

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:HS52
MANUFACTURER:TDK



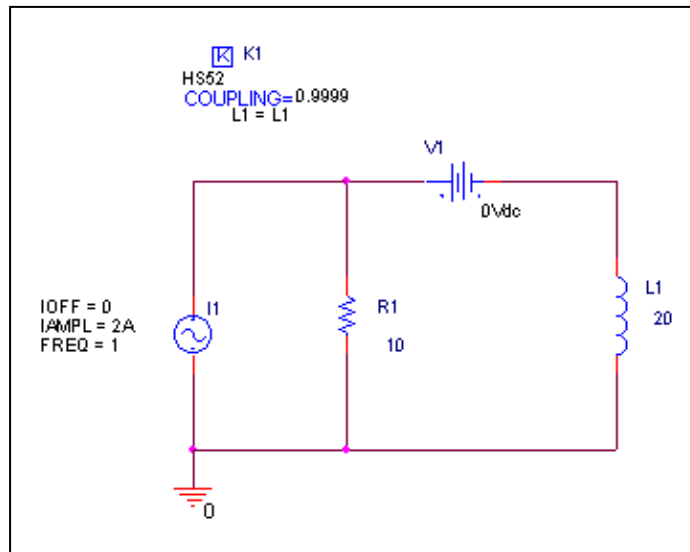
Bee Technologies Inc.

MAGNETIC CORE

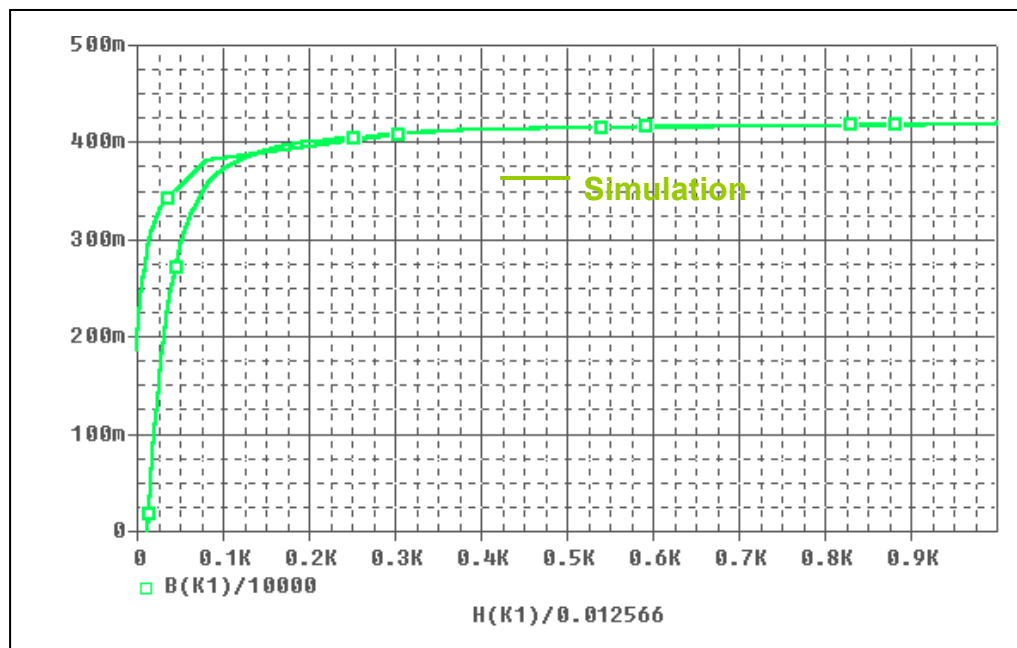
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

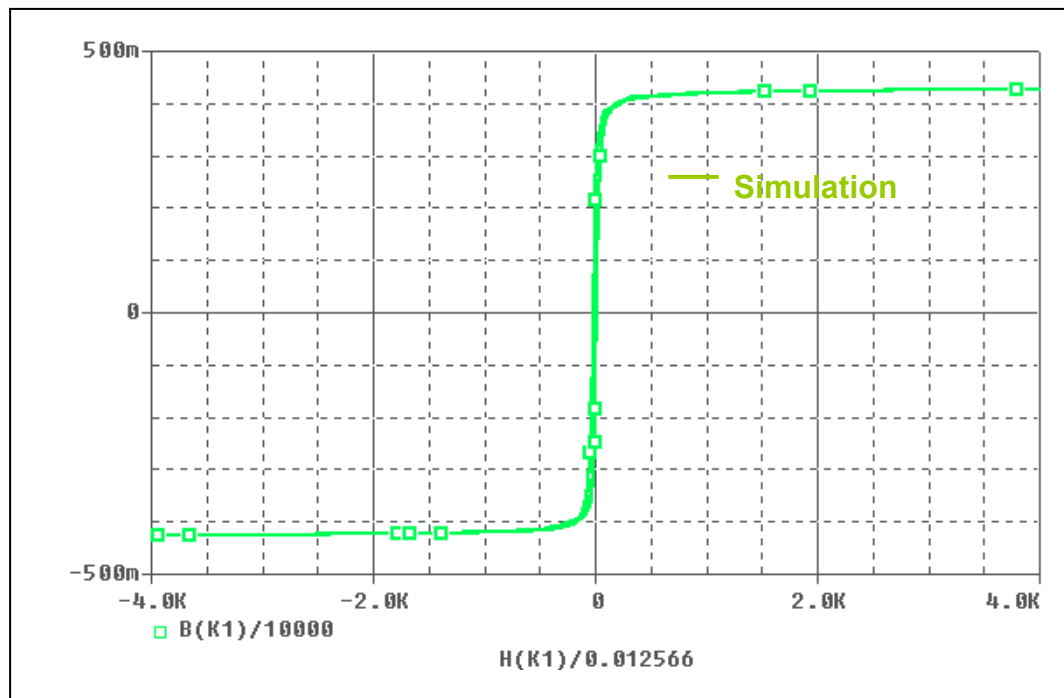
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
100	375	383.355	2.228
200	405	395.342	2.385
300	408	407.329	0.164
400	410	412.584	0.630
500	415	414.739	0.063
600	418	416.671	0.318
700	420	417.643	0.561
800	422	418.616	0.802
900	425	419.317	1.337
1000	425	419.91	1.198