

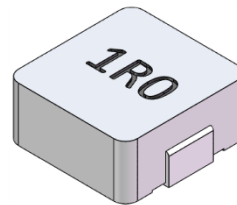


SM1608A Series



1. Features of SM1608A series:

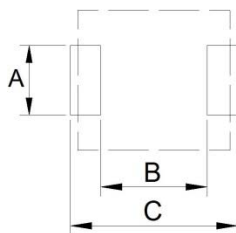
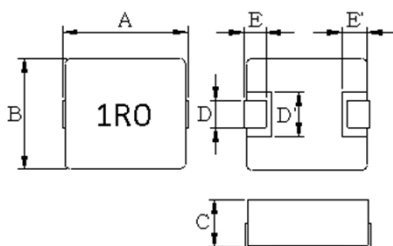
- Molded Inductor in 4.75x4.45mm foot print.
- High saturation current from distributed gap metal dust core.
- Low profile: 2.00mm Max. Height.
- Ideal for DC/DC converters, PDA, Notebook and Server Application.
- RoHS and HF compliant.
- T & R Qtys: 3,000pcs on a 13" Reel.



2. Electrical Characteristics of SM1608A series:

ITG Part Number	Inductance (uH) ± 20%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) @25°C	Irms (A) @25°C
SM1608A-R10MHF	0.10	3.65	4.20	22.00	13.00
SM1608A-R22MHF	0.22	5.00	5.80	12.50	9.50
SM1608A-R33MHF	0.33	7.10	8.20	12.00	9.00
SM1608A-R47MHF	0.47	10.50	12.00	9.50	7.50
SM1608A-R56MHF	0.56	10.90	12.55	9.50	7.30
SM1608A-R68MHF	0.68	11.70	13.50	9.00	7.00
SM1608A-1R0MHF	1.00	19.20	22.00	7.00	6.00
SM1608A-1R2MHF	1.20	23.00	26.50	7.00	6.00
SM1608A-1R5MHF	1.50	25.30	29.00	5.50	5.00
SM1608A-2R2MHF	2.20	40.20	46.00	5.00	4.50
SM1608A-3R3MHF	3.30	70.60	81.00	4.00	3.30
SM1608A-4R7MHF	4.70	103.40	114.00	3.00	2.80
SM1608A-6R8MHF	6.80	162.80	179.00	2.50	2.40
SM1608A-100MHF	10.00	256.30	282.00	2.00	1.60

3. Mechanical Dimensions of SM1608A series (unit: mm):



Recommended PCB Layout

Pad Dimension	SM1608A
A	2.50
B	2.20
C	5.20

Type	A	B	C	D	D'	E	E'
SM1608A	4.40 ± 0.35	4.20 ± 0.25	1.80 ± 0.20	1.50 ± 0.30	2.50 ± 0.20	0.80 ± 0.30	1.00 ± 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
● Tokyo 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
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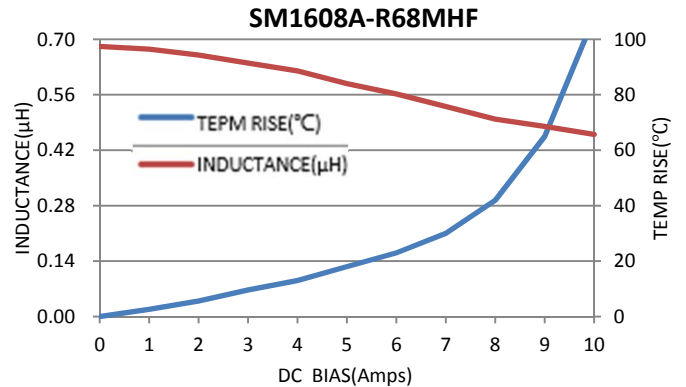
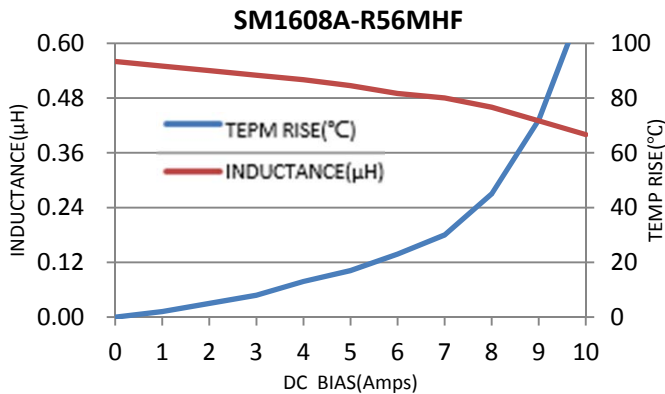
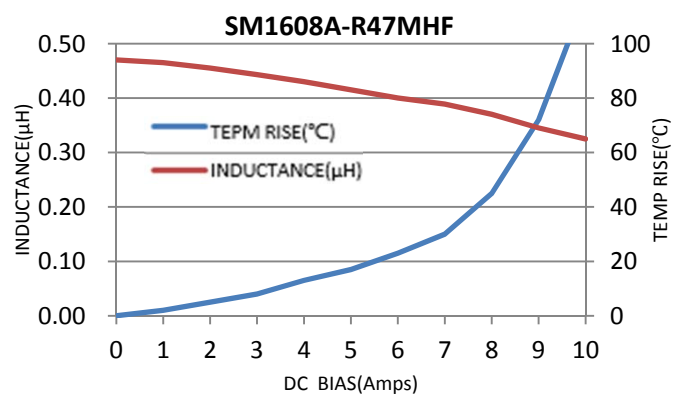
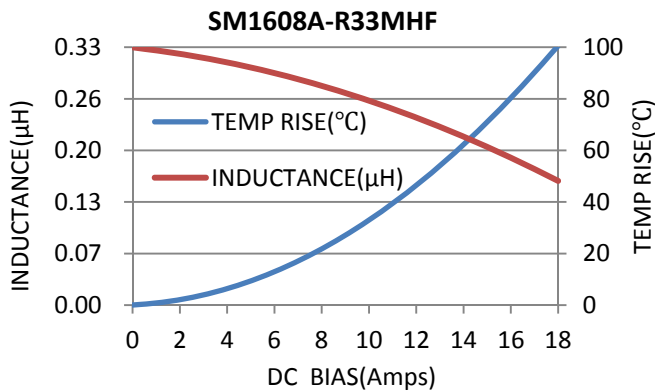
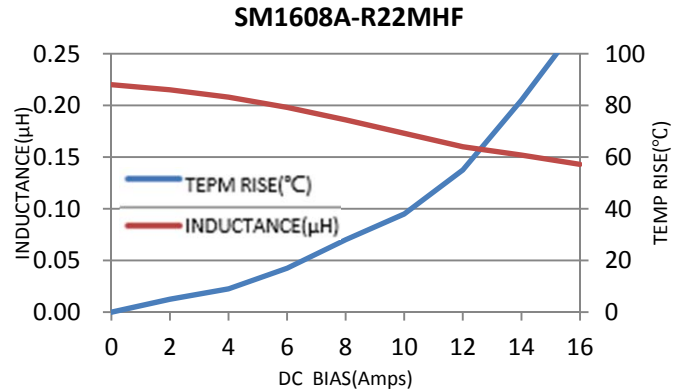
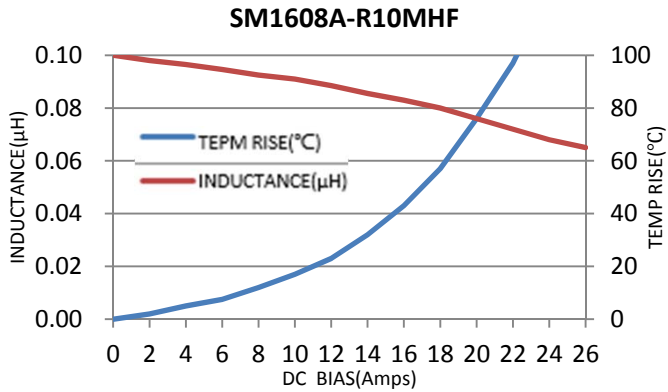
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SM1608A Series



4. Inductance vs. Temperature Rise Characteristics of SM1608A Series



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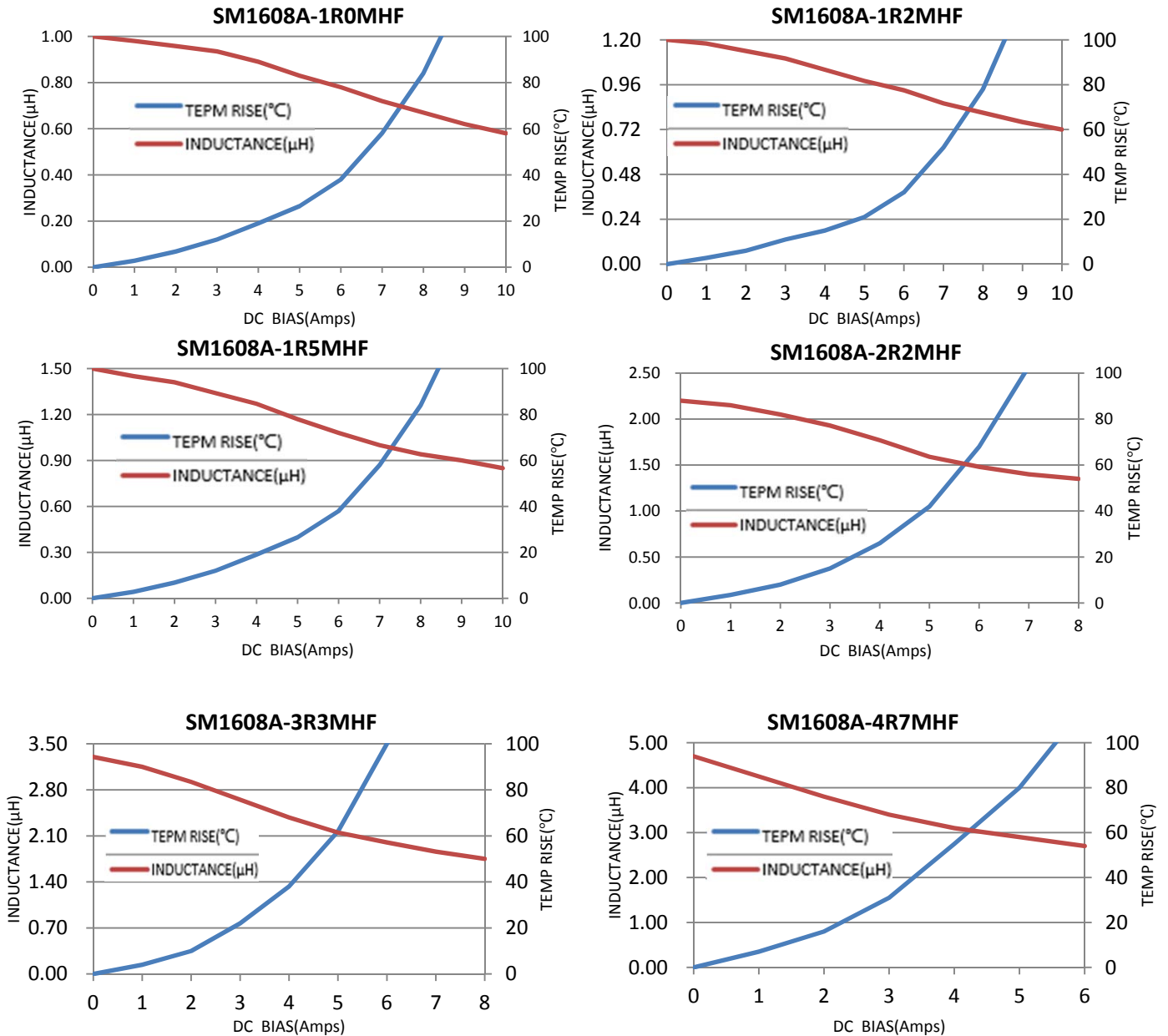
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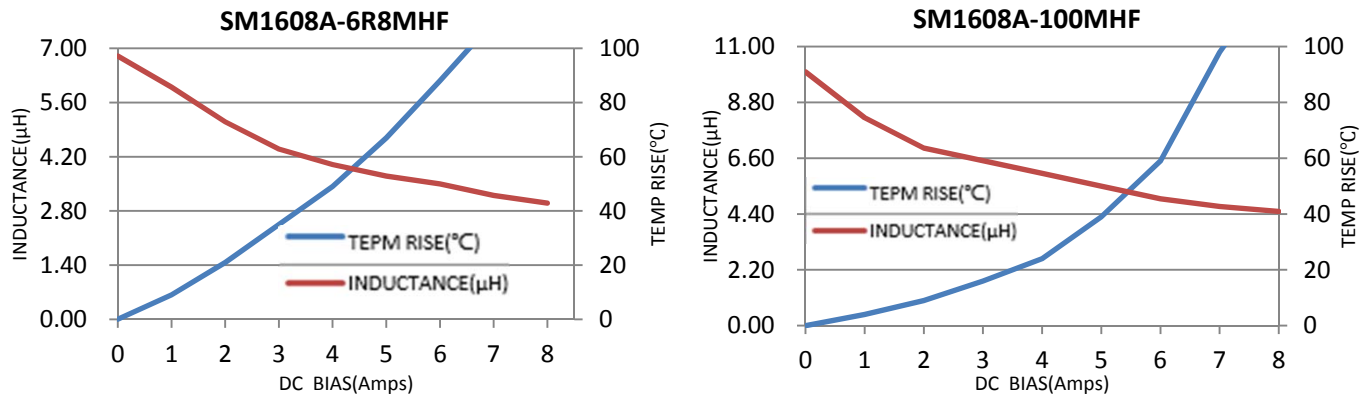
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