

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:PC46
MANUFACTURER:TDK



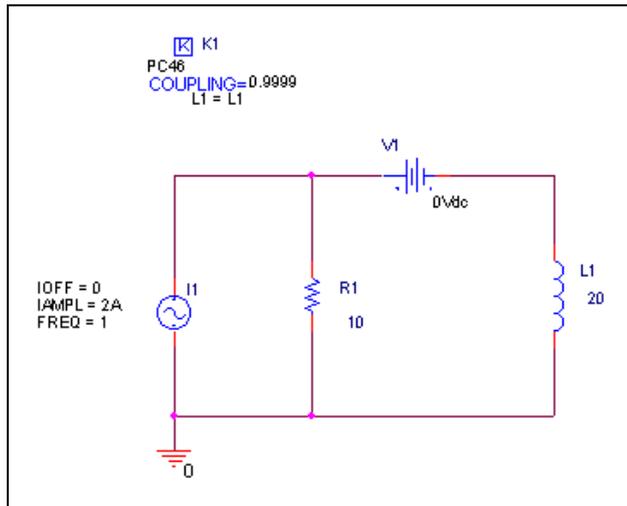
Bee Technologies Inc.

MAGNETIC CORE

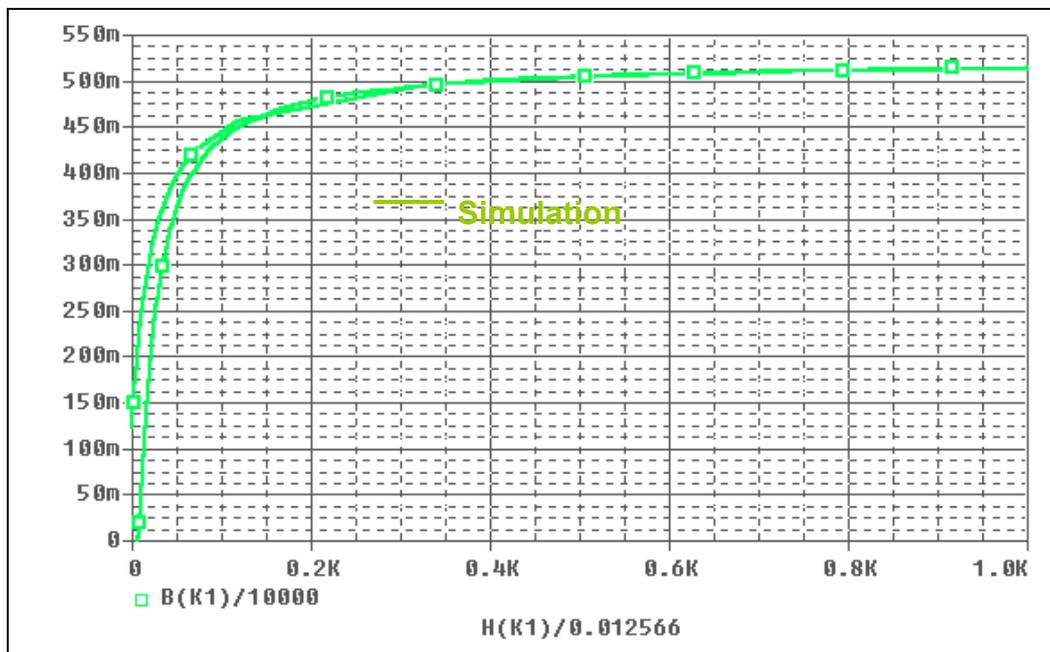
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

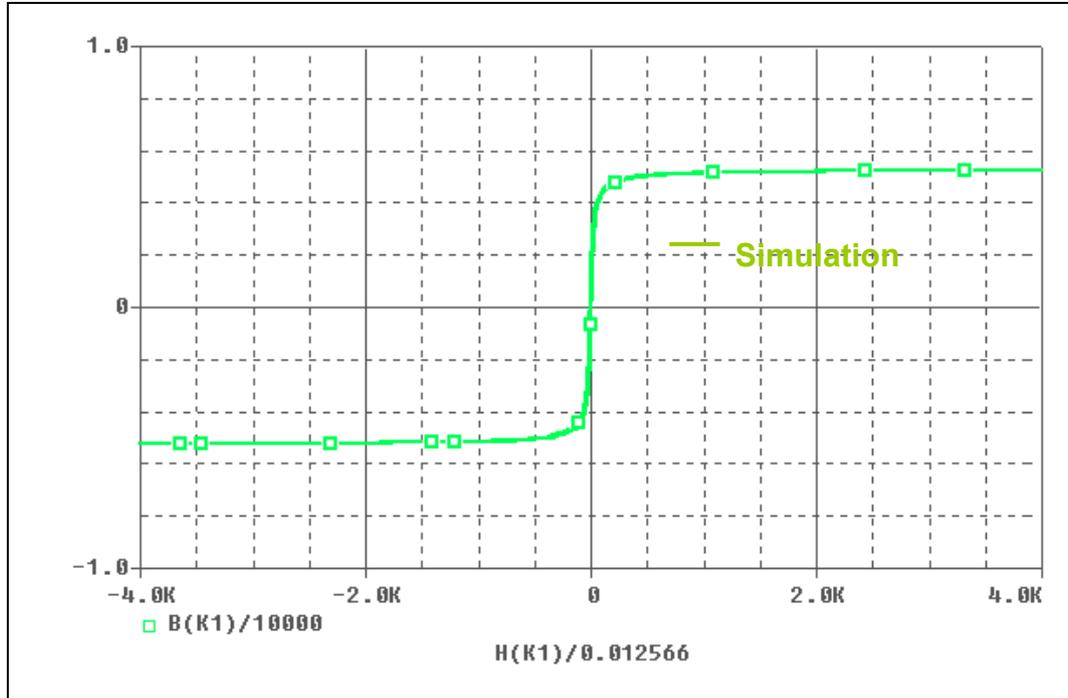
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
100	450	444.641	1.191
200	475	472.331	0.562
300	490	491.088	0.222
400	500	499.516	0.097
500	502	504.07	0.412
600	505	508.026	0.599
700	510	509.99	0.002
800	515	511.953	0.592
900	515	513.291	0.332
1000	518	514.428	0.690
100	440	436.687	0.753
200	475	477.866	0.603
300	490	492.42	0.494
400	500	499.762	0.048
500	502	504.586	0.515
600	505	507.446	0.484
700	510	509.985	0.003
800	515	511.586	0.663
900	515	513.186	0.352
1000	518	514.428	0.690