

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:PC47
MANUFACTURER:TDK



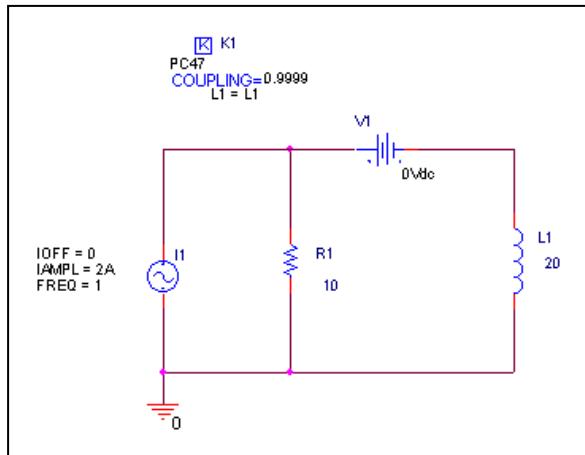
Bee Technologies Inc.

MAGNETIC CORE

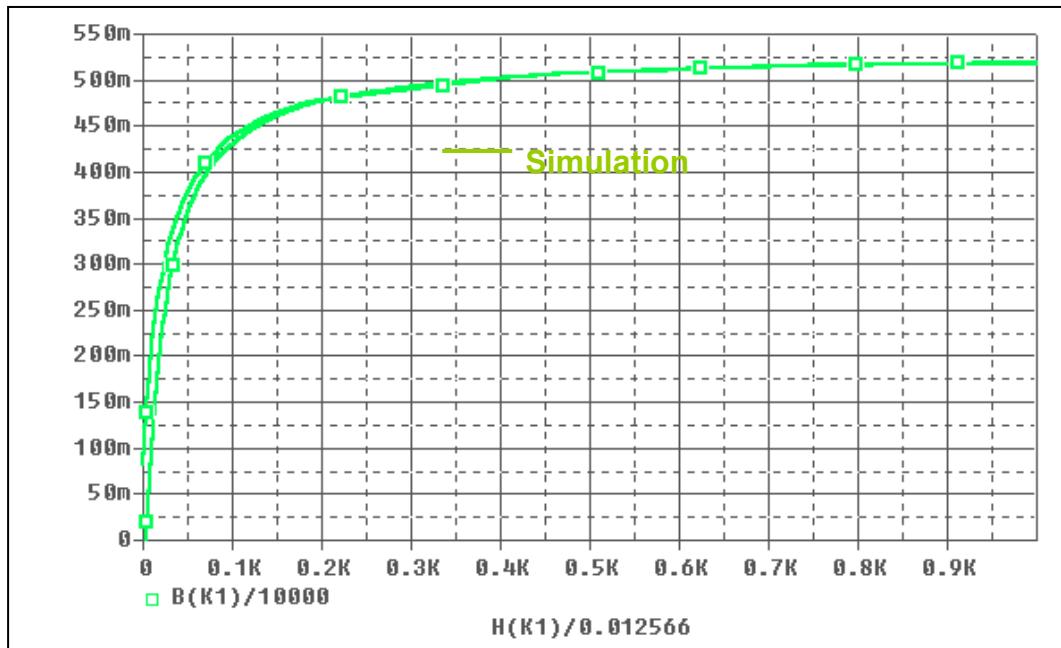
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

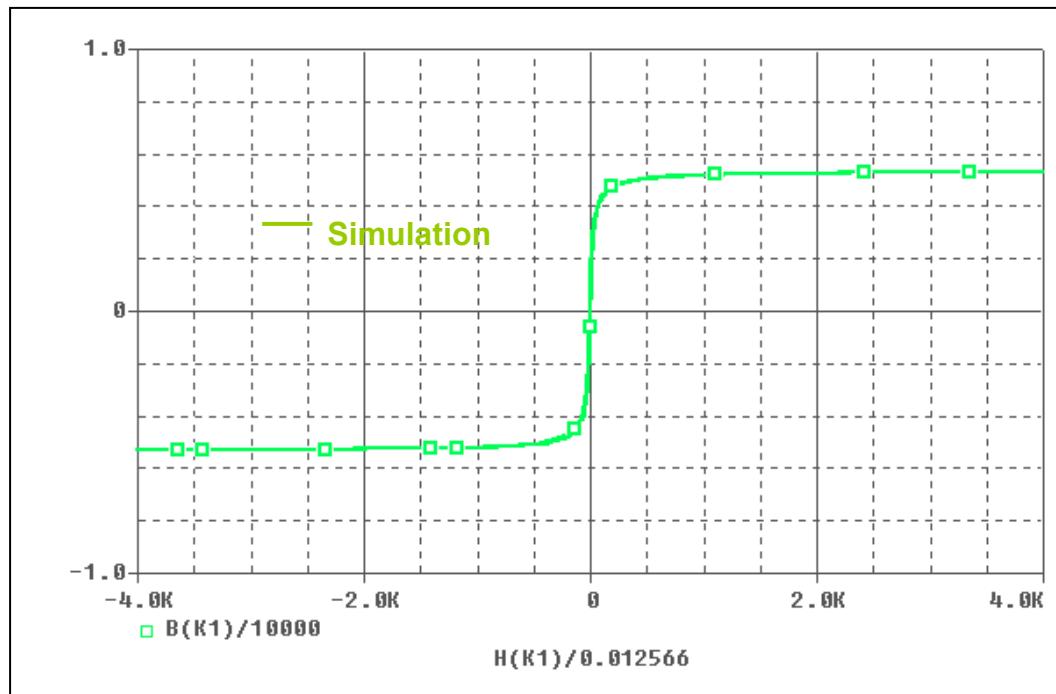
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
100	450	437.53	2.771
200	470	476.949	1.479
300	490	488.957	0.213
400	500	500.965	0.193
500	505	507.509	0.497
600	510	511.161	0.228
700	515	514.51	0.095
800	520	516.337	0.704
900	525	518.163	1.302
1000	525	519.501	1.047
100	440	430.526	2.153
200	460	476.27	3.537
300	490	493.159	0.645
400	500	502.027	0.405
500	505	507.48	0.491
600	510	511.531	0.300
700	515	513.96	0.202
800	520	516.389	0.694
900	525	517.959	1.341
1000	525	519.373	1.072