

# Device Modeling Report

COMPONENTS: Inductance

PART NUMBER: LQH44PN2R2MJ0

MANUFACTURER: Murata Manufacturing Co., Ltd.

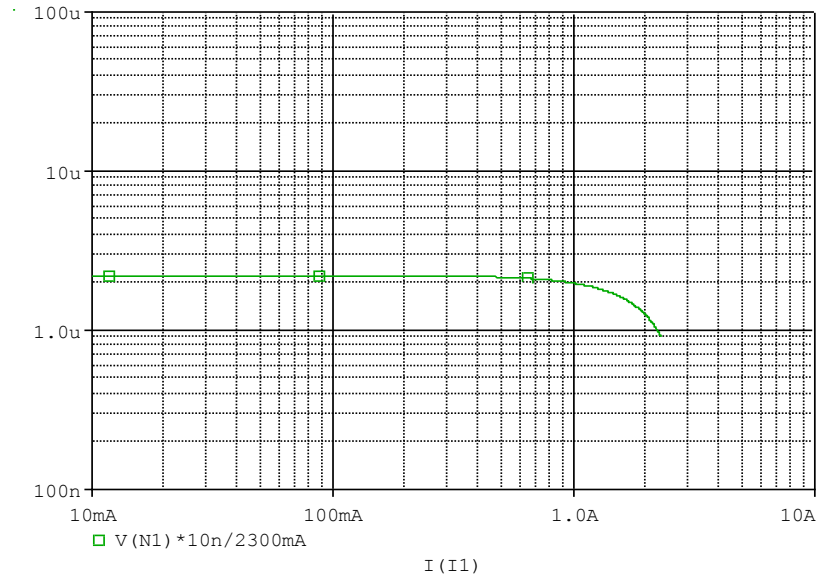
Remark: DC Model



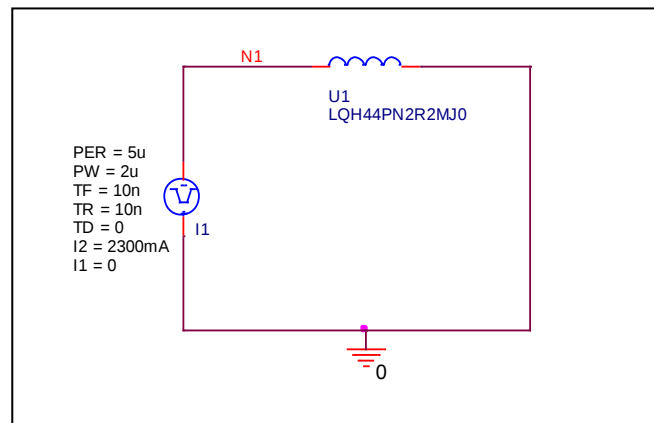
**Bee Technologies Inc.**

# Inductance-Current Characteristics

## Circuit Simulation result

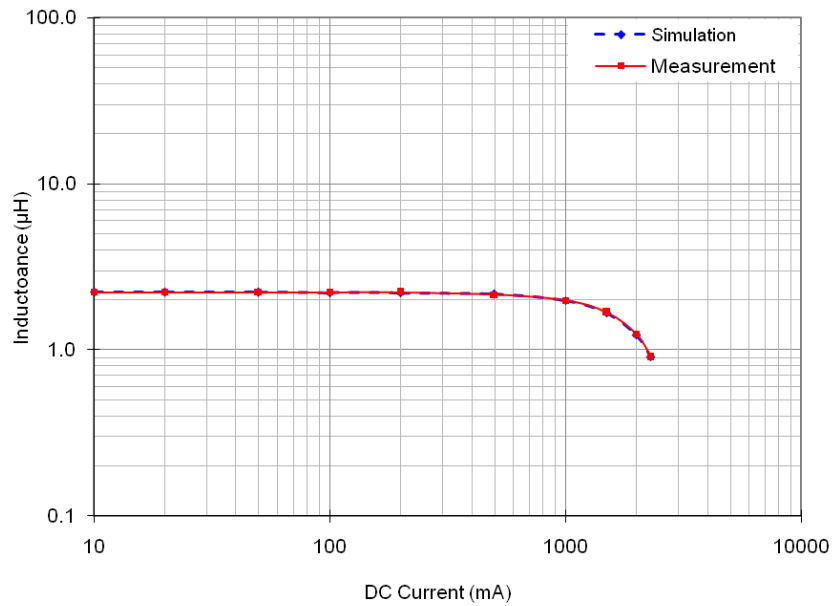


## Evaluation circuit



## Comparison Graph

Simulation result



Comparison table

| I (mA) | L (μH)      |            | %Error |
|--------|-------------|------------|--------|
|        | Measurement | Simulation |        |
| 10     | 2.220       | 2.210      | -0.45  |
| 20     | 2.220       | 2.210      | -0.45  |
| 50     | 2.220       | 2.210      | -0.45  |
| 100    | 2.220       | 2.210      | -0.45  |
| 200    | 2.217       | 2.205      | -0.56  |
| 500    | 2.140       | 2.158      | 0.83   |
| 1000   | 1.975       | 1.977      | 0.12   |
| 1500   | 1.675       | 1.669      | -0.37  |
| 2000   | 1.240       | 1.232      | -0.62  |
| 2300   | 0.900       | 0.908      | 0.89   |