

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:4A15
MANUFACTURER:FERROXCUBE



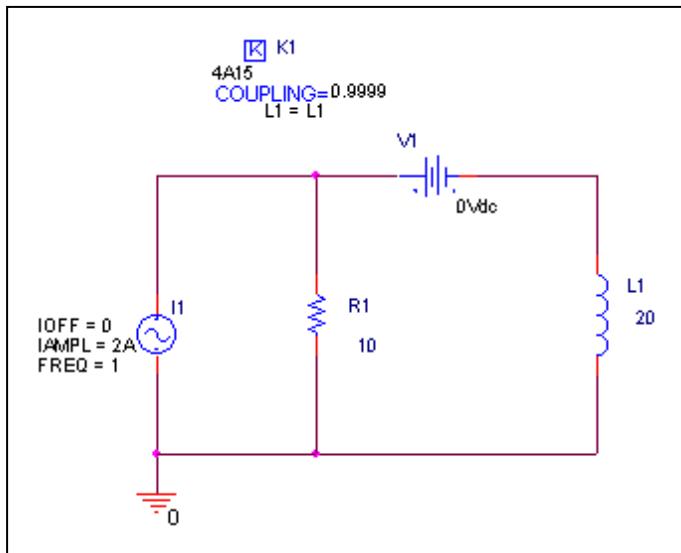
Bee Technologies Inc.

MAGNETIC CORE

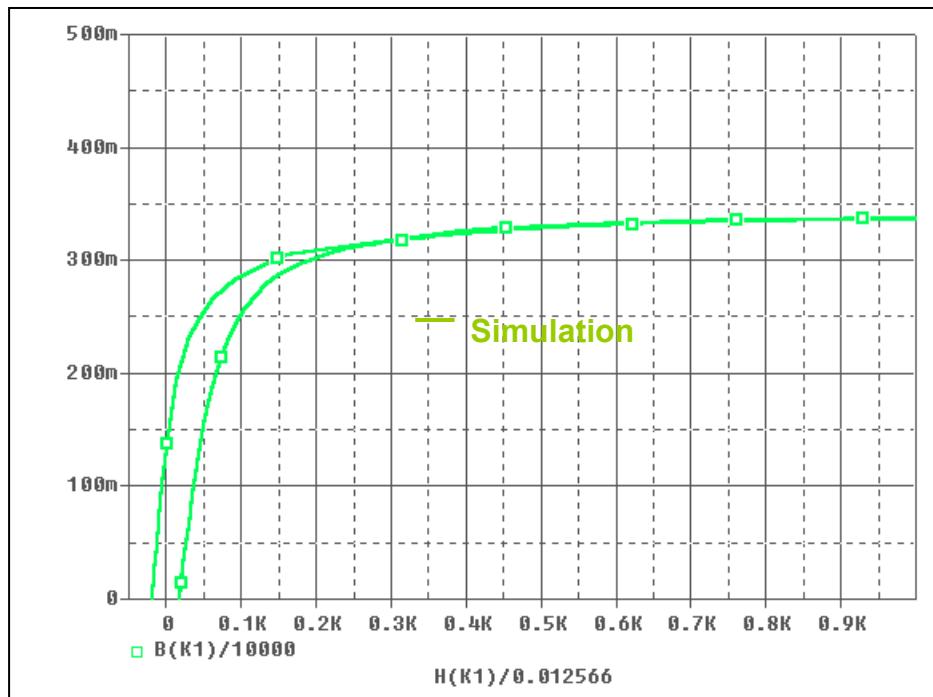
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

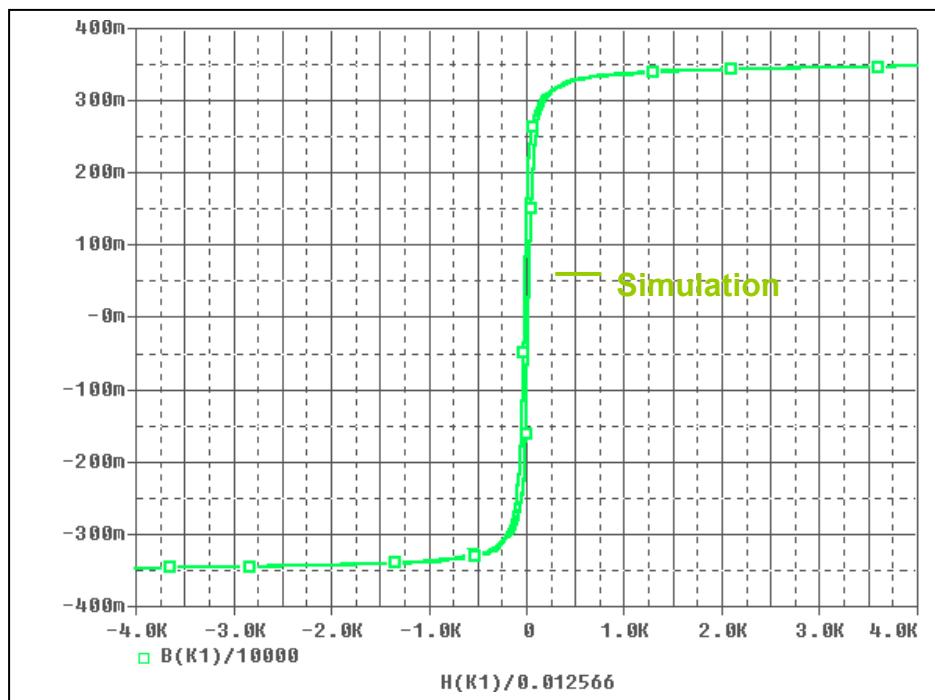
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
25	215	218.434	1.597
50	255	254.859	0.055
100	280	285.944	2.123
180	310	306.069	1.268
340	325	320.558	1.367
500	340	329.279	3.153
700	340	334.129	1.727
900	342	336.844	1.508
1000	342	337.719	1.252
100	250	252.323	0.929
180	285	297.19	4.277
340	315	320.494	1.744
500	320	328.206	2.564
700	340	333.181	2.006
900	342	336.302	1.666
1000	342	337.332	1.365