

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:7H10
MANUFACTURER:FDK



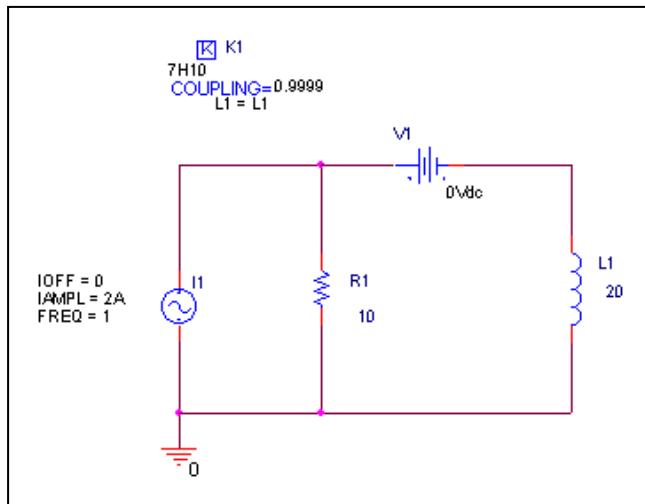
Bee Technologies Inc.

MAGNETIC CORE

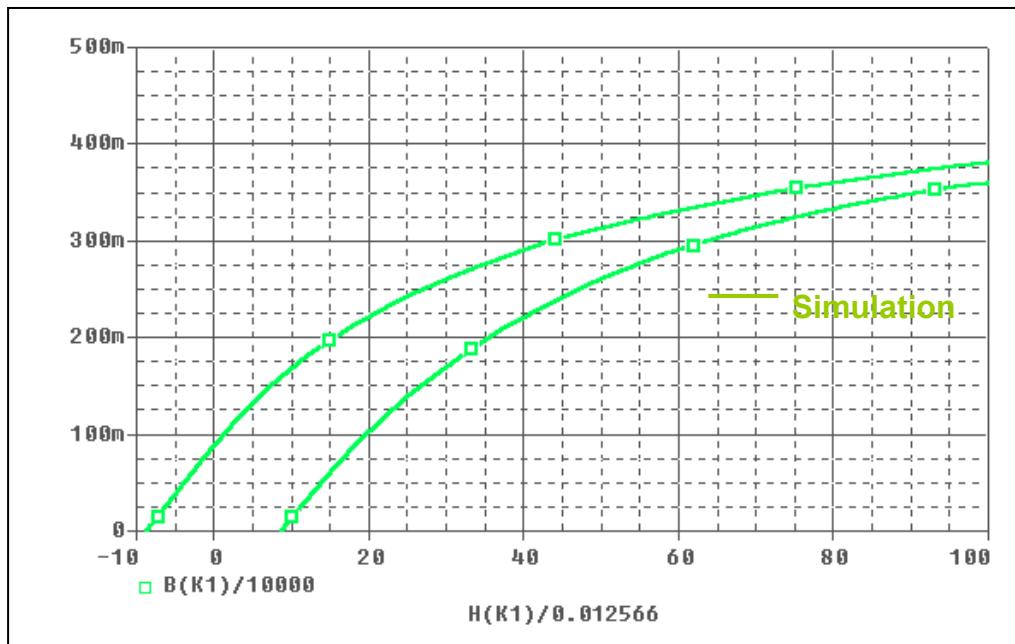
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

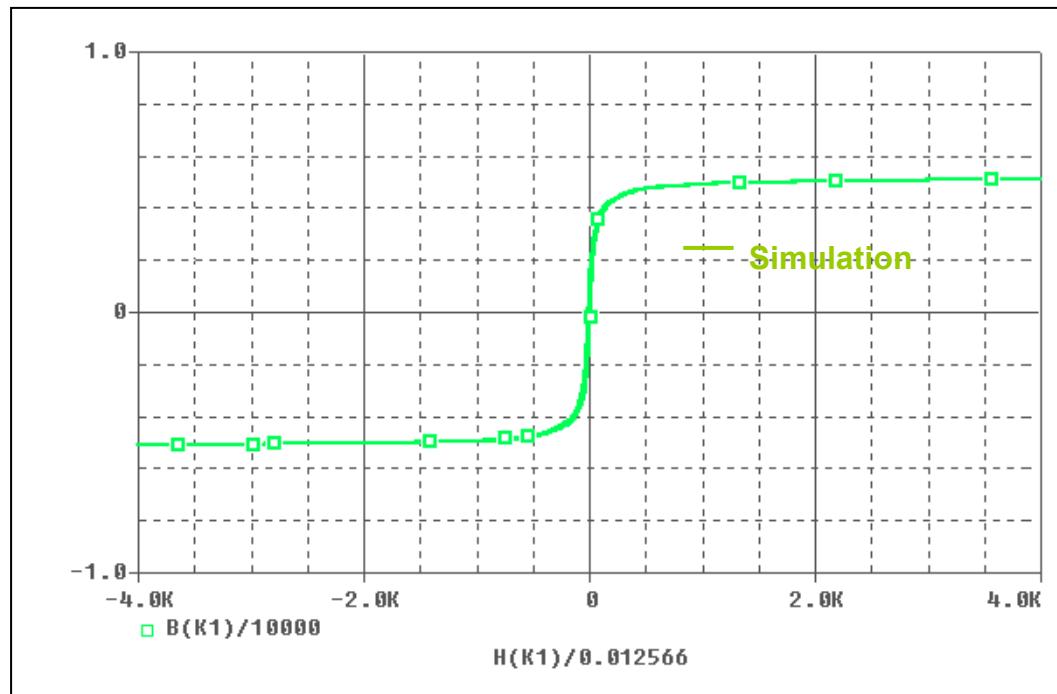
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
10	170	167.392	1.534
20	225	220.753	1.888
30	260	259.622	0.145
40	290	288.851	0.396
50	320	312.532	2.334
60	340	331.288	2.562
70	348	346.731	0.365
80	355	359.513	1.271
90	365	370.656	1.550
100	375	380.711	1.523
14	50	51.418	2.836
20	100	101.607	1.607
40	210	219.989	4.757
50	260	260.168	0.065
60	295	289.759	1.777
70	320	313.142	2.143
80	335	332.568	0.726
90	350	347.883	0.605
100	375	360.813	3.783