

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E25
MANUFACTURER:FERROXCUBE



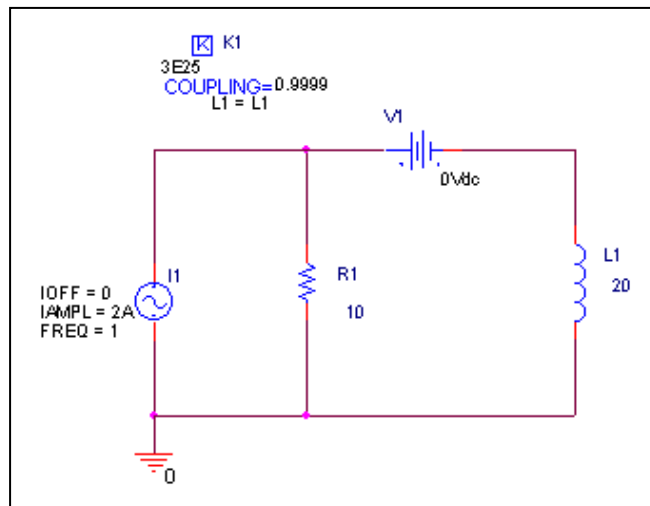
Bee Technologies Inc.

MAGNETIC CORE

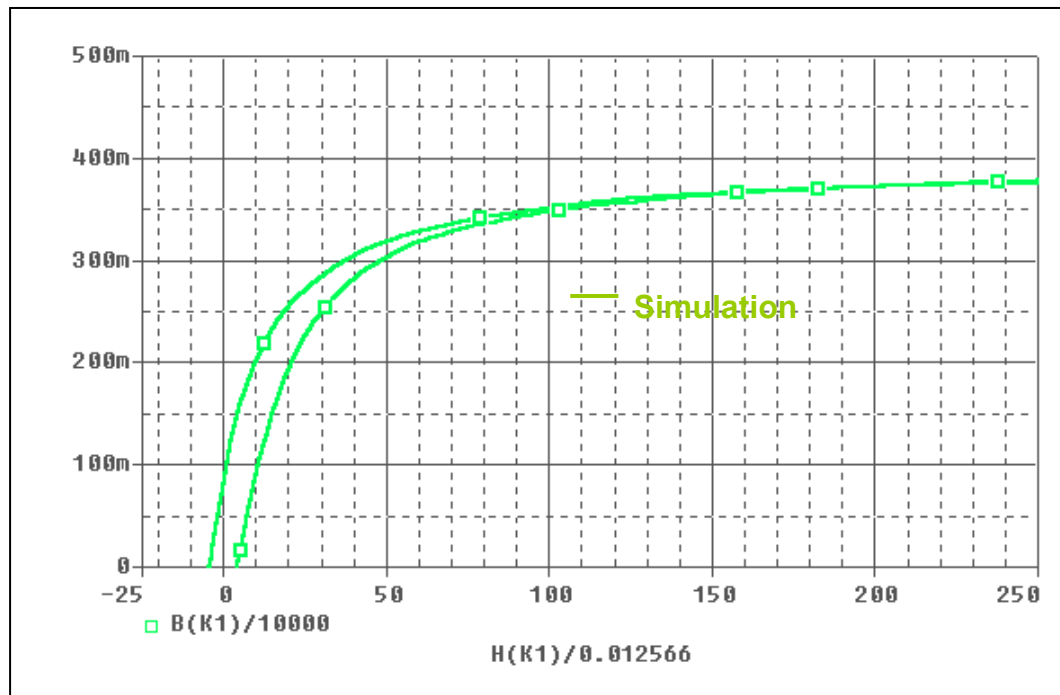
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

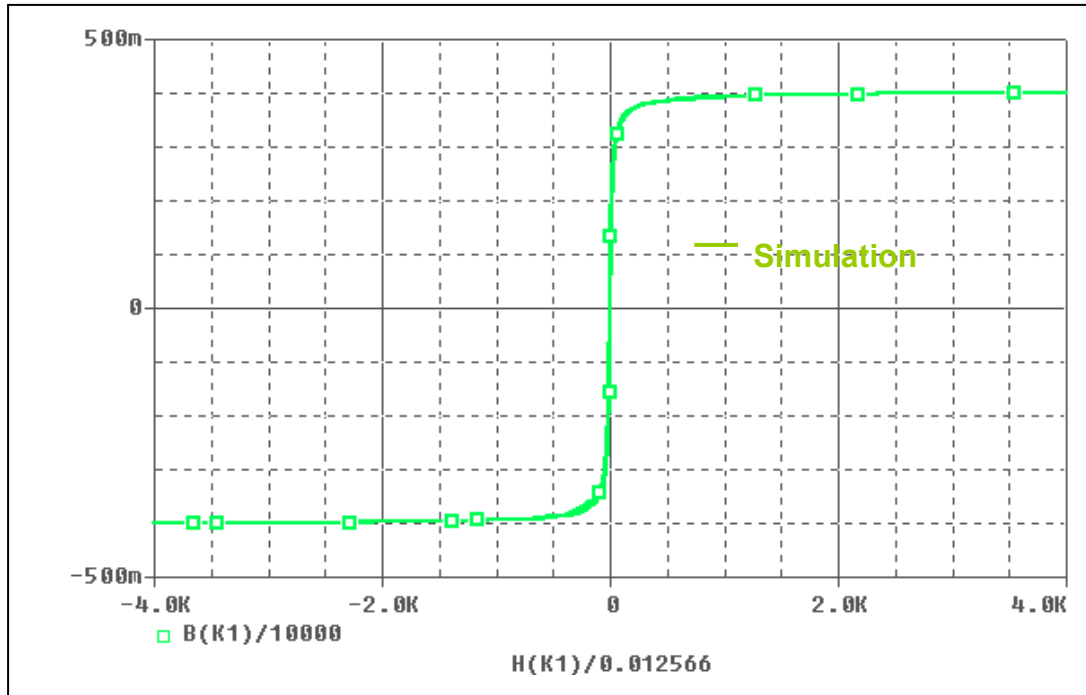
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
25	265	270.227	1.972
50	325	317.694	2.248
75	350	339.253	3.071
100	355	350.657	1.223
125	360	360.018	0.005
150	365	365.744	0.204
175	367	369.044	0.557
200	370	371.889	0.511
225	375	374.864	0.036
250	375	377.774	0.740
50	320	303.208	5.247
75	345	332.319	3.676
100	352	347.425	1.300
125	360	357.226	0.771
150	365	363.738	0.346
175	367	368.379	0.376
200	370	371.744	0.471
225	375	374.862	0.037
250	375	376.877	0.501