

Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:3E8
MANUFACTURER:FERROXCUBE



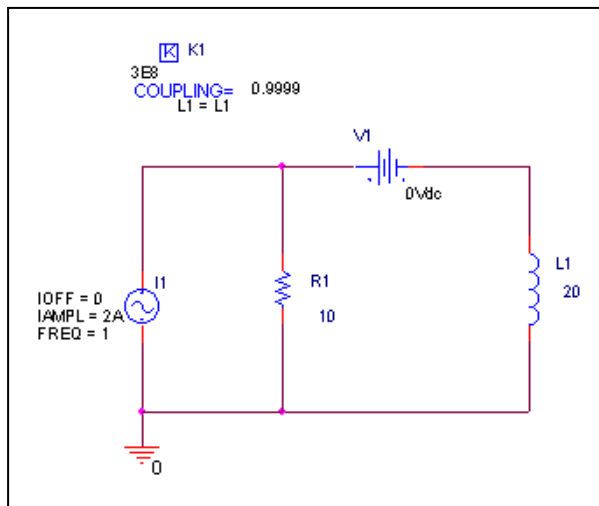
Bee Technologies Inc.

MAGNETIC CORE

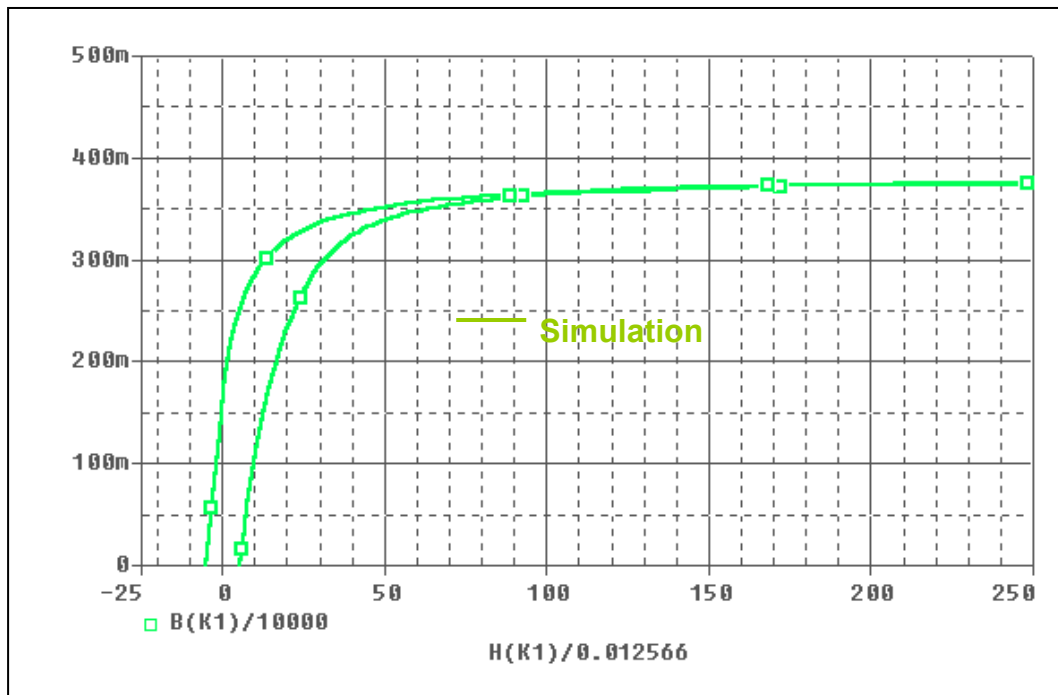
Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

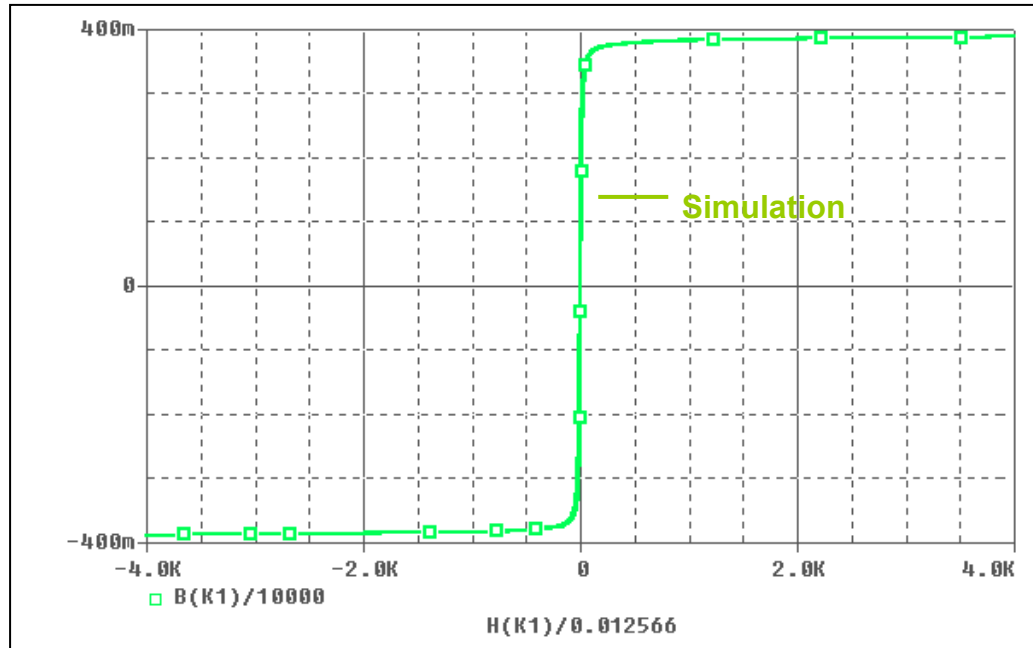
Evaluation Circuit



Simulation result



Simulation result



Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
50	340	351.28	3.318
75	365	361.343	1.002
100	370	365.795	1.136
125	372	369.379	0.705
150	372	371.567	0.116
175	375	373.354	0.439
200	375	373.999	0.267
225	375	374.673	0.087
250	375	375.332	0.089
25	280	269.366	3.798
50	336	339.265	0.972
75	355	356.308	0.368
100	365	363.575	0.390
125	370	367.864	0.577
150	370	370.58	0.157
175	375	372.574	0.647
200	375	374.06	0.251
225	375	375.175	0.047
250	375	376.071	0.286