

Device Modeling Report

COMPONENTS: Inductance
PART NUMBER: LQH44PN4R7MP0
MANUFACTURER: Murata Manufacturing Co., Ltd.
Remark: DC Model

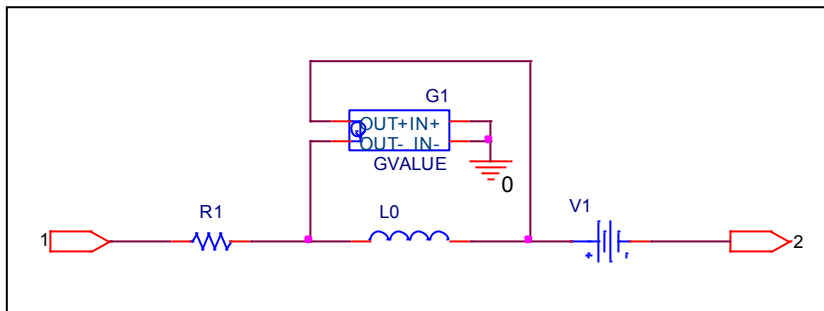


Bee Technologies Inc.

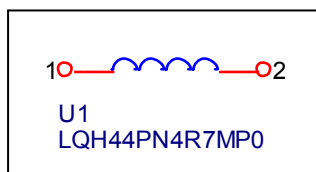
SPIICE MODEL

```
*$
* PART NUMBER: LQH44PN4R7MP0
* MANUFACTURER: Murata Manufacturing Co., Ltd.
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.subckt LQH44PN4R7MP0 1 2
V_V1 N06268 2 0Vdc
G_G1 N06268 N06258 VALUE { IF(I(V_V1)<0,-(I(V_V1)*I(V_V1))*
+ -0.06),I(V_V1)*I(V_V1)*-0.06) }
L_L0 N06258 N06268 4.5uH
R_R1 1 N06258 0.08
.ENDS
*$
```

Model Equivalent Circuit

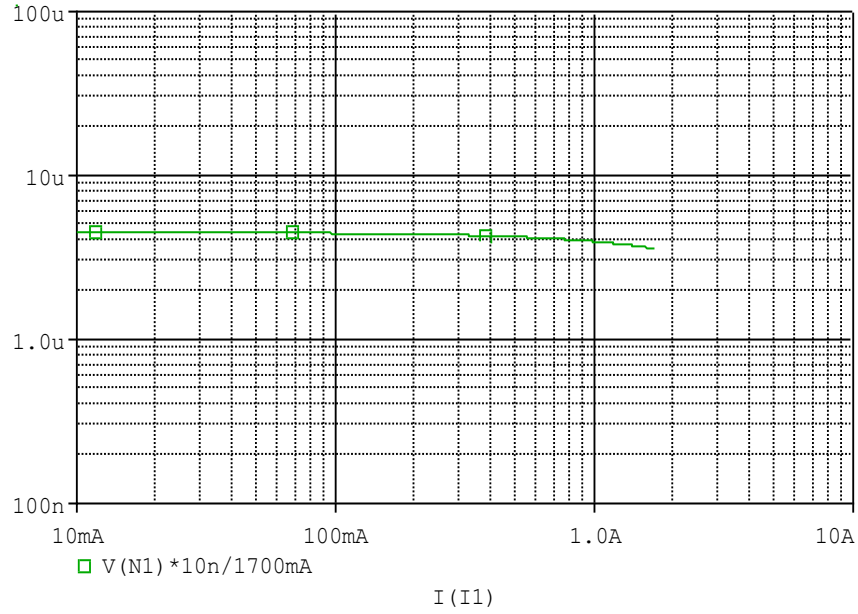


Circuit Configuration

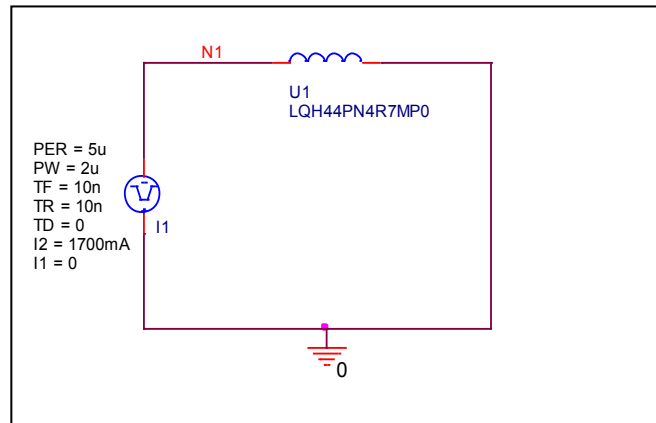


Inductance-Current Characteristics

Circuit Simulation result

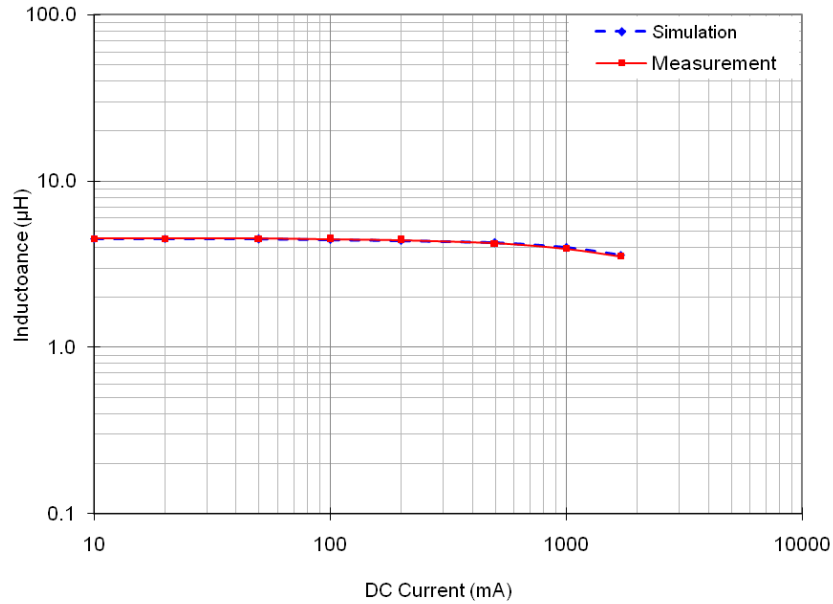


Evaluation circuit



Comparison Graph

Simulation result



Comparison table

I (mA)	L (µH)		%Error
	Measurement	Simulation	
10	4.500	4.494	-0.13
20	4.500	4.489	-0.24
50	4.500	4.473	-0.60
100	4.460	4.446	-0.31
200	4.400	4.392	-0.18
500	4.200	4.230	0.71
1000	3.920	3.960	1.02
1700	3.525	3.582	1.62