

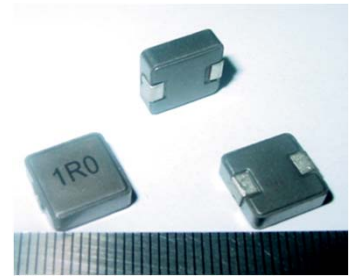


SMHC4015 Series

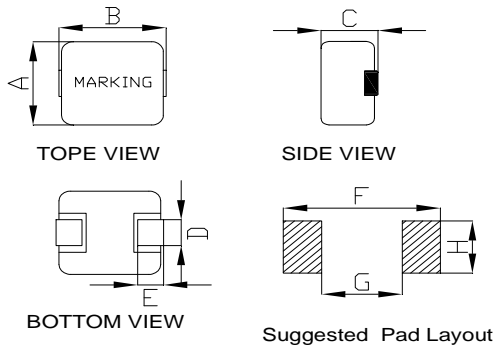


1. Features:

- Molding Inductor with lower core loss for high frequency application.
- Inductance Range:0.19uH to 100uH. Custom values are welcomed.
- High current output chokes, up to 90.0 Amp.with approx. 30% roll off.
- Ideal for desktop computers,servers,workstations,VGA card ,High-End switches and routers,Voltage-regulator modules & High Density Board Design.
- Very low DC resistance and compact size,high performance,low cost.
- Operating Temperature Range -55°C to + 125°C ; RoHs compliance .
- T & R Qtys: 800 pcs , 13" Reel ;



2. Mechanical Dimension(Unit:mm):



| Type | SMHC4015 |
|------|-------------|
| A | 10.5 ± 0.5 |
| B | 11.5 ± 1.0 |
| C | 4.0 (Max.) |
| D | 3.0 (Ref.) |
| E | 2.3 (Ref.) |
| F | 13.0 (Ref.) |
| G | 6.0 (Ref.) |
| H | 4.0 (Ref.) |

3. Electrical Characteristic of SMHC4015 Series:

| Part Number | OCL (uH) ± 20% | DCR (mΩ) (Max.) | Isat (A) @25°C | L@Isat (uH) Typ. | Irms (A) @25°C | L@Irms (uH) Typ. |
|-----------------|-------------------|--------------------|-------------------|---------------------|-------------------|---------------------|
| SMHC4015-R19MHF | 0.19 | 0.95 | 90.00 | 0.155 | 40.00 | 0.180 |
| SMHC4015-R36MHF | 0.36 | 1.40 | 60.00 | 0.280 | 31.50 | 0.325 |
| SMHC4015-R56MHF | 0.56 | 1.80 | 49.00 | 0.426 | 27.50 | 0.495 |
| SMHC4015-1R0MHF | 1.00 | 4.10 | 36.00 | 0.668 | 17.50 | 0.860 |
| SMHC4015-2R2MHF | 2.20 | 9.00 | 25.50 | 1.695 | 12.00 | 2.015 |
| SMHC4015-3R3MHF | 3.30 | 11.80 | 18.60 | 2.335 | 10.00 | 2.830 |
| SMHC4015-4R7MHF | 4.70 | 16.50 | 17.00 | 3.307 | 9.50 | 4.000 |
| SMHC4015-5R6MHF | 5.60 | 19.30 | 16.00 | 4.056 | 8.50 | 4.916 |
| SMHC4015-6R8MHF | 6.80 | 23.30 | 13.50 | 4.641 | 8.00 | 5.520 |
| SMHC4015-8R2MHF | 8.20 | 34.00 | 12.50 | 6.274 | 7.00 | 7.325 |
| SMHC4015-100MHF | 10.00 | 36.50 | 12.00 | 7.583 | 6.80 | 8.850 |
| SMHC4015-150MHF | 15.00 | 45.00 | 6.00 | 11.730 | 6.25 | 11.580 |
| SMHC4015-220MHF | 22.00 | 66.00 | 4.50 | 17.720 | 5.00 | 17.395 |
| SMHC4015-330MHF | 33.00 | 94.50 | 4.00 | 24.885 | 4.40 | 24.750 |
| SMHC4015-470MHF | 47.00 | 145.00 | 3.00 | 38.223 | 4.00 | 31.000 |
| SMHC4015-101MHF | 100.00 | 270.00 | 2.25 | 79.443 | 3.00 | 71.855 |

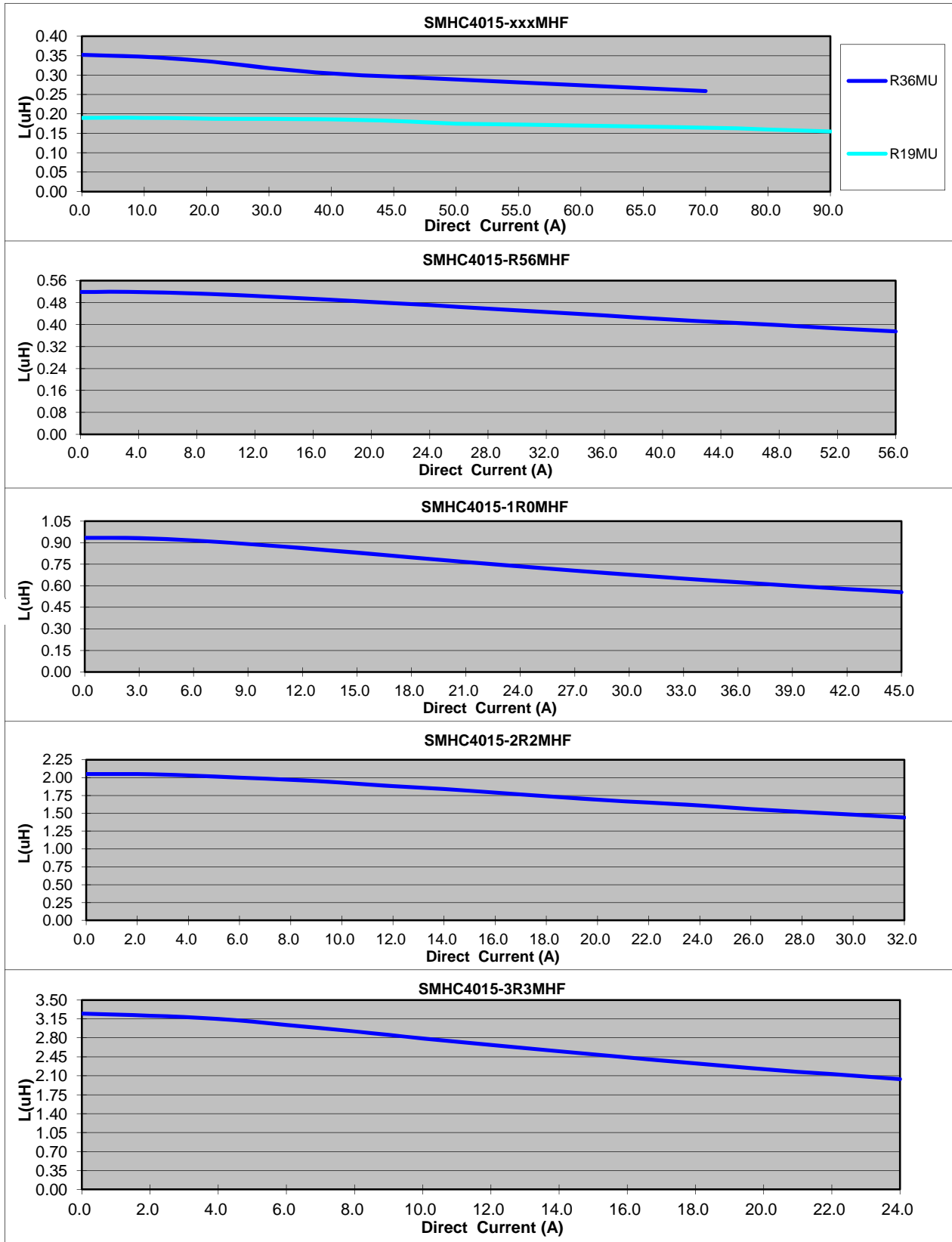
Note:

- 1>.Open Circuit Inductance(OCL) and L@Irms and L@Isat are measured at: 100KHz, 1.0V ;(Ta=25°C).
- 2>.Isat: DC current that causes inductance to drop approximately by 30% from OCL ;(Ta=25°C).
- 3>. Irms: DC current for an approximate temperature rise of 40°C without core loss,.Derating is necessary for AC currents, PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 125°C under worst case operating conditions verified in the end application.
- 4>.Inductance Vs. DC current curve, please see the next page to get more detail information.



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Inductance vs. Current

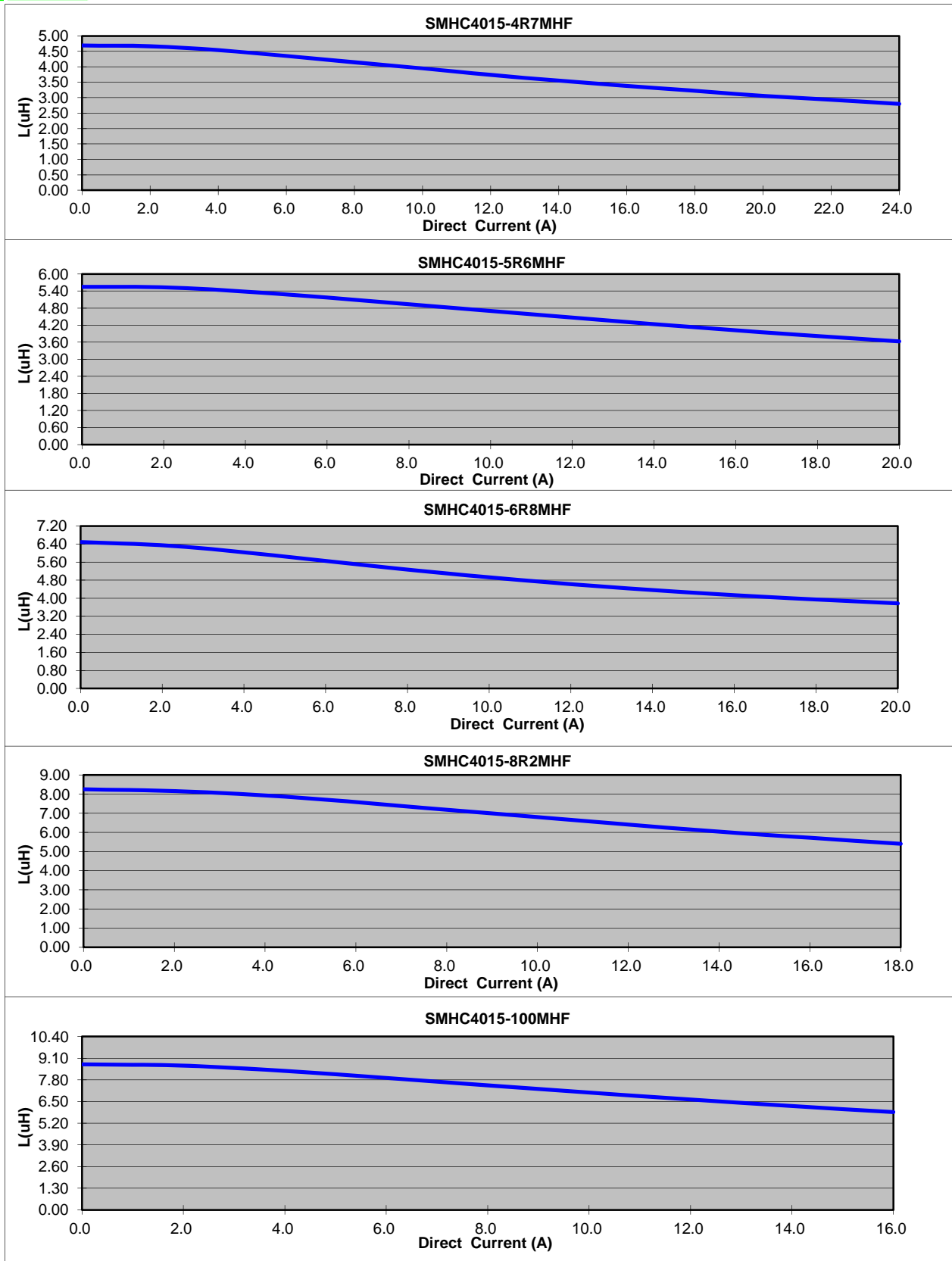




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