

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3H3
MANUFACTURER:FERROXCUBE



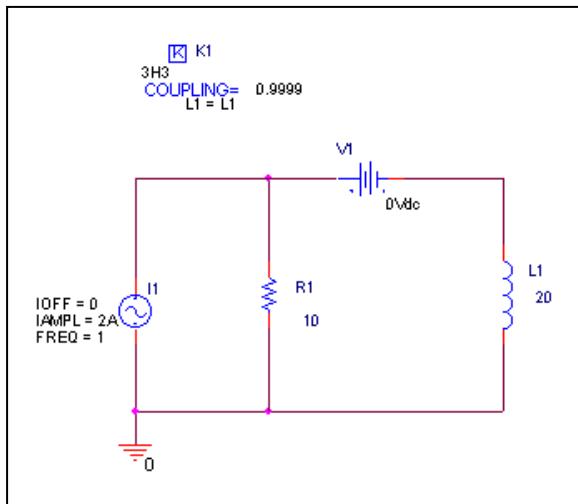
Bee Technologies Inc.

MAGNETIC CORE

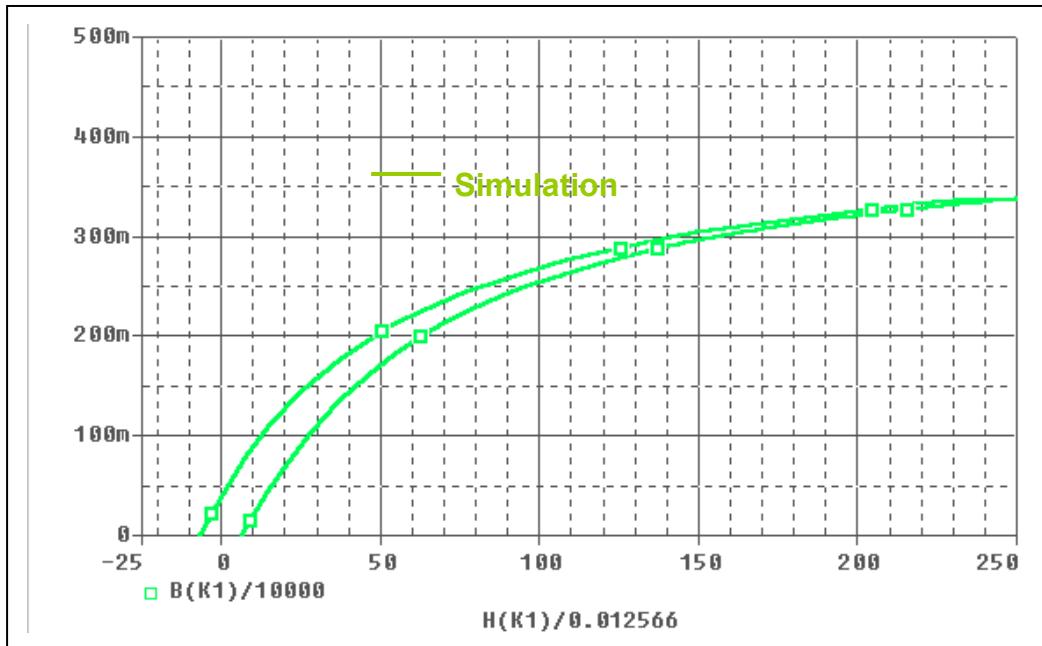
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

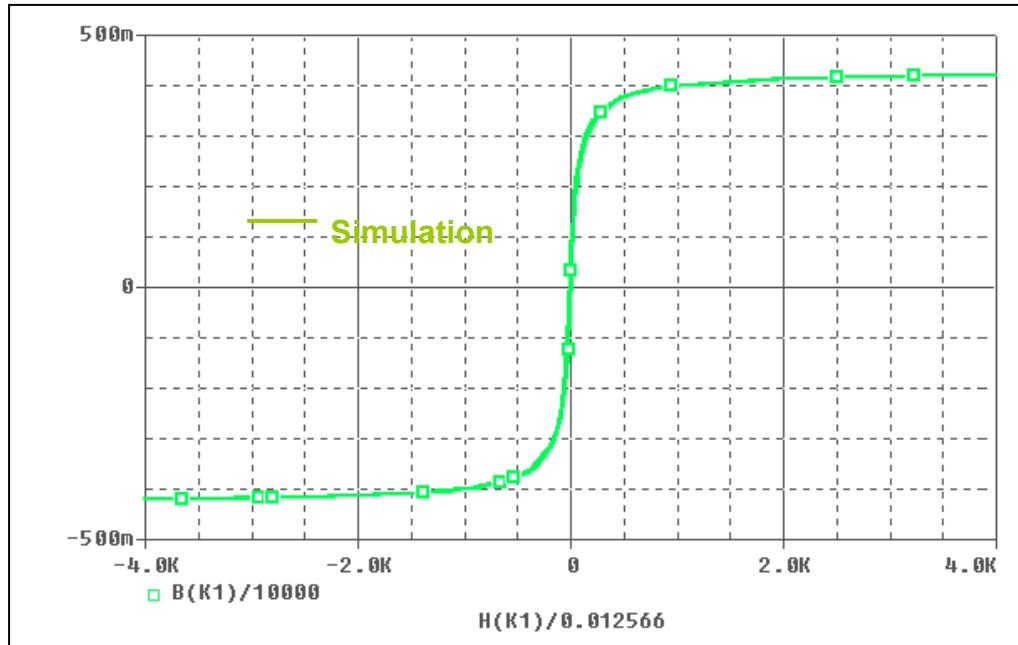
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
25	150	144.366	3.756
50	210	202.808	3.425
75	250	242.624	2.950
100	275	267.923	2.573
125	295	287.794	2.443
150	310	304.123	1.896
175	320	314.567	1.698
200	325	324.557	0.136
225	330	334.78	1.448
250	335	338.844	1.147
75	230	220.828	3.988
100	260	253.251	2.596
125	285	277.808	2.524
150	305	295.426	3.139
175	320	309.614	3.246
200	325	320.826	1.284
225	330	329.751	0.075
250	335	337.433	0.726