

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E7
MANUFACTURER:FERROXCUBE



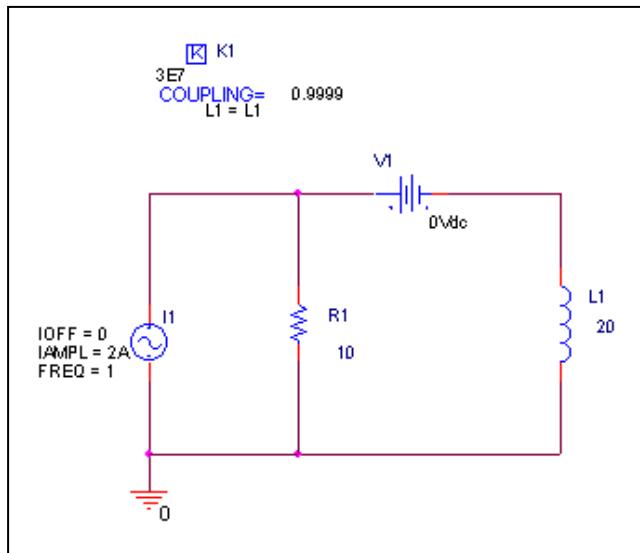
Bee Technologies Inc.

MAGNETIC CORE

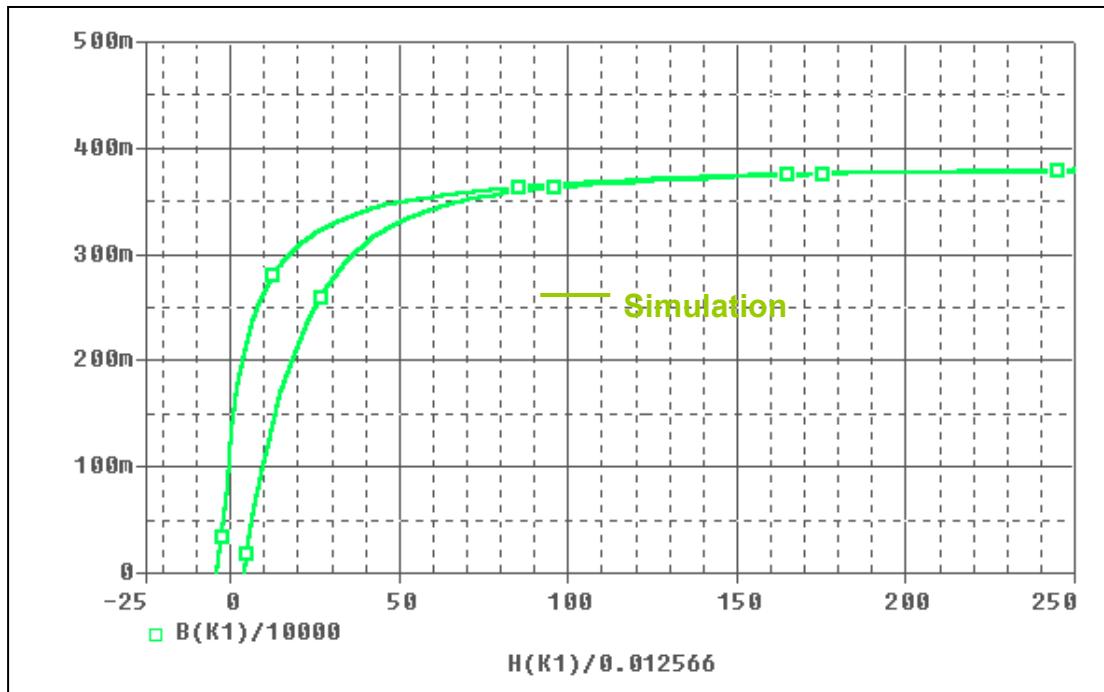
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

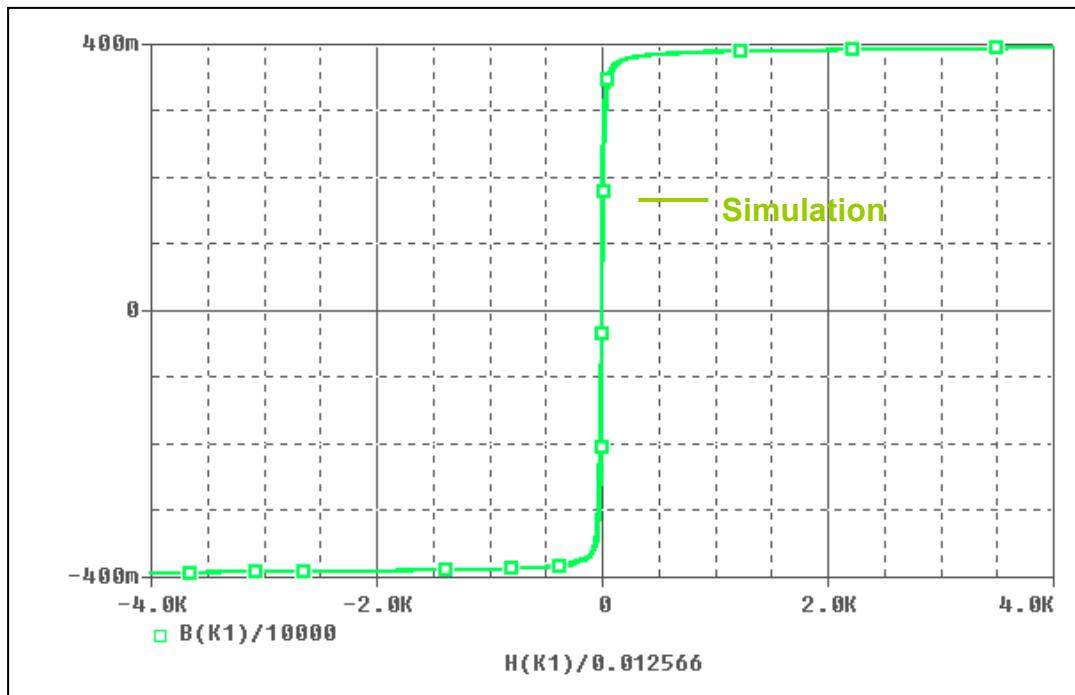
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
25	310	319.812	3.165
50	348	348.077	0.022
75	370	360.014	2.699
100	372	366.001	1.613
125	375	371.043	1.055
150	375	373.668	0.355
175	378	376.351	0.436
200	380	377.135	0.754
225	380	377.949	0.540
250	380	378.745	0.330
50	340	329.814	2.996
75	365	353.739	3.085
100	370	363.47	1.765
125	373	369.068	1.054
150	375	372.578	0.646
175	378	375.199	0.741
200	380	376.93	0.808
225	380	378.477	0.401
250	380	379.55	0.118