

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:4E1
MANUFACTURER:FERROXCUBE



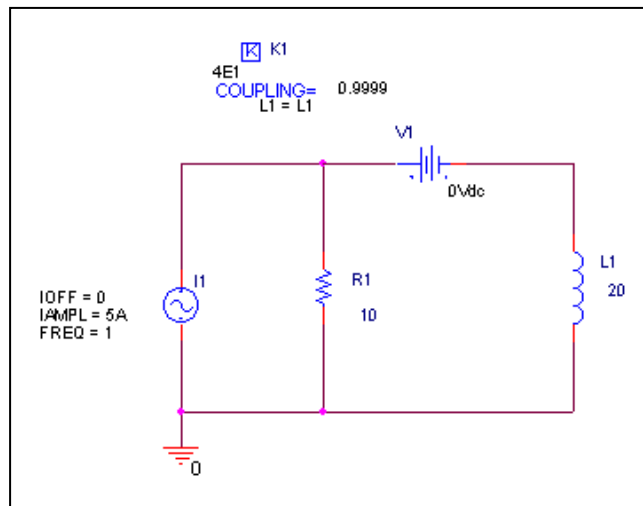
Bee Technologies Inc.

MAGNETIC CORE

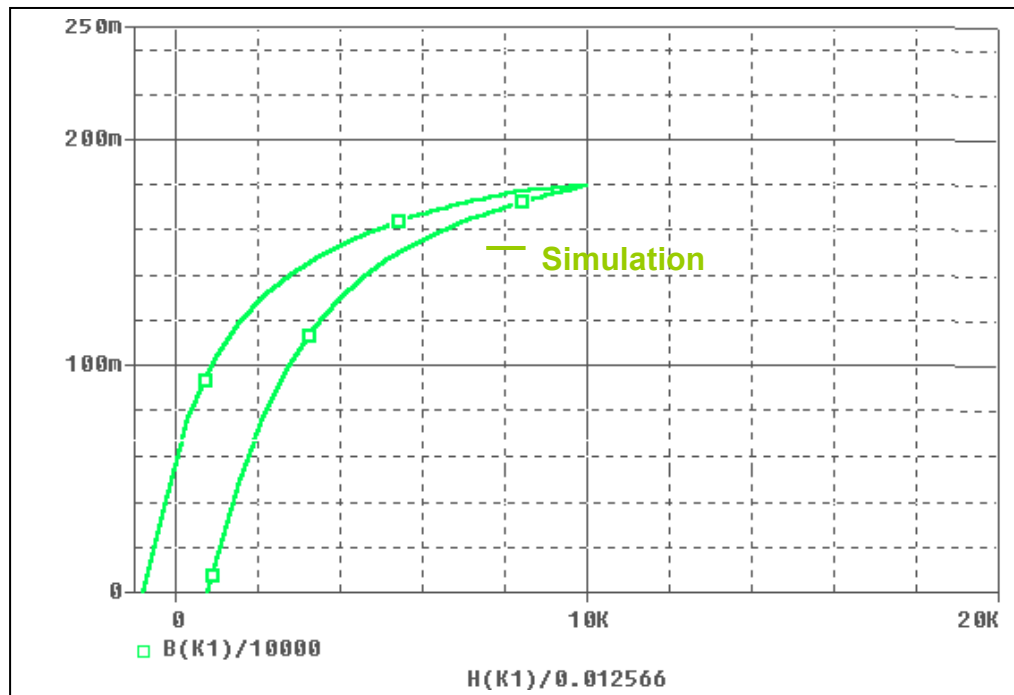
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

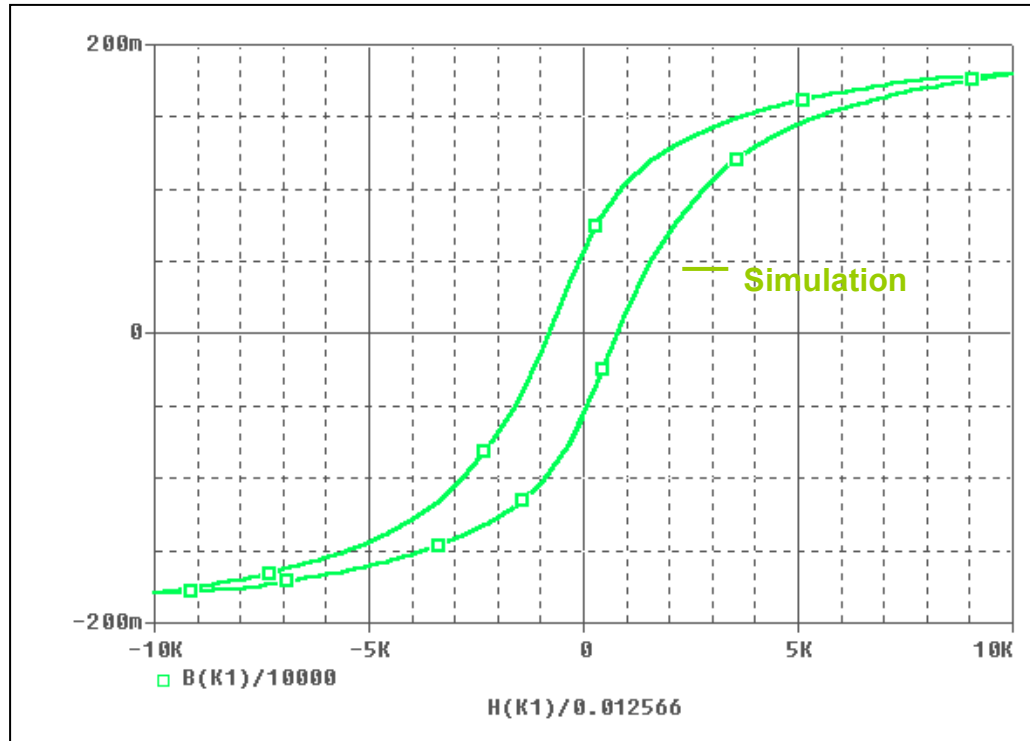
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
1500	120	115.517	3.736
2000	123	126.724	3.028
4000	147	152.488	3.733
6000	162	167.186	3.201
8000	175	176.801	1.029
10000	186	184.039	1.054
3000	105	105.565	0.538
4000	125	128.8	3.040
6000	153	155.066	1.350
8000	172	169.851	1.249
10000	186	179.476	3.508