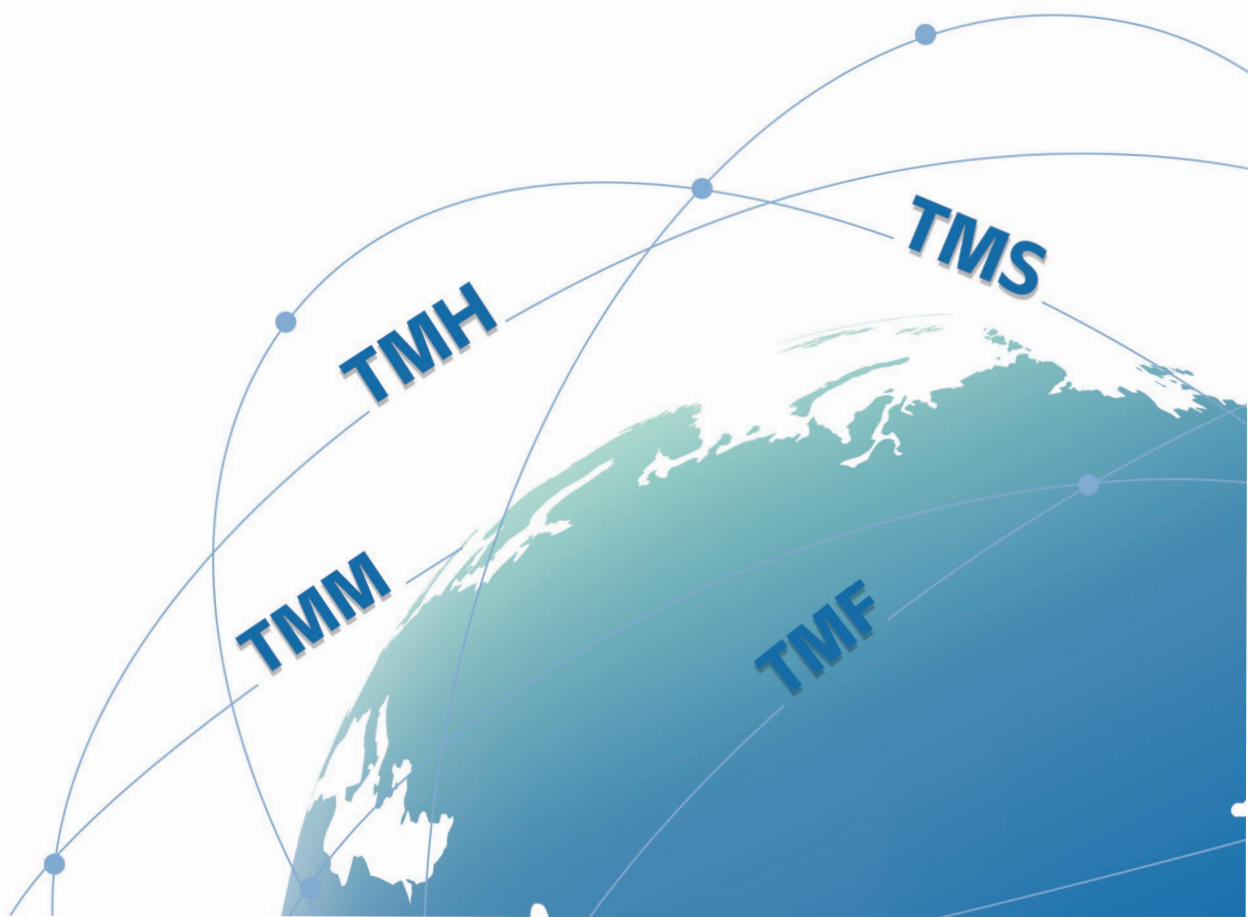


MAGNETIC POWDER CORES

金属磁粉心

TDG 天通控股股份有限公司
TDG HOLDING CO.,LTD.



公司简介 Introduction

天通控股股份有限公司(股票代码:600330)创建于1984年, 于2001年在上海证券交易所挂牌上市, 是国内首家由自然人直接控股的上市公司。天通拥有多家控股和参股公司, 目前已经形成电子材料、电子模组、绿色能源、智能装备四大业务板块, 业务涵盖电子信息材料产业链上下游, 是集科研、制造、销售于一体的国家高新技术企业。

公司自2009年起研发生产金属磁粉心材料, 分别在浙江海宁和安徽六安建立了金属磁粉心产业基地, 先后研发并量产了铁硅铝、铁硅、铁镍、铁镍钼以及系列复合材料, 产品已广泛应用于新能源汽车、光充储、5G通讯、数据中心、服务器、智能家居、医疗、消费电子等领域。

Founded in 1984 and listed on the Shanghai Stock Exchange in 2001 (Stock Code: 600330), TDG Holding Co., Ltd is a high-tech enterprise in China and has a number of subsidiaries. TDG has formed four major business segments: electronic materials, electronic module, green energy and smart equipment, the business covers the entire industrial chain of electronic information materials.

TDG has been researching and developing magnetic powder cores since 2009, and owns magnetic powder cores industrial bases in Haining, Zhejiang and Lu'an, Anhui. TDG has developed and can mass produce Fe-Si-Al, Fe-Si, Fe-Ni, Fe-Ni-Mo and composite powder cores, the products are widely used in the field of electronic technology, such as new energy vehicles, PV and energy storage, 5G communication, data centers, servers, smart homes, medical care and consumer electronics.



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Product Introduction

产品简介

金属磁粉心是由铁磁性合金粉末与绝缘介质混合压制而成的一种具有分布式气隙的软磁材料，具有高频低损耗和较好的温度稳定性。由绝缘介质形成的分布于磁芯内部的微小气隙，使得磁芯具有低磁导率和稳恒磁导率的特性，同时具有良好的直流叠加特性和频率稳定性。公司金属磁粉心主要包括铁硅铝磁粉心、铁硅磁粉心、铁镍磁粉心、铁镍复合粉心、铁硅复合磁粉心。

公司产品广泛应用于光伏逆变器、储能、新能源汽车、直流充电桩、不间断电源、通讯服务器、高效率开关电源、高端家电等领域。

Magnetic powder cores are distributed-air-gap cores made from ferrous alloy powders for low loss at high frequencies and stable inductance and other performance over temperature. Small air gap distributed evenly throughout the cores increase the amount of DC (direct current) that can be passed through the winding before core saturation occurs. The magnetic powder cores mainly include Fe-Si-Al (Sendust), Fe-Si, Fe-Ni (High Flux), FeNi composite powder core and FeSi composite powder core.

The company's products are widely used in Solar inverter, energy storage, new energy vehicles, DC Charging station, uninterruptible power supply, communication server, high-efficiency switching power supply, high-end household appliances and other fields.

Material

材料对照

Mater	TMS	TMSA	TMSB	TMSG	TMF	TMFA	TMFB	TMFC	TMH	TMHA	TMHG
μ_e	26-125	26-90	26-90	26-90	26-90	26-90	26-90	26-90	26-125	26-125	26-125
Bs(T)	1.05	0.95	0.9	0.9	1.6	1.5	1.2	1.1	1.5	1.2	1.5
Tc (°C)	500	500	500	500	700	700	500	500	500	500	500
Temp. Stability	good	better	better	better	better	better	better	better	better	better	better
DC Bias $\mu_e60@100Oe$	48%	58%	63%	55%	72%	72%	62%	58%	83%	65%	83%
Core Loss(kW/m ³ $\mu_e60@50kHz/100mT$	260	140	160	90	580	390	330	180	200	230	130

材料/Material:铁硅铝系列 TMS SERIES

特 征

普通铁硅铝材质
高饱和磁通密度 (1.05T)
低损耗特性
低磁致伸缩系数
稳定的温度及频率特性

Features

Al-Si-Fe
High saturation flux density (1.05T)
Low loss characteristics
Low magnetostriction
Good temperature & frequency stability

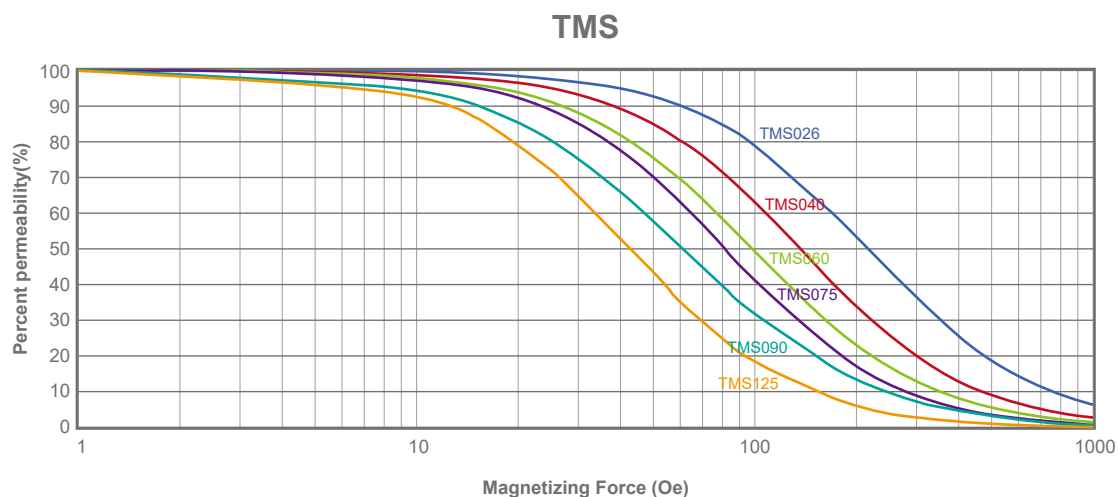
应 用

电源适配器
光伏逆变器升压电感
PC电源

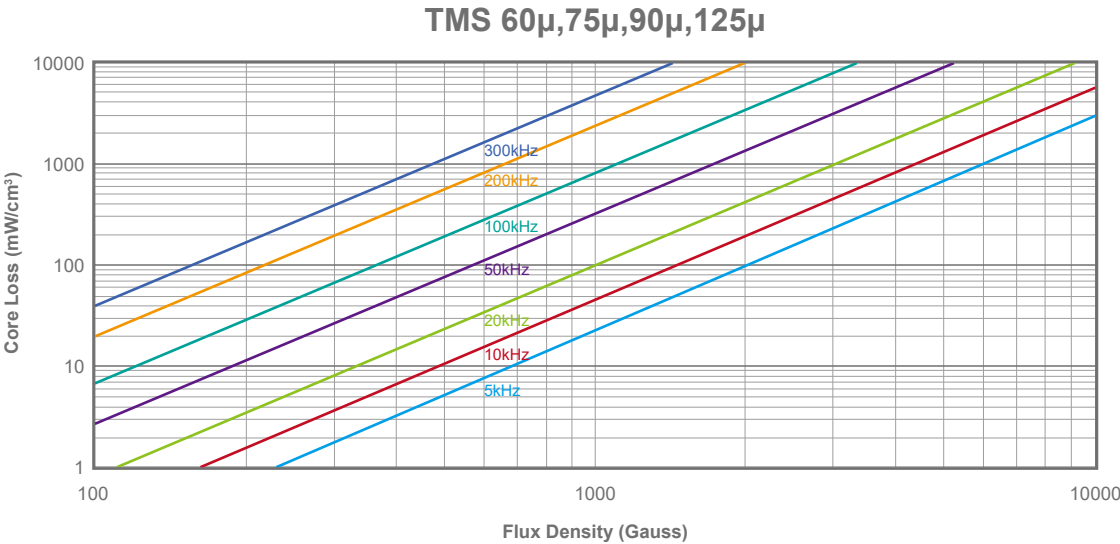
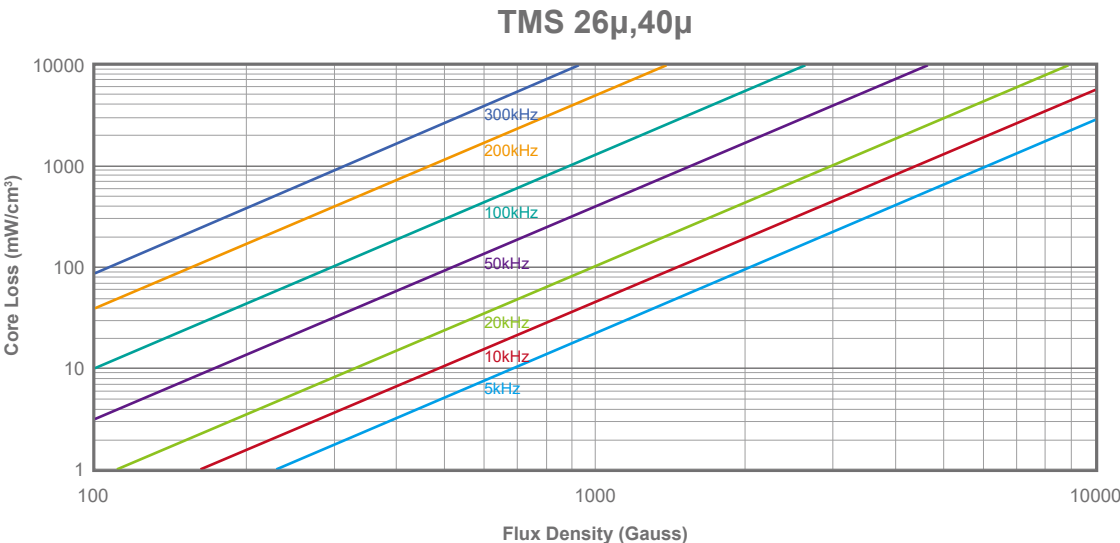
Application

Power adapter
Boost choke for PV inverter
PC power supply

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅铝系列 TMSA SERIES

特 征

高饱和磁通密度 (0.95T)

超低损耗

低磁致伸缩系数

稳定的温度及频率特性

Features

High saturation flux density (1.0T)

Ultra-low core loss

Low magnetostriction

Good temperature & frequency stability

应 用

谐振电感 (< 150kHz)

PFC电感 (50-200kHz)

反激变压器

降压电感

Application

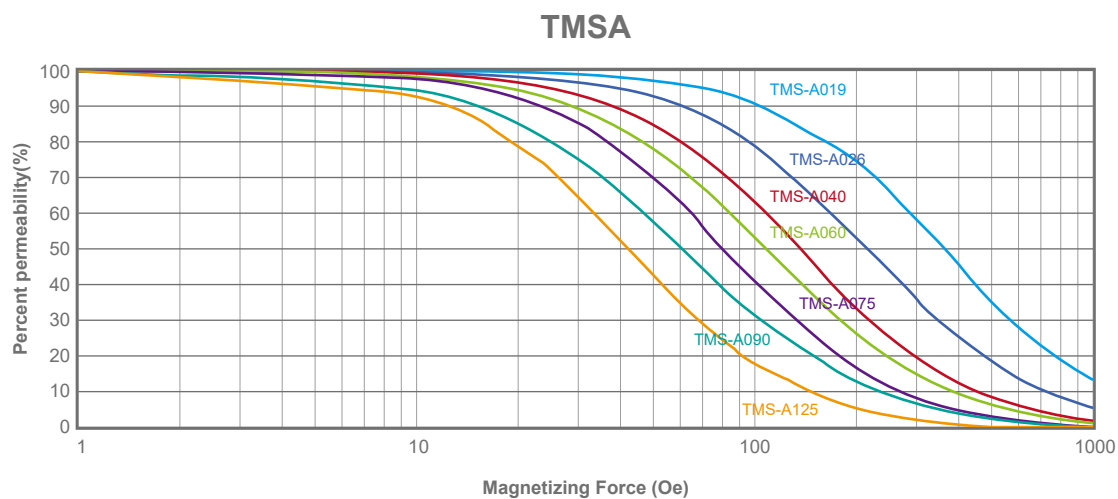
Resonant inductor (< 150kHz)

PFC inductor (50-200kHz)

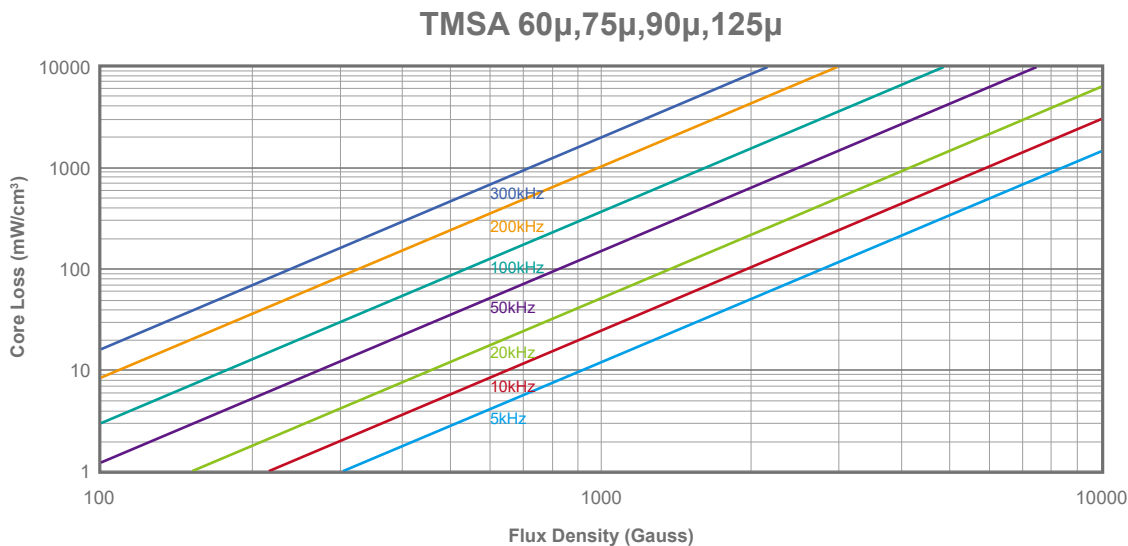
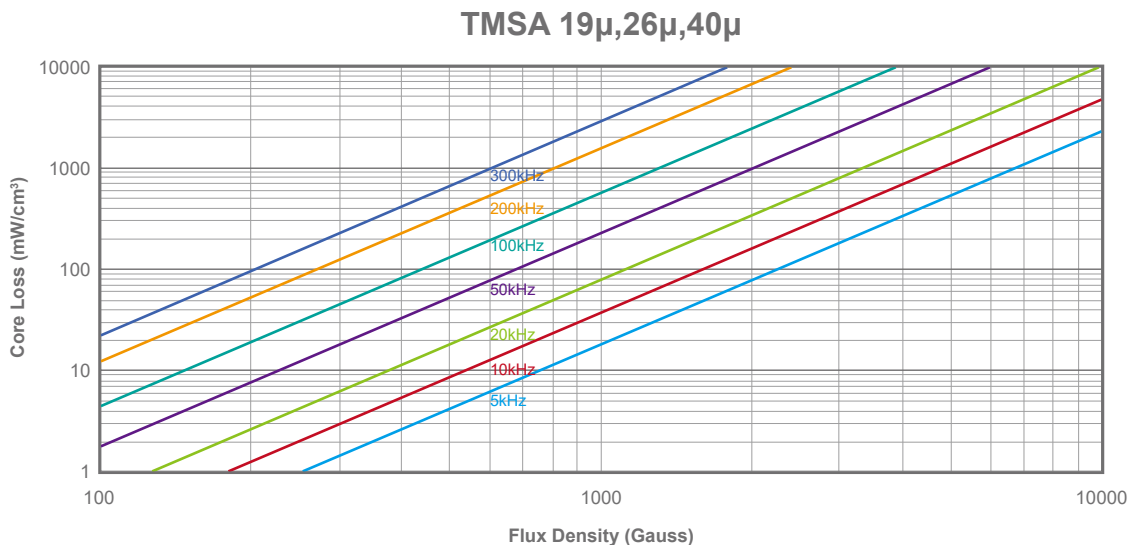
Flyback transformer

Buck inductor

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅铝系列 TMSB SERIES

特 征

优异的直流叠加特性
低损耗
稳定的温度及频率特性

Features

Excellent DC Bias performance
Lower loss
Excellent temperature & frequency stability

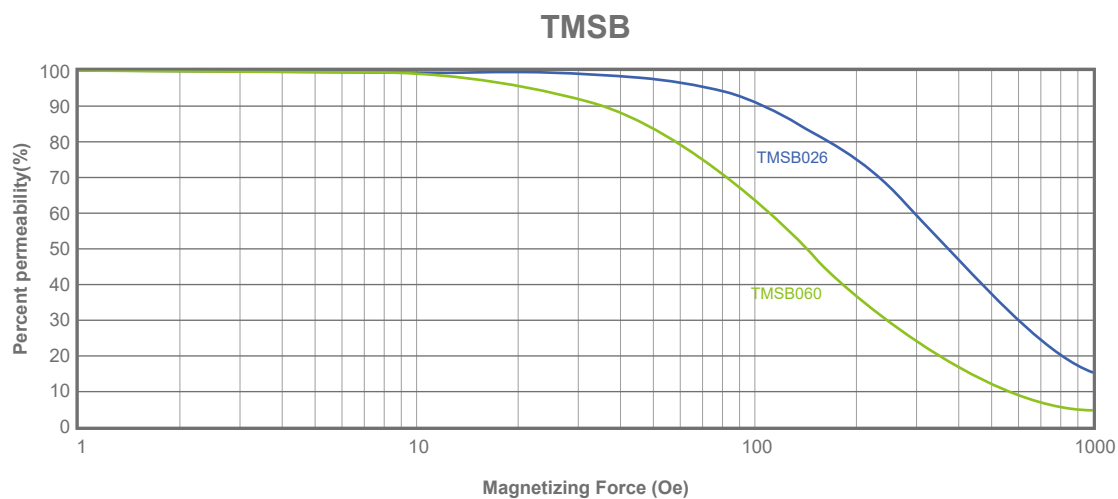
应 用

光伏逆变器
储能系统
服务器电源
直流充电模块

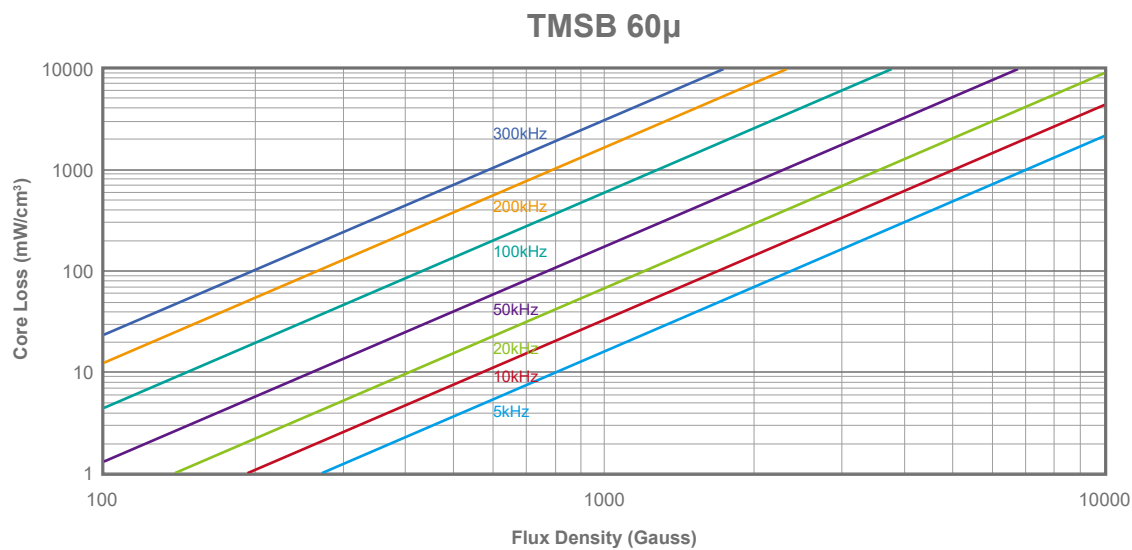
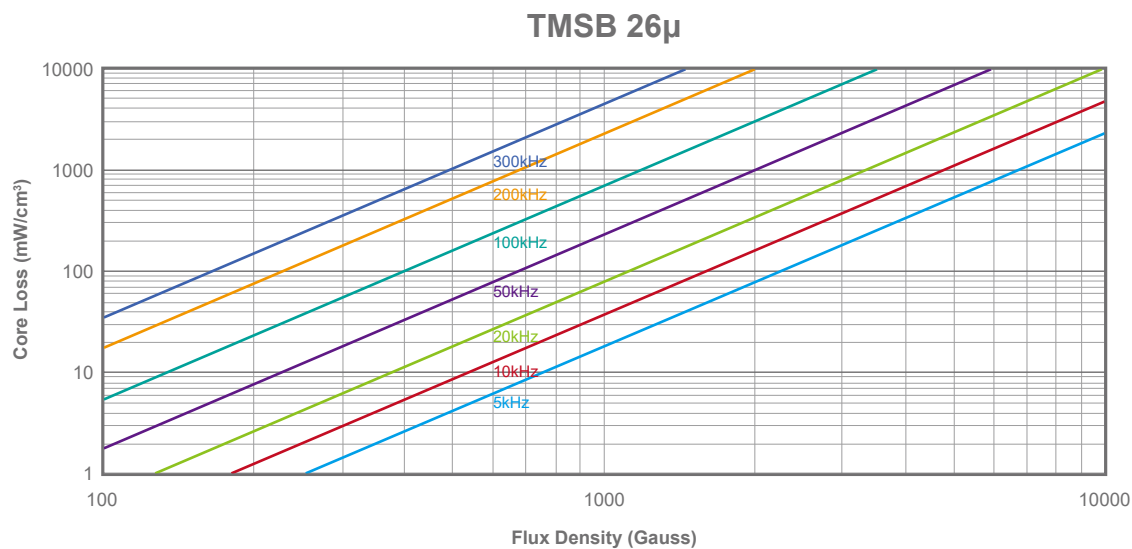
Application

PV inverter
Energy storage system
Server power supply
DC charging module

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅铝系列 TMSG SERIES

特 征

超低损耗
高饱和磁通密度
低磁致伸缩系数
稳定的温度及频率特性

Features

Ultra-low core loss
High saturation flux density
Near zero magnetostriction
Excellent temperature & frequency stability

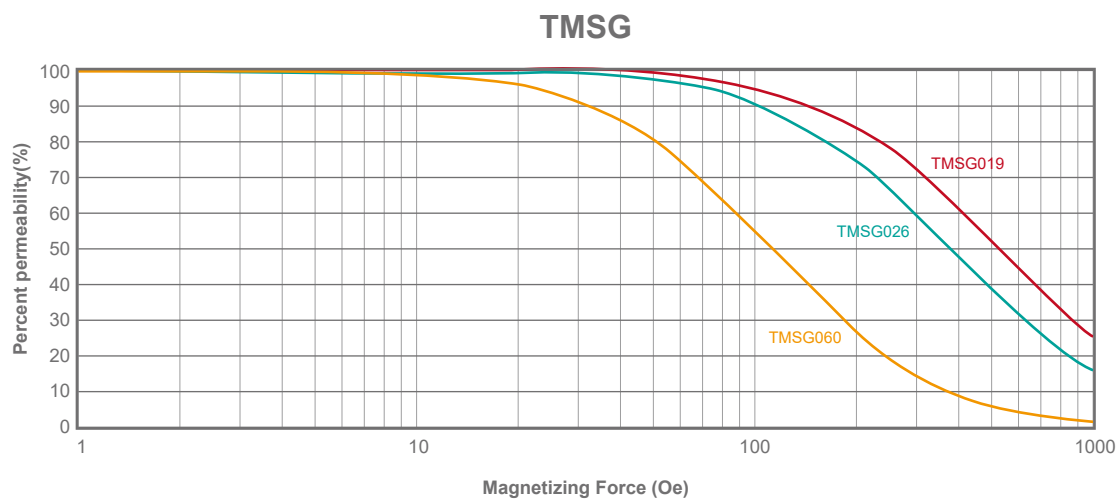
应 用

高频电感
谐振电感
芯片电感

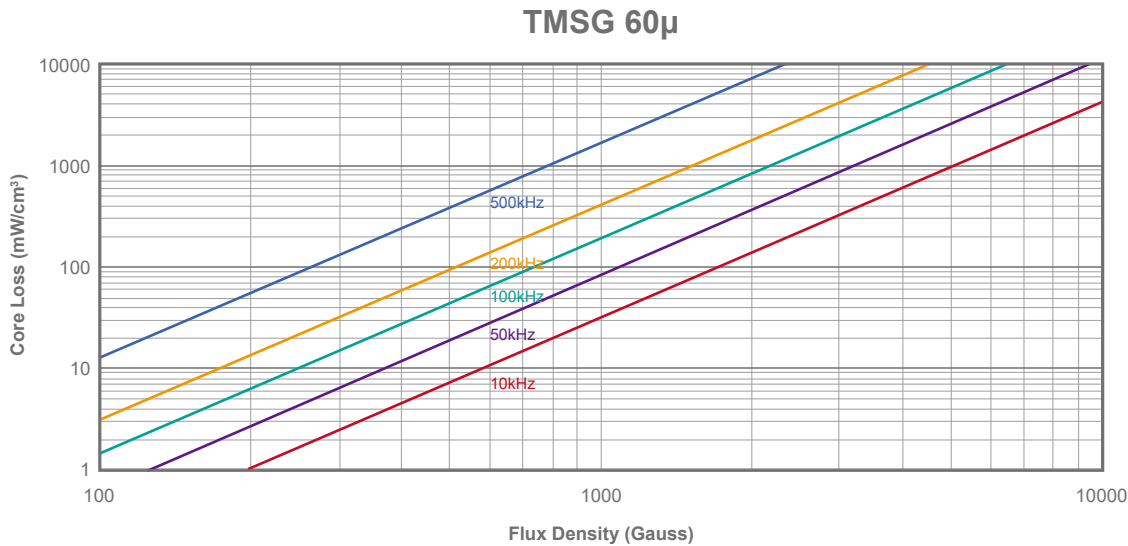
Application

High frequency Inductor
Resonant inductor
Chip Inductor

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅系列TMF SERIES

特 征

具有均匀分布式气隙
极高饱和磁通密度 (1.6T)
较高的直流偏置特性
低磁致伸缩系数
稳定的温度及频率特性

Features

Distributed air gap
Very high saturation flux density (1.6T)
High DC bias performance
Low magnetostriction
Good temperature & frequency stability

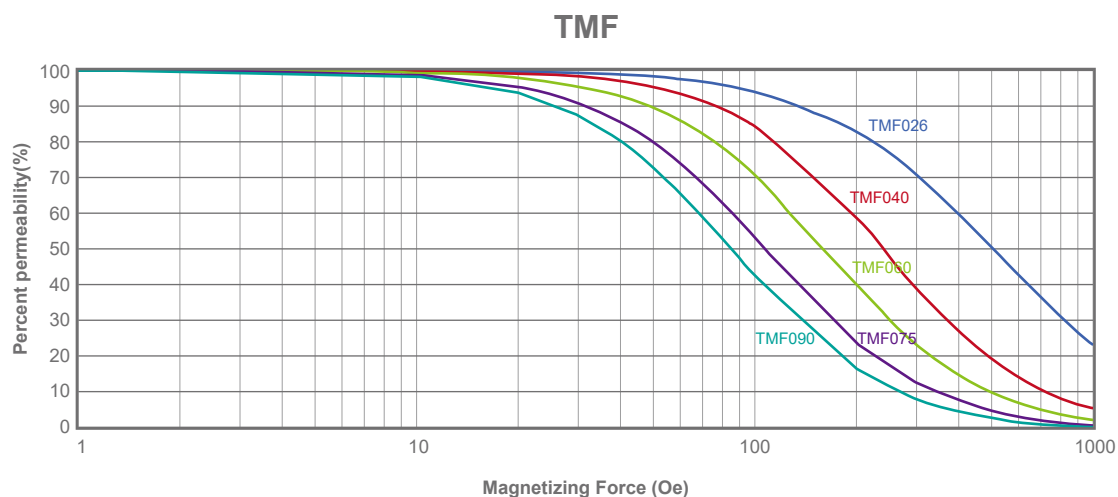
应 用

光伏逆变器
一般工业电源
UPS电源
直流充电桩

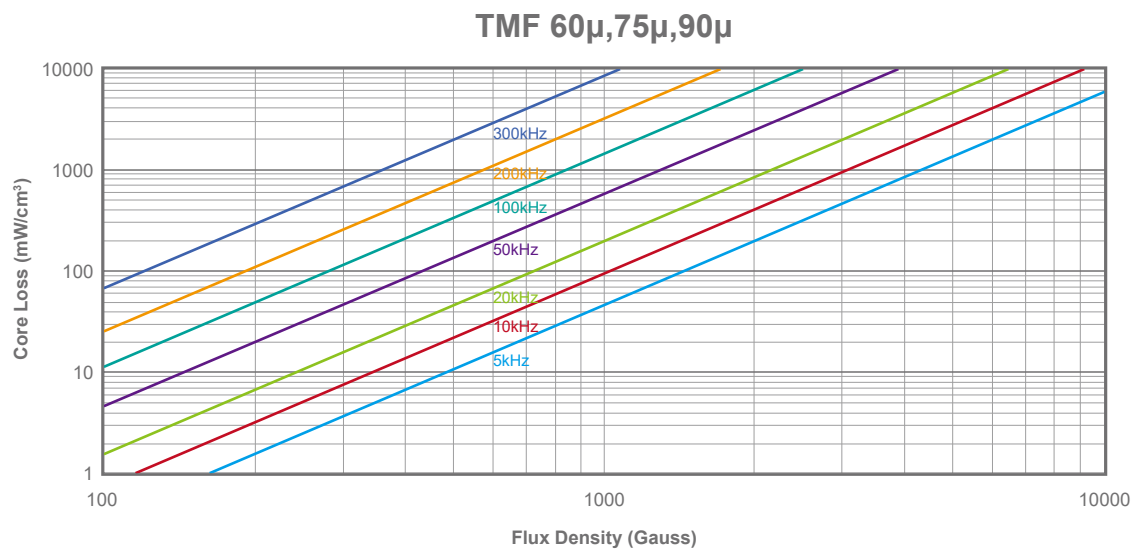
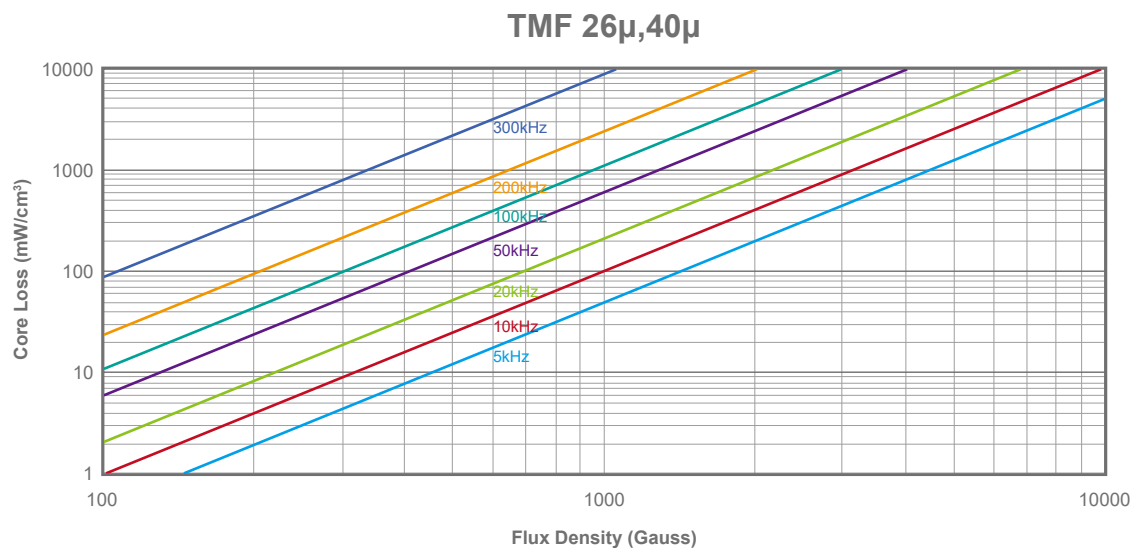
Application

PV Inverter
General industrial power supply
UPS power supply
DC charging station

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅系列TMFA SERIES

特 征

高饱和磁通密度 (1.5T)
较高的直流偏置特性
低磁致伸缩系数
稳定的温度及频率特性
损耗比TMF低30%

Features

High saturation flux density (1.5T)
High DC bias performance
Low magnetostriction
Good temperature & frequency stability
The loss is 30% lower than TMF

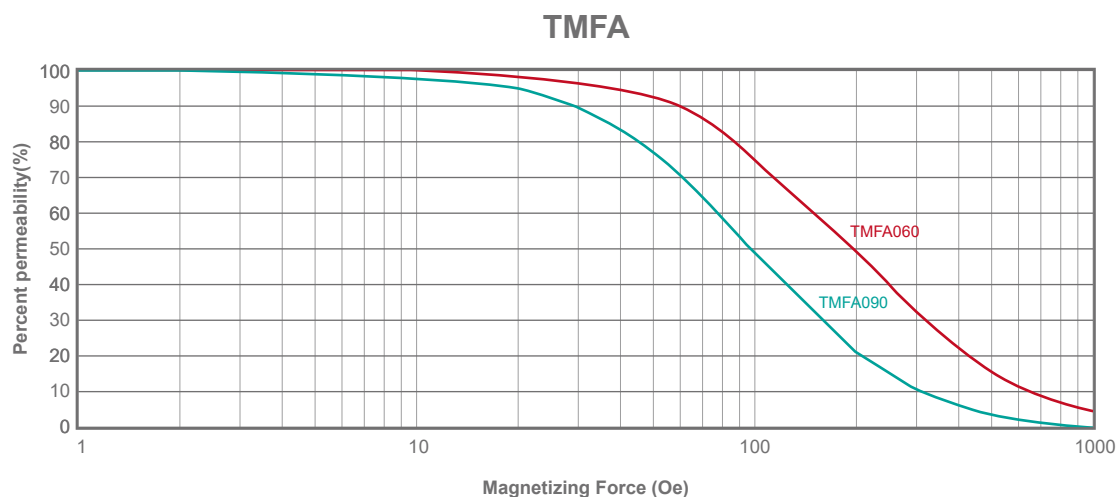
应 用

光伏逆变器
新能源汽车
一般工业电源
直流充电桩

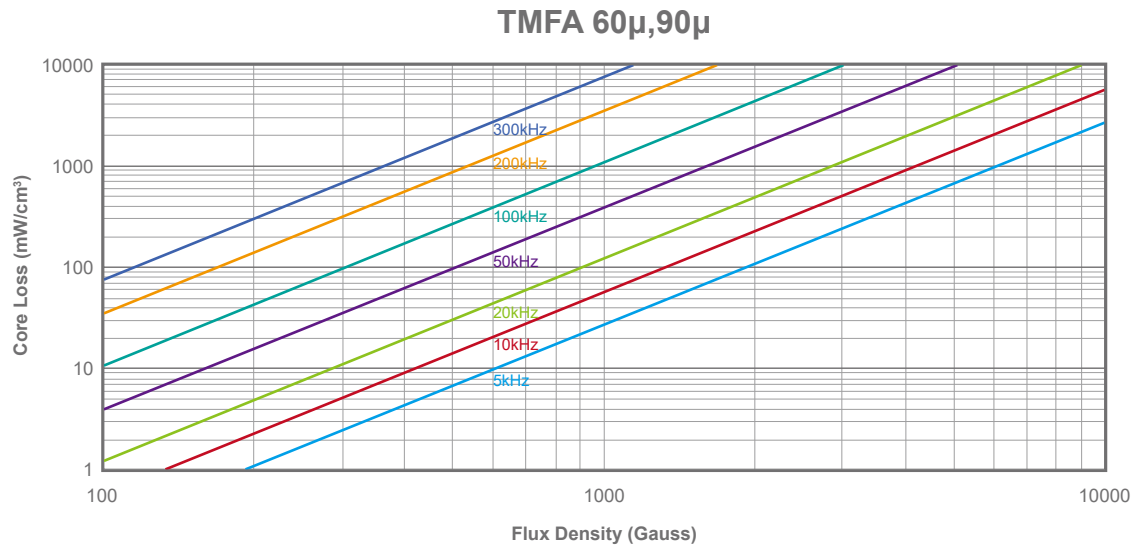
Application

PV Inverter
New energy vehicle
General industrial power supply
DC charging pile

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅系列TMFB SERIES

特 征

极高饱和磁通密度 (1.2T)
低损耗
低磁致伸缩系数
稳定的温度及频率特性

Features

Very high saturation flux density (1.2T)
Low core loss
Low magnetostriction
Good temperature & frequency stability

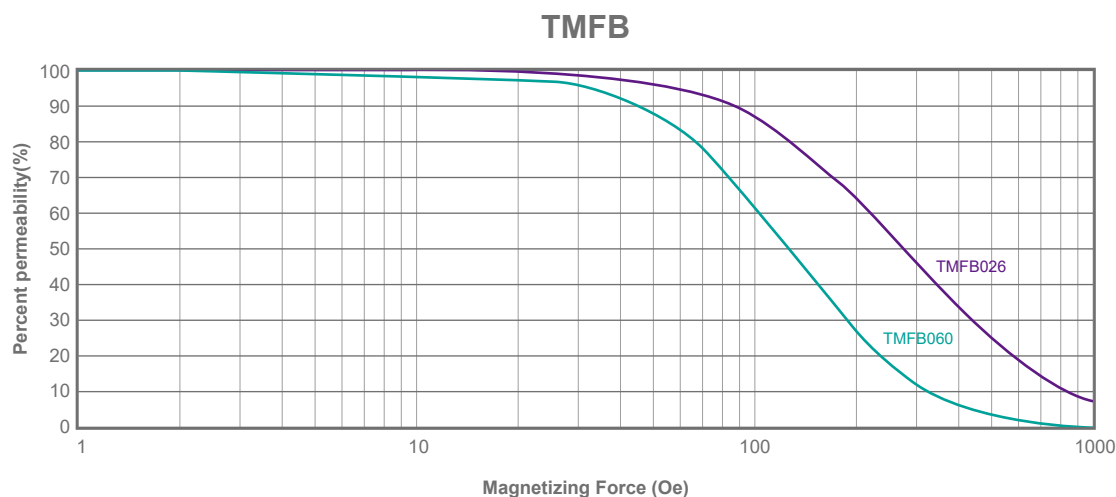
应 用

不间断电源
光伏逆变器
新能源汽车
服务器电源
直流充电桩

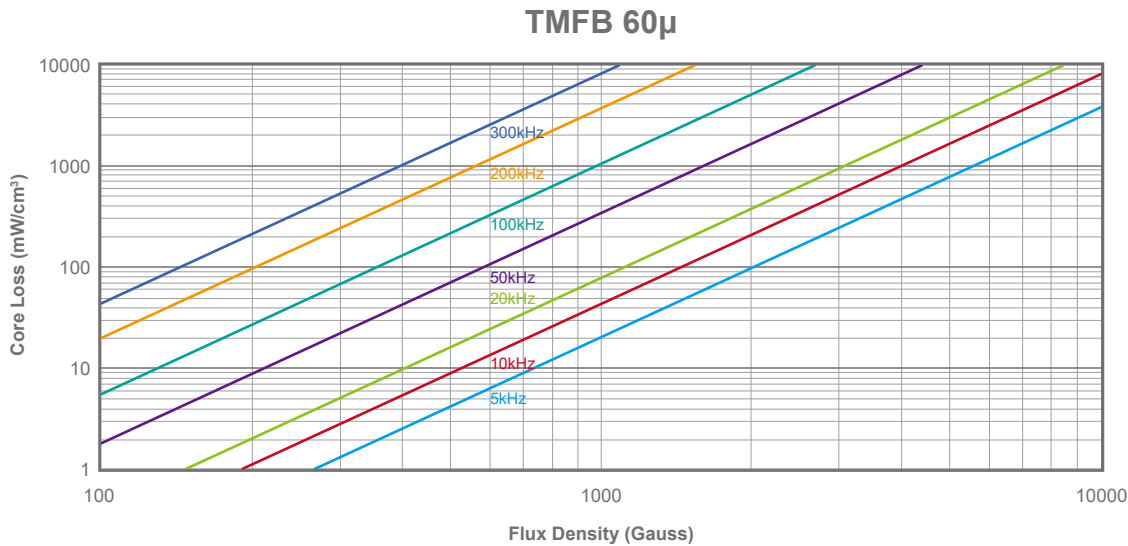
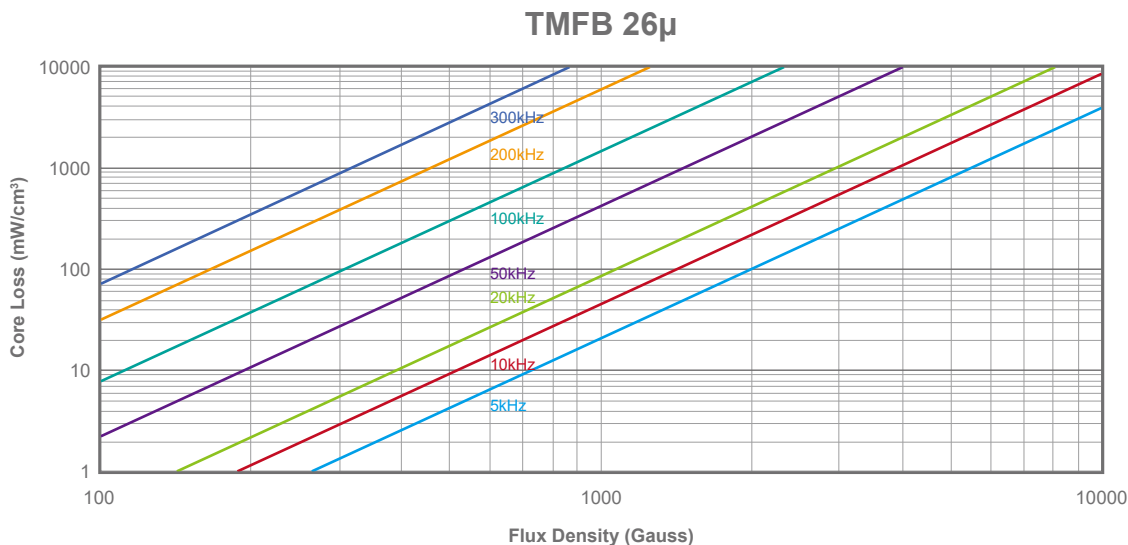
Application

UPS
PV Inverter
New energy vehicle
Server power supply
DC charging pile

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁硅系列TMFC SERIES

特 征

具有均匀分布式气隙
极高饱和磁通密度 (1.1T)
低损耗
低磁致伸缩系数
稳定的温度及频率特性

Features

Distributed air gap
Very high saturation flux density (1.1T)
Low core loss
Low magnetostriction
Good temperature & frequency stability

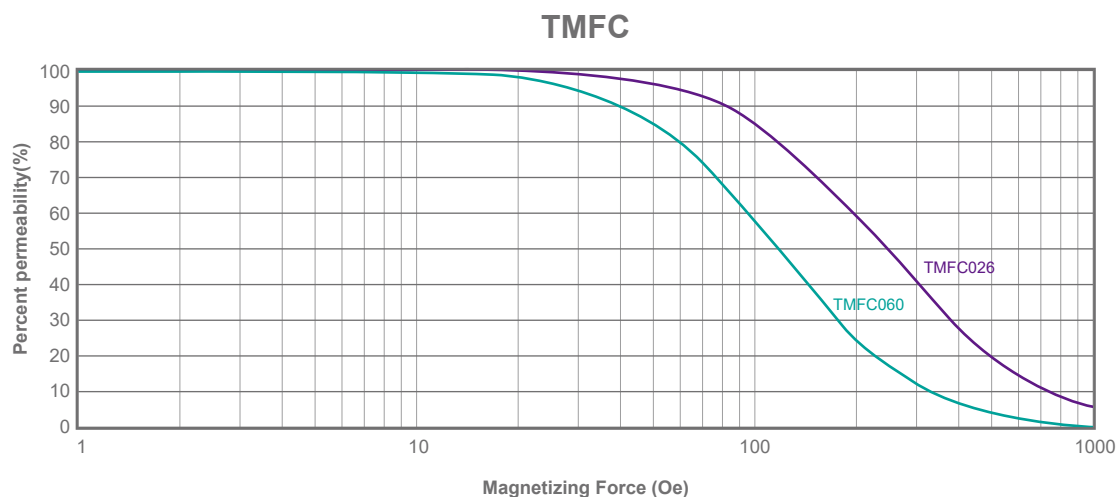
应 用

不间断电源
光伏逆变器
新能源汽车
服务器电源

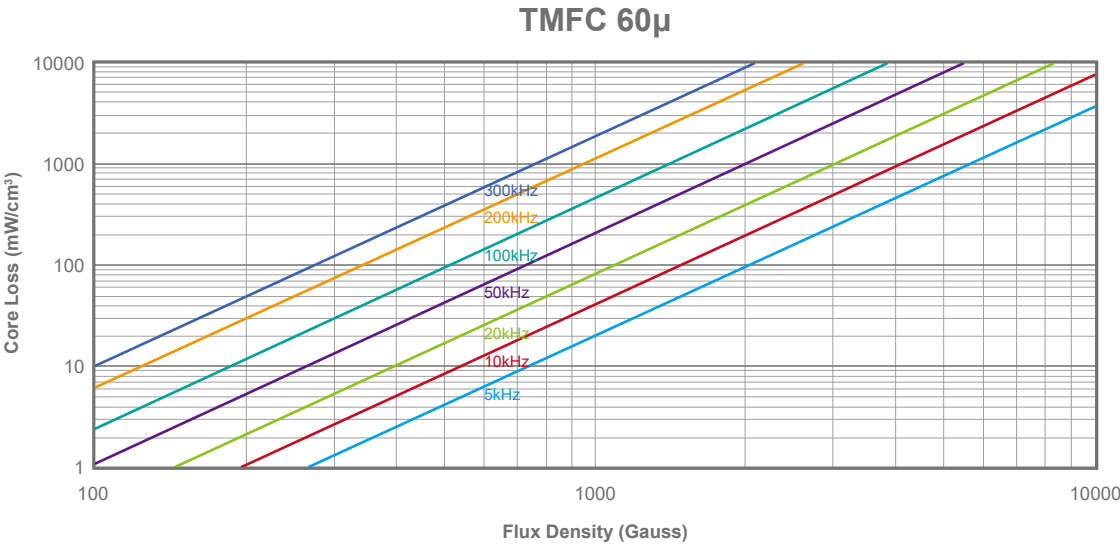
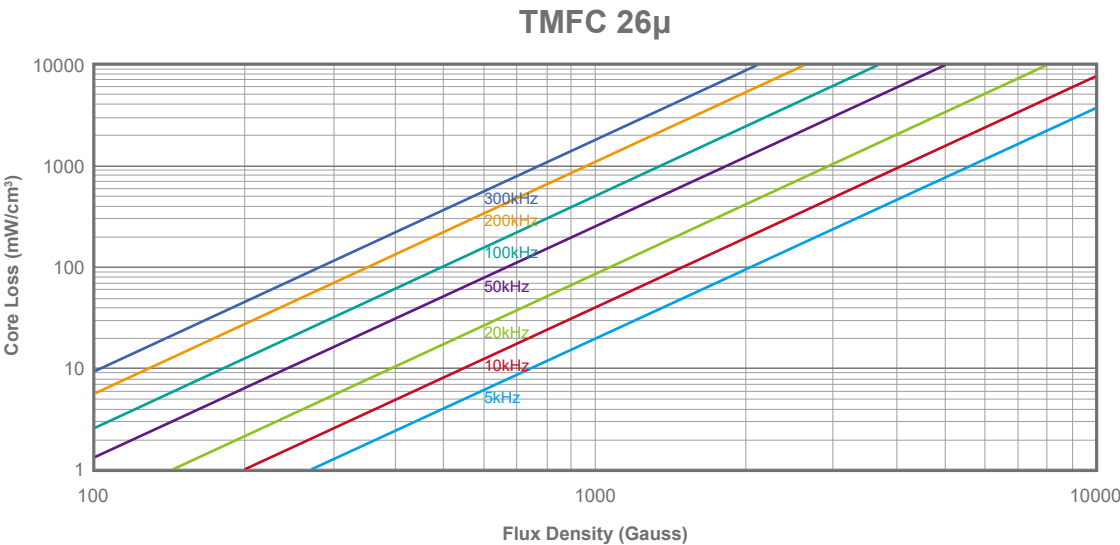
Application

UPS
PV Inverter
New energy vehicle
Server power supply

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2损耗特性曲线 Core Loss Properties Curves



材料/Material:铁镍系列TMH SERIES

特 征

极高饱和磁通密度 (1.5T)
较低损耗
优异的直流偏置特性
稳定的温度及频率特性

Features

Very high saturation flux density (1.5T)
Low core loss
Excellent DC bias performance
Good temperature & frequency stability

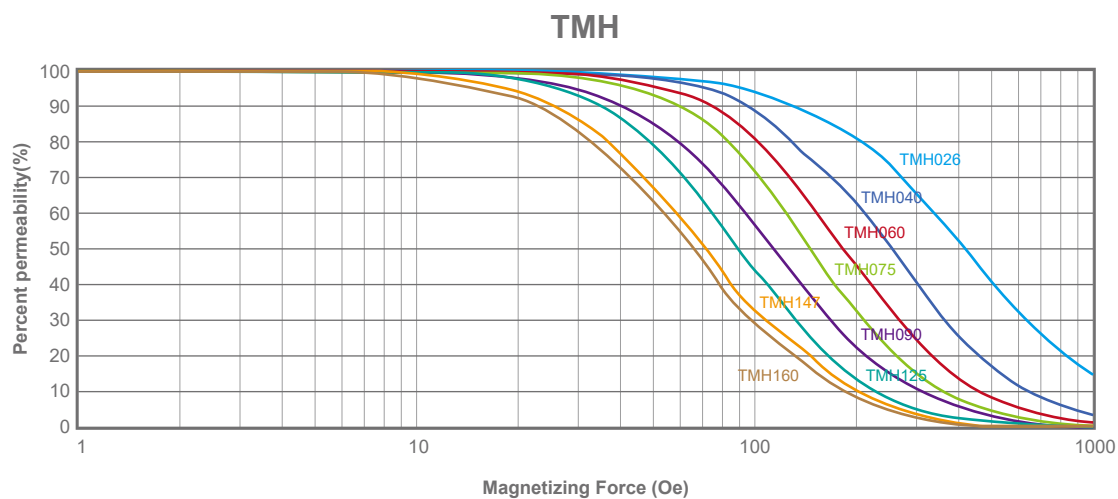
应 用

工业电源
通信电源
新能源汽车
服务器电源

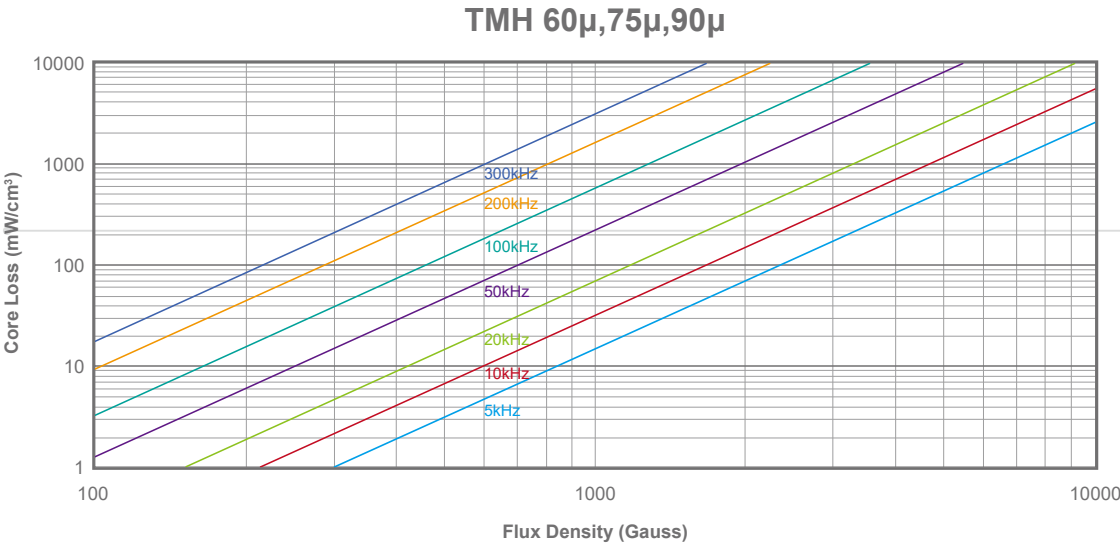
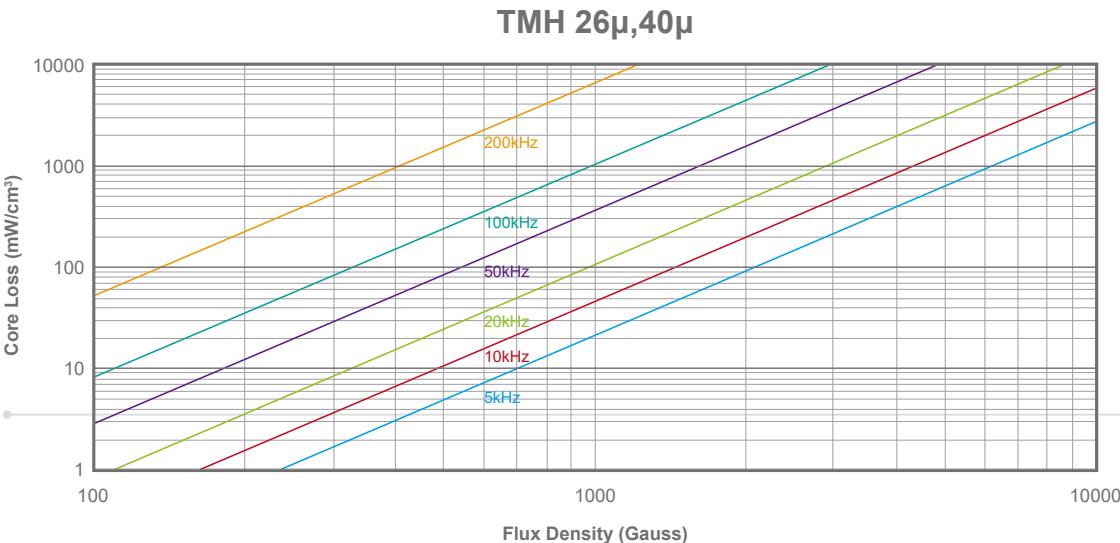
Application

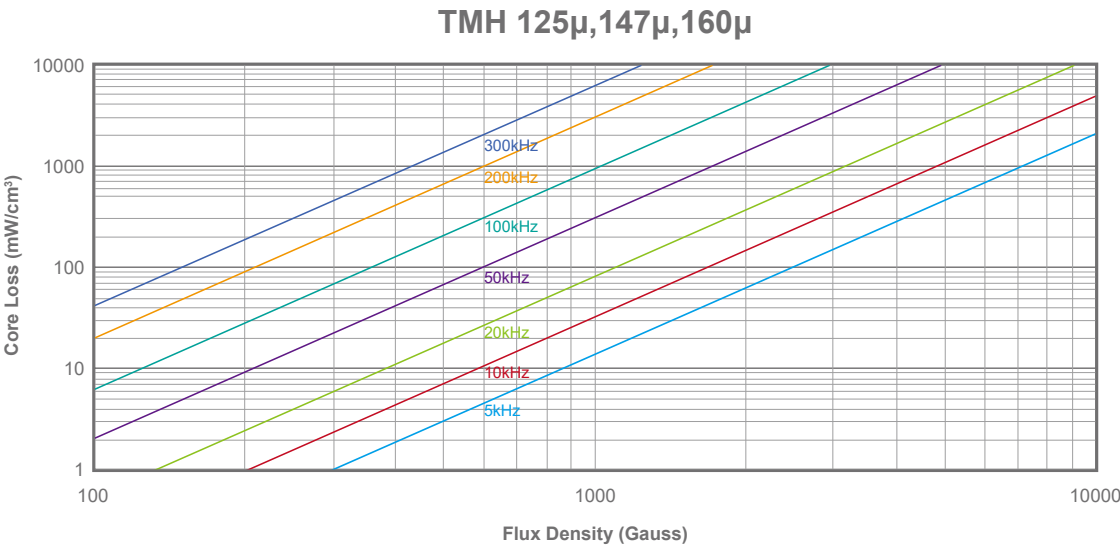
Industrial power supply
Communication power supply
New energy vehicle
Server power supply

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2损耗特性曲线 Core Loss Properties Curves





材料/Material:铁镍复合系列TMHA SERIES

特 征

具有均匀分布式气隙
极高饱和磁通密度 (1.2T)
较低损耗
优异的直流偏置特性
稳定的温度及频率特性

Features

Distributed air gap
Very high saturation flux density (1.2T)
Low core loss
Excellent DC bias performance
Good temperature & frequency stability

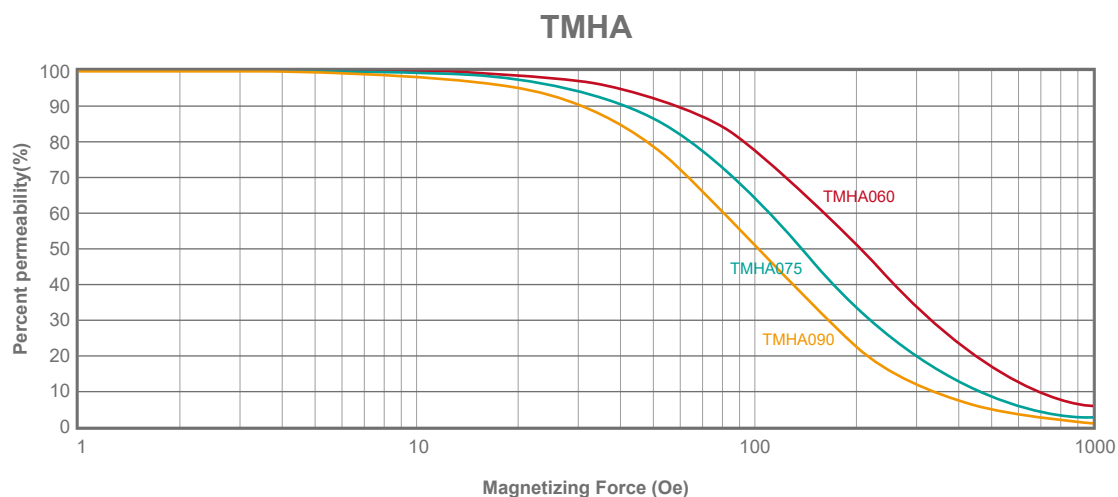
应 用

工业电源
通信电源
新能源汽车
服务器电源
芯片电感

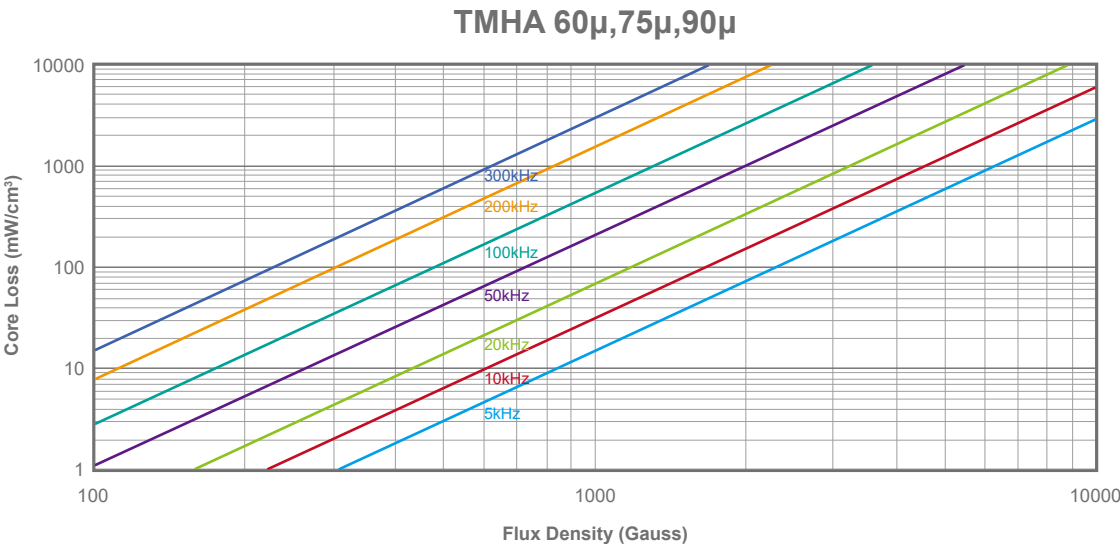
Application

Industrial power supply
Communication power supply
New energy vehicle
Server power supply
Chip inductor

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2损耗特性曲线 Core Loss Properties Curves



材料/Material: 铁镍复合系列TMHB SERIES

特 征

具有均匀分布式气隙
极高饱和磁通密度 (1.3T)
优异的直流偏置特性
低磁致伸缩系数
稳定的温度及频率特性

Features

Distributed air gap
Very high saturation flux density (1.3T)
Excellent DC bias performance
Low magnetostriction
Good temperature & frequency stability

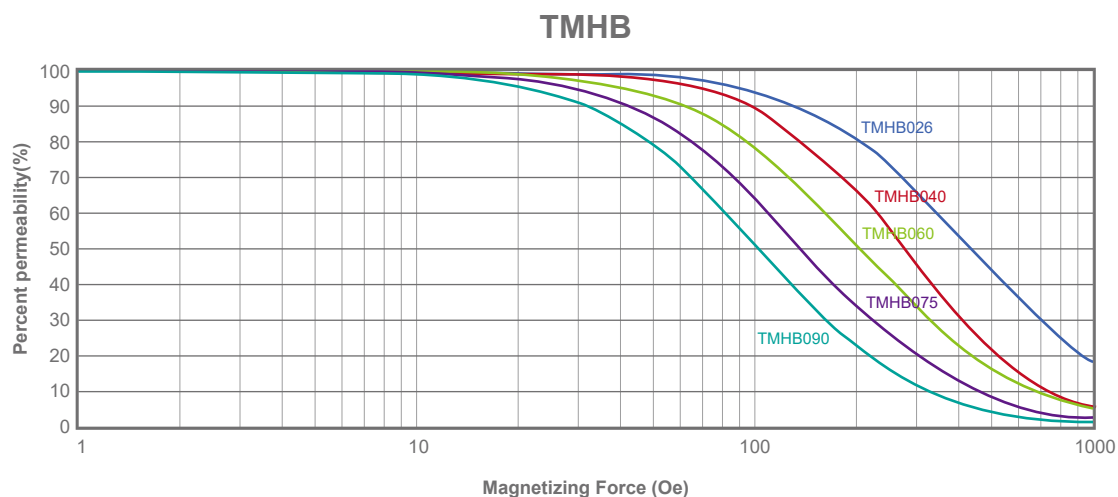
应 用

工业电源
通信电源
新能源汽车
服务器电源

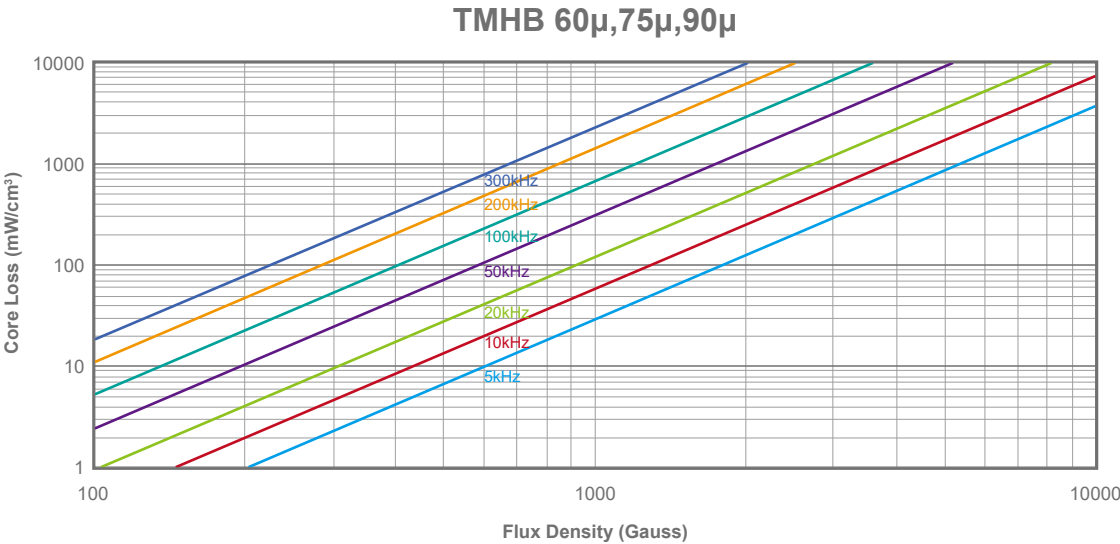
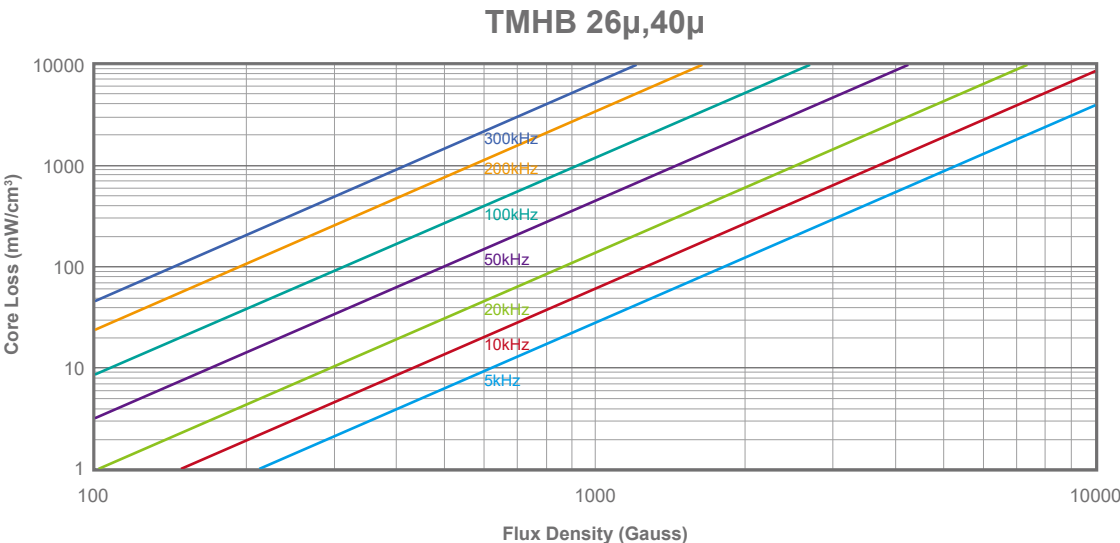
Application

Industrial power supply
Communication power supply
New energy vehicle
Server power supply

1.1 直流偏置曲线 Permeability vs DC Bias Curves



1.2损耗特性曲线 Core Loss Properties Curves



材料/Material:超级铁镍系列TMHG SERIES

特 征

具有均匀分布式气隙
极高饱和磁通密度 (1.5)
优异的直流偏置特性
超低损耗
稳定的温度及频率特性

Features

Distributed air gap
Very high saturation flux density (1.5T)
Excellent DC bias performance
Ultra-low core loss
Good temperature & frequency stability

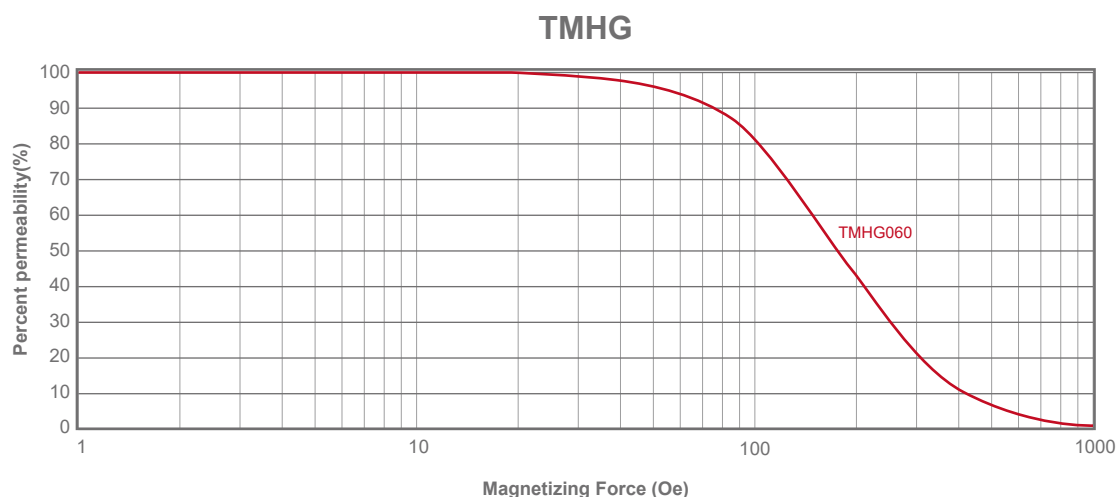
应 用

工业电源
通信电源
新能源汽车
服务器电源
特种电源

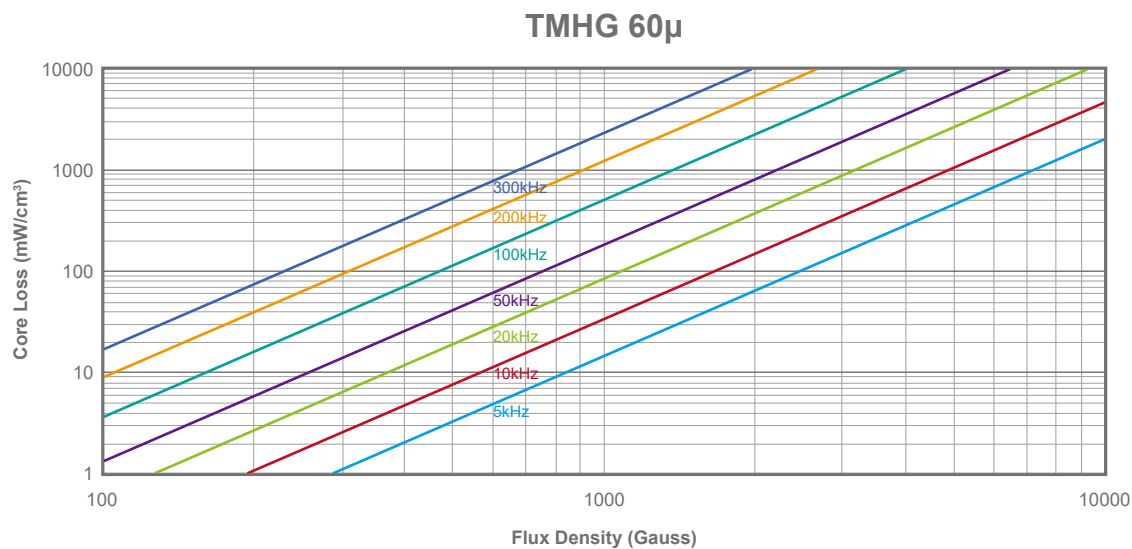
Application

Industrial power supply
Communication power supply
New energy vehicle
Server power supply
Special power supply

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



材料/Material:铁镍钼系列TMM SERIES

特 征

具有均匀分布式气隙
较高的饱和磁通密度 (0.75T)
极低损耗
低磁致伸缩系数
稳定的温度及频率特性

Features

Distributed air gap
High saturation flux density (0.75T)
Very low core loss
Low magnetostriction
Good temperature & frequency stability

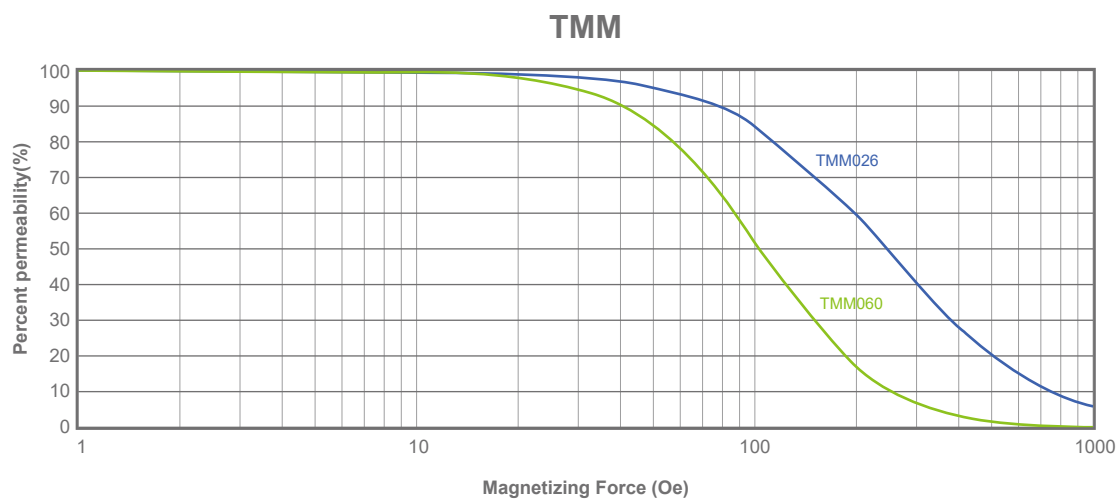
应 用

高效率服务器电源
通信电源

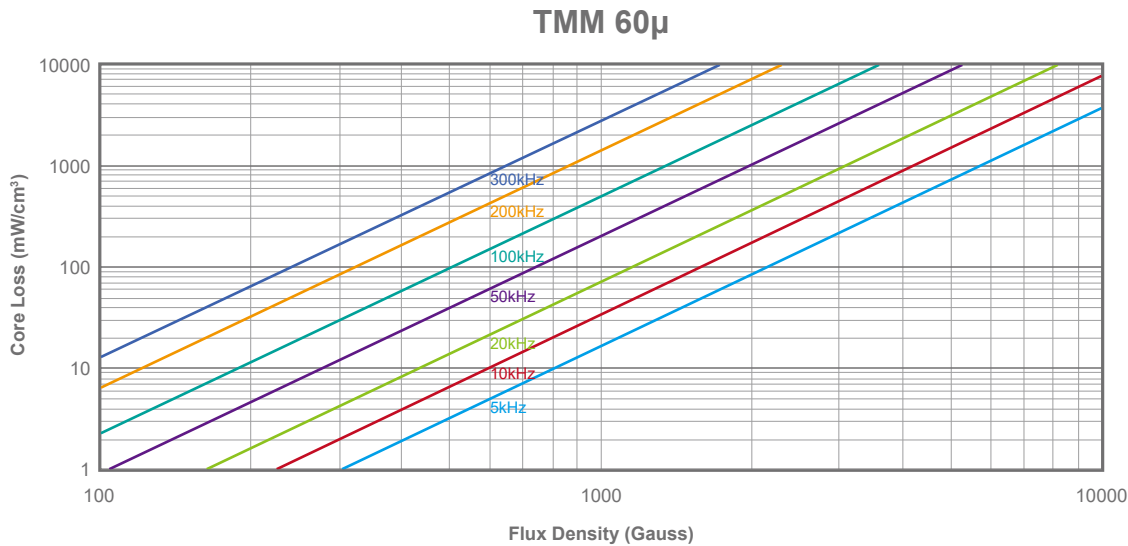
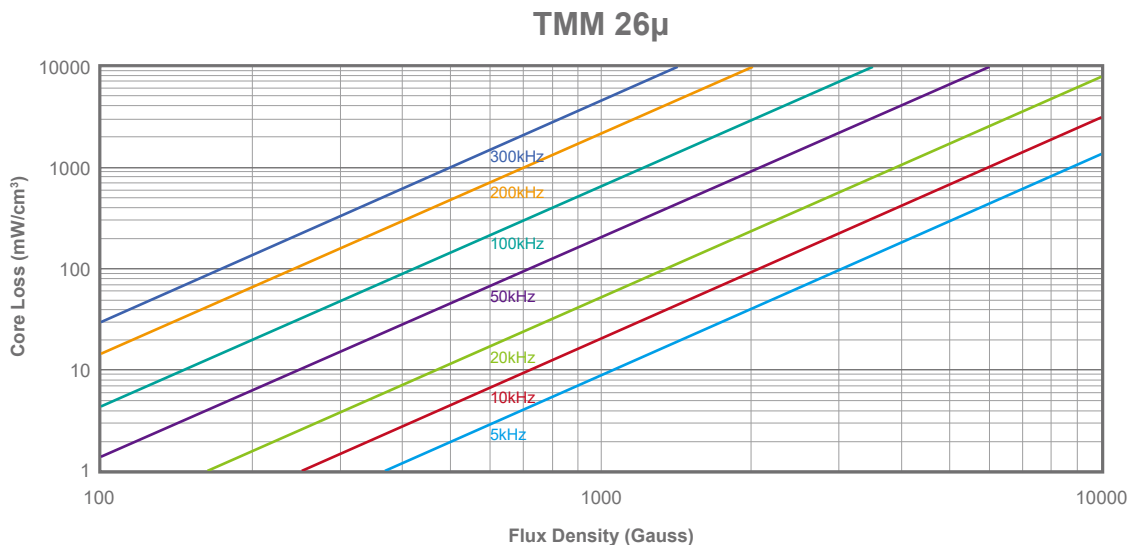
Application

High efficiency server power supply
Communication power supply

1.1直流偏置曲线 Permeability vs DC Bias Curves



1.2 损耗特性曲线 Core Loss Properties Curves



OD6.35mm × ID2.79mm × Ht2.79mm



TMS 063 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	13.61 mm	4.7 mm ²	64 mm ³	4.12 mm ²
B.S.	0.536 in	0.007 in ²	0.004 in ³	0.006 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS063026	26	10	6.35*2.79*2.79	6.99*2.29*3.43
	TMS063060	60	24		
	TMS063090	90	36		
	TMS063125	125	50		
TMF	TMF063026	26	10	6.35*2.79*2.79	6.99*2.29*3.43
	TMF063040	40	17		
	TMF063060	60	24		
	TMF063075	75	30		
	TMF063090	90	36		
TMH	TMH063060	60	24	6.35*2.79*2.79	6.99*2.29*3.43
	TMH063125	125	50		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD6.60mm × ID2.67mm × Ht2.54mm



TMS 066 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	13.63 mm	4.76 mm ²	64.9 mm ³	4.10 mm ²
B.S.	0.537 in	0.007 in ²	0.004 in ³	0.006 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS066026	26	11	6.60*2.67*2.54	7.24*2.16*3.18
	TMS066060	60	26		
	TMS066090	90	39		
	TMS066125	125	54		
TMF	TMF066026	26	11	6.60*2.67*2.54	7.24*2.16*3.18
	TMF066040	40	17		
	TMF066060	60	26		
	TMF066075	75	32		
	TMF066090	90	39		
TMH	TMH066060	60	26	6.60*2.67*2.54	7.24*2.16*3.18
	TMH066125	125	54		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD7.87mm × ID3.96mm × Ht3.18mm



TMS 078 125

Permeability(μ_e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	17.87 mm	5.99 mm ²	109.00 mm ³	9.20 mm ²
B.S.	0.704 in	0.010 in ²	0.007 in ³	0.014 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS078026	26	11	7.87*3.96*3.18	8.51*3.43*3.81
	TMS078060	60	25		
	TMS078090	90	37		
	TMS078125	125	52		
TMF	TMF078026	26	11	7.87*3.96*3.18	8.51*3.43*3.81
	TMF078040	40	16		
	TMF078060	60	25		
	TMF078075	75	31		
	TMF078090	90	37		
TMH	TMH078060	60	25	7.87*3.96*3.18	8.51*3.43*3.81
	TMH078125	125	52		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD9.65mm × ID4.78mm × Ht3.18mm



TMS 096 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	21.80 mm	7.50 mm ²	163.90 mm ³	14.29 mm ²
B.S.	0.858 in	0.012 in ²	0.010 in ³	0.022 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS096026	26	11	9.65*4.78*3.18	10.29*4.27*3.81
	TMS096060	60	25		
	TMS096090	90	38		
	TMS096125	125	53		
TMF	TMF096026	26	11	79.65*4.78*3.18	10.29*4.27*3.81
	TMF096040	40	16		
	TMF096060	60	25		
	TMF096075	75	32		
	TMF096090	90	38		
TMH	TMH096060	60	25	9.65*4.78*3.18	10.29*4.27*3.81
	TMH096125	125	53		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD10.2mm × ID5.08mm × Ht3.96mm



TMS 102 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB,
TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	23.01 mm	9.57 mm ²	220.00 mm ³	16.40 mm ²
B.S.	0.906 in	0.016 in ²	0.014 in ³	0.0255 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS102026	26	14	10.20*5.08*3.96	10.8*4.57*4.6
	TMS102060	60	32		
	TMS102090	90	48		
	TMS102125	125	66		
TMF	TMF102026	26	14	10.20*5.08*3.96	10.8*4.57*4.6
	TMF102040	40	21		
	TMF102060	60	32		
	TMF102075	75	40		
	TMF102090	90	48		
TMH	TMH102060	60	32	10.20*5.08*3.96	10.8*4.57*4.6
	TMH102125	125	66		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD11.2mm × ID6.35mm × Ht3.96mm



TMS 112 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	26.90 mm	9.06 mm ²	243.70 mm ³	27.30 mm ²
B.S.	1.080 in	0.014 in ²	0.015 in ³	0.0423 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS112026	26	11	11.20*6.35*3.96	11.89*5.89*4.72
	TMS112060	60	26		
	TMS112090	90	38		
	TMS112125	125	53		
TMF	TMF112026	26	11	11.20*6.35*3.96	11.89*5.89*4.72
	TMF112040	40	17		
	TMF112060	60	26		
	TMF112075	75	32		
	TMF112090	90	38		
TMH	TMH112060	60	26	11.20*6.35*3.96	11.89*5.89*4.72
	TMH112125	125	53		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD12.7mm × ID7.62mm × Ht4.75mm



TMS 127 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	31.20 mm	10.90 mm ²	360.52 mm ³	38.30 mm ²
B.S.	1.229 in	0.018 in ²	0.022 in ³	0.059 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS127026	26	12	12.70*7.62*4.75	13.46*6.69*5.51
	TMS127060	60	27		
	TMS127090	90	40		
	TMS127125	125	56		
TMF	TMF127026	26	12	12.70*7.62*4.75	13.46*6.69*5.51
	TMF127040	40	18		
	TMF127060	60	27		
	TMF127075	75	34		
	TMF127090	90	40		
TMH	TMH127060	60	27	12.70*7.62*4.75	13.46*6.69*5.51
	TMH127125	125	56		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD16.5mm × ID10.2mm × Ht6.35mm



TMS 165 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	41.10 mm	19.20 mm ²	789.00 mm ³	71.30 mm ²
B.S.	1.619 in	0.030 in ²	0.048 in ³	0.111 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS165026	26	15	16.50*10.20*6.35	17.40*9.53*7.11
	TMS165060	60	35		
	TMS165090	90	52		
	TMS165125	125	72		
TMF	TMF165026	26	15	16.50*10.20*6.35	17.40*9.53*7.11
	TMF165040	40	23		
	TMF165060	60	35		
	TMF165075	75	43		
	TMF165090	90	52		
TMH	TMH165060	60	35	16.50*10.20*6.35	17.40*9.53*7.11
	TMH165125	125	72		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD17.3mm × ID9.65mm × Ht6.35mm



TMS 173 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB,
TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	41.40 mm	23.20 mm ²	960.00 mm ³	57.60 mm ²
B.S.	1.63 in	0.0306 in ²	0.059 in ³	0.089 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS173026	26	19	17.30*9.65*6.35	18.03*9.02*7.11
	TMS173060	60	43		
	TMS173090	90	64		
	TMS173125	125	89		
TMF	TMF173026	26	19	17.30*9.65*6.35	18.03*9.02*7.11
	TMF173040	40	28		
	TMF173060	60	43		
	TMF173075	75	53		
	TMF173090	90	64		
TMH	TMH173060	60	43	17.30*9.65*6.35	18.03*9.02*7.11
	TMH173125	125	89		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD20.3mm × ID12.7mm × Ht6.35mm



TMS 203 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

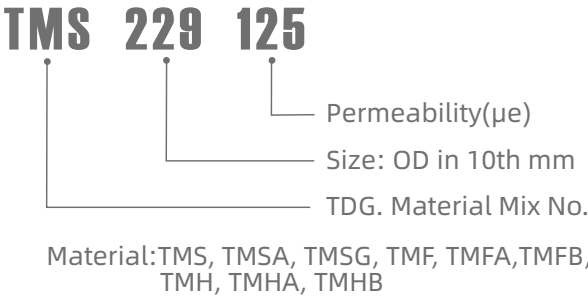
Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	50.90 mm	22.58 mm ²	1150.00 mm ³	114.00 mm ²
B.S.	2.01 in	0.035 in ²	0.070 in ³	0.177 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS203026	26	14	20.30*12.70*6.35	21.10*12.07*7.11
	TMS203060	60	32		
	TMS203090	90	49		
	TMS203125	125	68		
TMF	TMF203026	26	14	20.30*12.70*6.35	21.10*12.07*7.11
	TMF203040	40	21		
	TMF203060	60	32		
	TMF203075	75	41		
	TMF203090	90	49		
TMH	TMH203060	60	32	20.30*12.70*6.35	21.10*12.07*7.11
	TMH203125	125	68		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD22.9mm × ID14.0mm × Ht7.62mm



Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	56.70 mm	33.10 mm ²	1868.00 mm ³	141.00 mm ²
B.S.	2.23 in	0.051 in ²	0.114 in ³	0.218 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL±8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS229026	26	19	22.90*14.00*7.62	23.62*13.34*8.38
	TMS229060	60	43		
	TMS229090	90	65		
	TMS229125	125	90		
TMF	TMF229026	26	19	22.90*14.00*7.62	23.62*13.34*8.38
	TMF229040	40	29		
	TMF229060	60	43		
	TMF229075	75	54		
	TMF229090	90	65		
TMH	TMH229060	60	43	22.90*14.00*7.62	23.62*13.34*8.38
	TMH229125	125	90		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD23.6mm × ID14.4mm × Ht8.89mm



TMS 236 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	58.80 mm	38.80 mm ²	2280.00 mm ³	149.00 mm ²
B.S.	2.32 in	0.061 in ²	0.142 in ³	0.231 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS236026	26	22	23.60*14.40*8.89	24.30*13.77*9.70
	TMS236060	60	51		
	TMS236090	90	76		
	TMS236125	125	105		
TMF	TMF236026	26	22	23.60*14.40*8.89	24.30*13.77*9.70
	TMF236040	40	34		
	TMF236060	60	51		
	TMF236075	75	63		
	TMF236090	90	76		
TMH	TMH236060	60	51	23.60*14.40*8.89	24.30*13.77*9.70
	TMH236125	125	105		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD27.0mm × ID14.7mm × Ht11.2m



TMS 270 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	63.50 mm	65.40 mm ²	4150.00 mm ³	156.00 mm ²
B.S.	2.50 in	0.101 in ²	0.254 in ³	0.242 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS270026	26	32	26.92*14.73*11.18	27.70*14.10*11.99
	TMS270060	60	75		
	TMS270090	90	113		
	TMS270125	125	157		
TMF	TMF270026	26	32	26.92*14.73*11.18	27.70*14.10*11.99
	TMF270040	40	50		
	TMF270060	60	75		
	TMF270075	75	94		
	TMF270090	90	113		
TMH	TMH270060	60	75	26.92*14.73*11.18	27.70*14.10*11.99
	TMH270125	125	157		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD33.0mm × ID19.9mm × Ht10.7mm



TMS 330 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	81.50 mm	67.10 mm ²	5473.00 mm ³	293.00 mm ²
B.S.	3.21 in	0.104 in ²	0.334 in ³	0.454 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS330026	26	28	33.00*19.90*10.70	33.83*19.30*11.61
	TMS330060	60	61		
	TMS330090	90	91		
	TMS330125	125	127		
TMF	TMF330026	26	28	33.00*19.90*10.70	33.83*19.30*11.61
	TMF330040	40	41		
	TMF330060	60	61		
	TMF330075	75	76		
	TMF330090	90	91		
TMH	TMH330060	60	61	33.00*19.90*10.70	33.83*19.30*11.61
	TMH330125	125	127		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD34.3mm × ID23.4mm × Ht8.89mm



TMS 343 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

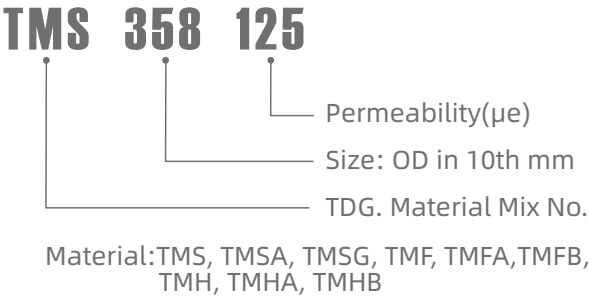
Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	89.50 mm	45.40 mm ²	4060.00 mm ³	401.00 mm ²
B.S.	3.530 in	0.070 in ²	0.249 in ³	0.622 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS343026	26	16	34.30*23.40*8.89	35.10*22.56*9.83
	TMS343060	60	38		
	TMS343090	90	57		
	TMS343125	125	79		
TMF	TMF343026	26	16	34.30*23.40*8.89	35.10*22.56*9.83
	TMF343040	40	25		
	TMF343060	60	38		
	TMF343075	75	47		
	TMF343090	90	57		
TMH	TMH343060	60	38	34.30*23.40*8.89	35.10*22.56*9.83
	TMH343125	125	79		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD35.8mm × ID22.4mm × Ht10.5mm



Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	89.80 mm	67.80 mm ²	6088.00 mm ³	364.00 mm ²
B.S.	3.540 in	0.105 in ²	0.372 in ³	0.564 in ²

规格型号对照表 Dimensions Table and Reference Table

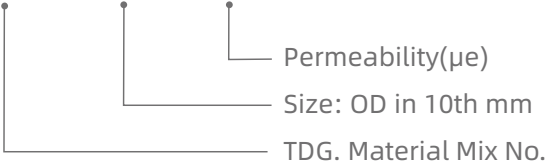
Material	TDC Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS358026	26	24	35.80*22.40*10.50	36.63*21.54*11.28
	TMS358060	60	56		
	TMS358090	90	84		
	TMS358125	125	117		
TMF	TMF358026	26	24	35.80*22.40*10.50	36.63*21.54*11.28
	TMF358040	40	37		
	TMF358060	60	56		
	TMF358075	75	70		
	TMF358090	90	84		
TMH	TMH358060	60	56	35.80*22.40*10.50	36.63*21.54*11.28
	TMH358125	125	117		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD39.9mm × ID24.1mm × Ht14.5mm



TMS 400 125



Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	98.40 mm	107.20 mm ²	10569.66 mm ³	427.00 mm ²
B.S.	3.880 in	0.166 in ²	0.645 in ³	0.662 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL±8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS400026	26	35	39.90*24.10*14.50	40.72*23.30*15.37
	TMS400060	60	81		
	TMS400090	90	121		
	TMS400125	125	168		
TMF	TMF400026	26	35	39.90*24.10*14.50	40.72*23.30*15.37
	TMF400040	40	54		
	TMF400060	60	81		
	TMF400075	75	101		
	TMF400090	90	121		
TMH	TMH400060	60	81	39.90*24.10*14.50	40.72*23.30*15.37
	TMH400125	125	168		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD42.9mm × ID24.2mm × Ht16.26mm



TMS 429 125



Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	102.16 mm	147.50 mm ²	15741.00 mm ³	364.40 mm ²
B.S.	4.040 in	0.229 in ²	0.960 in ³	0.564in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL±8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS429026	26	47	42.90*24.20*16.26	44.00*23.30*17.16
	TMS429060	60	108		
	TMS429090	90	161		
	TMS429125	125	224		
TMF	TMF429026	26	47	42.90*24.20*16.26	44.00*23.30*17.16
	TMF429040	40	75		
	TMF429060	60	108		
	TMF429075	75	135		
	TMF429090	90	161		
TMH	TMH429060	60	108	42.90*24.20*16.26	44.00*23.30*17.16
	TMH429125	125	224		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD46.7mm × ID24.1mm × Ht18.0mm



TMS 467 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	107.40 mm	199.00 mm ²	21300.00 mm ³	427.00 mm ²
B.S.	4.230 in	0.308 in ²	1.300 in ³	0.662 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS467026	26	59	46.70*24.10*18.00	47.63*23.32*18.92
	TMS467060	60	135		
	TMS467090	90	202		
	TMS467125	125	281		
TMF	TMF467026	26	59	46.70*24.10*18.00	47.63*23.32*18.92
	TMF467040	40	90		
	TMF467060	60	135		
	TMF467075	75	169		
	TMF467090	90	202		
TMH	TMH467060	60	81	46.70*24.10*18.00	47.63*23.32*18.92
	TMH467125	125	281		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD50.8mm × ID31.8mm × Ht13.5mm



TMS 508 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	127.30 mm	125.10 mm ²	15930.00 mm ³	750.00 mm ²
B.S.	5.020 in	0.194 in ²	0.972 in ³	1.164 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS508026	26	32	50.80*31.80*13.50	51.69*30.94*14.35
	TMS508060	60	73		
	TMS508090	90	109		
	TMS508125	125	152		
TMF	TMF508026	26	32	50.80*31.80*13.50	51.69*30.94*14.35
	TMF508040	40	49		
	TMF508060	60	73		
	TMF508075	75	91		
	TMF508090	90	109		
TMH	TMH508060	60	73	50.80*31.80*13.50	51.69*30.94*14.35
	TMH508125	125	152		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD57.2mm × ID26.4mm × Ht15.2mm



TMS 571 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	125.00 mm	229.00 mm ²	28677.00 mm ³	514.00 mm ²
B.S.	4.930 in	0.355 in ²	1.750 in ³	0.796 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS571026	26	60	57.20*26.40*15.20	58.00*25.60*16.10
	TMS571060	60	138		
	TMS571090	90	207		
	TMS571125	125	287		
TMF	TMF571026	26	60	57.20*26.40*15.20	58.00*25.60*16.10
	TMF571040	40	92		
	TMF571060	60	138		
	TMF571075	75	175		
	TMF571090	90	207		
TMH	TMH571060	60	138	57.20*26.40*15.20	58.00*25.60*16.10
	TMH571125	125	287		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD62.0mm × ID32.6mm × Ht25.0mm



TMS 610 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA, TMFB, TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	143.70 mm	367.50 mm ²	52810.00 mm ³	772.50 mm ²
B.S.	5.660 in	0.570 in ²	3.223 in ³	1.198 in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS610026	26	83	62.00*32.60*25.00	63.10*31.69*25.91
	TMS610060	60	192		
	TMS610090	90	288		
	TMS610125	125	400		
TMF	TMF610026	26	83	62.00*32.60*25.00	63.10*31.69*25.91
	TMF610040	40	128		
	TMF610060	60	192		
	TMF610075	75	240		
	TMF610090	90	288		
TMH	TMH610060	60	192	62.00*32.60*25.00	63.10*31.69*25.91
	TMH610125	125	400		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD77.8mm × ID49.2mm × Ht12.7mm



TMS 777 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB,
TMH, TMHA, TMHB

Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	200.00 mm	177.00 mm ²	34700.00 mm ³	1799.00 mm ²
B.S.	7.720 in	0.274 in ²	2.118 in ³	2.788in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS777026	26	30	77.80*49.20*12.70	78.90*48.20*13.84
	TMS777060	60	68		
	TMS777090	90	102		
	TMS777125	125	142		
TMF	TMF777026	26	30	77.80*49.20*12.70	78.90*48.20*13.84
	TMF777040	40	45		
	TMF777060	60	68		
	TMF777075	75	85		
	TMF777090	90	102		
TMH	TMH777060	60	68	77.80*49.20*12.70	78.90*48.20*13.84
	TMH777125	125	142		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

OD101.6mm × ID57.2mm × Ht16.5mm



TMS 1016 125

Permeability(μ e)
Size: OD in 10th mm
TDG. Material Mix No.

Material:TMS, TMSA, TMSG, TMF, TMFA,TMFB, TMH, TMHA, TMHB

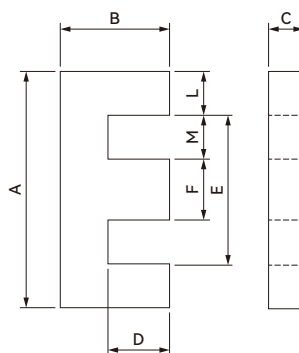
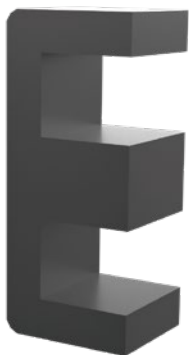
Parameter	Magnetic Path Length	Cross Section Area	Core Volume	Window Area
	Le	Ae	V	W
SI	242.71.00 mm	352.30 mm ²	84495.00 mm ³	2441.13 mm ²
B.S.	9.555 in	0.546 in ²	5.217 in ³	4.818in ²

规格型号对照表 Dimensions Table and Reference Table

Material	TDG Part No.	μ	AL $\pm$ 8%	Dimensions(mm) OD(max)*ID(min)*HT(max)	
				Before coating	After coating
TMS	TMS1016026	26	47.4	101.60*27.20*16.50	103.00*55.75*17.90
	TMS1016060	60	112		
	TMS1016090	90	164		
	TMS1016125	125	228		
TMF	TMF1016026	26	47.4	101.60*27.20*16.50	103.00*55.75*17.90
	TMF1016040	40	72.9		
	TMF1016060	60	112		
	TMF1016075	75	137		
	TMF1016090	90	164		
TMH	TMH1016060	60	112	101.60*27.20*16.50	103.00*55.75*17.90
	TMH1016125	125	228		

材质、形状和尺寸接受定制化 Material, shape and size can be customized

EE型产品 EE CORE



TMS 18 08 E - 090

Material Code _____

Size(mm) A _____

Size(mm) B _____

Permeability _____

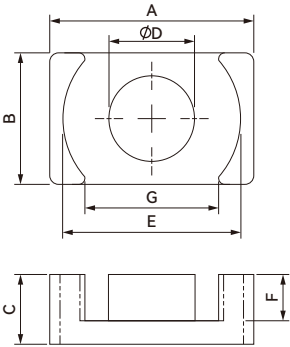
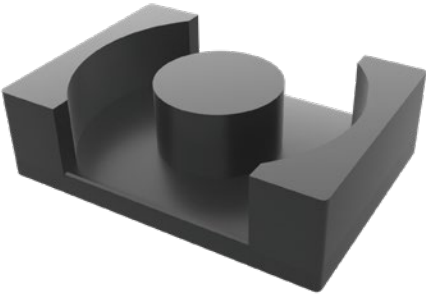
E type Core _____

规格型号对照表 Dimensions Table and Reference Table

TDG Part No.	Dimensions(mm)								Le (mm)	Ae (mm ²)	Ve (mm ³)	AL(nH/N2)±8%			
	A	B	C	D	E	F	L	M				26μ	40μ	60μ	90μ
1808E	19.3	8.1	4.78	5.45	13.9	4.78	3.39	4.65	40.1	22.8	914	26	35	48	69
2510E	25.4	9.53	6.53	6.22	18.8	6.22	3.17	6.25	48.5	38.5	1867	39	52	70	100
3017E	30.4	15.01	7.06	9.7	19.5	6.96	5.11	6.46	65.6	60.1	3943	33	46	71	92
3515E	34.54	14.1	9.35	9.65	25.3	9.32	4.45	7.87	69.4	84	5830	56	75	102	146
4017E	40.9	16.5	12.5	10.4	28.3	12.5	6	7.9	77.5	152	11780	88	119	163	234
4321E	42.8	21.1	10.8	15	30.4	11.9	5.95	9.27	98.4	128	12595	56	76	105	151
5528E	54.9	27.6	20.6	18.5	37.5	16.8	8.38	10.3	123	350	43050	116	157	219	
6532E	65.1	32.5	27	22.2	44.2	19.7	10	12.1	147	540	79380	162	230	300	
7228E	72.39	27.94	19.05	17.78	52.63	19.05	9.52	16.89	137	368	50300	130	173	236	
8038E	80.1	38.1	19.81	28.14	59.28	19.81	9.91	19.81	185	389	71965	103	145	190	

材质、形状和尺寸接受定制化 Material, shape and size can be customized

EQ型产品 EQ CORE



TMF060 - EQ 26.5 / 19.5 / 7.5

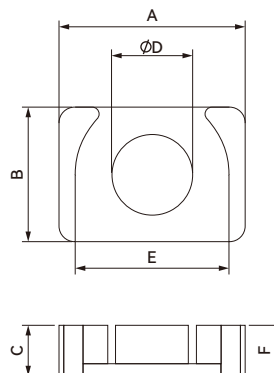
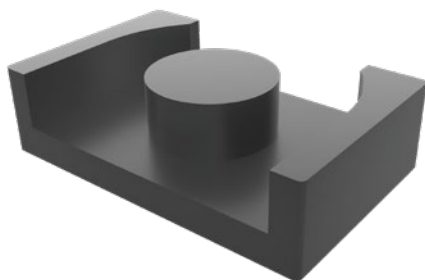
Material _____ Size(mm) C
 EQ type Core _____ Size(mm) B
 Size(mm) A _____

规格型号对照表 Dimensions Table and Reference Table

Part Number	Dimensions(mm)							Le (mm)	Ae (mm ²)	Ve (mm ³)	AL(nH/N2)±8%		
	A	B	C	D	E	F	G				26μ	40μ	60μ
EQ26.5/19.0/10.1	26.5	19	10.1	12	22.6	6.8	16	54.7	119.8	6553.1	72	110	165
EQ26.5/19.0/12.4	26.5	19	12.4	12	22.6	9.1	16	63.9	119.8	7655.2	61	94	141
EQ32.0/22.0/10.3	32	22	10.3	13.5	27.6	6.6	20	60.3	152.3	9183.7	83	127	190
EQ32.0/22.0/15.2	32	22	15.2	13.5	27.6	11.5	20	79.9	152.3	12168.8	62	96	144
EQ36.0/26.0/17.4	36	26	17.4	14.4	32	13.4	22.2	94.7	180.8	17121.8	62	96	144
EQ41.5/28.0/19.9	41.5	28	19.9	14.9	36.5	15.4	27.5	115.2	199.7	23005.4	57	87	131
EQ50.0/32.0/25.0	50	32	25	20	44	19.5	33.9	133.4	314.1	41900.9	77	118	178

材质、形状和尺寸接受定制化 Material, shape and size can be customized

ER型产品 ER CORE



TMF060 - ER 50.6 / 32.0 / 13.5

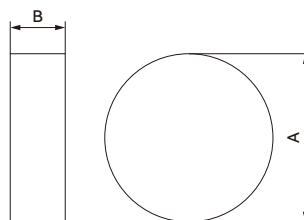
Material _____ Size(mm) C
 EQ type Core _____ Size(mm) B
 Size(mm) A _____

规格型号对照表 Dimensions Table and Reference Table

Part Number	Dimensions(mm)						Le (mm)	Ae (mm ²)	Ve (mm ³)	AL(nH/N2)±8%		
	A	B	C	D	E	F				26μ	40μ	60μ
ER50.6/32.0/13.5	50.6	32	13.5	19	7.9	41.3	74.7	312.3	23321.3	136	210	315
ER50.6/32.0/15.5	50.6	32	15.5	19	10.2	41.3	83.7	303.7	25419.7	118	182	273

材质、形状和尺寸接受定制化 Material, shape and size can be customized

AR型产品 AR CORE



TMF060 - AR 13.5 / 5

Material _____ Size(mm) B
 AR type Core _____ Size(mm) A

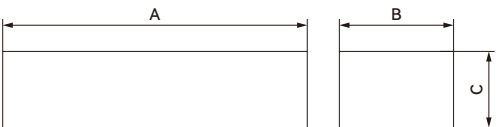
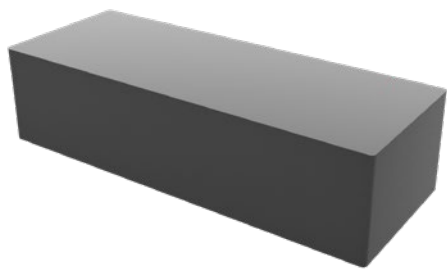
规格型号对照表 Dimensions Table and Reference Table

Part Number	A(mm)	B(mm ³)
AR13.5/5	13.5±0.3	5.0±0.3
AR21/5	21.0±0.3	5.0±0.3
AR21/25	21.0±0.3	25.0±0.3
AR25/5	25.0±0.3	5.0±0.3
AR25/25	25.0±0.3	25.0±0.3
AR28/5	28.0±0.3	5.0±0.3
AR28/25	28.0±0.3	25.0±0.3
AR30/5	30.0±0.3	5.0±0.3
AR30/25	30.0±0.3	25.0±0.3
AR33/5	33.0±0.3	5.0±0.3
AR33/25	33.0±0.3	25.0±0.3

Part Number	A(mm)	B(mm ³)
AR40/5	40.0±0.4	5.0±0.3
AR40/20	40.0±0.4	20.0±0.3
AR51/5	51.0±0.5	5.0±0.3
AR51/18	51.0±0.5	18.0±0.3
AR61/5	61.0±0.5	5.0±0.3
AR61/13	61.0±0.5	13±0.3
AR78/5	78.0±0.6	5.0±0.3
AR78/10	78.0±0.6	10.0±0.3
AR84/5	84.0±0.6	5.0±0.3
AR84/10	84.0±0.6	10.0±0.3

材质、形状和尺寸接受定制化 Material, shape and size can be customized

块型产品 BLOCK CORE



TMS 50 30 15 B 060

Material _____ Permeability
Size(mm) A _____ Block Core
Size(mm) B _____ Size(mm) C

规格型号对照表 Dimensions Table and Reference Table

TDG Part No.	Dimensions(mm)		
	A	B	C
503015B	50	30	15
503020B	50	30	20
552820B	55	28	20
603015B	60	30	15
603020B	60	30	20
703015B	70	30	15
703020B	70	30	20
803015B	80	30	15
803020B	80	30	20

材质、形状和尺寸接受定制化 Material, shape and size can be customized

► Effective Permeability 有效磁导率

μ_e : 有效磁导率 Effective Permeability

B: 磁通量密度 Flux Density (Gauss)

H: 磁场强度 Magnetizing Force (Oe)

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

► Inductance and Inductance Factor 电感量及电感系数

L: 电感量 Inductance (H)

μ_e : 有效磁导率 Effective Permeability

N: 电感系数 Inductance Coefficient

A_L : 电感系数 Inductance Coefficient

A_e : 磁芯有效截面积 Effective Area (cm²)

l_e : 有效磁路长度 Effective length (cm)

$$A_L = \frac{L}{N^2}$$

$$L = \frac{0.4\pi\mu_e A_e}{l_e 10^{-8}} \times N^2$$

► Magnetization Field 磁场强度

H: 磁场强度 Magnetizing force (Oersteds)

N: 绕线匝数 Turn

I: 电流 Current (A)

l_e : 有效磁路长度 Effective length (cm)

$$H = \frac{0.4\pi \cdot NI}{l_e}$$

► (R_{DC}) Winding DC Resistance 直流绕线电阻

l_w : 单匝平均绕线长度 Length of per turn (cm/Ts)

r: 线的电阻率 Line resistivity (10⁻³ Ω·in⁻¹)

N: 绕线匝数 Turn

$$R_{DC} = \frac{l_w N r}{1200}$$

► Quality Factor 品质因数

Q: 品质因数 Quality fator

L: 电感量 Inductance(H)

ω : Angular velocity $2\pi f$ (Hz)

R_{dc} : 绕线电阻 Winding resistivity(Ω)

R_{ac} : 磁损电阻 Hysteresis losses resistivity(Ω)

R_{cd} : 绕线中介电损耗电阻 Dielectric loss resistivity(Ω)

$$Q = \frac{\omega L}{R_{dc} + R_{ac} + R_{cd}}$$

► Magnetic Flux Density 磁通密度

B_{max} : 最大磁通密度 Max flux density (Gauss)

E_{rms} : 通过线圈的电压 Max volt (Volts)

N: 绕线匝数 Turn

A_e : 磁心有效截面积 Effective area (cm²)

f: 频率 Frequency (Hz)

$$B_{max} = \frac{E_{rms} 10^8}{4.44 f A_e N}$$

► Magnetic Core Loss 磁心损耗

a=磁滞损耗系数 Hysteresis losses coefficient

c=剩余损耗系数 Surplus losses coefficient

e=涡流损耗系数 Eddy-current losses coefficient

f: 频率 Frequency (Hz)

B_{max} : 最大磁通密度 Max flux density (Gauss)

L: 电感量 Inductance (H)

μ_e : 有效磁导率 Effective Permeability

$$\frac{R_{ac}}{\mu_e L} = a B_{max} f + c f + e f^2$$

在高频条件下，涡流损耗是主要损耗。而在低频下磁滞损耗是主要损耗。

Under high frequency conditions, eddy current loss is the main loss.

Hysteresis loss is the main loss at low frequency.

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ICP等离子发射光谱仪
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PERFORMANCE TEST 性能测试



B-H分析仪
B-H analyzer



HP 4284A 精密LCR测试仪
HP 4284A precision LCR tester



网络频谱阻抗分析仪
Network/spectrum/impedance analyzer



MATS软磁直流测试仪
MATS Soft magnetic DC Tester

PERFORMANCE TEST

可靠性实验测试

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High-low
Temperature
Test Chamber



金相显微镜
Metallographic
Microscope



高低温冷热冲击箱
High and low
temperature test box



电动振动台
Electric Vibrator



高低温交变湿热箱
High and low temperature
alternating test box





MAGNETIC POWDER CORES 2024

2024金属磁粉心

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