

# Device Modeling Report

COMPONENTS:MAGNETIC CORE  
PART NUMBER:3F3  
MANUFACTURER:FERROXCUBE



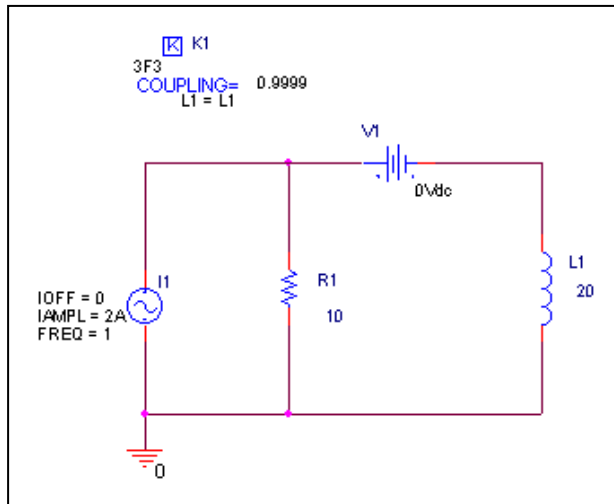
**Bee Technologies Inc.**

## MAGNETIC CORE

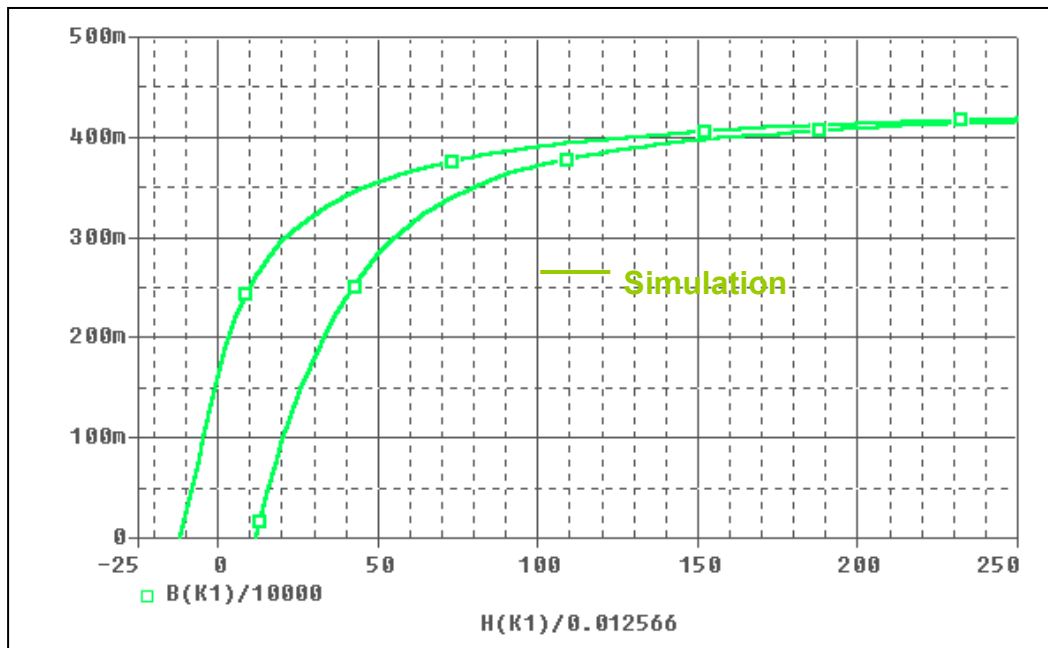
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

# Hysteresis Curve Characteristics

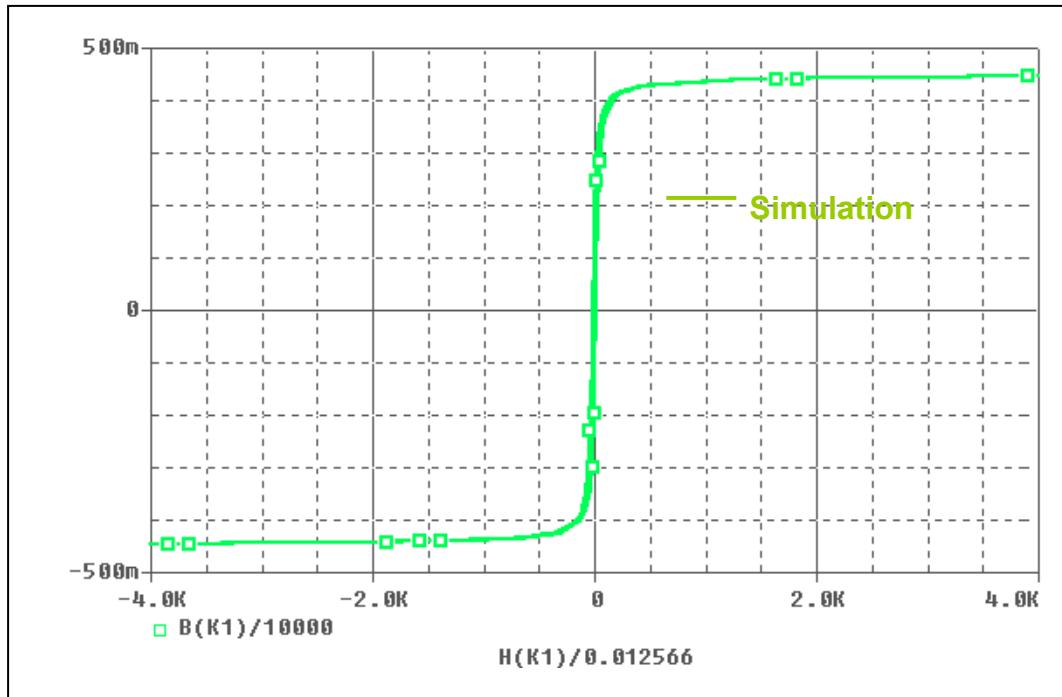
## Evaluation Circuit



## Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
0	152	154.93	1.928
50	348	351.213	0.923
75	380	376.615	0.891
100	398	389.424	2.155
125	400	397.585	0.604
150	408	404.085	0.960
175	416	409.28	1.615
225	420	416.017	0.948
250	420	418.146	0.441
25	145	139.085	4.079
75	350	342.168	2.238
100	376	370.977	1.336
125	398	389.99	2.013
150	405	396.944	1.989
175	416	403.964	2.893
225	420	412.528	1.779
250	420	415.852	0.988