

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3C81
MANUFACTURER:FERROXCUBE



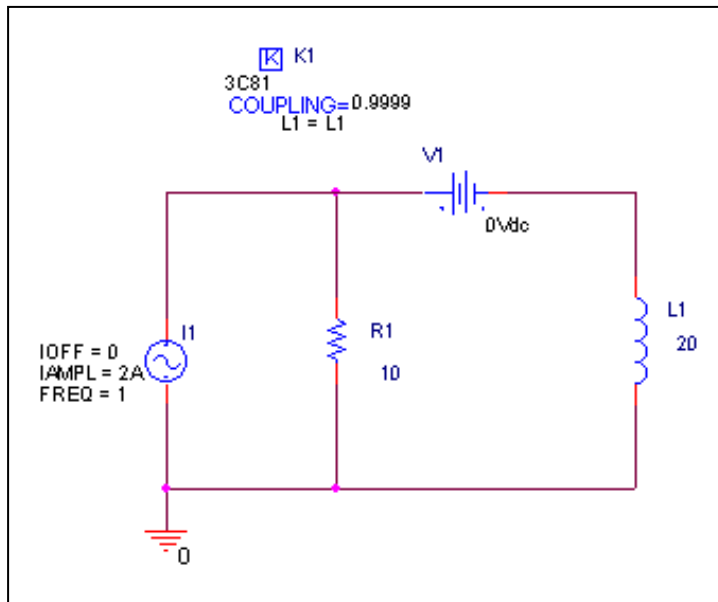
Bee Technologies Inc.

MAGNETIC CORE

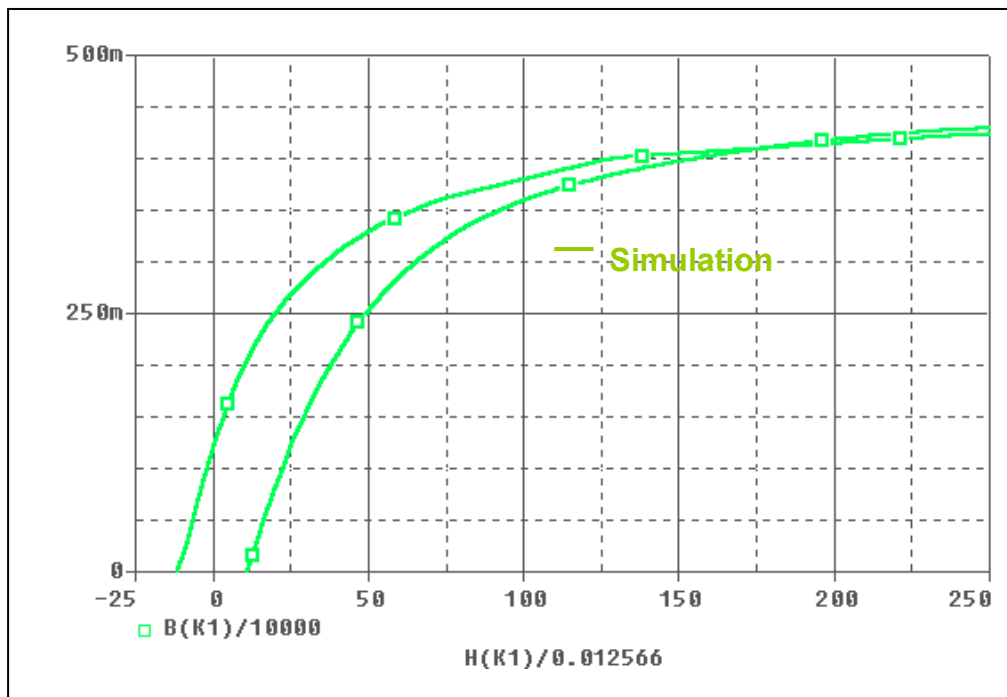
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

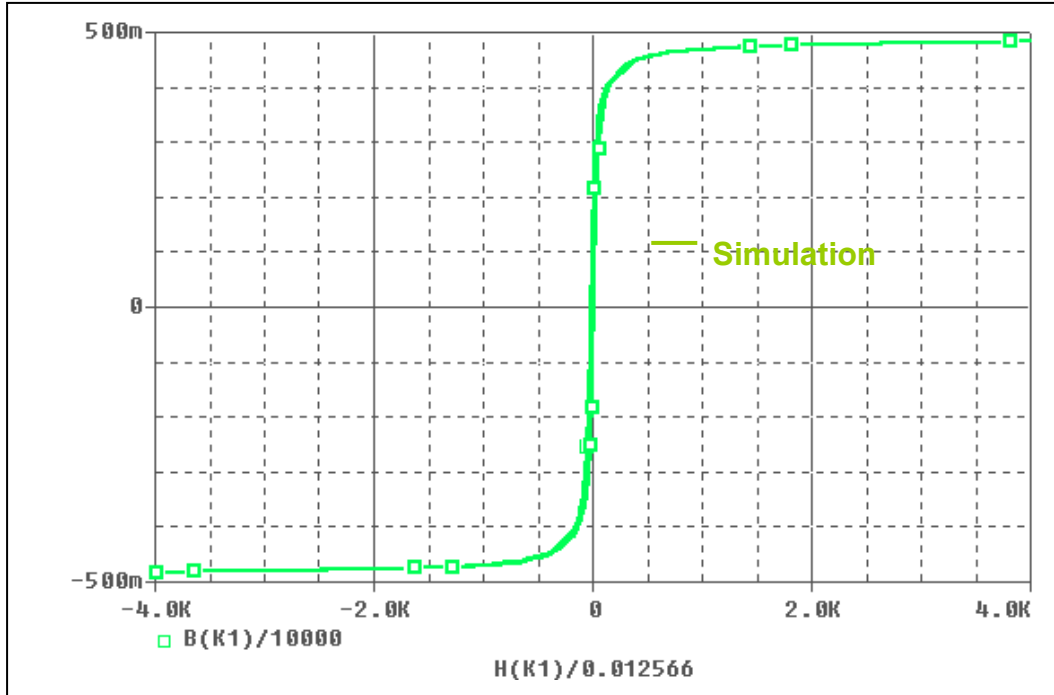
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
0	115	117.241	1.949
25	275	268.633	2.315
50	340	328.193	3.473
100	395	380.068	3.780
150	415	404.769	2.465
200	425	414.523	2.465
250	425	424.655	0.081
15	40	37.931	5.173
25	130	120.69	7.162
50	255	251.724	1.285
100	365	358.807	1.697
150	400	397.35	0.662
200	425	417.413	1.785
250	425	429.712	1.109