

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:PC45
MANUFACTURER:TDK



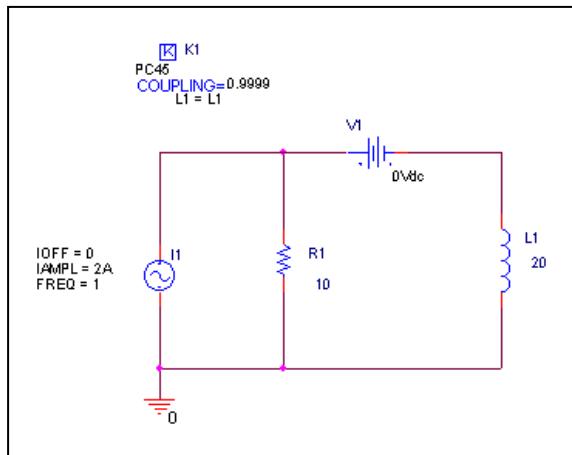
Bee Technologies Inc.

MAGNETIC CORE

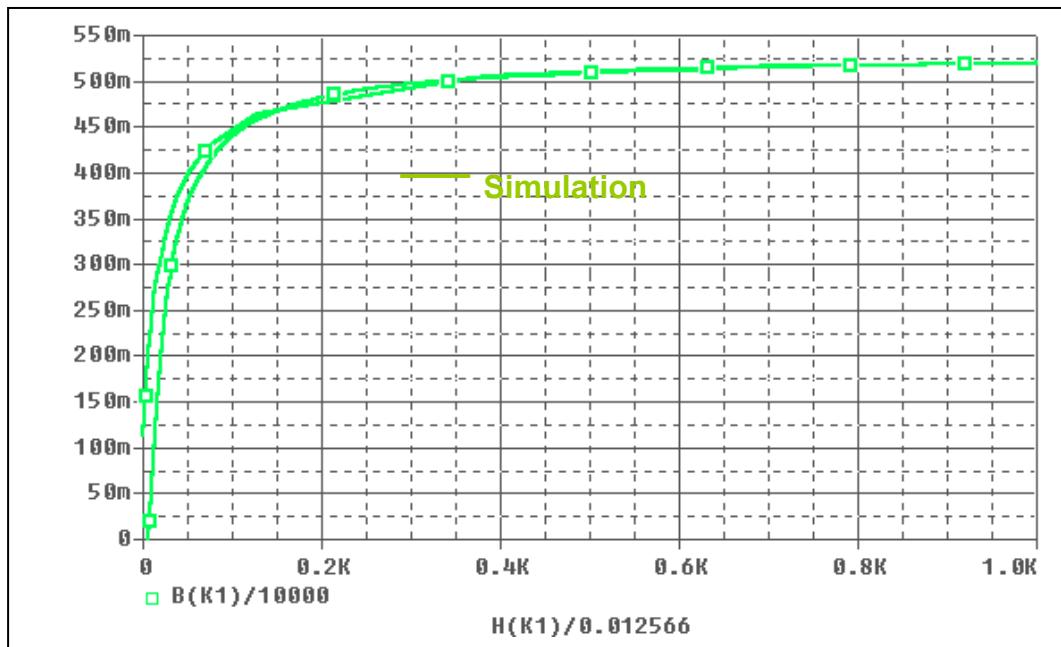
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

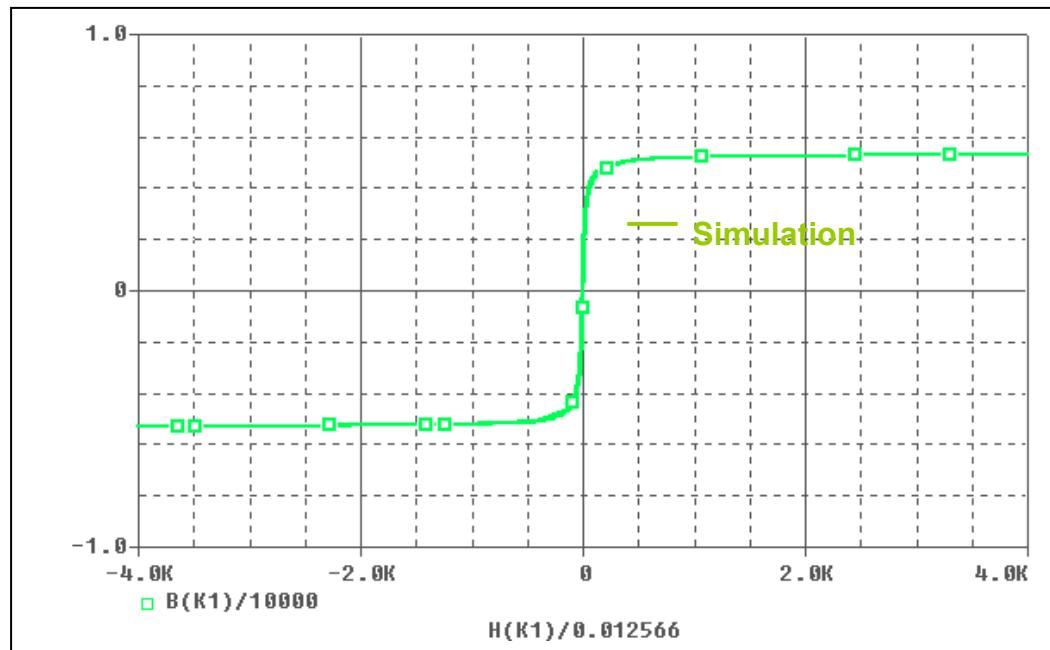
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
100	450	446.69	0.736
200	475	475.817	0.172
300	490	491.781	0.363
400	500	505.239	1.048
500	505	509.088	0.810
600	510	512.937	0.576
700	515	515.32	0.062
800	518	517.117	0.170
900	520	518.738	0.243
1000	520	519.82	0.035
100	440	439.769	0.052
200	475	481.766	1.424
300	490	496.791	1.386
400	500	504.511	0.902
500	505	509.382	0.868
600	510	512.795	0.548
700	515	515.029	0.006
800	518	516.914	0.210
900	520	518.567	0.276
1000	520	519.686	0.060