



標準材質特性

Material Characteristics

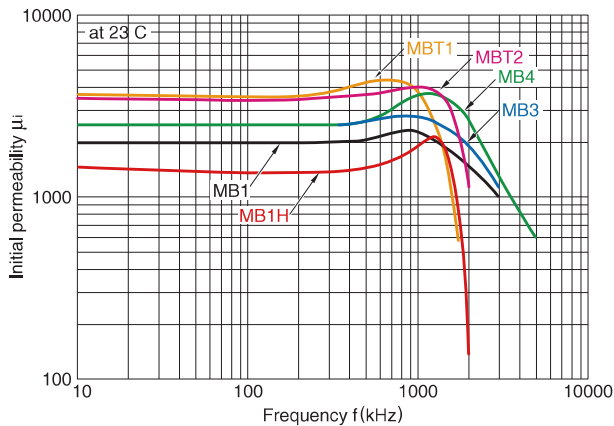
材質名 Material			MB1	MB1H	MB3	MB4	MBT1	MBT2
初透磁率 Initial permeability	μ_i	23°C	2000±25%	1600±25%	2500±25%	2500±25%	3400±25%	3300±25%
実効飽和磁束密度(1200A/m) Saturation flux density at 1200A/m	Bms (mT)	23°C	510	540	510	520	510	530
		60°C	470	505	450	470	460	470
		100°C	420	460	390	400	390	400
実効飽和残留磁束密度 Remanence	Brms (mT)	23°C	310	300	130	130	90	75
		60°C	170	170	90	88	70	55
		100°C	80	80	55	54	60	45
実効飽和保磁力 Coercivity	Hcms (A/m)	23°C	14.0	16.1	14.3	12.7	9.0	8.0
		60°C	9.4	10.5	10.3	8.0	7.0	6.0
		100°C	6.1	7.3	8.8	6.4	6.0	5.0
パワーロス(100kHz, 200mT) Power loss at 100kHz, 200mT	Pcv (kW/m ³)	23°C	870(900max.)	980(1070max.)	650(700max.)	575(630max.)	395(450max.)	370(425max.)
		60°C	600(620max.)	600(670max.)	440(500max.)	375(430max.)	325(430max.)	310(365max.)
		100°C	420(440max.)	380(450max.)	350(410max.)	270(300max.)	340(380max.)	300(340max.)
		120°C	475(490max.)	550(630max.)	390(500max.)	350(400max.)	390(430max.)	360(410max.)
キュリー温度 Curie temperature	Tc (°C)		255min.	300min.	215min.	215min.	230min.	215min.
抵抗率 Resistivity	ρ ($\Omega\cdot\text{m}$)		6min.	6min.	6min.	4.5min.	4min.	4min.
密度 Density	d (kg/m ³)		4.9×10 ³	4.9×10 ³	4.9×10 ³	4.9×10 ³	4.8×10 ³	4.8×10 ³

1A/m=4 π ×10⁻³Oe, 1mT=10Gauss

材質評価コア(R31/19/8Aリングコア)における特性を示しています。

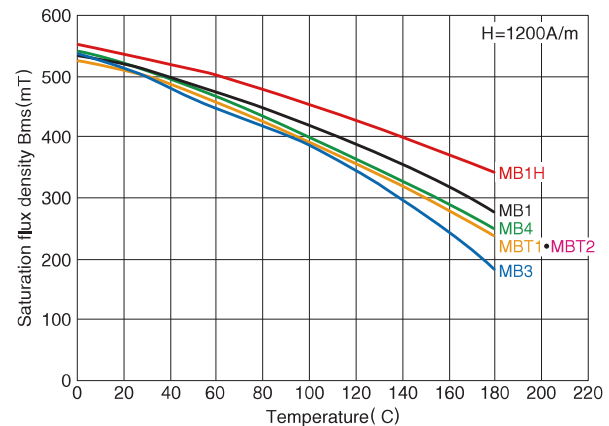
μ_i -周波数特性

Permeability vs. Frequency(Typical)



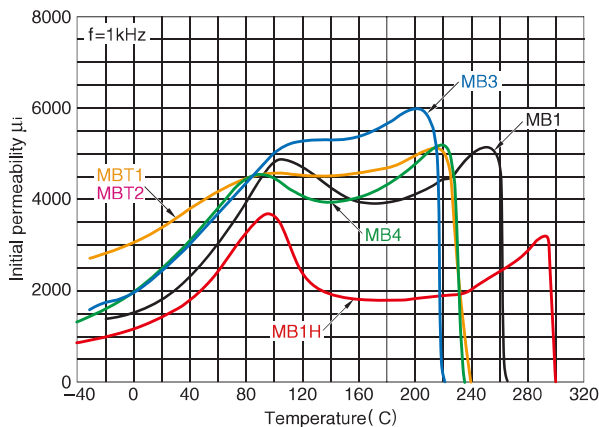
Bms-温度特性

Saturation flux density vs. Temperature(Typical)



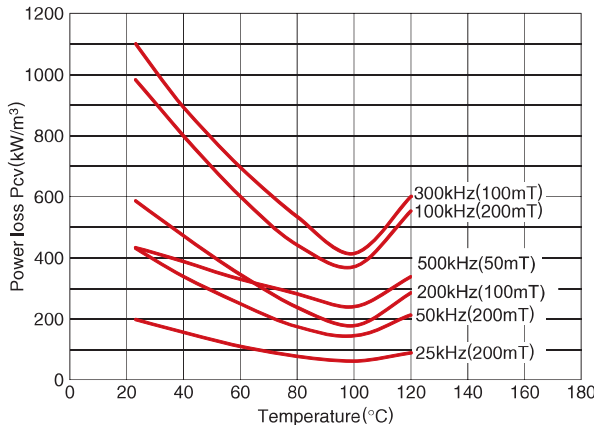
μ_i -温度特性

Permeability vs. Temperature(Typical)

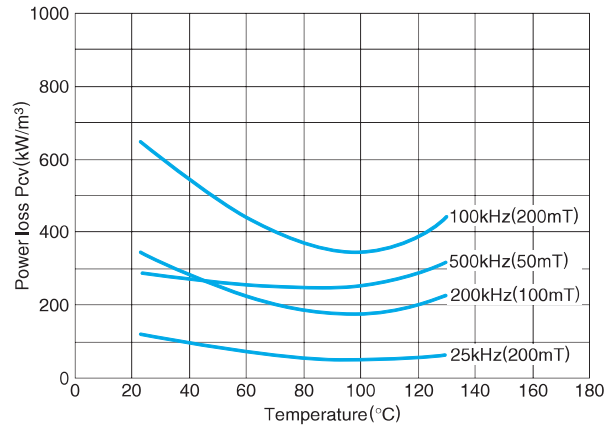


Specifications which provide more details for the proper and safe use of the described product are available upon request.
All specifications are subject to change without notice.

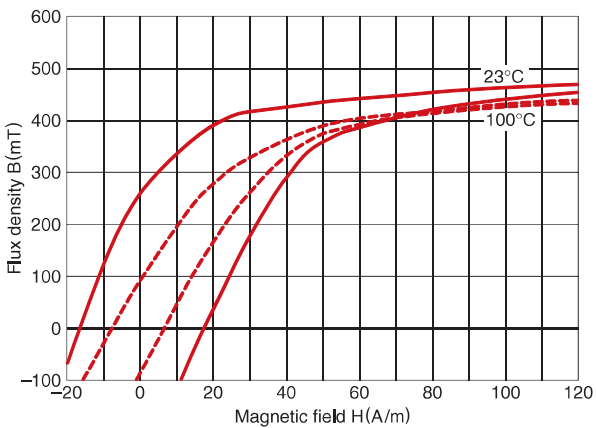
MB1H パワーロス-温度特性
MB1H Power loss vs. Temperature(Typical)



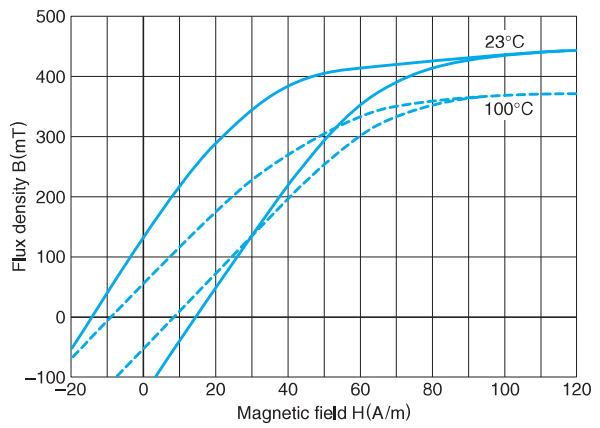
MB3 パワーロス-温度特性
MB3 Power loss vs. Temperature(Typical)



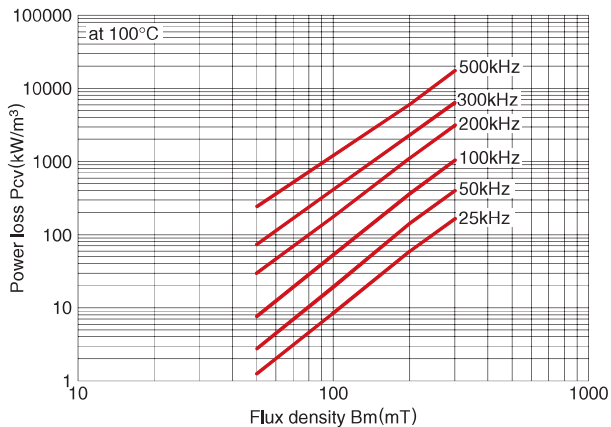
MB1H 直流ヒステリシス特性
MB1H Static magnetization curves(Typical)



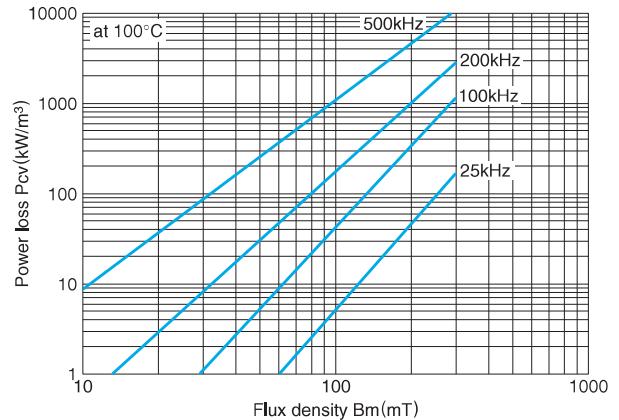
MB3 直流ヒステリシス特性
MB3 Static magnetization curves(Typical)



MB1H パワーロス-磁束密度特性
MB1H Power loss vs. Flux density(Typical)

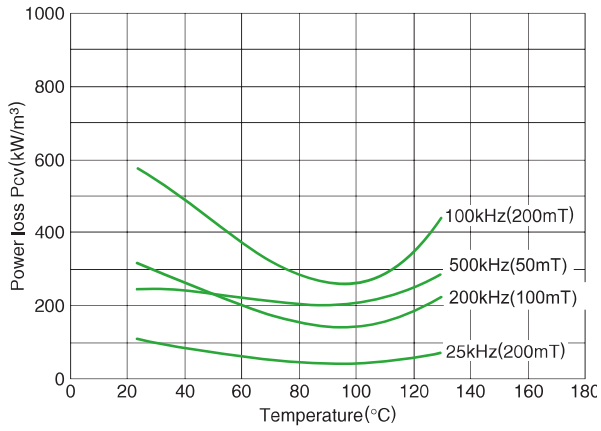


MB3 パワーロス-磁束密度特性
MB3 Power loss vs. Flux density(Typical)



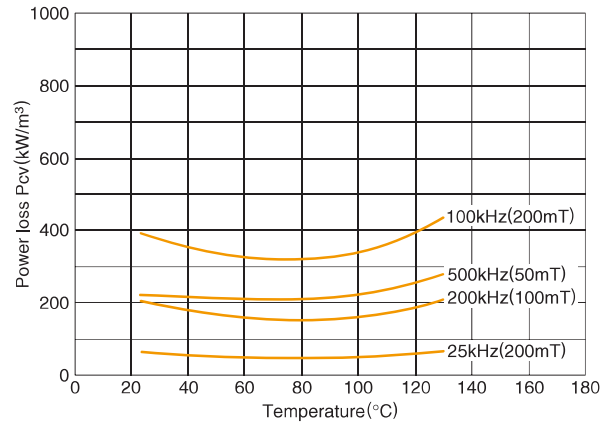
MB4 パワーロス-温度特性

MB4 Power loss vs. Temperature(Typical)



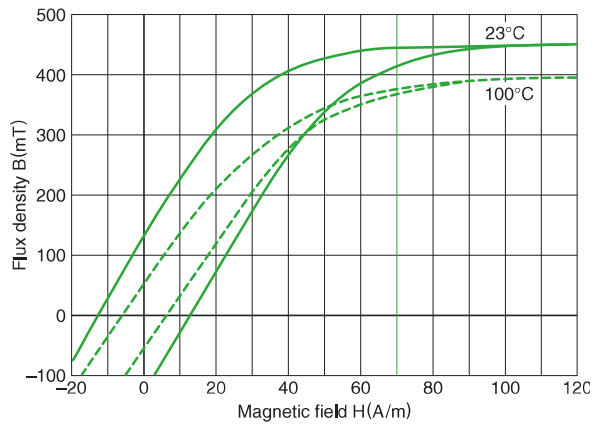
MBT1 パワーロス-温度特性

MBT1 Power loss vs. Temperature(Typical)



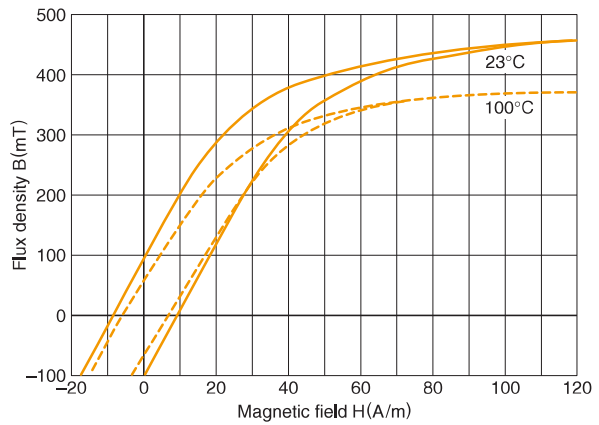
MB4 直流ヒステリシス特性

MB4 Static magnetization curves(Typical)



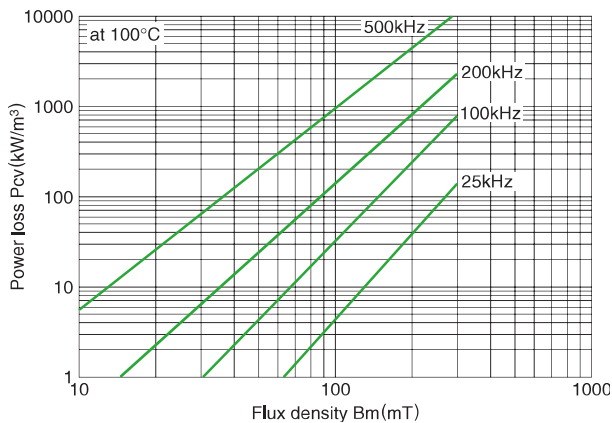
MBT1 直流ヒステリシス特性

MBT1 Static magnetization curves(Typical)



MB4 パワーロス-磁束密度特性

MB4 Power loss vs. Flux density(Typical)



MBT1 パワーロス-磁束密度特性

MBT1 Power loss vs. Flux density(Typical)

