

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3R1
MANUFACTURER:FERROXCUBE



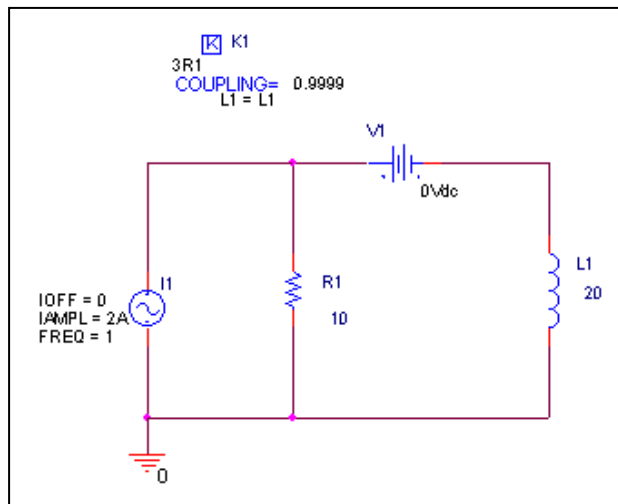
Bee Technologies Inc.

MAGNETIC CORE

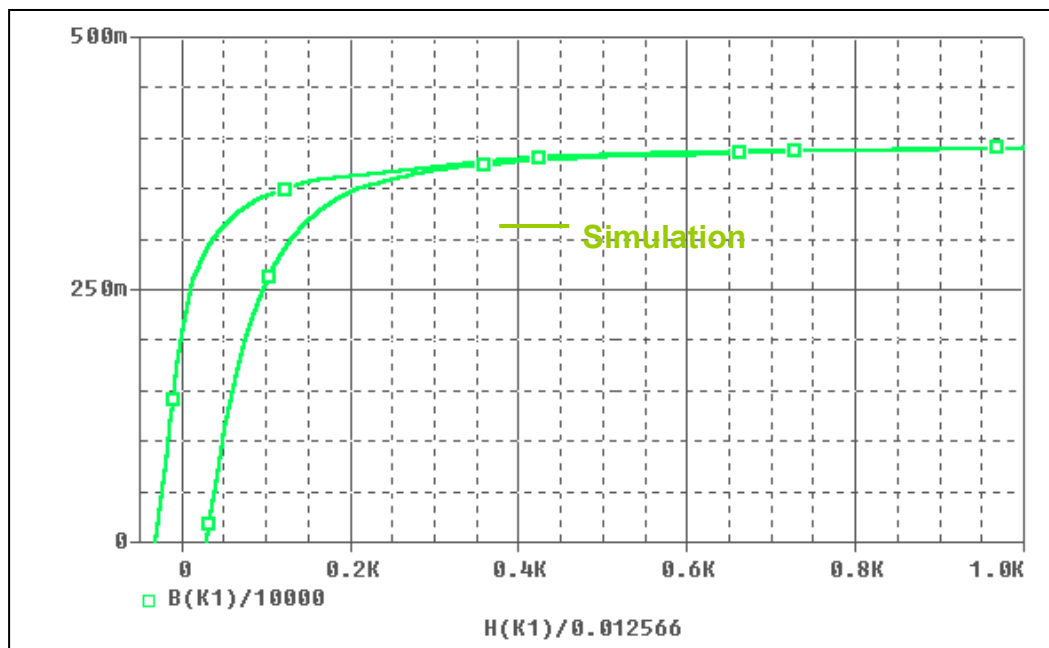
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

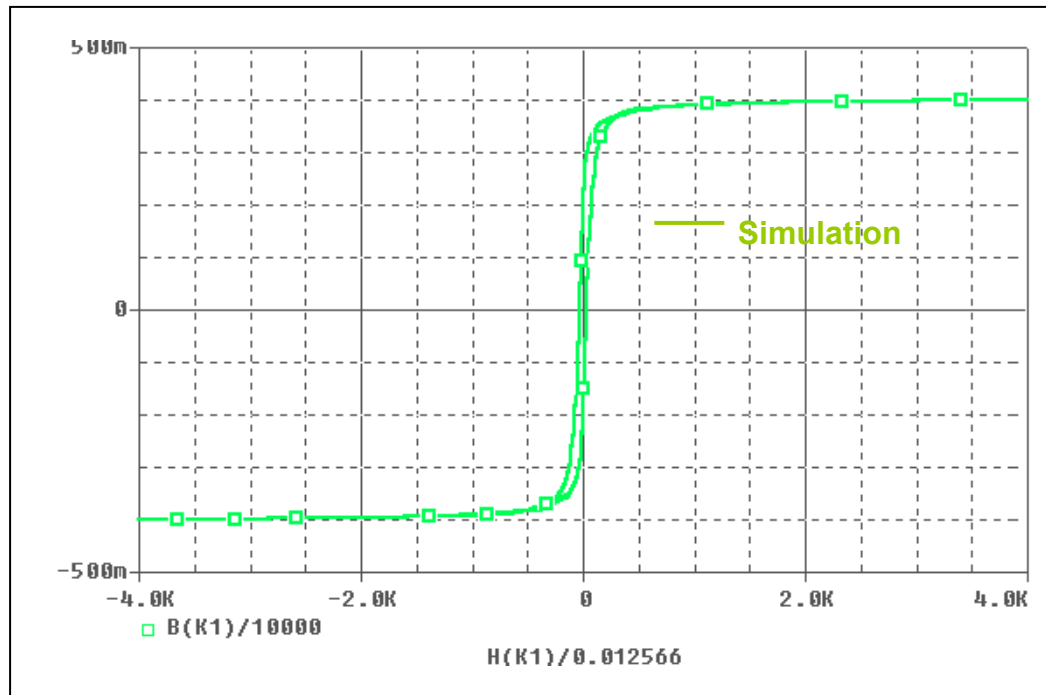
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
100	348	342.091	1.698
180	360	360.122	0.034
260	368	367.29	0.193
340	372	374.27	0.610
420	380	380.406	0.107
500	385	382.547	0.637
700	394	381.265	3.232
900	396	389.955	1.527
1000	398	390.795	1.810
180	350	337.275	3.636
260	360	361.68	0.467
340	365	371.302	1.727
420	370	376.885	1.861
500	382	380.581	0.371
700	394	385.855	2.067
900	396	389.099	1.743
1000	398	390.152	1.972