

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:4F1
MANUFACTURER:FERROXCUBE



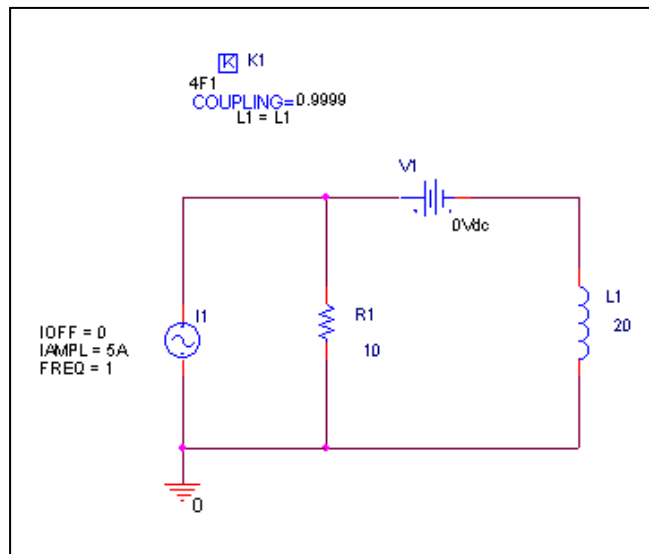
Bee Technologies Inc.

MAGNETIC CORE

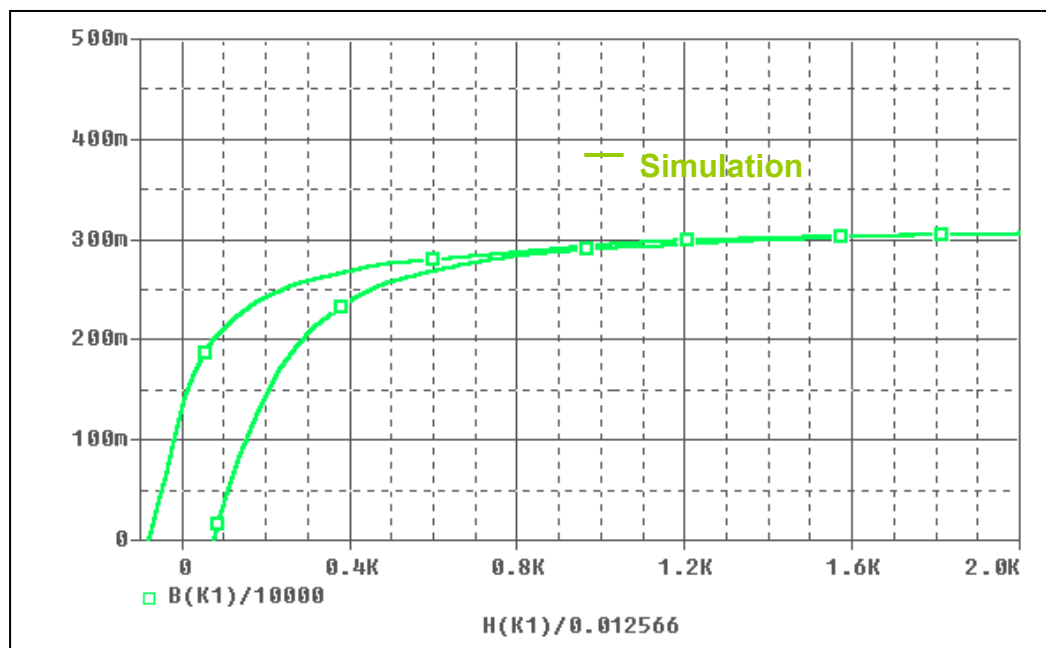
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

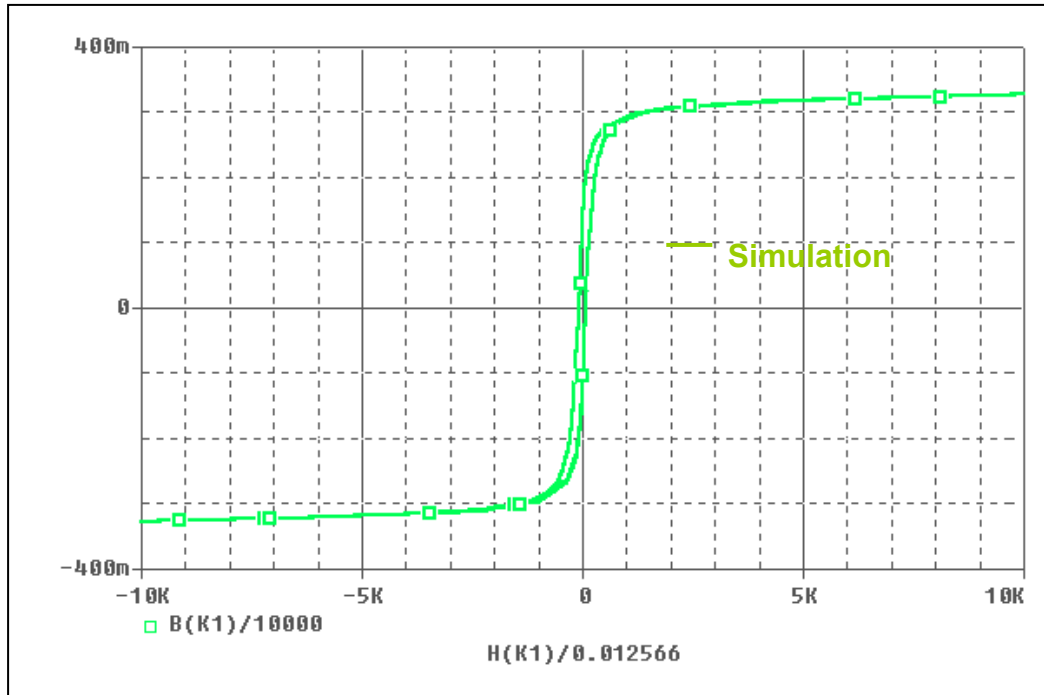
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
200	235	241.154	2.619
360	265	264.013	0.372
520	285	276.942	2.827
680	292	282.576	3.227
840	295	288.211	2.301
1000	298	293.845	1.394
1200	299	298.501	0.167
1400	300	301.054	0.351
1800	302	305.636	1.204
2000	304	307.021	0.994
360	220	226.825	3.102
520	270	259.836	3.764
680	288	275.689	4.275
840	293	284.568	2.878
1000	298	290.43	2.540
1200	299	295.61	1.134
1400	300	299.13	0.290
1800	302	303.945	0.644
2000	304	306.018	0.664