

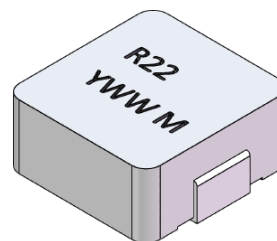


SM4015A Series



1. Features of SM4015A series:

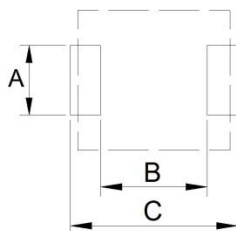
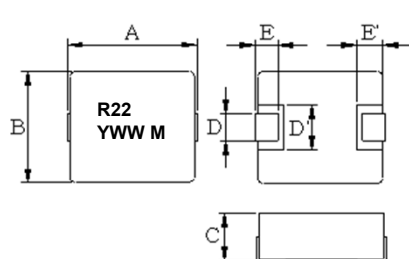
- Molded Inductor in 11.50 x 10.00mm foot print.
- High saturation current from distributed gap metal dust core.
- Low profile: 4.00mm Max. Height.
- Ideal for DC/DC converters, PDA, Notebook and Server Application.
- RoHS and HF compliant.
- T & R Qtys: 500pcs on a 13" Reel.



2. Electrical Characteristics of SM4015A series:

ITG Part Number	Inductance (uH) ± 20%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) @25°C	Irms (A) @25°C
SM4015A-R15MHF	0.15	0.47	0.55	75.00	45.00
SM4015A-R22MHF	0.22	0.60	0.70	65.00	35.00
SM4015A-R30MHF	0.30	0.80	0.95	50.00	35.00
SM4015A-R36MHF	0.36	1.05	1.20	50.00	30.00
SM4015A-R47MHF	0.47	1.30	1.50	40.00	30.00
SM4015A-R56MHF	0.56	1.35	1.55	33.00	25.00
SM4015A-R68MHF	0.68	1.95	2.25	30.00	23.00
SM4015A-R80MHF	0.80	2.00	2.35	29.00	23.00
SM4015A-1R0MHF	1.00	2.55	3.00	28.00	19.00
SM4015A-1R5MHF	1.50	3.30	3.80	25.00	16.00
SM4015A-2R2MHF	2.20	6.50	7.50	18.00	12.00
SM4015A-3R3MHF	3.30	10.35	12.00	16.00	11.00
SM4015A-4R7MHF	4.70	13.05	14.37	15.00	9.00
SM4015A-6R8MHF	6.80	21.80	24.00	11.00	8.50
SM4015A-8R2MHF	8.20	22.98	25.30	9.00	8.00
SM4015A-100MHF	10.00	26.64	29.50	8.50	7.80
SM4015A-150MHF	15.00	38.00	42.00	7.00	6.50
SM4015A-220MHF	22.00	62.00	68.00	5.50	5.00
SM4015A-330MHF	33.00	89.00	98.00	5.00	4.40
SM4015A-470MHF	47.00	135.70	149.00	3.50	3.30
SM4015A-680MHF	68.00	190.30	209.00	3.00	2.50

3. Mechanical Dimensions of SM4015A series (unit: mm):



Recommended PCB Layout

Pad Dimension	SM4015A
A	4.00
B	6.00
C	13.00

Type	A	B	C	D	D'	E	E'
SM4015A	11.50 Max.	10.00 ± 0.30	3.80 ± 0.20	3.00 ± 0.50	5.00 ± 0.20	2.00 ± 0.30	2.50 ± 0.10

Notes:

1. Irms: DC current that will cause an approximate ΔT of 40°C .
2. Isat: DC current that causes inductance to drop 30%(Typ.) from OCL. (Ta=25°C).
3. Test conditions: 100KHz, 1.0V, 25°C ambient temperature .
4. Operating Temperature Range: -55°C to 125°C .

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
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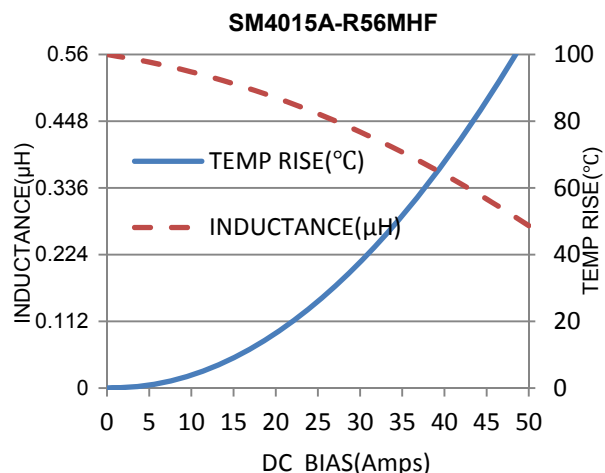
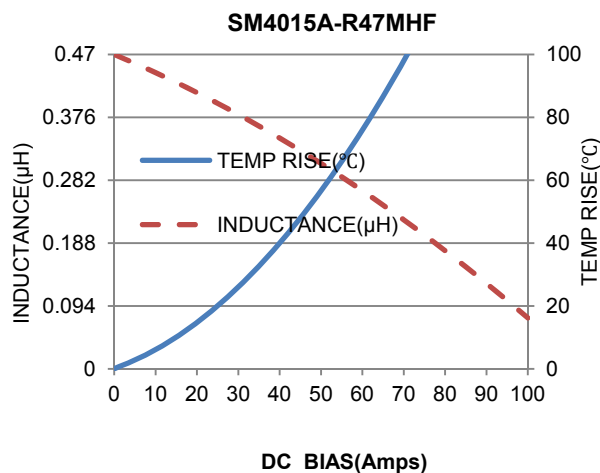
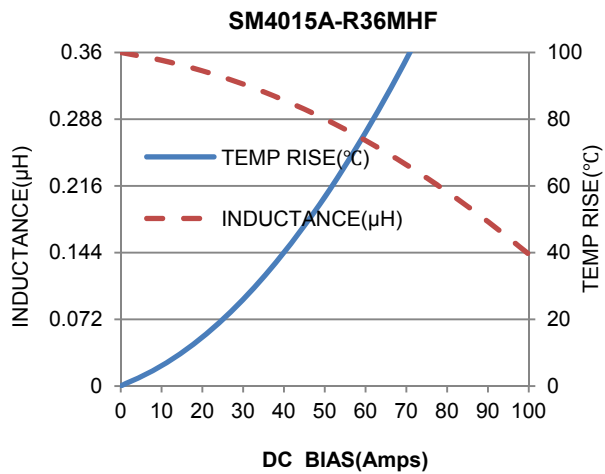
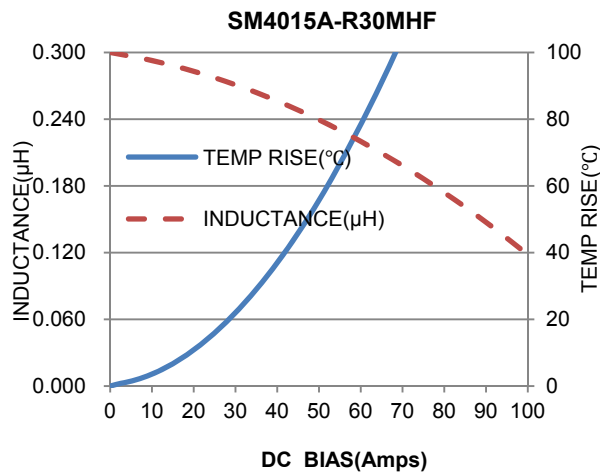
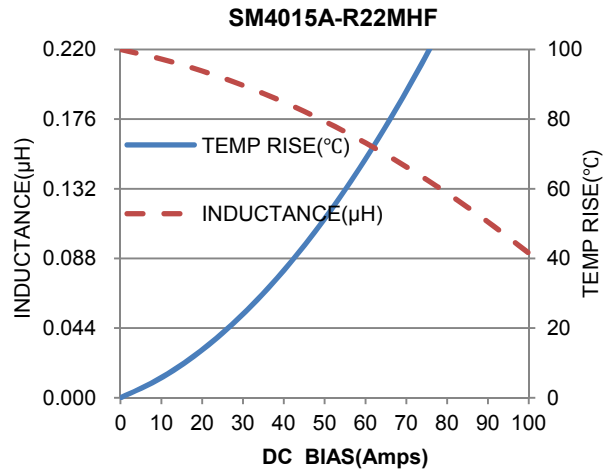
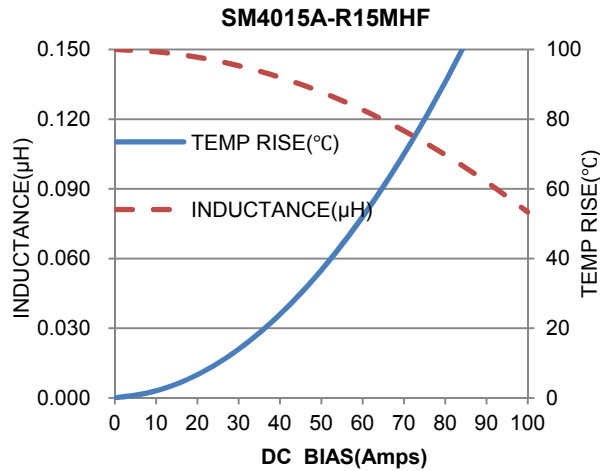
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4. Inductance vs. Temperature Rise Characteristics of SM4015A Series



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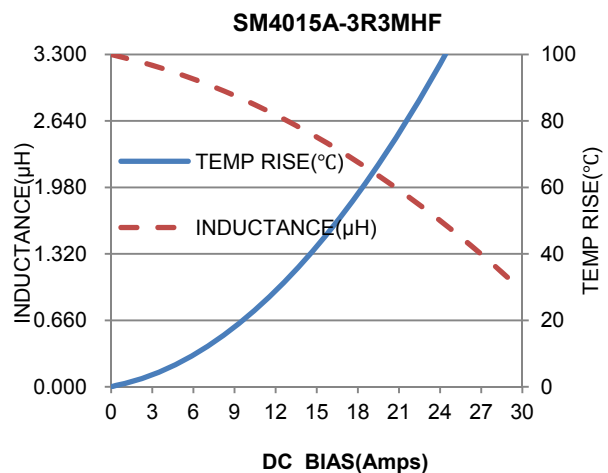
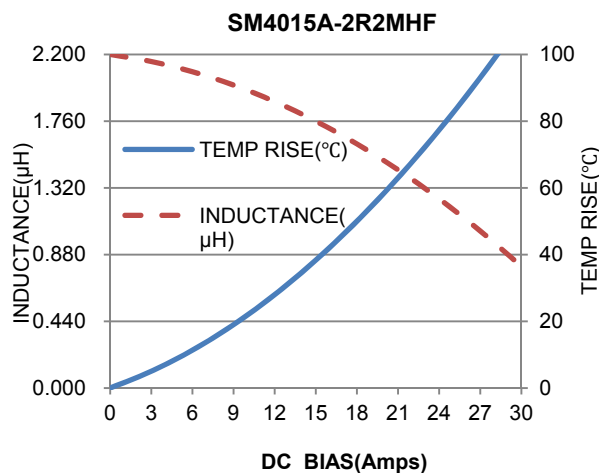
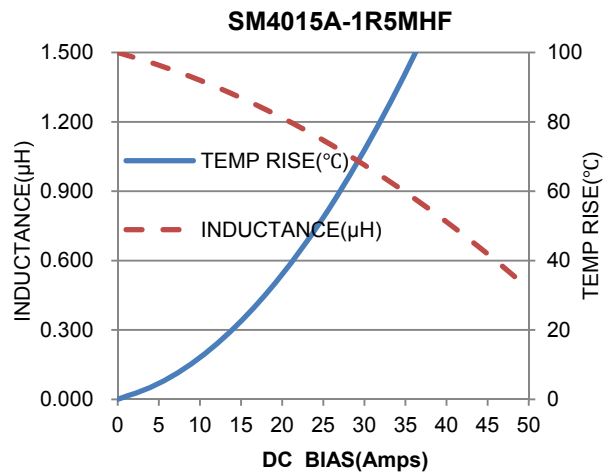
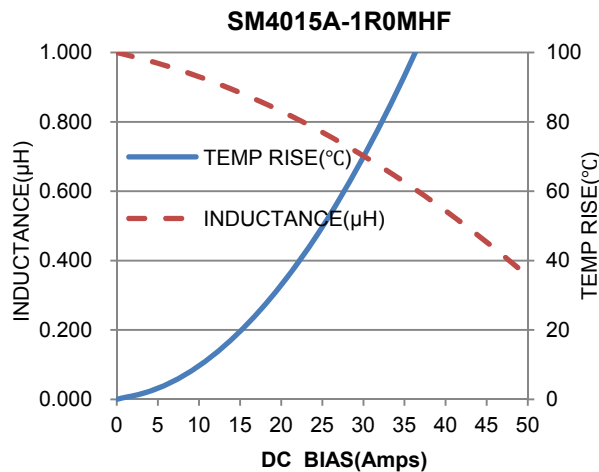
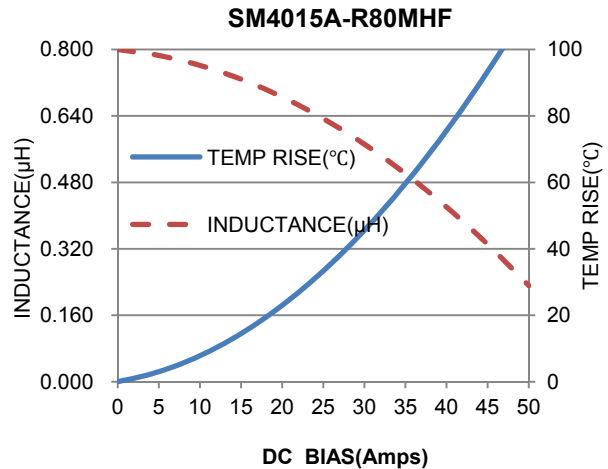
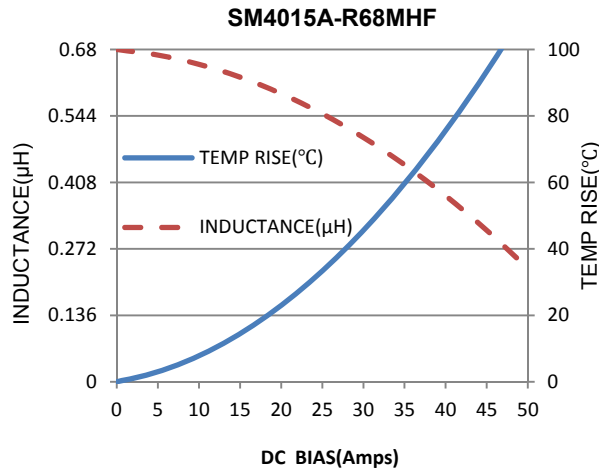
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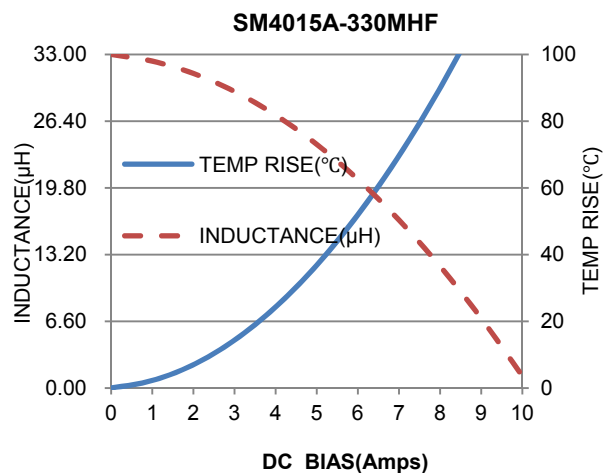
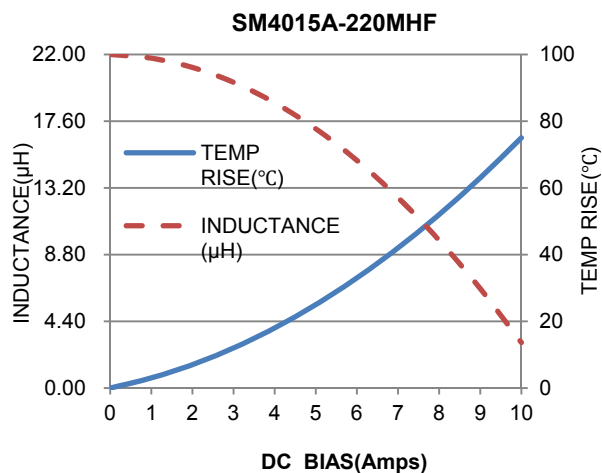
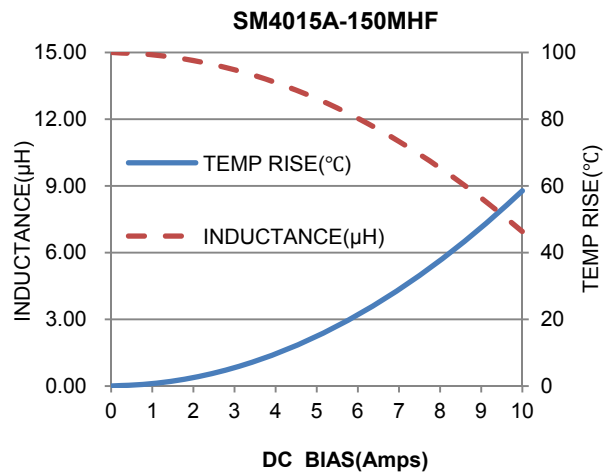
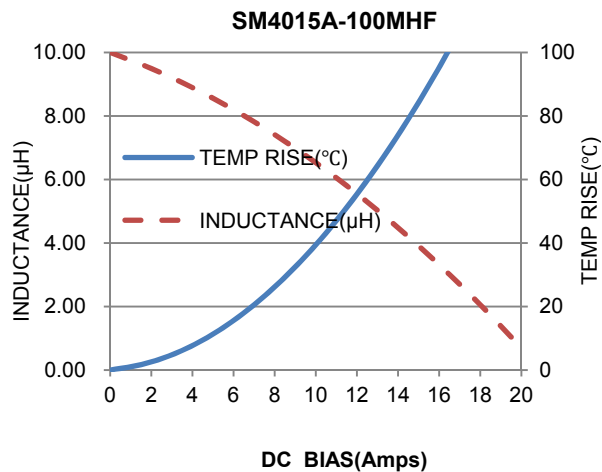
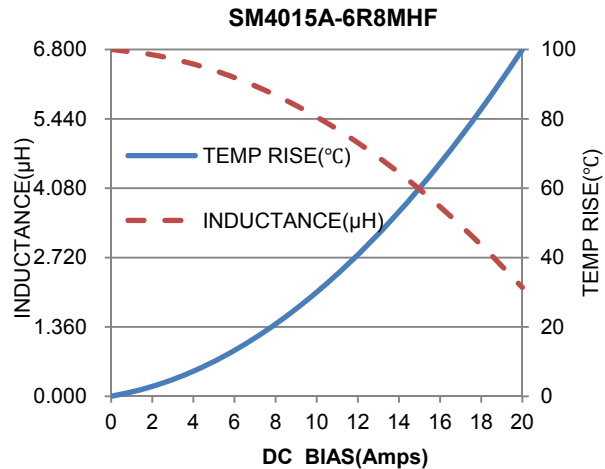
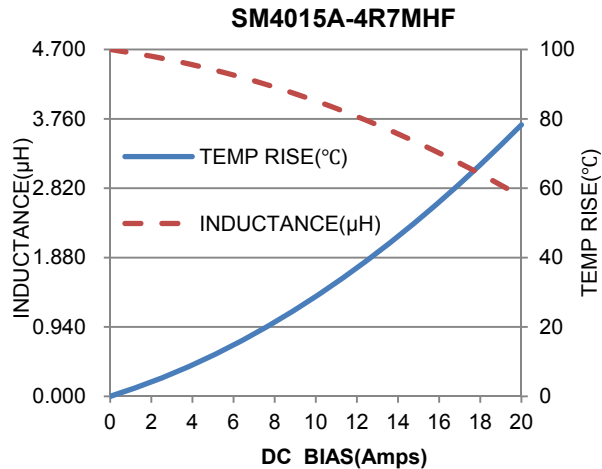
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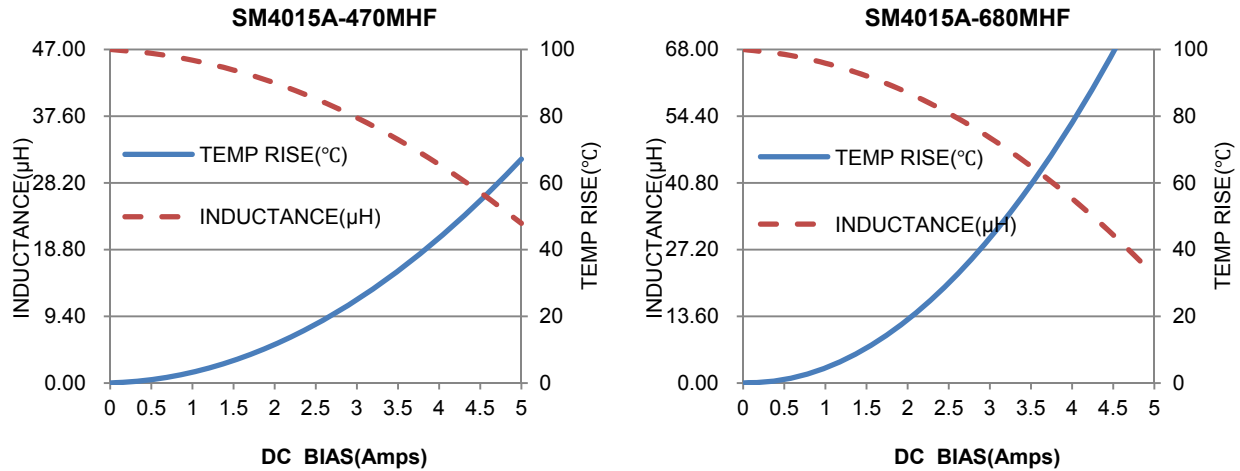
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