Device Modeling Report

COMPONENTS:MAGNETIC CORE
PART NUMBER:PC44
MANUFACTURER:TDK
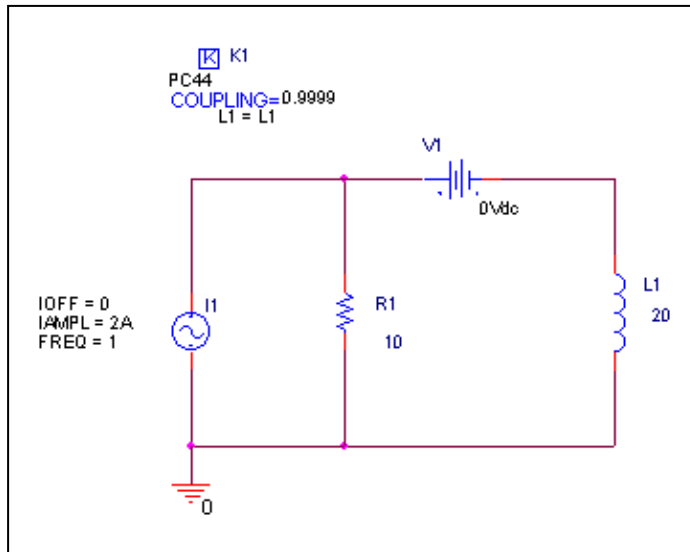
Bee Technologies Inc.

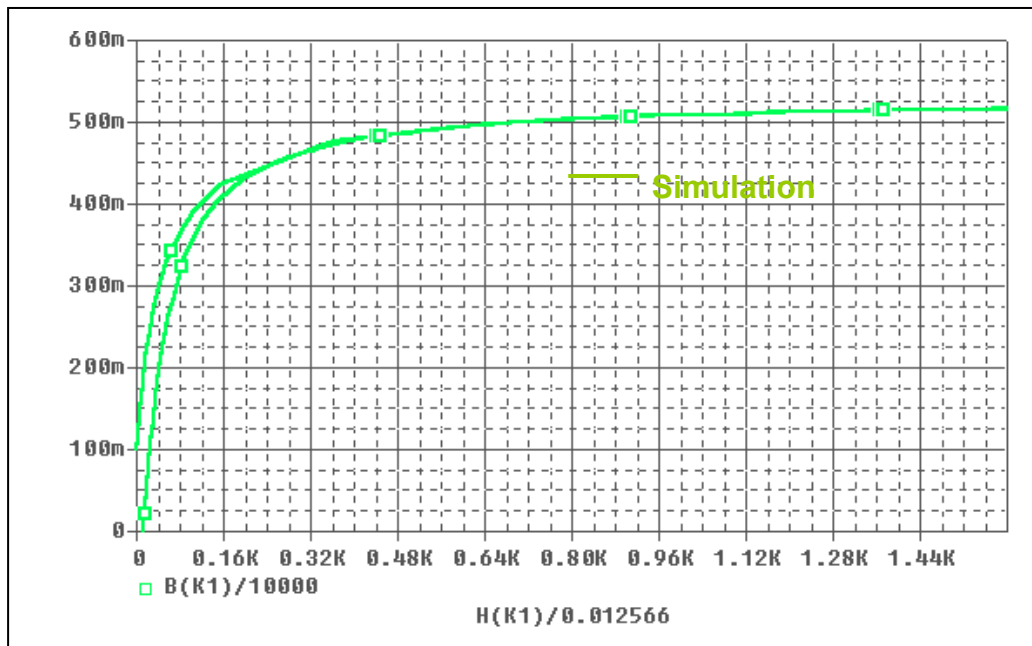## MAGNETIC CORE

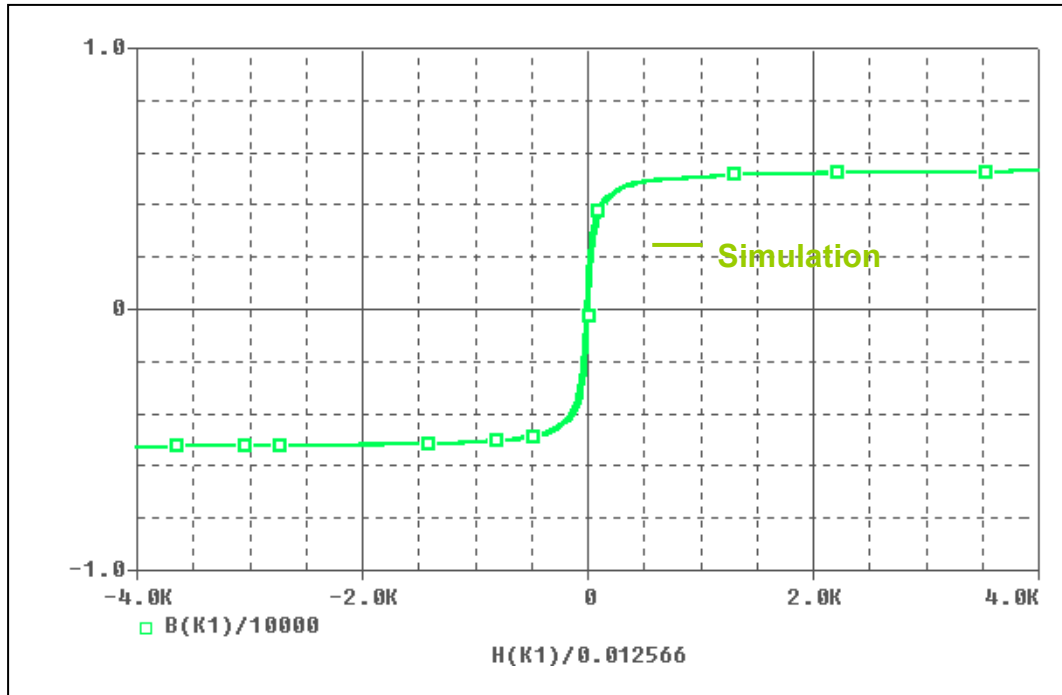| Pspice model parameter	Model description
A	thermal energy parameter
K	domain anisotropy parameter
C	domain flexing parameter
MS	magnetization saturation

Hysteresis Curve Characteristics

Simulation result

Simulation result

Comparison Table

H(A/m)	B(mT) Measurement	B(mT) Simulation	%Error
80	365	365.957	0.262
160	440	425.675	3.256
320	475	465.938	1.908
480	490	485.835	0.850
640	500	496.153	0.769
800	500	502.314	0.463
960	503	507.021	0.799
1120	507	510.495	0.689
1280	510	512.909	0.570
1440	512	514.976	0.581
1600	515	516.699	0.330
80	320	317.021	0.931
160	420	410.684	2.218
320	470	465.747	0.905
480	490	485.523	0.914
640	500	496.153	0.769
800	500	502.314	0.463
960	503	507.021	0.799
1120	507	510.495	0.689
1280	510	512.909	0.570
1440	512	514.976	0.581
1600	515	516.699	0.330