ	460		MNP-226205-2		

Toroidal Core – 2.500 inch / 63.5 mm Outer Diameter



Product Name:：	MNS-250125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	62.00 mm	2.44in
	After Coating (Max)	63.10mm	2.48 in
Inner Diameter	Bare Core	32.60mm	1.28 in
	After Coating (Min)	31.37mm	1.23 in
Height	Bare Core	25.00 mm	0.98 in
	After Coating (Max)	26.27mm	1.03 in

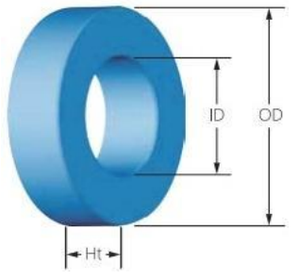
Magnetic Dimensions

Ae	Effective Cross-sectional Area	3.675cm²
Le	Effective Magnetic Path Length	14.37cm
Ve	Effective Magnetic Path Length	53.81cm³
WA	Effective Magnetic Path Length	7.73cm²
SA	Surface Area	148cm²
MLT	Mean Length per Turn	10.1cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	45	MNS-250014-4	MNP-250014-2	MNH-250014-2	MNF-250014-2
26μ	83	MNS-250026-4	MNP-250026-2	MNH-250026-2	MNF-250026-2
40μ	128	MNS-250040-4			
60μ	192	MNS-250060-4	MNP-250060-2	MNH-250060-2	MNF-250060-2
75μ	240	MNS-250075-4			MNF-250075-2
90μ	288	MNS-250090-4			MNF-250090-2
125μ	400	MNS-250125-4	MNP-250125-2	MNH-250125-2	
147μ	470	MNS-250147-4	MNP-250147-2	MNH-250147-2	
160μ	511	MNS-250160-4	MNP-250160-2	MNH-250160-2	
173μ	553		MNP-250173-2		
205μ	655		MNP-250205-2		

Toroidal Core – 2.9170 inch / 74.1 mm Outer Diameter



Product Name::	MNS-292125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	74.10 mm	2.917in
	After Coating (Max)	75.20 mm	2.961 in
Inner Diameter	Bare Core	45.30 mm	1.783 in
	After Coating (Min)	44.10 mm	1.736 in
Height	Bare Core	35.00mm	1.378 in
	After Coating (Max)	36.20 mm	1.425 in

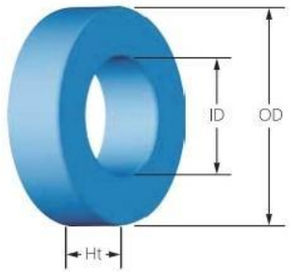
Magnetic Dimensions

Ae	Effective Cross-sectional Area	4.94cm²
Le	Effective Magnetic Path Length	18.4cm
Ve	Effective Magnetic Path Length	90.9cm³
WA	Effective Magnetic Path Length	15.3cm²
SA	Surface Area	228cm²
MLT	Mean Length per Turn	12.6cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	48	MNS-292014-4	MNP-292014-2	MNH-292014-2	MNF-292014-2
26μ	89	MNS-292026-4	MNP-292026-2	MNH-292026-2	MNF-292026-2
40μ	137	MNS-292040-4			
60μ	206	MNS-292060-4	MNP-292060-2	MNH-292060-2	MNF-292060-2
75μ	257	MNS-292075-4			MNF-292075-2
90μ	309	MNS-292090-4			MNF-292090-2
125μ	429	MNS-292125-4	MNP-292125-2	MNH-292125-2	
147μ	505	MNS-292147-4	MNP-292147-2	MNH-292147-2	
160μ	549	MNS-292160-4	MNP-292160-2	MNH-292160-2	
173μ	N/A		MNP-292173-2		
205μ	N/A		MNP-292205-2		

Toroidal Core – 3.063 inch / 77.8 mm Outer Diameter



Product Name:：	MNS-300125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	77.80 mm	3.063in
	After Coating (Max)	78.94 mm	3.108 in
Inner Diameter	Bare Core	49.23 mm	1.938 in
	After Coating (Min)	47.96 mm	1.888 in
Height	Bare Core	12.70 mm	0.500 in
	After Coating (Max)	13.97 mm	0.550 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.77cm²
Le	Effective Magnetic Path Length	19.612cm
Ve	Effective Magnetic Path Length	34.8cm³
WA	Effective Magnetic Path Length	18.1cm²
SA	Surface Area	184cm²
MLT	Mean Length per Turn	8.29cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²))	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	16	MNS-300014-4	MNP-300014-2	MNH-300014-2	MNF-300014-2
26μ	30	MNS-300026-4	MNP-300026-2	MNH-300026-2	MNF-300026-2
40μ	45	MNS-300040-4			
60μ	68	MNS-300060-4	MNP-300060-2	MNH-300060-2	MNF-300060-2
75μ	85	MNS-300075-4			MNF-300075-2
90μ	102	MNS-300090-4			MNF-300090-2
125μ	142	MNS-300125-4	MNP-300125-2	MNH-300125-2	
147μ	167	MNS-300147-4	MNP-300147-2	MNH-300147-2	
160μ	182	MNS-300160-4	MNP-300160-2	MNH-300160-2	
173μ	197		MNP-300173-2		
205μ	233		MNP-300205-2		

Toroidal Core – 3.0630 inch / 77.80 mm Outer Diameter

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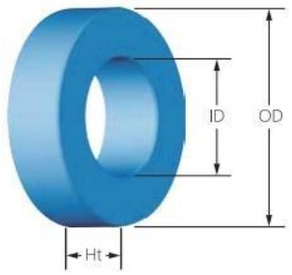


Product Name::	MNS-301125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	77.80 mm	3.063in
	After Coating (Max)	78.94 mm	3.108 in
Inner Diameter	Bare Core	49.23 mm	1.938 in
	After Coating (Min)	47.96 mm	1.888 in
Height	Bare Core	15.88 mm	0.625 in
	After Coating (Max)	17.15 mm	0.675 in

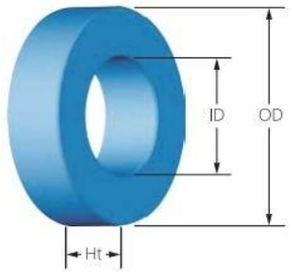
Magnetic Dimensions

Ae	Effective Cross-sectional Area	2.22cm²
Le	Effective Magnetic Path Length	19.162cm
Ve	Effective Magnetic Path Length	43.5cm³
WA	Effective Magnetic Path Length	18.1cm²
SA	Surface Area	193cm²
MLT	Mean Length per Turn	8.93cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	19.9	MNS-301014-4	MNP-301014-2	MNH-301014-2	MNF-301014-2
26μ	37	MNS-301026-4	MNP-301026-2	MNH-301026-2	MNF-301026-2
40μ	57	MNS-301040-4			
60μ	85	MNS-301060-4	MNP-301060-2	MNH-301060-2	MNF-301060-2
75μ	107	MNS-301075-4			MNF-301075-2
90μ	128	MNS-301090-4			MNF-301090-2
125μ	178	MNS-301125-4	MNP-301125-2	MNH-301125-2	
147μ	209	MNS-301147-4	MNP-301147-2	MNH-301147-2	
160μ	228	MNS-301160-4	MNP-301160-2	MNH-301160-2	
173μ	246		MNP-301173-2		
205μ	284		MNP-301205-2		

Toroidal Core – 3.498inch / 88.85 mm Outer Diameter



Product Name::	MNS-350 125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	88.85 mm	3.498in
	After Coating (Max)	90.00 mm	3.543 in
Inner Diameter	Bare Core	66.01 mm	2.599 in
	After Coating (Min)	64.74mm	2.549 in
Height	Bare Core	15.93 mm	0.627in
	After Coating (Max)	17.20 mm	0.677 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.83cm²
Le	Effective Magnetic Path Length	24cm
Ve	Effective Magnetic Path Length	43.9cm³
WA	Effective Magnetic Path Length	32.9cm²
SA	Surface Area	251cm²
MLT	Mean Length per Turn	9.20cm

PermMaxeability Product Names

Effective permeability	Inductance factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	13	MNS-350014-4	MNP-350014-2	MNH-350014-2	MNF-350014-2
26μ	24	MNS-350026-4	MNP-350026-2	MNH-350026-2	MNF-350026-2
40μ	38	MNS-350040-4			
60μ	557	MNS-350060-4	MNP-350060-2	MNH-350060-2	MNF-350060-2
75μ	72	MNS-350075-4			MNF-350075-2
90μ	86	MNS-350090-4			MNF-350090-2
125μ	120	MNS-350125-4	MNP-350125-2	MNH-350125-2	
147μ	141	MNS-350147-4	MNP-350147-2	MNH-350147-2	
160μ	153	MNS-350160-4	MNP-350160-2	MNH-350160-2	
173μ	166		MNP-350173-2		
205μ	196		MNP-350205-2		

Toroidal Core – 4.000 inch / 10.16 mm Outer Diameter

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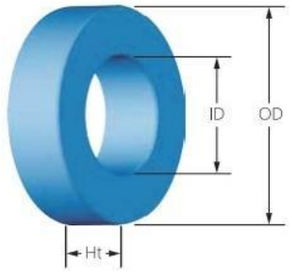


Product Name:：	MNS-400125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	101.6 mm	4.000in
	After Coating (Max)	102.87 mm	4.050 in
Inner Diameter	Bare Core	57.15 mm	2.250 in
	After Coating (Min)	55.75 mm	2.195 in
Height	Bare Core	16.51 mm	0.650 in
	After Coating (Max)	17.78 mm	0.700 in

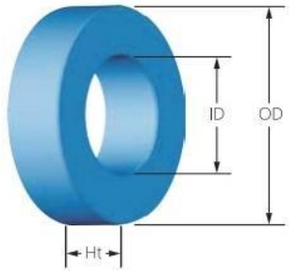
Magnetic Dimensions

Ae	Effective Cross-sectional Area	3.52cm²
Le	Effective Magnetic Path Length	24.271cm
Ve	Effective Magnetic Path Length	85.5cm³
WA	Effective Magnetic Path Length	24.4cm²
SA	Surface Area	303cm²
MLT	Mean Length per Turn	11.1cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	25.6	MNS-400014-4	MNP-400014-2	MNH-400014-2	MNF-400014-2
26μ	47.4	MNS-400026-4	MNP-400026-2	MNH-400026-2	MNF-400026-2
40μ	75	MNS-400040-4			
60μ	112	MNS-400060-4	MNP-400060-2	MNH-400060-2	MNF-400060-2
75μ	137	MNS-400075-4			MNF-400075-2
90μ	164	MNS-400090-4			MNF-400090-2
125μ	228	MNS-400125-4	MNP-400125-2	MNH-400125-2	
147μ	268	MNS-400147-4	MNP-400147-2	MNH-400147-2	
160μ	282	MNS-400160-4	MNP-400160-2	MNH-400160-2	
173μ	316		MNP-400173-2		
205μ	N/A		MNP-400205-2		

Toroidal Core – 4.000 inch / 10.16 mm Outer Diameter



Product Name:：	MNS-401125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	101.6 mm	4.000in
	After Coating (Max)	102.87 mm	4.050 in
Inner Diameter	Bare Core	57.15 mm	2.250 in
	After Coating (Min)	55.75 mm	2.195 in
Height	Bare Core	13.59 mm	0.535in
	After Coating (Max)	14.86 mm	0.585 in

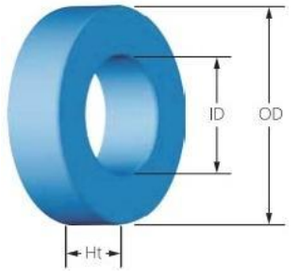
Magnetic Dimensions

Ae	Effective Cross-sectional Area	2.97cm²
Le	Effective Magnetic Path Length	24.271cm
Ve	Effective Magnetic Path Length	72.1cm³
WA	Effective Magnetic Path Length	24.4cm²
SA	Surface Area	293cm²
MLT	Mean Length per Turn	10.5cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	21.5	MNS-401014-4	MNP-401014-2	MNH-401014-2	MNF-401014-2
26μ	40	MNS-401026-4	MNP-401026-2	MNH-401026-2	MNF-401026-2
40μ	62	MNS-401040-4			
60μ	92.3	MNS-401060-4	MNP-401060-2	MNH-401060-2	MNF-401060-2
75μ	115	MNS-401075-4			MNF-401075-2
90μ	139	MNS-401090-4			MNF-401090-2
125μ	192	MNS-401125-4	MNP-401125-2	MNH-401125-2	
147μ	226	MNS-401147-4	MNP-401147-2	MNH-401147-2	
160μ	246	MNS-401160-4	MNP-401160-2	MNH-401160-2	
173μ	266		MNP-401173-2		
205μ	N/A		MNP-401205-2		

Toroidal Core – 5.218 inch /132.54 mm Outer Diameter



Product Name:：	MNS-520125-4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	132.54 mm	5.218 in
	After Coating (Max)	134.21 mm	5.284 in
Inner Diameter	Bare Core	78.59 mm	3.094 in
	After Coating (Min)	77.04 mm	3.033 in
Height	Bare Core	20.32 mm	0.800 in
	After Coating (Max)	21.72 mm	0.855 in

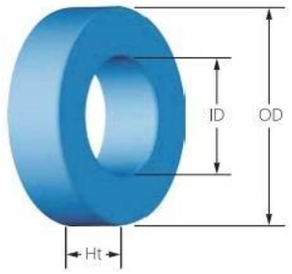
Magnetic Dimensions

Ae	Effective Cross-sectional Area	5.35cm²
Le	Effective Magnetic Path Length	32.429cm
Ve	Effective Magnetic Path Length	173cm³
WA	Effective Magnetic Path Length	46.6cm²
SA	Surface Area	515cm²
MLT	Mean Length per Turn	13.9cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	26	MNS-520014-4	MNP-520014-2	MNH-520014-2	MNF-520014-2
26μ	54	MNS-520026-4	MNP-520026-2	MNH-520026-2	MNF-520026-2
40μ	83	MNS-520040-4			
60μ	124	MNS-520060-4	MNP-520060-2	MNH-520060-2	MNF-520060-2
75μ	155	MNS-520075-4			MNF-520075-2
90μ	187	MNS-520090-4			MNF-520090-2
125μ	259	MNS-520125-4	MNP-520125-2	MNH-520125-2	
147μ	304	MNS-520147-4	MNP-520147-2	MNH-520147-2	
160μ	332	MNS-520160-4	MNP-520160-2	MNH-520160-2	
173μ	358		MNP-520173-2		
205μ	N/A		MNP-520205-2		

Toroidal Core – 5.218 inch / 132.54mm Outer Diameter



Product Name:	MNS - 521 125 - 4

Material Type
Outer Diameter
Effective Permeability
Coating

Physical Dimensions

Outer Diameter	Bare Core	132.54 mm	5.218 in
	After Coating (Max)	134.21 mm	5.284 in
Inner Diameter	Bare Core	78.59 mm	3.094 in
	After Coating (Min)	77.04 mm	3.033 in
Height	Bare Core	25.4 mm	1.000 in
	After Coating (Max)	26.8 mm	26.8 mm

Magnetic Dimensions

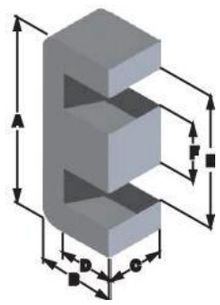
Ae	Effective Cross-sectional Area	6.71cm²
Le	Effective Magnetic Path Length	32.429cm
Ve	Effective Magnetic Path Length	218cm³
WA	Effective Magnetic Path Length	46.6cm²
SA	Surface Area	540cm²
MLT	Mean Length per Turn	14.9cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS MNS-L MNS-C MNS-H MNS-P	MNP	MNH MNH-W MNH-L	MNF MNV
14μ	36.4	MNS-521014-4	MNP-521014-2	MNH-521014-2	MNF-521014-2
26μ	67.6	MNS-521026-4	MNP-521026-2	MNH-521026-2	MNF-521026-2
40μ	104	MNS-521040-4			
60μ	156	MNS-521060-4	MNP-521060-2	MNH-521060-2	MNF-521060-2
75μ	195	MNS-521075-4			MNF-521075-2
90μ	234	MNS-521090-4			MNF-521090-2
125μ	325	MNS-521125-4	MNP-521125-2	MNH-521125-2	
147μ	382	MNS-521147-4	MNP-521147-2	MNH-521147-2	
160μ	416	MNS-521160-4	MNP-521160-2	MNH-521160-2	
173μ	450		MNP-521173-2		
205μ	N/A		MNP-521205-2		

Type E Core – 34.5mm/1.358 in.

Manitech



Product Name:	E MNS-035 14 15-090

Type E Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

Physical Dimensions

A	34.5±0.51 mm	1.358±0.020 in
B	14.1±0.23 mm	0.555±0.009in
C	15±0.18 mm	0.591±0.007 in
D	9.6 mm(min.)	0.378 in(min.)
E	25.3 mm(min.)	0.996 in(min.)
F	9.3±0.20 mm	0.366±0.008 in

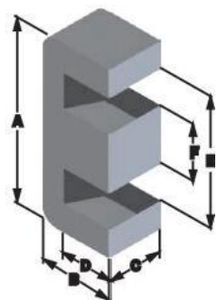
Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.34cm²
Le	Effective Magnetic Path Length	6.94cm
Ve	Effective Magnetic Path Length	9.30cm³
WA	Effective Magnetic Path Length	1.52cm²
SA	Surface Area	45.4cm²
MLT	Mean Length per Turn	8.06cm

Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS	MNF
14μ	59	EMNS-0351415-014	EMNF-0351415-014
26μ	88	EMNS-0351415-026	EMNF-0351415-026
40μ	121	EMNS-0351415-040	EMNF-0351415-040
60μ	169	EMNS-0351415-060	EMNF-0351415-060
75μ	N/A		
90μ	N/A		
Approximate unit weight		27g/half	30g/half

Type E Core – 40.9mm/1.610 in.



Product Name:	EMNS-035 14 15-090

Type E Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

Physical Dimensions

A	40.9±0.61 mm	1.610±0.024 in
B	16.5±0.28 mm	0.650±0.011 in
C	12.5±0.18 mm	0.492±0.007 in
D	10.4 mm(min.)	0.409in(min.)
E	28.3 mm(min.)	1.114 in(min.)
F	12.5±0.20 mm	0.492±0.008 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	1.52cm²
Le	Effective Magnetic Path Length	7.75cm
Ve	Effective Magnetic Path Length	11.8cm³
WA	Effective Magnetic Path Length	1.62cm²
SA	Surface Area	53.2cm²
MLT	Mean Length per Turn	8.16cm

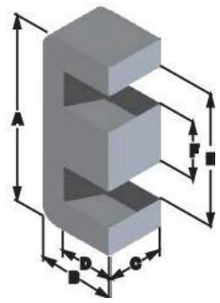
Permeability

Product Names

Effective permeability	Inductance factor (nH/N²)	MNS	MNF
14μ	59	EMNS-0411713-014	EMNF-0411713-014
26μ	88	EMNS-0411713-026	EMNF-0411713-026
40μ	119	EMNS-0411713-040	EMNF-0411713-040
60μ	163	EMNS-0411713-060	EMNF-0411713-060
75μ	209	EMNS-0411713-075	
90μ	234	EMNS-0411713-090	
Approximate unit weight		34g/half	38g/half

Type E Core – 42.8mm/1.685 in.

Manitech



Product Name:	E MNS-043 21 20-090

Type E Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

Physical Dimensions

A	42.8±0.64 mm	1.685±0.025 in
B	21.1±0.33 mm	0.831±0.013 in
C	20±0.25 mm	0.787±0.010 in
D	15 mm(min.)	0.591 in(min.)
E	30.4 mm(min.)	1.197 inYmin.)
F	11.9+0.25 mm	0.469+0.010 in

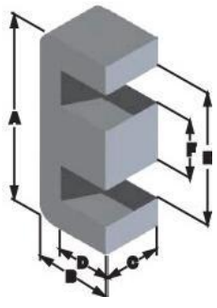
Magnetic Dimensions

Ae	Effective Cross-sectional Area	2.37cm²
Le	Effective Magnetic Path Length	9.84cm
Ve	Effective Magnetic Path Length	23.3cm³
WA	Effective Magnetic Path Length	2.74cm²
SA	Surface Area	81.3cm²
MLT	Mean Length per Turn	10.1cm

Permeability Product Names

Effective permeability	Inductance factor (nH/N²)	MNS	MNF
14μ	73	EMNS-0432120-014	EMNF-0432120-014
26μ	104	EMNS-0432120-026	EMNF-0432120-026
40μ	140	EMNS-0432120-040	EMNF-0432120-040
60μ	194	EMNS-0432120-060	EMNF-0432120-060
75μ	257	EMNS-0432120-075	
90μ	281	EMNS-0432120-090	
Approximate unit weight		67g/half	76g/half

Type E Core –54.9mm/2.161 in.



Product Name:	E MNS-055	24	19-090

EQ Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

Physical Dimensions

A	54.9±0.81 mm	2.161±0.032 in
B	23.65±0.41mm	0.931±0.016 in
C	18.80±0.41mm	0.740±0.016 in
D	14.50mm(min.)	0.571 in(min.)
E	37.50mm(min.)	1.476 in(min.)
F	16.80±0.33mm	0.661±0.013 in

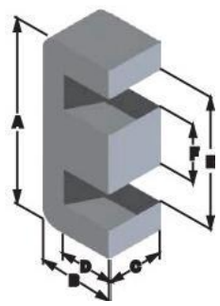
Magnetic Dimensions

Ae	Effective Cross-sectional Area	3.15cm²
Le	Effective Magnetic Path Length	10.7cm
Ve	Effective Magnetic Path Length	33.7cm³
WA	Effective Magnetic Path Length	2.95cm²
SA	Surface Area	140cm²
MLT	Mean Length per Turn	11.3cm

Permeability		Product Names	
Effective permeability	Inductance factor (nH/N²)	MNS	MNF
14μ	N/A		
26μ	117	EMNS-0552419-026	EMNF-0552419-026
40μ	N/A		
60μ	227	EMNS-0552419-060	EMNF-0552419-060
75μ	N/A		
90μ	370	EMNS-0552419-090	
Approximate unit weight		97g/half	110g/half

Type E Core – 54.9mm/2.161 in.

Manitech



Product Name:	E MNS-055 28 25-090

EQ Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

Physical Dimensions

A	54.9±0.81 mm	2.161±0.032 in
B	27.6±0.41 mm	1.087±0.016 in
C	24.61±0.48 mm	0.969±0.019 in
D	18.50mm(min.)	0.728in(min.)
E	37.50mm(min.)	1.476 in(min.)
F	16.80±0.33mm	0.661±0.013 in

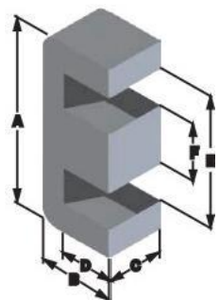
Magnetic Dimensions

Ae	Effective Cross-sectional Area	4.17cm²
Le	Effective Magnetic Path Length	12.3cm
Ve	Effective Magnetic Path Length	51.4cm³
WA	Effective Magnetic Path Length	3.77cm²
SA	Surface Area	130cm²
MLT	Mean Length per Turn	12.4cm

Permeability Product Names

Effective permeability	Inductance factor (nH/N²)	MNS	MNF
14μ	102	EMNS-0552825-014	EMNF-0552825-014
26μ	138	EMNS-0552825-026	EMNF-0552825-026
40μ	187	EMNS-0552825-040	EMNF-0552825-040
60μ	261	EMNS-0552825-060	EMNF-0552825-060
75μ	362	EMNS-0552825-075	
90μ	388	EMNS-0552825-090	
Approximate unit weight		150g/half	170g/half

Type E Core – 65.1mm/2.563 in.



Product Name:	E	MNS-065	33	27-090

Type E Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

Physical Dimensions

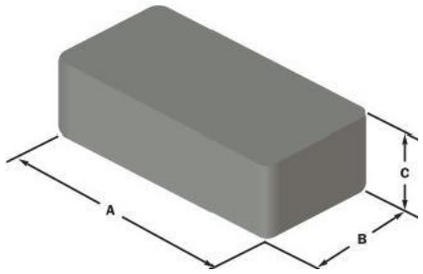
A	65.1±0.97 mm	2.563±0.038 in
B	32.5±0.48 mm	1.280±0.019 in
C	27±0.53 mm	1.063±0.021 in
D	22.2 mm(min.)	0.874 in(min.)
E	44.2 mm(min.)	1.740 in(min.)
F	19.7±0.41 mm	0.776±0.016 in

Magnetic Dimensions

Ae	Effective Cross-sectional Area	5.40cm²
Le	Effective Magnetic Path Length	14.7cm
Ve	Effective Magnetic Path Length	79.4cm³
WA	Effective Magnetic Path Length	5.35cm²
SA	Surface Area	177cm²
MLT	Mean Length per Turn	14.2cm

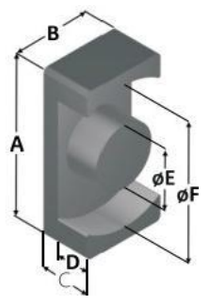
Permeability / Product Names

Effective permeability	Inductance factor (nH/N²)	MNS	MNF
14μ	111	EMNS-0653327-014	EMNF-0653327-014
26μ	162	EMNS-0653327-026	EMNF-0653327-026
40μ	230	EMNS-0653327-040	EMNF-0653327-040
60μ	300	EMNS-0653327-060	EMNF-0653327-060
75μ	392	EMNS-0653327-075	
90μ	462	EMNS-0653327-090	
Approximate unit weight		230g/half	260g/half



Product Name:	B MNS-080 30 20-060
Block Shape	
Material Type	
A Length (mm)	
B Length (mm)	
C Length (mm)	
Permeability	

A	B	C*	26μ	40μ	60μ
47.5 mm 1.870 in	41.0 mm 1.614 in	21.0 mm 0.827 in	0474120-026	0474120-040	0474120-060
47.5 mm 1.870mm	41.0mm 1.614 in	27.5 mm 1.083 in	0474128-026	0474128-040	0474128-060
50.0 mm 1.969 in	30.0 mm 1.181in	15.0 mm 0.591in	0503015-026	0503015-040	0503015-060
50.0 mm 1.969 in	30.0 mm 1.181in	20.0 mm 0.787 in	0503020-026	0503020-040	0503020-060
60.0 mm 2.362 in	30.0 mm 1.181 in	15.0 mm 0.591 in	0603015-026	0603015-040	0603015-060
60.0 mm 2.362 in	30.0 mm 1.181 in	20.0 mm 0.787 in	0603020-026	0603020-040	0603020-060
70.0 mm 2.756 in	30.0 mm 1.181 in	15.0 mm 0.591 in	0703015-026	0703015-040	0703015-060
70.0 mm 2.756 in	30.0 mm 1.181 in	20.0 mm 0.787 in	0703020-026	0703020-040	0703020-060
70.0 mm 2.756 in	30.0mm 1.181in	25.0 mm 0.984 in	0703025-026	0703025-040	0703025-060
80.0 mm 3.150 in	30.0 mm 1.181 in	15.0 mm 0.591 in	0803015-026	0803015-040	0803015-060
80.0 mm 3.150 in	30.0 mm 1.181 in	20.0 mm 0.787 in	0803020-026	0803020-040	0803020-060
80.0 mm 3.150 in	30.0 mm 1.181 in	25.0 mm 0.984 in	0803025-026	0803025-040	0803025-060
80.0 mm 3.150 in	30.0 mm 1.181 in	35.0 mm 1.378 in	0803035-026	0803035-040	0803035-060
±0.5 mm ±0.020 in	±0.5 ±0.020 in	±0.5 mm ±0.020 in			
General tolerance					



Product Name: EQ MNF-500 320 250-060

- EQ Shape
- Material Type
- A Length (mm)
- B Length (mm)
- C Length (mm)
- Permeability

Available in Iron-Silicon-Aluminum (MNS), Iron-Silicon (MNF), and Iron-Nickel (MNH) materials.
Core sizes range from 20 mm to 50 mm.

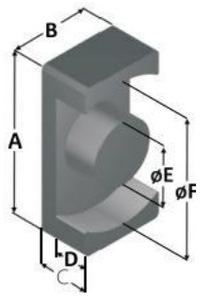
Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	B	C	D	E	F	Le(cm)	Ae(cm²)	26	40	60
EQxx-205140050-XXX	mm	20.5±0.3	14.0±0.2	5.0±0.2	2.6±0.3	8.8±0.2	18.0±0.2	3.28	0.608	60	93	140
EQxx-205140055-XXX				5.5±0.2	3.1±0.3			3.48		57	88	132
EQxx-205140064-XXX				6.4±0.2	4.0±0.3			3.84		52	79	119
EQxx-205140078-XXX				7.8±0.2	5.4±0.3			4.4		45	69	104
EQxx-205140081-XXX				8.1±0.2	5.7±0.3			4.52		44	68	101
EQxx-205140086-XXX				8.6±0.2	6.2±0.3			4.72		42	65	97
EQxx-205140096-XXX				9.6±0.2	7.2±0.3			5.12		39	59	89
EQxx-205140101-XXX				10.1±0.2	7.7±0.3			5.32		37	57	86
EQxx-205140104-XXX				10.4±0.2	8.0±0.3			5.44		36	56	84

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	B	C	D	E	F	Le(cm)	Ae(cm²)	26	40	60
EQxx-265190053-XXX	mm	26.5±0.3	19.0±0.2	5.3±0.2	2.0±0.3	12.0±0.2	22.6±0.3	3.55	1.198	110	169	254
EQxx-265190059-XXX				5.9±0.2	2.6±0.3			3.79		103	159	238
EQxx-265190063-XXX				6.3±0.2	3.0±0.3			3.95		99	152	228
EQxx-265190070-XXX				7.0±0.2	3.7±0.3			4.23		92	142	213
EQxx-265190077-XXX				7.7±0.2	4.4±0.3			4.51		87	133	200
EQxx-265190084-XXX				8.4±0.2	5.1±0.3			4.79		82	126	188
EQxx-265190088-XXX				8.8±0.2	5.5±0.3			4.95		79	121	182
EQxx-265190090-XXX				9.0±0.2	5.7±0.3			5.03		78	120	179
EQxx-265190101-XXX				10.1±0.2	6.8±0.3			5.47		72	110	165
EQxx-265190124-XXX				12.4±0.2	9.1±0.3			6.39		61	94	141
EQxx-265190135-XXX				13.5±0.2	10.2±0.3			6.83		57	88	132

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	B	C	D	E	F	Le(cm)	Ae(cm²)	26	40	60
EQxx-320220072-XXX	mm	32.0±0.4	22.0±0.3	7.2±0.2	3.5±0.3	13.5±0.2	27.6±0.3	4.42	1.523	112	173	260
EQxx-320220076-XXX				7.6±0.2	3.9±0.3			4.79		104	160	240
EQxx-320220080-XXX				8.0±0.2	4.3±0.3			5.11		97	150	225
EQxx-320220085-XXX				8.5±0.2	4.8±0.3			5.31		94	144	216
EQxx-320220090-XXX				9.0±0.2	5.3±0.3			5.51		90	139	208
EQxx-320220095-XXX				9.5±0.2	5.8±0.3			5.71		87	134	201
EQxx-320220103-XXX				10.3±0.2	6.6±0.3			6.03		83	127	190
EQxx-320220110-XXX				11.0±0.2	7.3±0.3			6.31		79	121	182
EQxx-320220134-XXX				13.4±0.2	9.7±0.3			7.27		68	105	158
EQxx-320220140-XXX				14.0±0.2	10.3±0.3			7.51		66	102	153
EQxx-320220152-XXX				15.2±0.2	11.5±0.3			7.99		62	96	144
EQxx-320220172-XXX				17.2±0.2	13.5±0.3			8.79		56	87	130

EQ Magnetic Core

Manitech



Product Name: EQ MNF-500 320 250-060

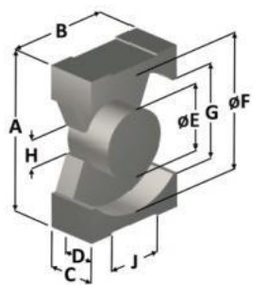
- EQ Shape
- Material Type
- A Length (mm)
- B Length (mm)
- C Length (mm)
- Permeability

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	B	C	D	E	F	Le(cm)	Ae(cm²)	26	40	60
EQxx-360260090-XXX	mm	36.0±0.5	26.0±0.3	9.0±0.3	5.0±0.3	14.4±0.2	32.0±0.4	6.11	1.808	96	149	223
EQxx-360260140-XXX				14.0±0.3	10.0±0.3			8.11		73	112	168
EQxx-360260154-XXX				15.4±0.3	11.4±0.3			8.67		68	105	157
EQxx-360260164-XXX				16.4±0.3	12.4±0.3			9.07		65	100	150
EQxx-360260174-XXX				17.4±0.3	13.4±0.3			9.47		62	96	144

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	B	C	D	E	F	Le (cm)	Ae (cm²)	26	40	60
EQxx-415280100-XXX	mm	41.5±0.5	28.0±0.4	10.0±0.3	5.0±0.3	14.9±0.2	36.5±0.4	7.56	1.997	86	133	199
EQxx-415280150-XXX				15.0±0.3	10.5±0.3			9.56		68	105	157
EQxx-415280164-XXX				16.4±0.3	11.9±0.3			10.12		64	99	149
EQxx-415280199-XXX				19.9±0.3	15.4±0.3			11.52		57	87	131

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	B	C	D	E	F	Le (cm)	Ae (cm²)	26	40	60
EQxx-500320130-XXX	mm	50.0±0.6	32.0±0.4	13.0±0.4	7.5±0.4	20.0±0.3	44.0±0.5	8.54	3.141	120	185	277
EQxx-500320150-XXX				15.0±0.4	9.5±0.4			9.34		110	169	253
EQxx-500320156-XXX				15.6±0.4	10.1±0.4			9.54		107	165	248
EQxx-500320160-XXX				16.0±0.4	10.5±0.4			9.74		105	162	243
EQxx-500320170-XXX				17.0±0.4	11.5±0.4			10.14		101	156	233
EQxx-500320175-XXX				17.5±0.4	12.0±0.4			10.34		99	152	229
EQxx-500320180-XXX				18.0±0.4	12.5±0.4			10.54		97	150	224
EQxx-500320190-XXX				19.0±0.4	13.5±0.4			10.94		94	144	216
EQxx-500320200-XXX				20.0±0.4	14.5±0.4			11.34		90	139	208
EQxx-500320210-XXX				21.0±0.4	15.5±0.4			11.74		87	134	202
EQxx-500320230-XXX				23.0±0.4	17.5±0.4			12.54		82	126	189
EQxx-500320250-XXX				25.0±0.4	19.5±0.4			13.34		77	118	178

- Magnetic performance curves are available in individual product datasheets.Additional information, including magnetic dimensions, core weight, and packaging, is also provided therein.
- Dimensions "C" and "D" are customizable, and surface coating can be applied upon request.
- For further details, please contact our sales representative.



Product Name:	PQ MNS-330 220103-060

PQ Shape
Material Type
A Length (mm)
B Length (mm)
C Length (mm)
Permeability

PQ product series available in various sizes ranging from 21mm to 51mm, compatible with materials such as Sendust (MNS), Silicon Iron (MNF), and Iron-Nickel (MNH).

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	**B**	**C**	**D**	**E**	**F**	**Le(cm)**	**Ae(cm²)**	**26u**	**40u**	**60u**
PQXX-213140081-XXX	mm	21.3±0.41	14.0±0.41	8.10±0.20	5 min	8.8±0.41	17.6 min	3.76	0.619	54	83	124
PQXX-213140101-XXX				10.10±0.20	7 min			4.57	0.626	45	69	103

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	**B**	**C**	**D**	**E**	**F**	**Le(cm)**	**Ae(cm²)**	**26u**	**40u**	**60u**
PQXX-213140081-XXX	mm	21.3±0.41	14.0±0.41	8.10±0.20	5 min	8.8±0.41	17.6 min	3.76	0.619	54	83	124
PQXX-213140101-XXX				10.10±0.20	7 min			4.57	0.626	45	69	103

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	**B**	**C**	**D**	**E**	**F**	**Le(cm)**	**Ae(cm²)**	**26u**	**40u**	**60u**
PQXX-330220059-XXX	mm	33.0±0.51	22.0±0.51	5.94±0.20	3.4 min	13.5±0.51	27.0 min	3.44	1.09	104	159	239
PQXX-330220103-XXX				10.30±0.20	5.6 min			5.59	1.69	99	152	228
PQXX-330220152-XXX				15.15±0.20	10.5 min			7.47	1.67	73	112	169

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	**B**	**C**	**D**	**E**	**F**	**Le(cm)**	**Ae(cm²)**	**26u**	**40u**	**60u**
PQXX-361260174-XXX	mm	36.0±0.61	26.0±0.51	17.35±0.30	12.35min	14.4±0.51	31.5 min	8.61	1.9	72	111	166

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	**B**	**C**	**D**	**E**	**F**	**Le(cm)**	**Ae(cm²)**	**26u**	**40u**	**60u**
PQXX-415280199-XXX	mm	41.5±0.71	28.0±0.61	19.90±0.30	14.55min	14.9±0.61	36.4 min	10.2	2.01	64	99	149

Product Name	unit	Physical Dimensions						Effective Magnetic Path Length	Effective Cross-sectional Area	Inductance Factor (nH/N²)		
		A	**B**	**C**	**D**	**E**	**F**	**Le(cm)**	**Ae(cm²)**	**26u**	**40u**	**60u**
PQXX-510320250-XXX	mm	51.0±0.71	32.0±0.61	25.00±0.30	17.75min	20.2±0.71	43.3 min	11.3	3.28	95	146	219

- Magnetic performance curves are available in individual product datasheets.Additional information, including magnetic dimensions, core weight, and packaging, is also provided therein.
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- For further details, please contact our sales representative.

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