

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E28
MANUFACTURER:FERROXCUBE



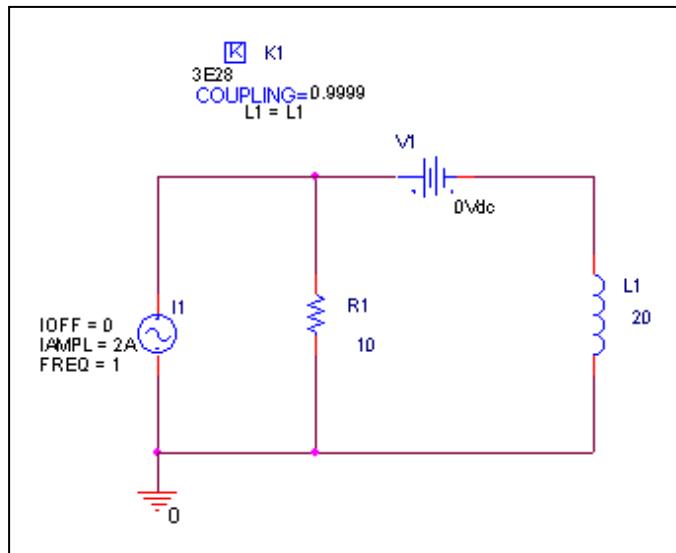
Bee Technologies Inc.

MAGNETIC CORE

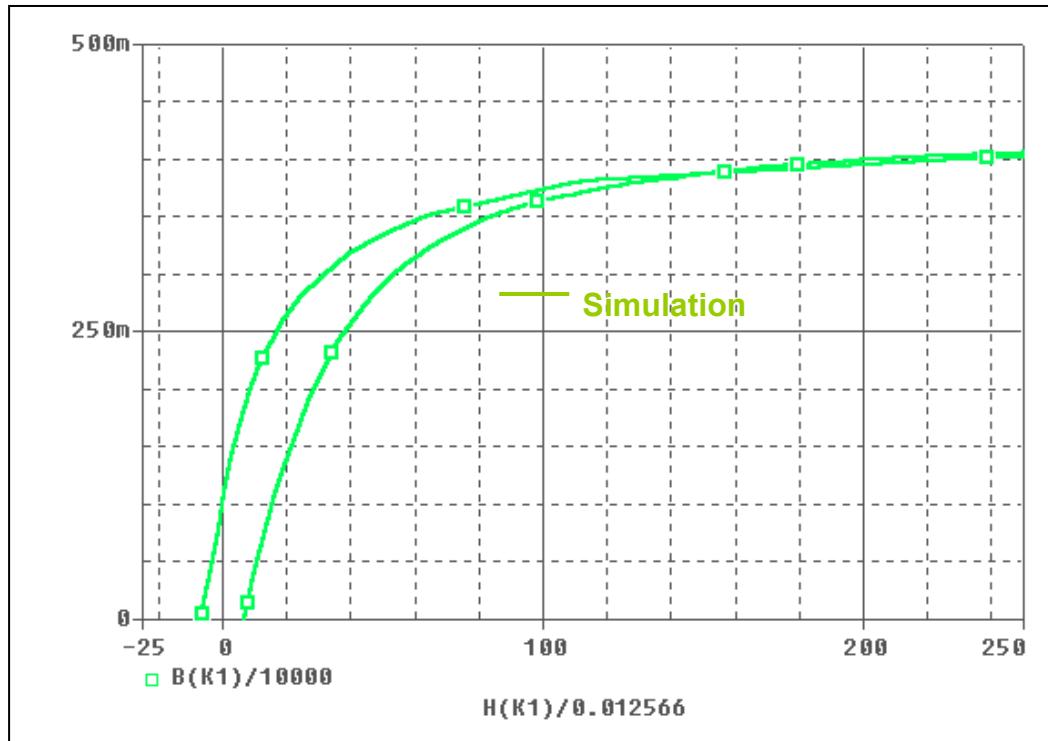
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

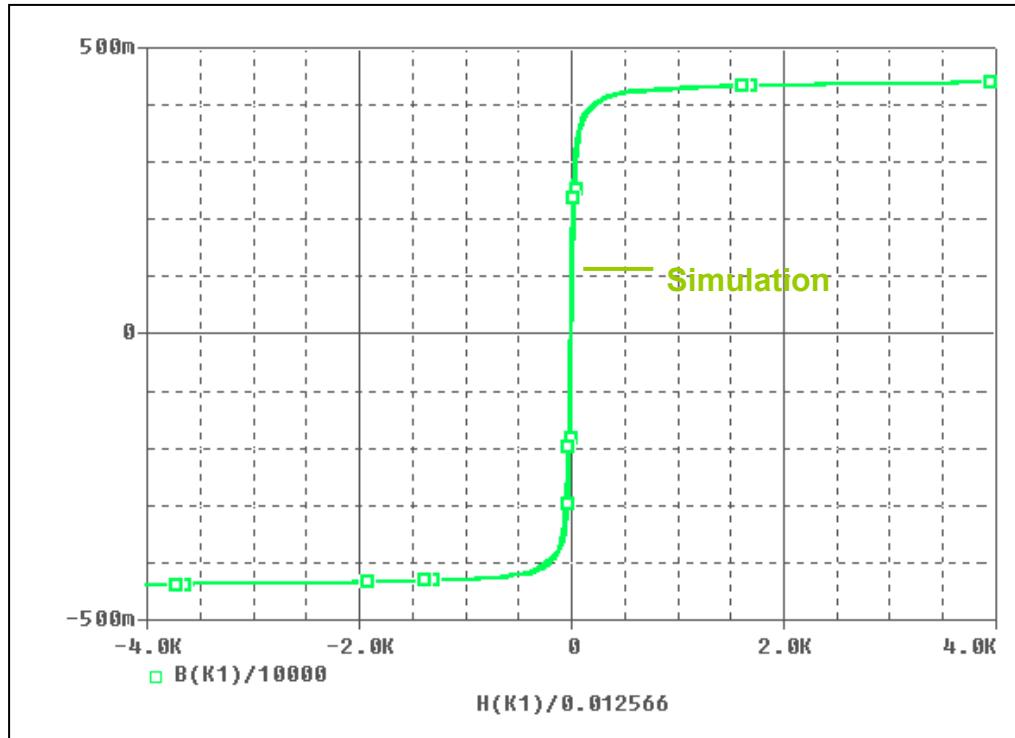
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
75	350	357.525	2.150
100	375	373.25	0.467
125	385	382.99	0.522
150	390	387.186	0.722
175	395	391.381	0.916
200	400	395.576	1.106
250	400	403.967	0.992
75	340	339.12	0.259
100	370	363.541	1.746
125	380	377.963	0.536
150	385	387.256	0.586
175	390	394.018	1.030
200	400	399.225	0.194
250	400	406.324	1.581