

# Device Modeling Report

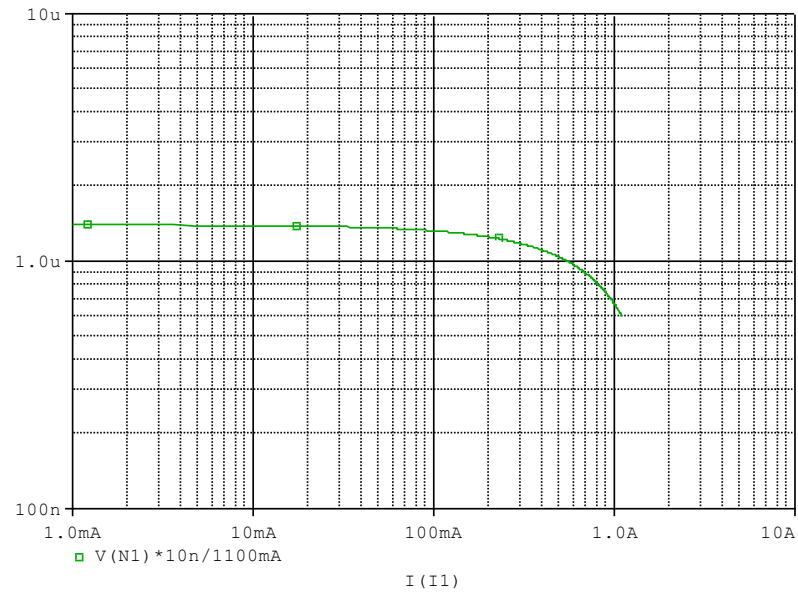
COMPONENTS: Inductor DC Model  
PART NUMBER: LQM2HPN1R5MG0  
MANUFACTURER: Murata Manufacturing Co, Ltd.  
Remark: DC Model



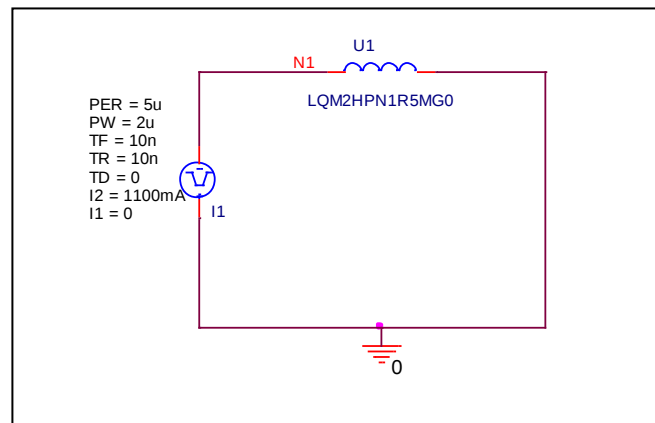
**Bee Technologies Inc.**

## Inductance-Current Characteristics

### Circuit Simulation result

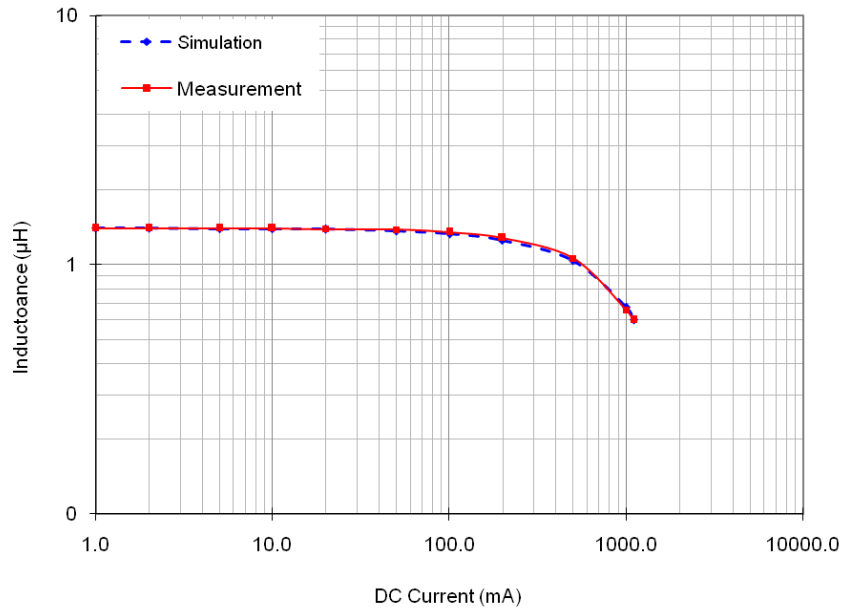


### Evaluation circuit



## Comparison Graph

Simulation result



Comparison table

| I (mA) | L (μH)      |            | %Error |
|--------|-------------|------------|--------|
|        | Measurement | Simulation |        |
| 1      | 1.400       | 1.399      | -0.05  |
| 2      | 1.400       | 1.399      | -0.11  |
| 5      | 1.400       | 1.396      | -0.26  |
| 10     | 1.400       | 1.393      | -0.52  |
| 20     | 1.390       | 1.385      | -0.33  |
| 50     | 1.380       | 1.364      | -1.19  |
| 100    | 1.350       | 1.327      | -1.69  |
| 200    | 1.280       | 1.254      | -2.00  |
| 500    | 1.060       | 1.036      | -2.26  |
| 1000   | 0.660       | 0.672      | 1.82   |
| 1100   | 0.600       | 0.599      | -0.13  |