

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:6H42
MANUFACTURER:FDK



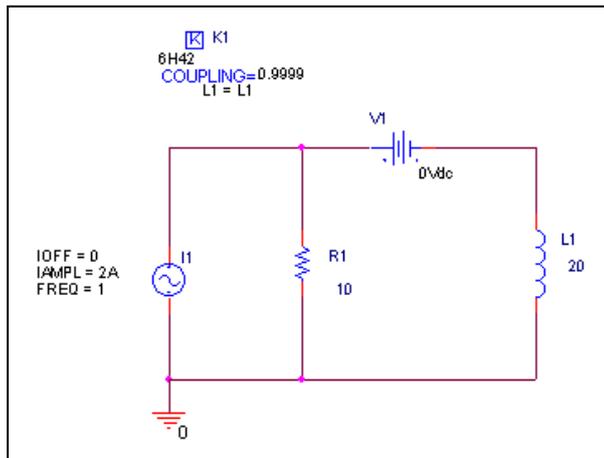
Bee Technologies Inc.

MAGNETIC CORE

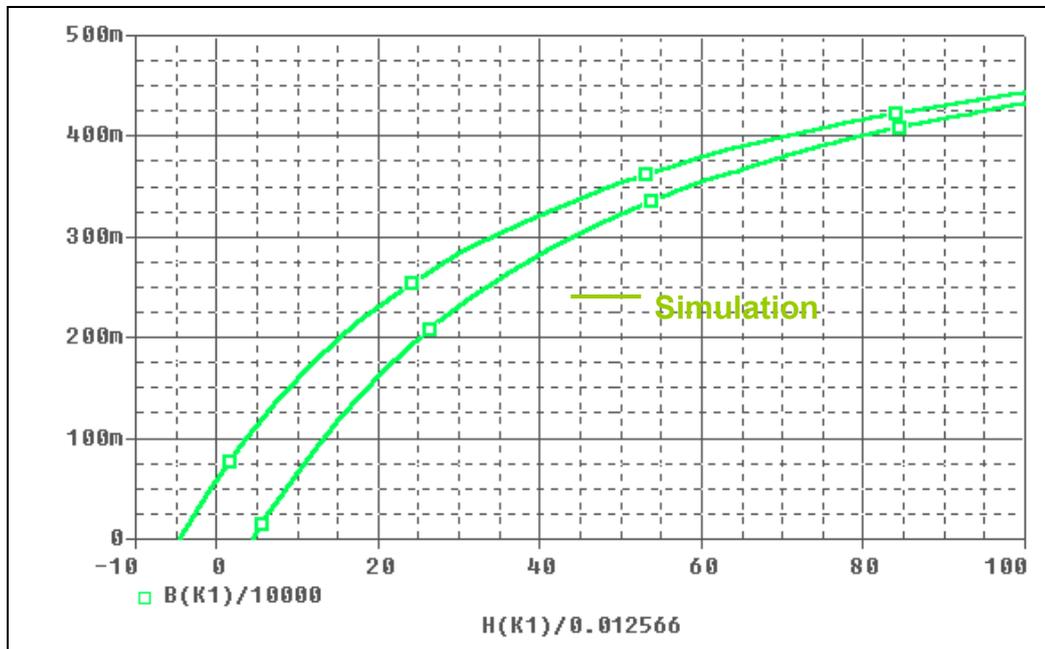
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

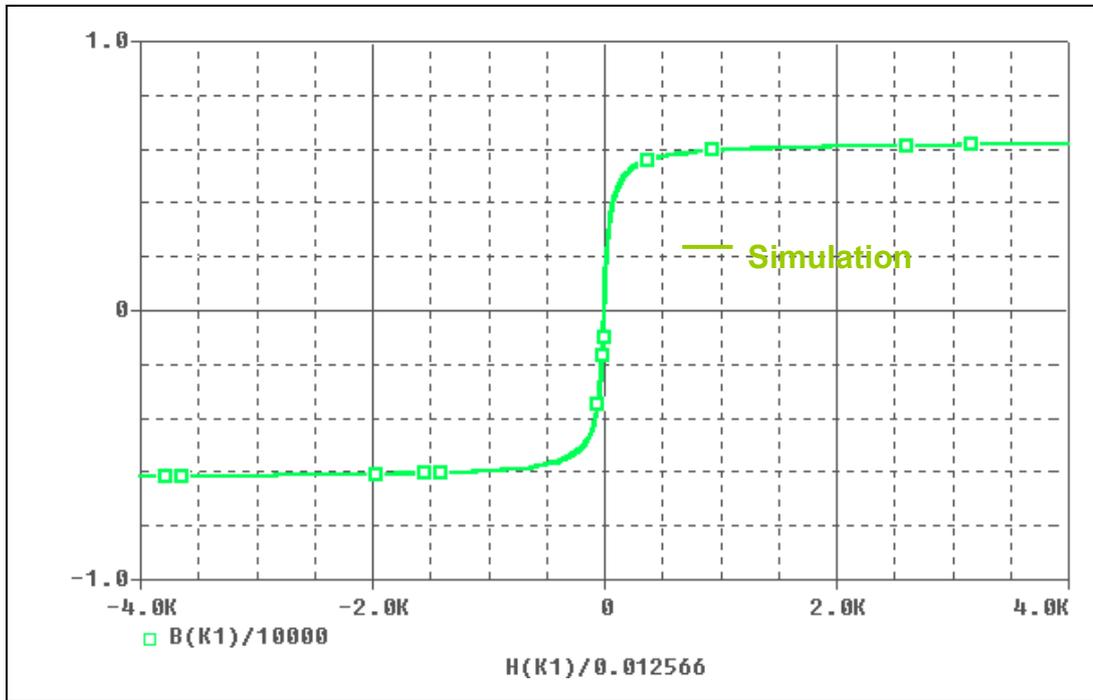
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
10	165	159.575	3.288
20	240	230.048	4.147
30	290	282.148	2.708
40	330	321.414	2.602
50	360	353.192	1.891
60	380	377.947	0.540
70	400	398.09	0.478
80	410	416.711	1.637
90	420	430.503	2.501
100	425	443.858	4.437
20	160	161.348	0.843
30	240	230.186	4.089
40	290	281.878	2.801
50	330	322.351	2.318
60	360	353.544	1.793
70	380	378.681	0.347
80	400	399.233	0.192
90	415	417.032	0.490
100	425	431.818	1.604