

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E55
MANUFACTURER:FERROXCUBE



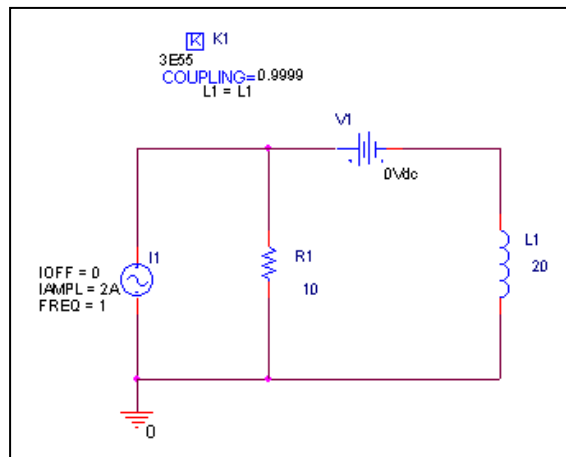
Bee Technologies Inc.

MAGNETIC CORE

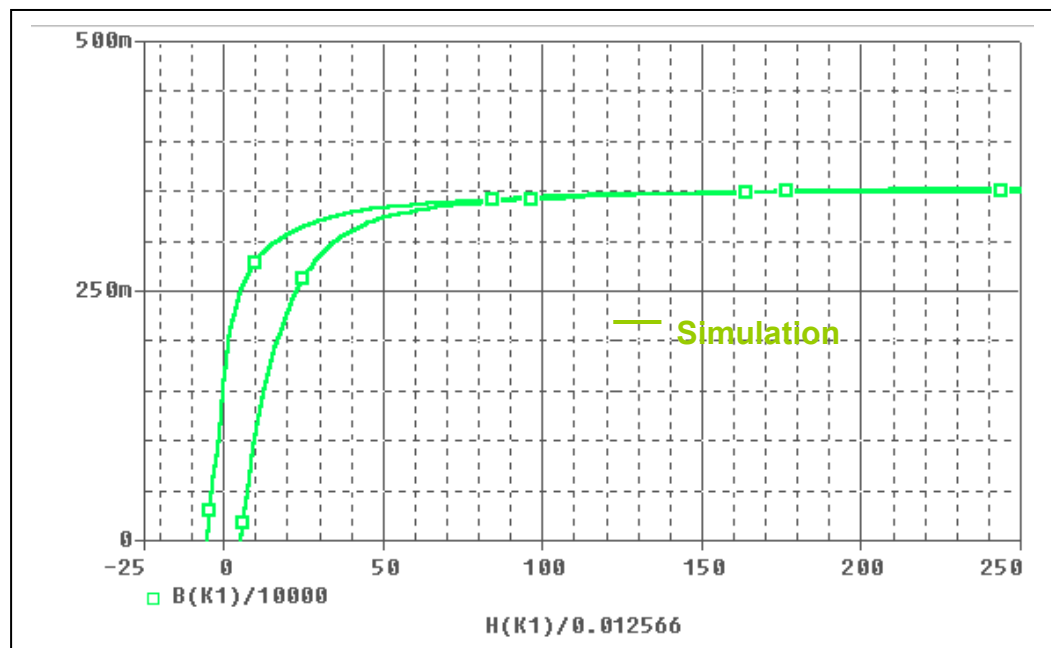
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

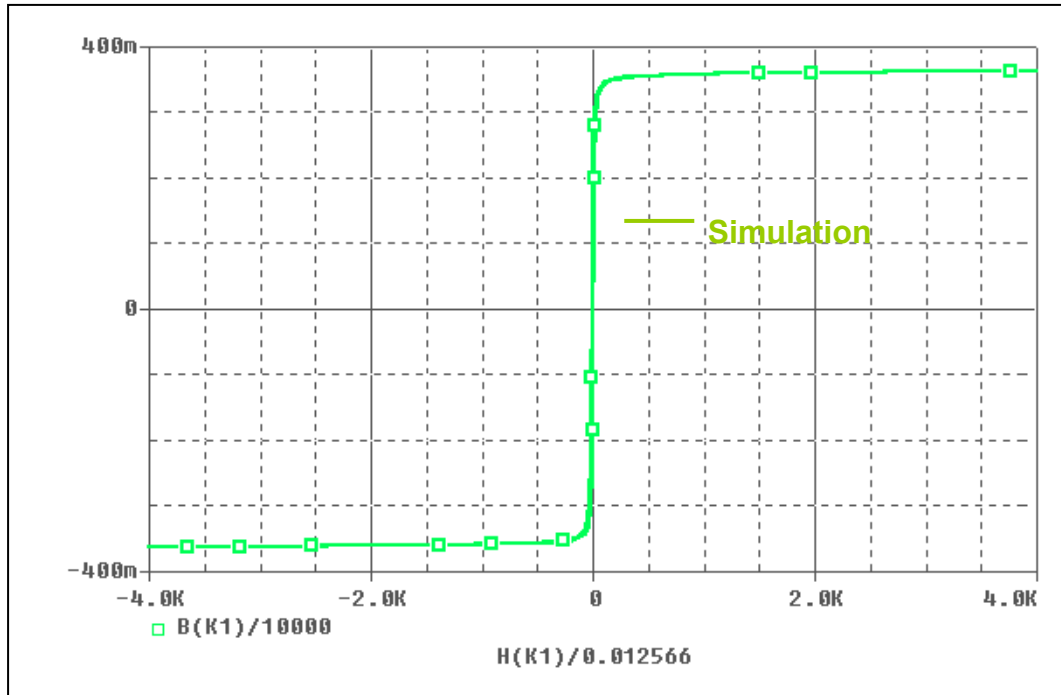
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
0	150	147.887	1.409
25	310	314.825	1.556
50	343	332.967	2.925
75	349	339.501	2.722
100	350	343.939	1.732
125	350	346.942	0.874
150	350	347.782	0.634
175	350	348.64	0.389
200	350	349.462	0.154
225	350	350.321	0.092
250	350	351.161	0.332
50	320	323.108	0.971
75	340	336.835	0.931
100	348	342.681	1.528
125	349	346.139	0.820
150	350	348.271	0.494
175	350	349.816	0.053
200	350	351.028	0.294
225	350	351.928	0.551
250	350	352.62	0.749