

# Device Modeling Report

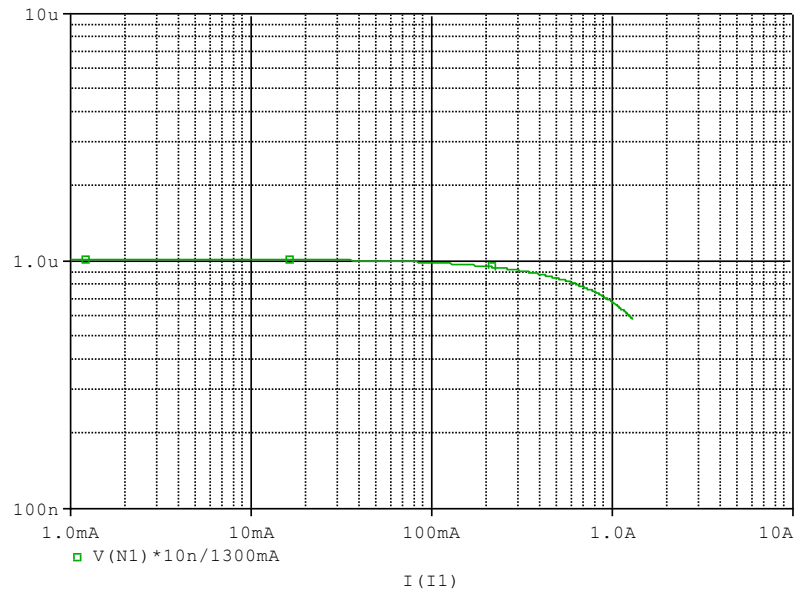
COMPONENTS: Inductor DC Model  
PART NUMBER: LQM2HPN1R0MG0  
MANUFACTURER: Murata Manufacturing Co, Ltd.  
Remark: DC Model



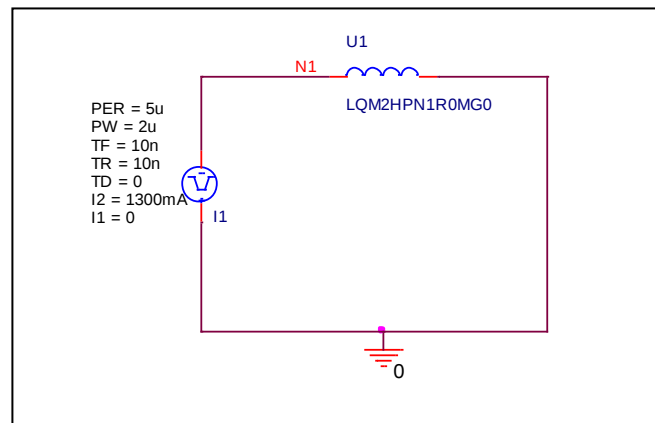
**Bee Technologies Inc.**

# Inductance-Current Characteristics

## Circuit Simulation result

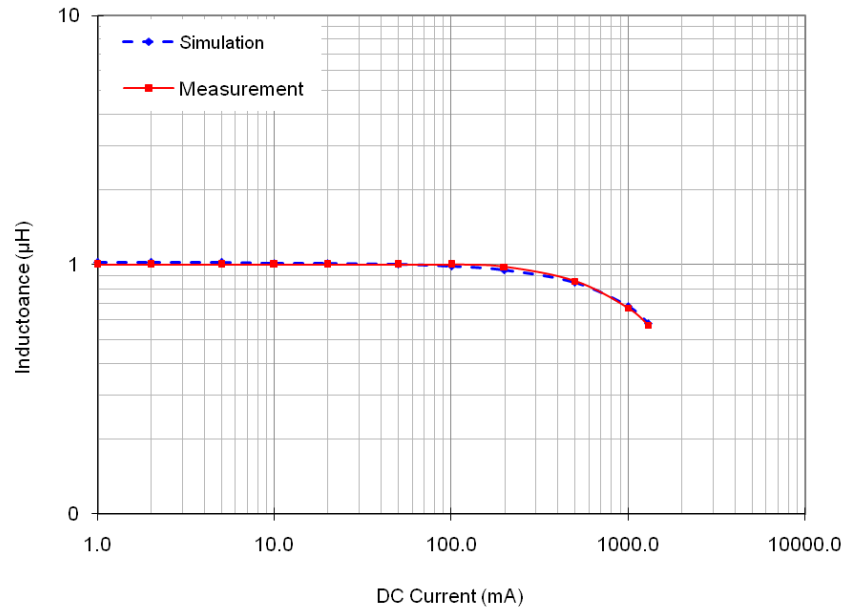


## Evaluation circuit



## Comparison Graph

Simulation result



Comparison table

| I (mA) | L (μH)      |            | %Error |
|--------|-------------|------------|--------|
|        | Measurement | Simulation |        |
| 1      | 1.000       | 1.020      | 1.97   |
| 2      | 1.000       | 1.019      | 1.93   |
| 5      | 1.000       | 1.018      | 1.83   |
| 10     | 1.000       | 1.017      | 1.66   |
| 20     | 1.000       | 1.013      | 1.33   |
| 50     | 1.000       | 1.003      | 0.32   |
| 100    | 1.000       | 0.986      | -1.37  |
| 200    | 0.980       | 0.953      | -2.79  |
| 500    | 0.860       | 0.852      | -0.97  |
| 1000   | 0.670       | 0.683      | 2.00   |
| 1300   | 0.570       | 0.582      | 2.18   |