

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E5
MANUFACTURER:FERROXCUBE



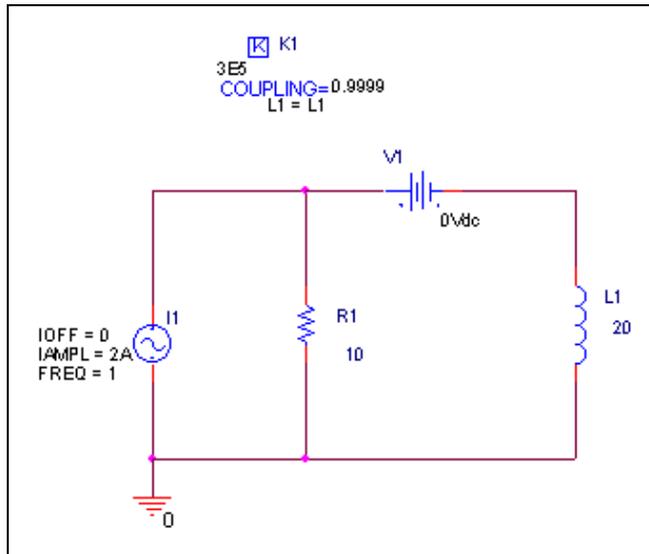
Bee Technologies Inc.

MAGNETIC CORE

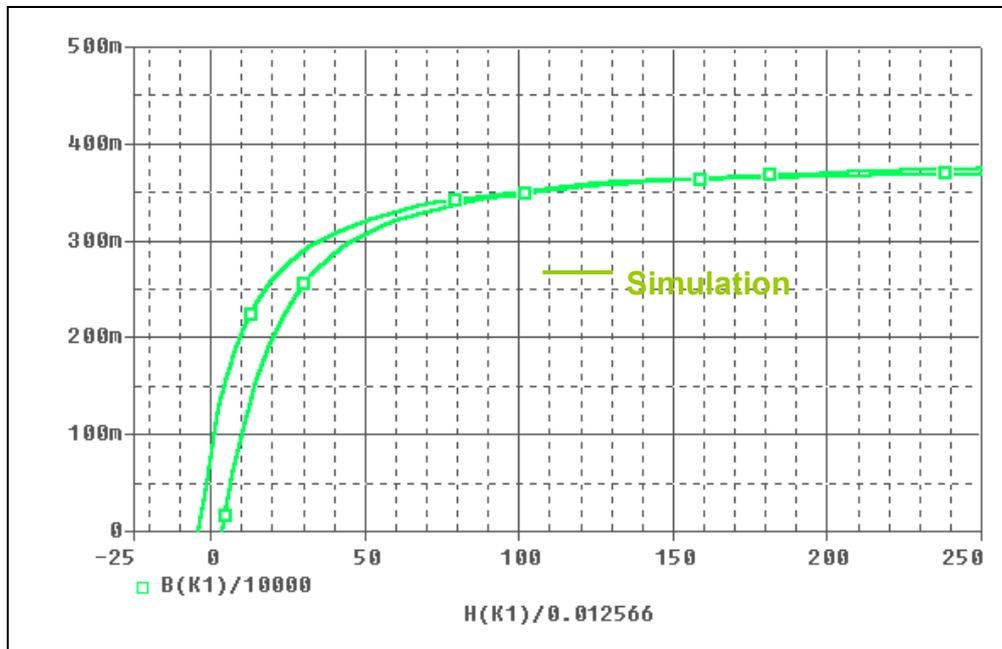
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

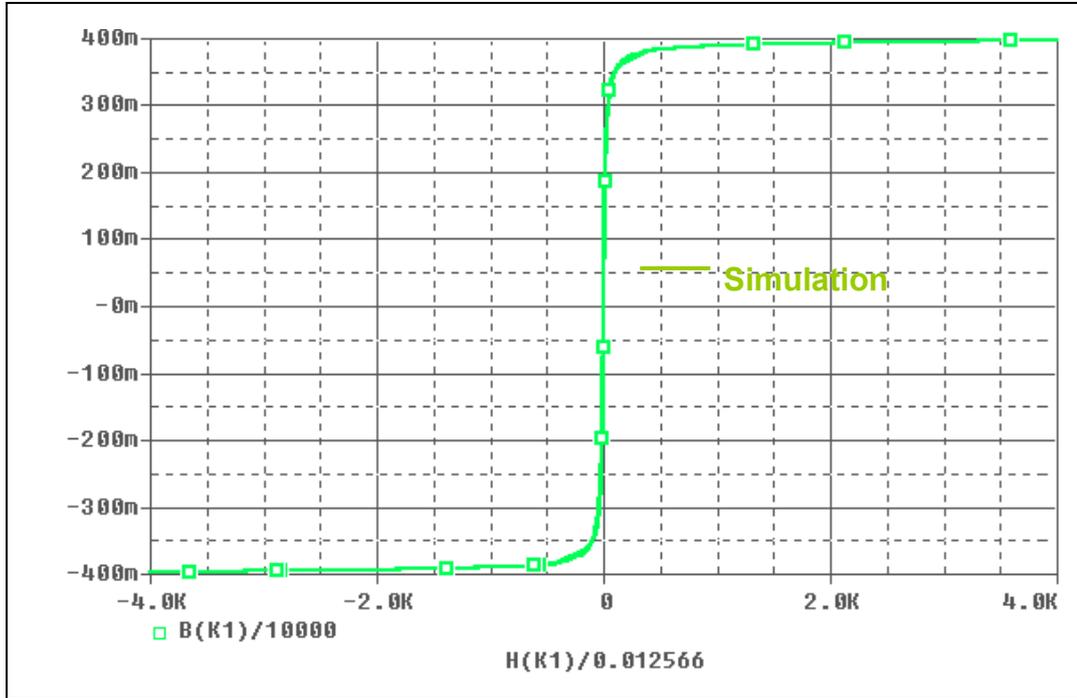
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
5	160	157.104	1.810
15	235	236.339	0.570
50	330	320.427	2.901
75	358	339.427	5.188
100	360	349.278	2.978
125	362	358.462	0.977
150	365	362.077	0.801
200	365	366.353	0.371
225	365	368.49	0.956
250	365	370.591	1.532
10	100	99.727	0.273
15	165	157.104	4.785
50	320	306.464	4.230
75	345	333.925	3.210
100	355	348.038	1.961
125	360	356.478	0.978
150	365	362.455	0.697
200	365	370.18	1.419
225	365	371.493	1.779
250	365	370.511	1.510