



標準材質特性

Material Characteristics

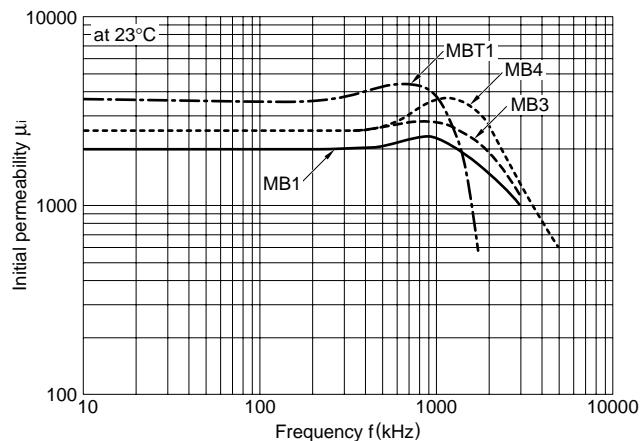
材質名 Material			MB1	MB3	MB4	MBT1
初透磁率 Initial permeability	μ_i	23°C	2000±25%	2500±25%	2500±25%	3400±25%
実効飽和磁束密度(1200A/m) Saturation flux density at 1200A/m	Bms (mT)	23°C	510	510	520	510
		60°C	470	450	470	460
		100°C	420	390	400	390
実効飽和残留磁束密度 Remanence	Brms (mT)	23°C	310	130	130	90
		60°C	170	90	88	70
		100°C	80	55	54	60
実効飽和保磁力 Coercivity	Hcms (A/m)	23°C	14.0	14.3	12.7	9.0
		60°C	9.4	10.3	8.0	7.0
		100°C	6.1	8.8	6.4	6.0
パワーロス(100kHz, 200mT) Power loss at 100kHz, 200mT	Pcv (kW/m ³)	23°C	900max.	700max.	630max.	450max.
		60°C	620max.	500max.	430max.	430max.
		100°C	440max.	410max.	300max.	380max.
		120°C	490max.	500max.	400max.	430max.
キュリー温度 Curie temperature	Tc (°C)		255min.	215min.	215min.	230min.
抵抗率 Resistivity	ρ (Ω -m)		6min.	6min.	4.5min.	4min.
密度 Density	d (kg/m ³)		4.9×10 ³	4.9×10 ³	4.9×10 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。

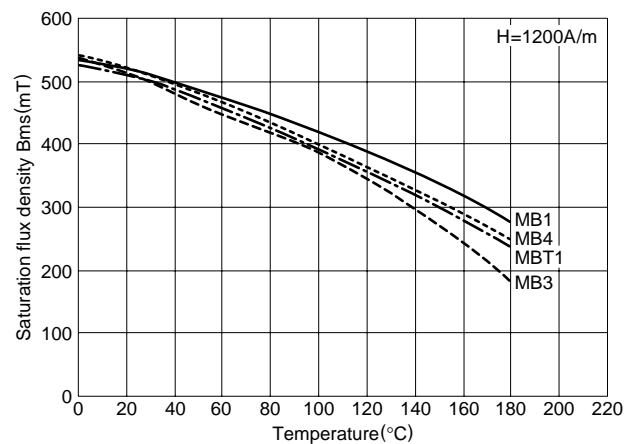
μ_i -周波数特性

Permeability vs. Frequency(Typical)



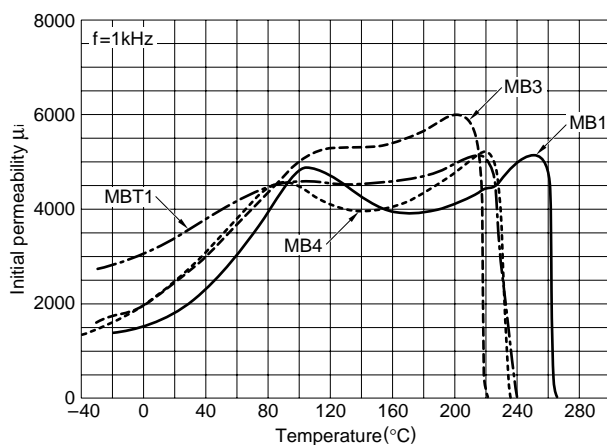
Bms-温度特性

Saturation flux density vs. Temperature(Typical)



μ_i -温度特性

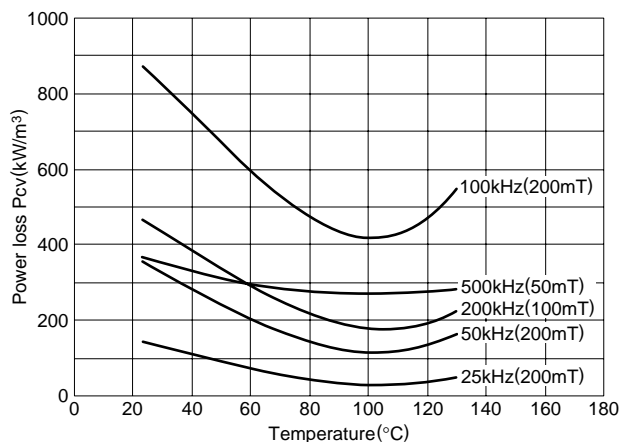
Permeability vs. Temperature(Typical)





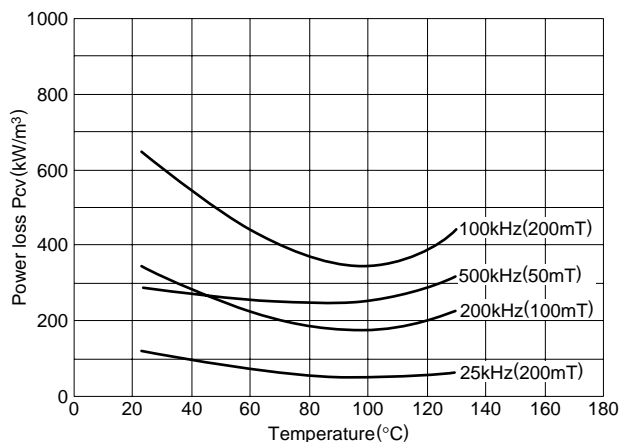
MB1 パワーロス-温度特性

MB1 Power loss vs. Temperature(Typical)



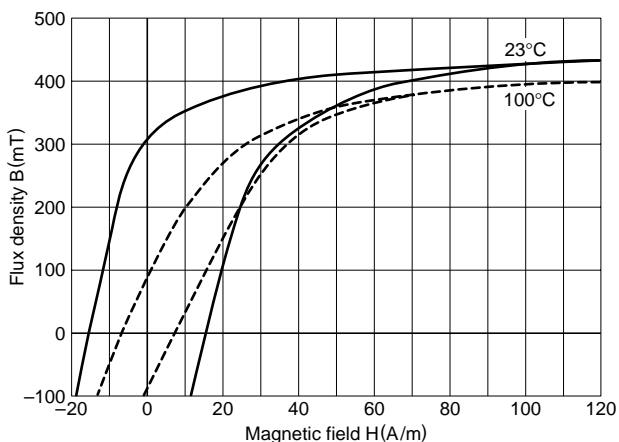
MB3 パワーロス-温度特性

MB3 Power loss vs. Temperature(Typical)



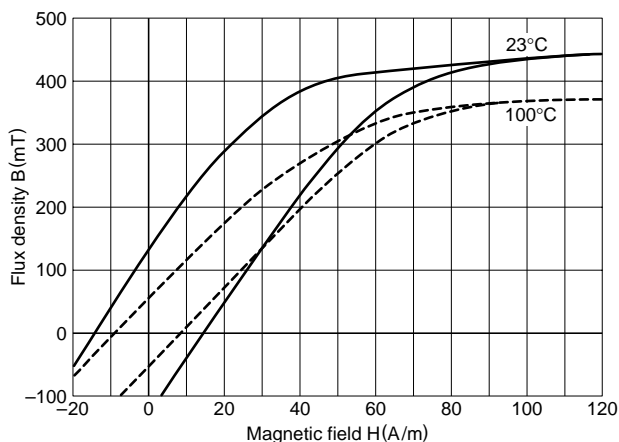
MB1 直流ヒステリシス特性

MB1 Static magnetization curves(Typical)



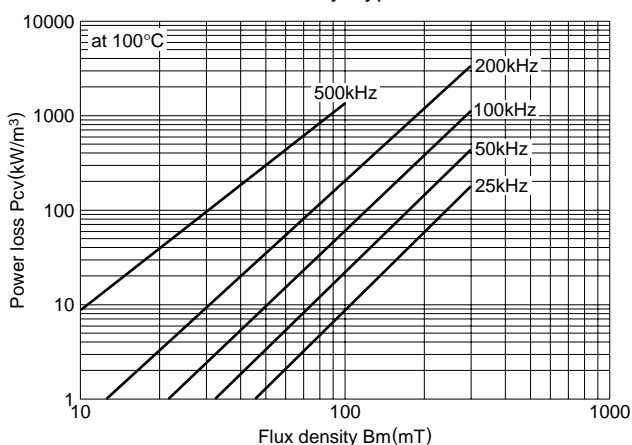
MB3 直流ヒステリシス特性

MB3 Static magnetization curves(Typical)



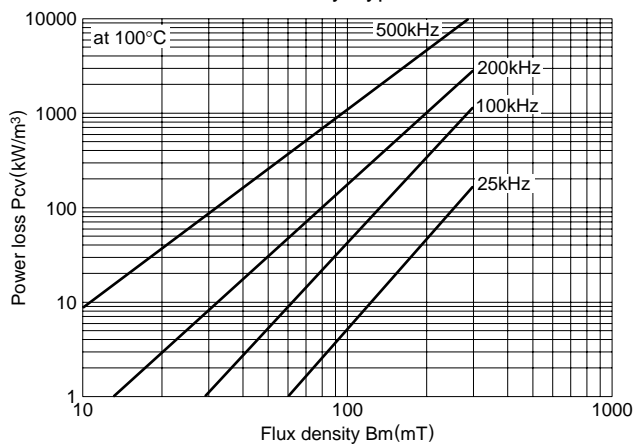
MB1 パワーロス-磁束密度特性

MB1 Power loss vs. Flux density(Typical)



MB3 パワーロス-磁束密度特性

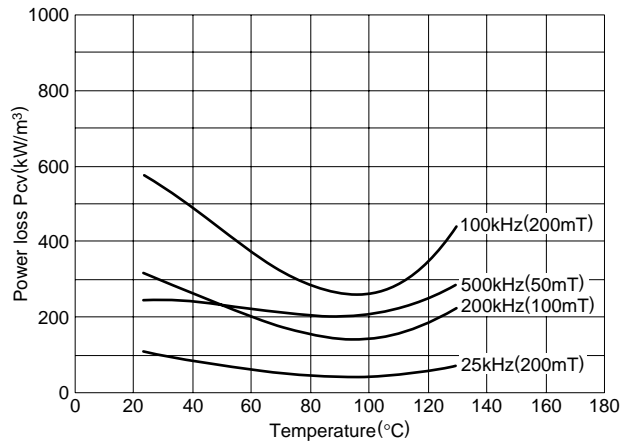
MB3 Power loss vs. Flux density(Typical)





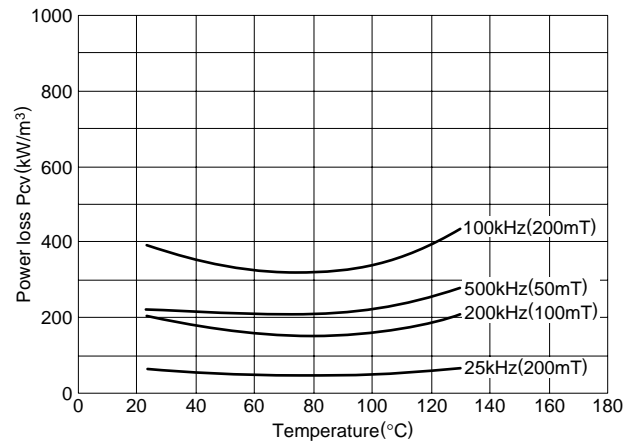
MB4 パワーロス-温度特性

MB4 Power loss vs. Temperature(Typical)



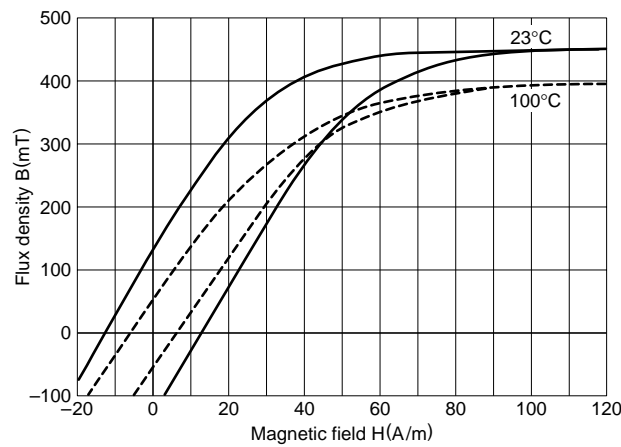
MBT1 パワーロス-温度特性

MBT1 Power loss vs. Temperature(Typical)



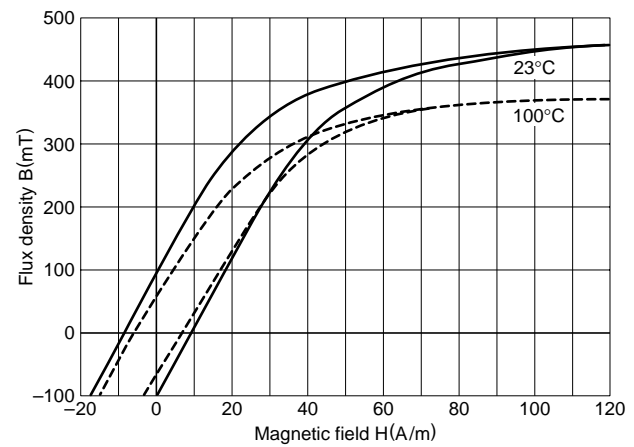
MB4 直流ヒステリシス特性

MB4 Static magnetization curves(Typical)



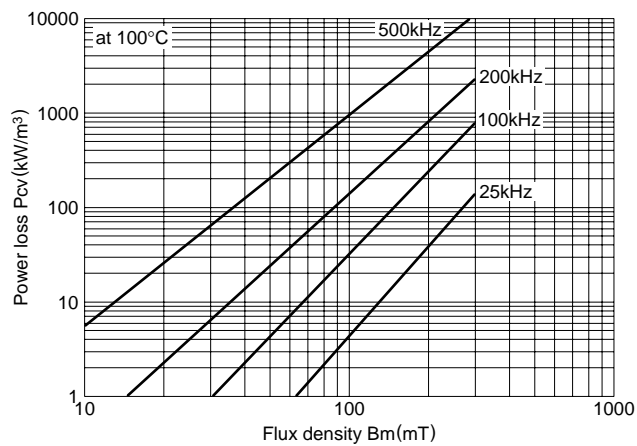
MBT1 直流ヒステリシス特性

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)

