

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3B1
MANUFACTURER:FERROXCUBE



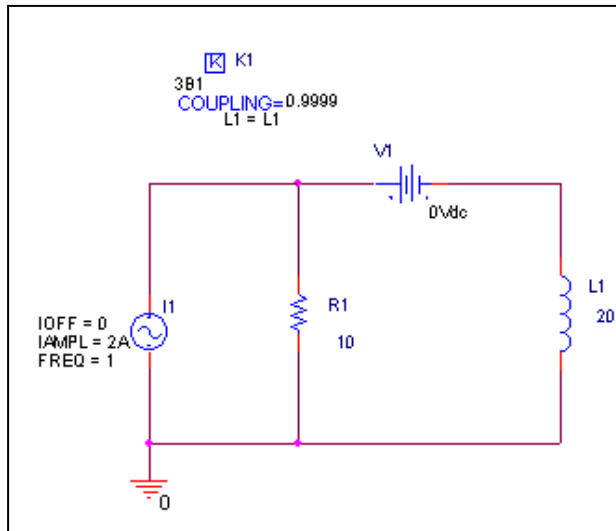
Bee Technologies Inc.

MAGNETIC CORE

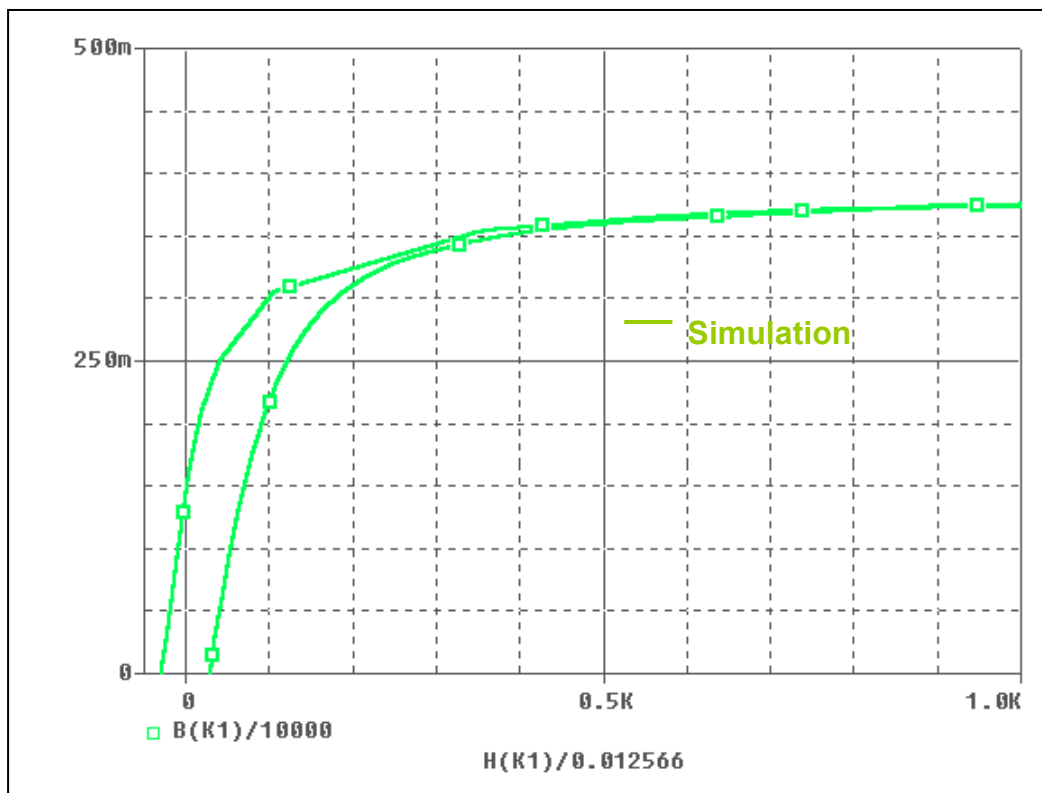
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

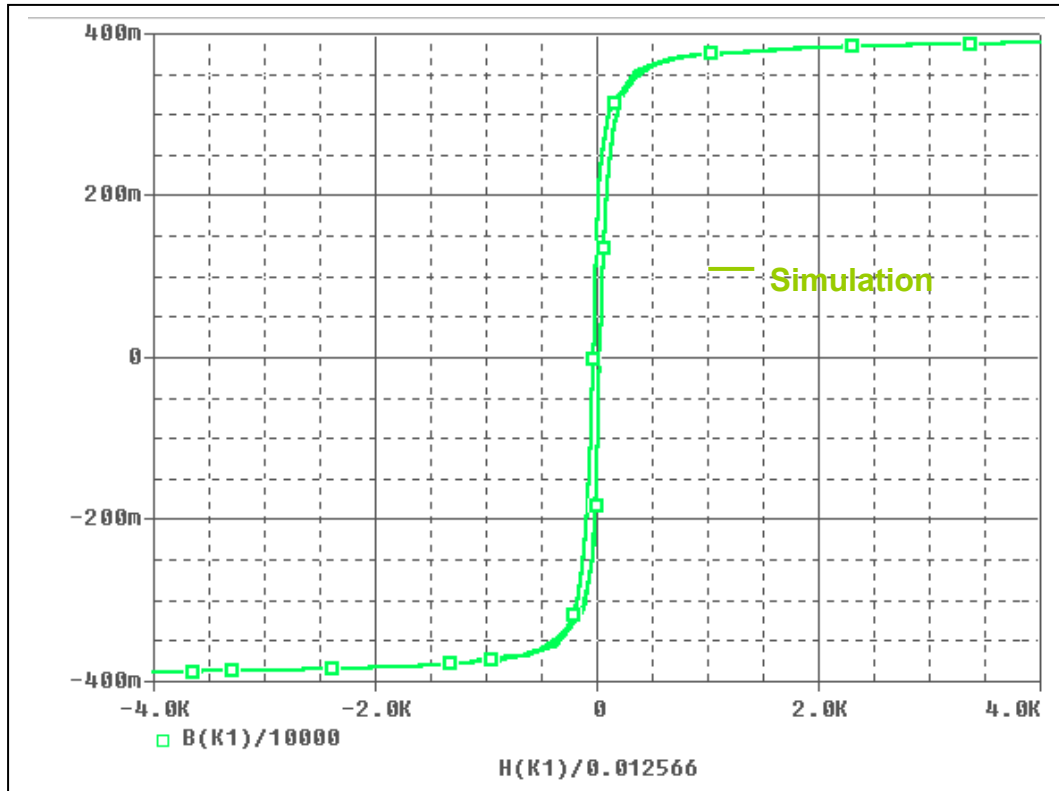
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
100	300	300.578	0.193
180	330	318.96	3.345
340	350	351.122	0.321
500	360	361.593	0.443
580	365	365.593	0.162
660	370	368.275	0.466
740	373	370.204	0.750
1000	375	375.013	0.003
180	305	299.685	1.743
340	340	345.086	1.496
500	355	359.277	1.205
580	360	362.96	0.822
660	370	366.425	0.966
740	373	368.494	1.208
1000	375	374.068	0.249