

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:4A11
MANUFACTURER:FERROXCUBE



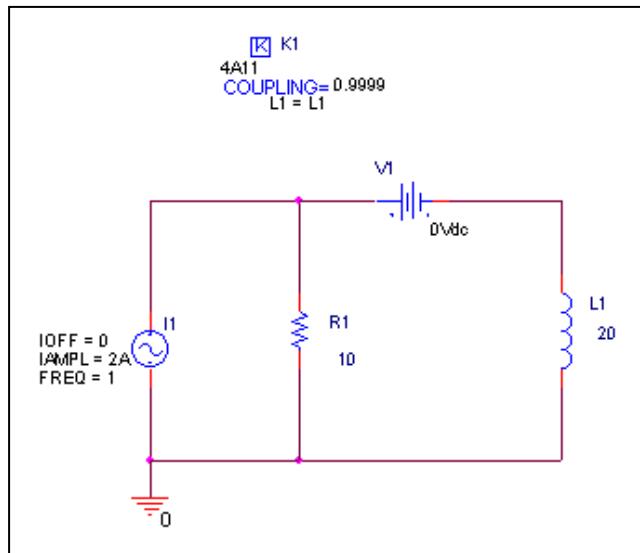
Bee Technologies Inc.

MAGNETIC CORE

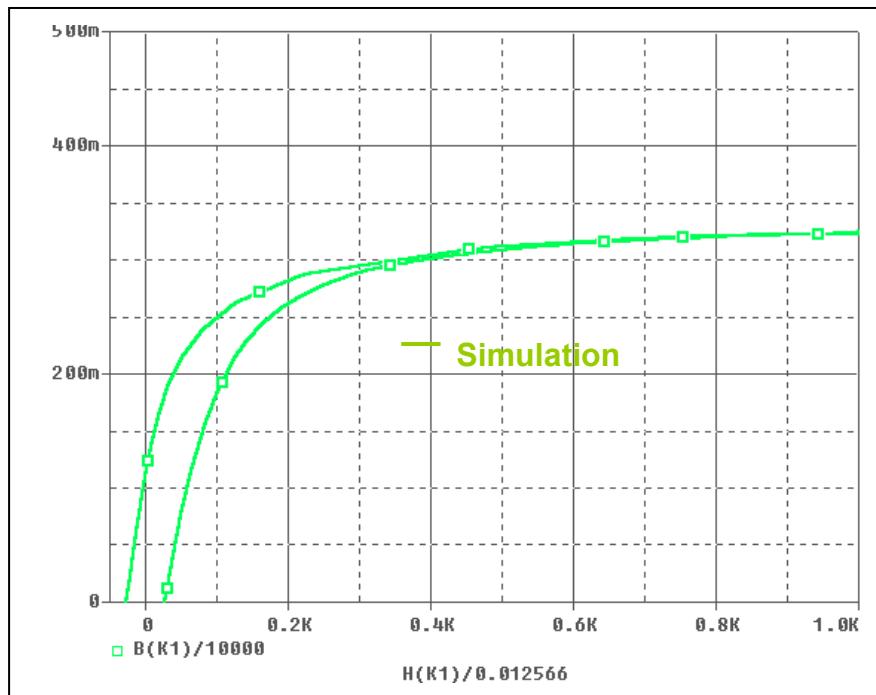
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

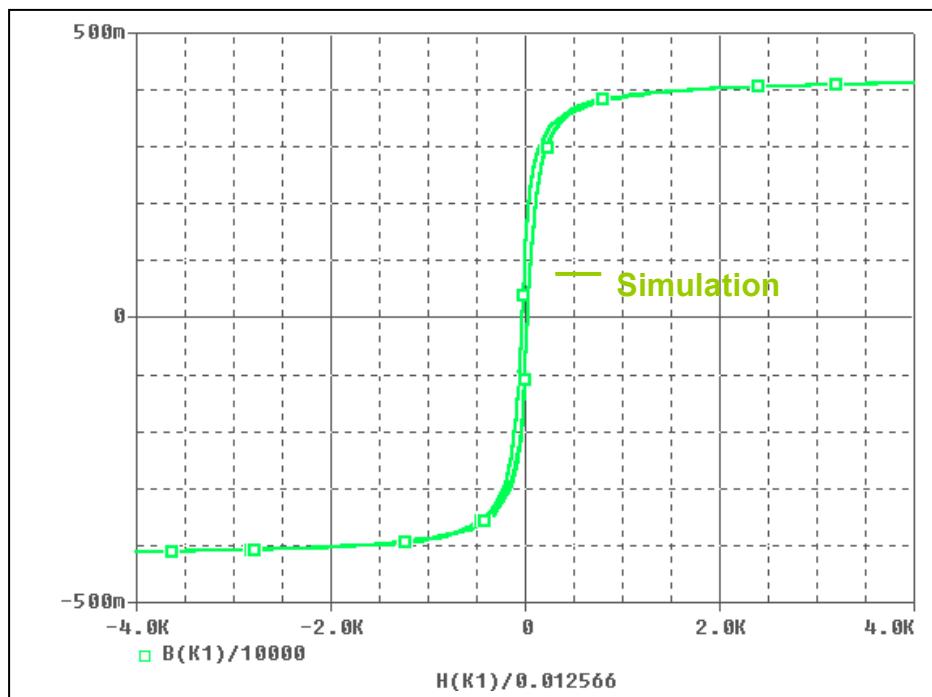
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
25	170	176.623	3.896
50	205	211.688	3.262
75	225	233.766	3.896
100	240	248.837	3.682
340	300	297.968	0.677
500	310	311.332	0.430
760	320	319.903	0.030
1000	325	324.27	0.225
100	190	180.52	4.989
340	290	293.887	1.340
500	305	307.852	0.935
760	320	318.399	0.500
1000	325	324.675	0.100