

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:DN70
MANUFACTURER:TDK



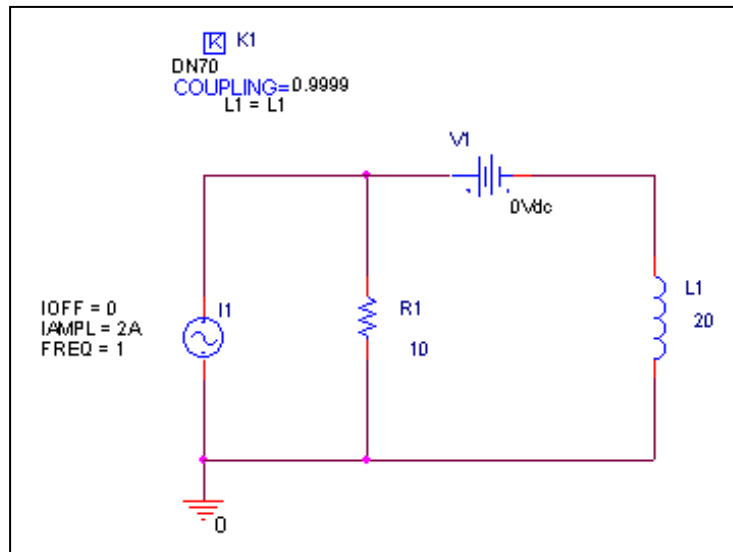
Bee Technologies Inc.

MAGNETIC CORE

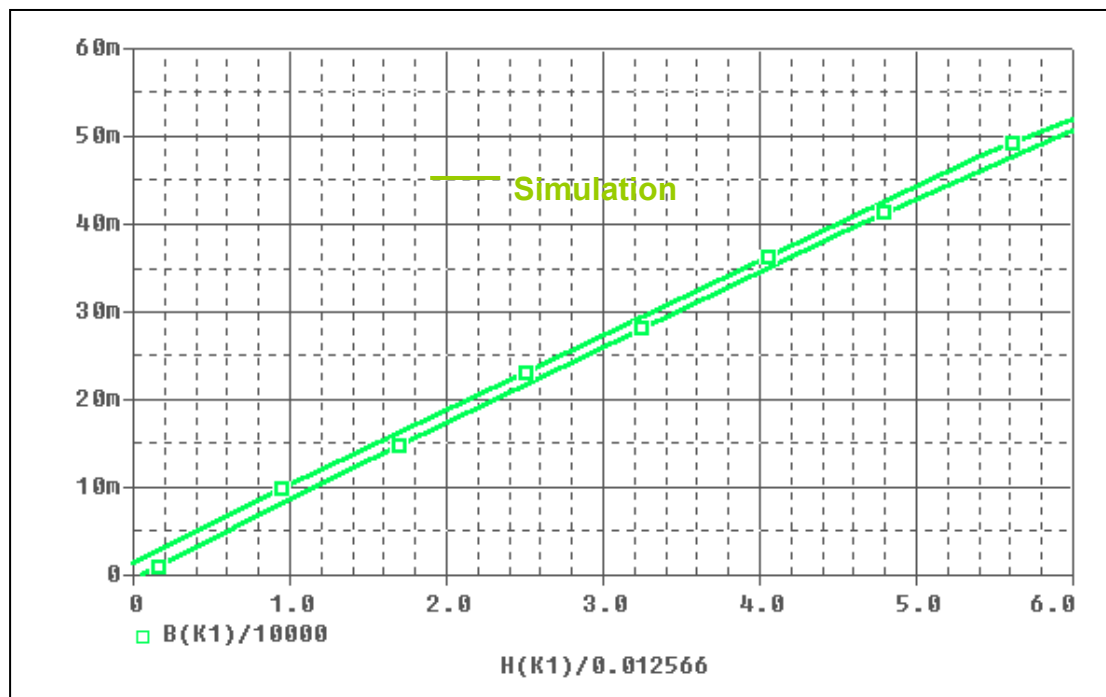
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

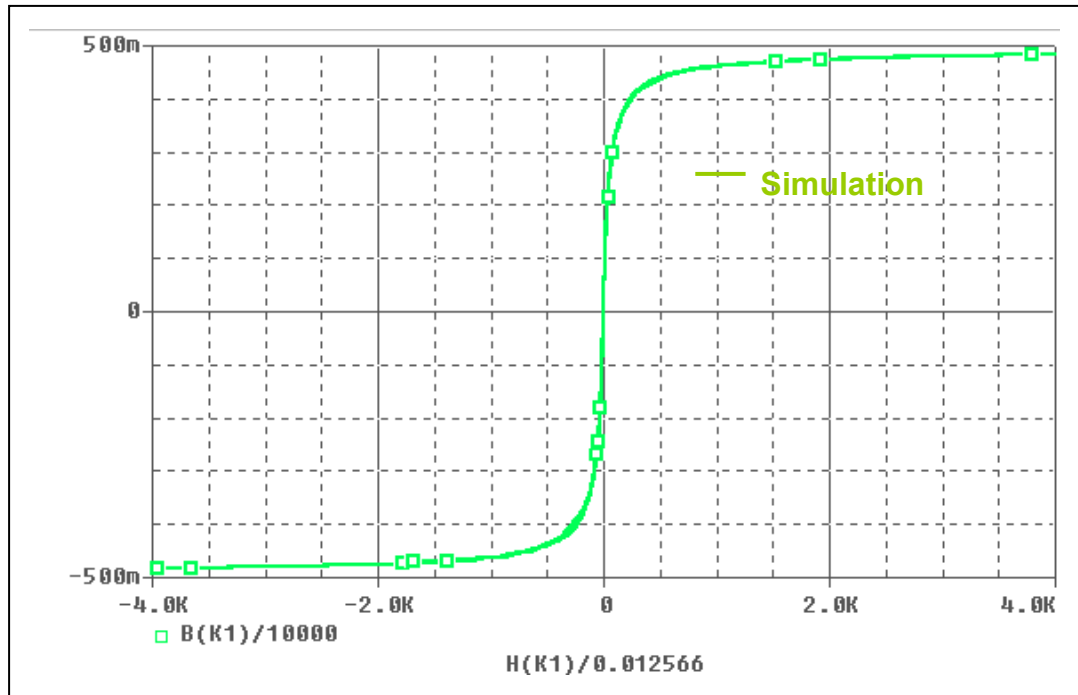
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
1	10	10.22	2.200
1.5	15	14.471	3.527
3	28	27.223	2.775
4	37	35.725	3.446
5	45	44.227	1.718
5.5	50	48.386	3.228
0.5	4	4.0293	0.733
2	17	17.285	1.676
2.5	22	21.603	1.805
3	27	25.921	3.996
3.5	32	30.238	5.506
4	35	34.556	1.269
4.5	40	38.874	2.815
5	45	42.837	4.807