

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E6
MANUFACTURER:FERROXCUBE



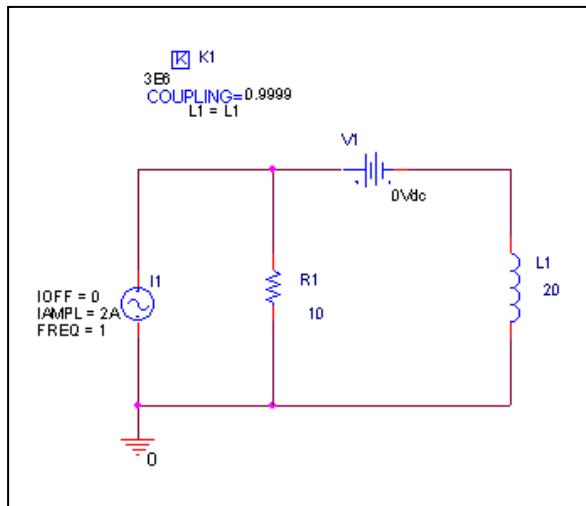
Bee Technologies Inc.

MAGNETIC CORE

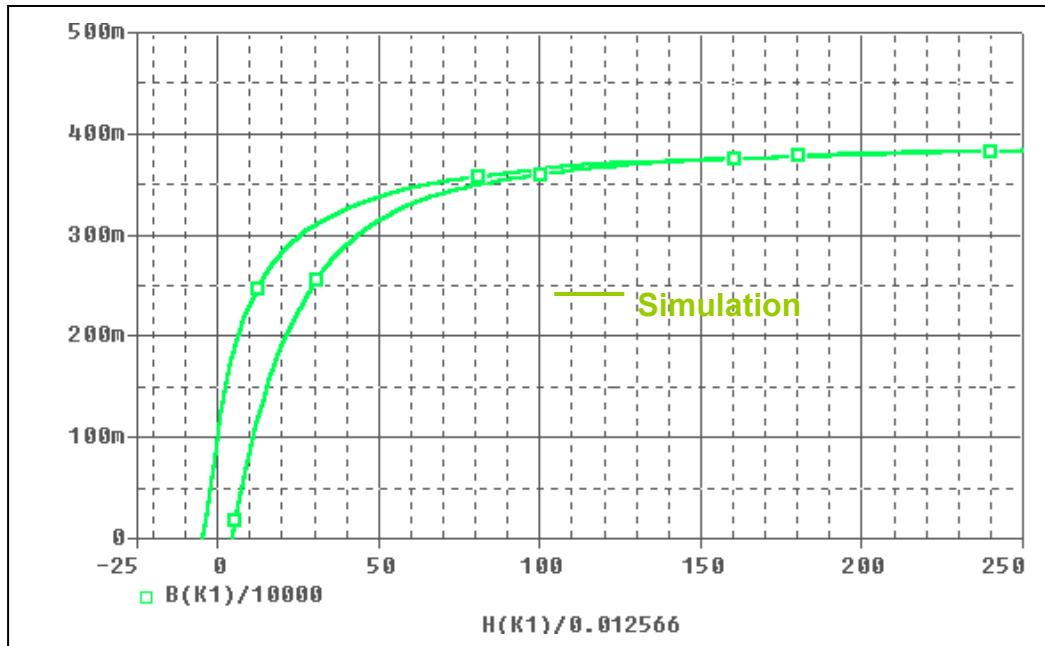
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

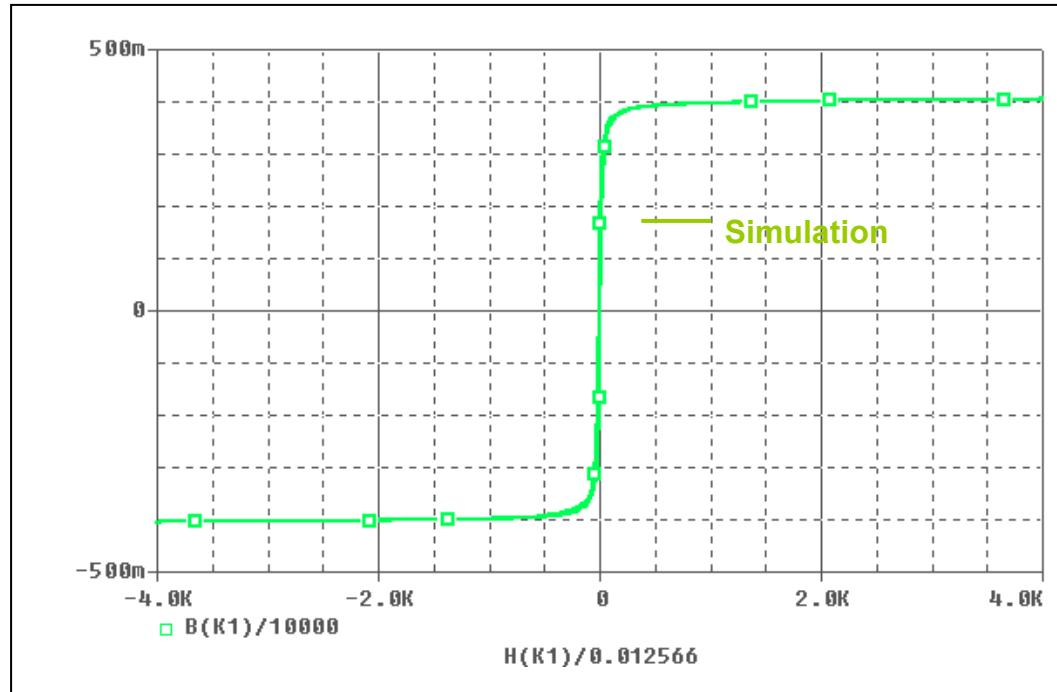
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
25	310	297.65	3.984
50	348	337.079	3.138
75	365	354.465	2.886
100	370	363.736	1.693
125	375	370.373	1.234
150	380	373.153	1.802
175	385	375.994	2.339
200	385	378.712	1.633
225	385	381.554	0.895
250	385	384.333	0.173
75	360	345.716	3.968
100	363	359.691	0.912
125	365	368.29	0.901
150	370	373.67	0.992
175	378	377.726	0.072
200	385	380.456	1.180
225	385	382.815	0.568
250	385	384.613	0.101