

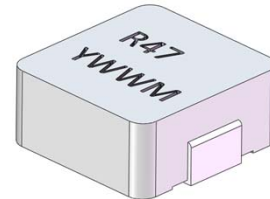


SM2511A Series



1. Features of SM2511A series:

- 7.30x6.80mm foot Print, 3.00mm Max. height SMD Power Inductor for high frequency application. Operating frequency up to 5MHz.
- Inductance range from 0.22uH to 33.00uH. Custom values are welcomed.
- High saturation current characteristics by distributed gapped metal dust core.
- Ideal for portable device, Pad, E-reader and high density DC to DC Converter.
- Tape & Reel Quantity: 1000 piece per 13 inches reel. RoHS and HF compliant.

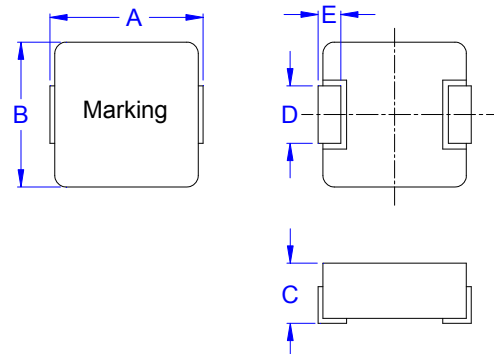


2. Electrical Characteristics of SM2511A series:

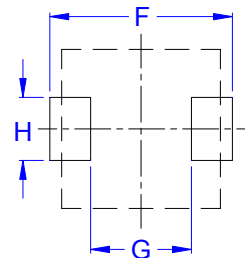
ITG Part Number	OCL (uH) ±20%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Heat Rating Current I _{rms} (A) Typ.	Saturation Current I _{sat} (A) Typ.
SM2511A-R22MHF	0.22	2.50	3.00	24.00	34.00
SM2511A-R24MHF	0.24	2.35	2.70	23.00	26.00
SM2511A-R33MHF	0.33	3.00	3.50	21.00	25.00
SM2511A-R47MHF	0.47	3.20	3.70	18.00	20.00
SM2511A-R56MHF	0.56	3.90	4.50	16.50	18.00
SM2511A-R68MHF	0.68	4.60	5.20	16.00	17.00
SM2511A-R82MHF	0.82	5.40	6.00	14.00	16.00
SM2511A-1R0MHF	1.00	6.40	7.40	12.00	15.00
SM2511A-1R5MHF	1.50	8.60	10.00	10.50	14.00
SM2511A-2R2MHF	2.20	13.50	15.00	9.50	10.00
SM2511A-3R3MHF	3.30	18.00	21.00	8.50	9.80
SM2511A-4R7MHF	4.70	28.00	33.00	6.00	6.50
SM2511A-8R2MHF	8.20	51.20	60.00	5.00	6.00
SM2511A-100MHF	10.00	62.00	67.00	4.50	5.50
SM2511A-150MHF	15.00	104.00	115.00	3.00	4.00
SM2511A-220MHF	22.00	180.00	200.00	2.30	3.00
SM2511A-330MHF	33.00	280.00	310.00	2.00	2.50

3. Mechanical Dimensions (unit: mm):

A ± 0.30	B ± 0.20	C ± 0.20	D ± 0.30	E ± 0.30
7.00	6.60	2.80	3.00	1.60



Pad Dimension	SM2511A
F	8.40 Typ.
G	3.70 Typ.
H	3.50 Typ.



Recommend PCB Layout

Notes:

1. I_{rms}: DC current that will cause an approximate ΔT of 40°C .
2. I_{sat}: DC current that causes inductance to drop 30% (Typ.) from OCL (T_a=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
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
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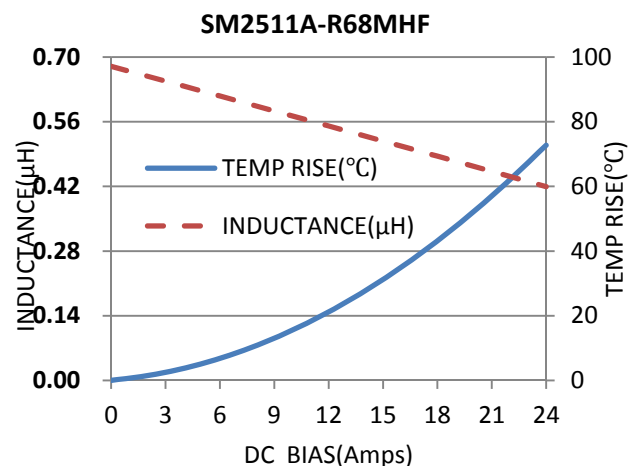
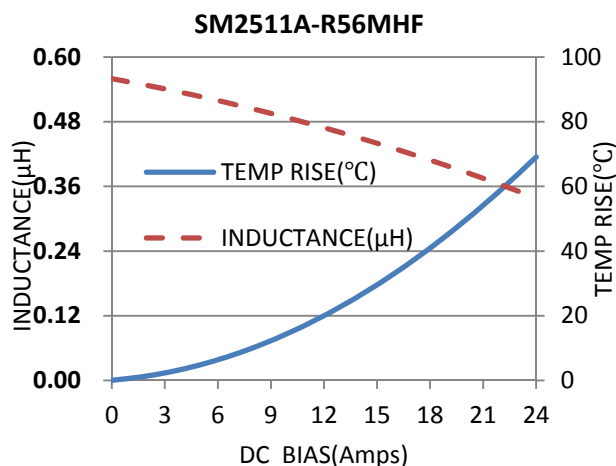
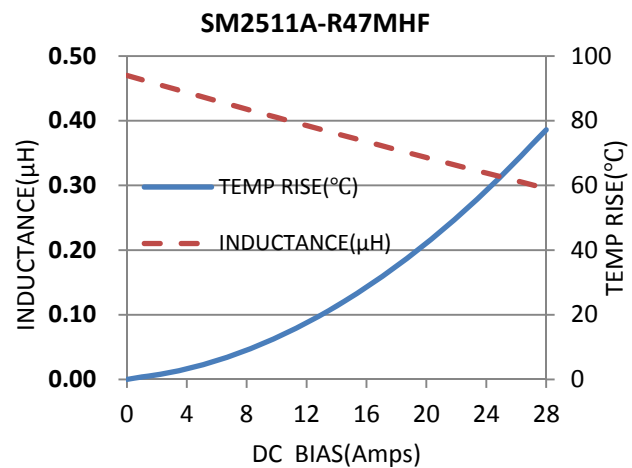
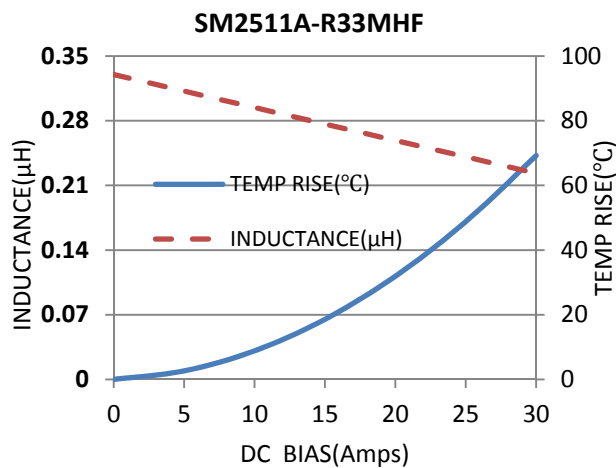
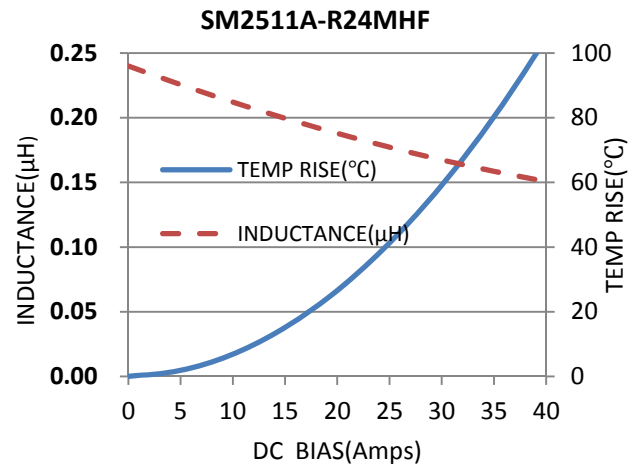
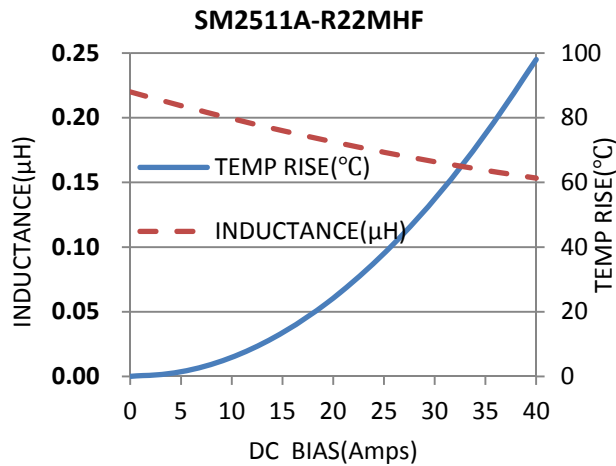
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



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4. Inductance vs. Temperature Rise Characteristics of SM2511A Series:



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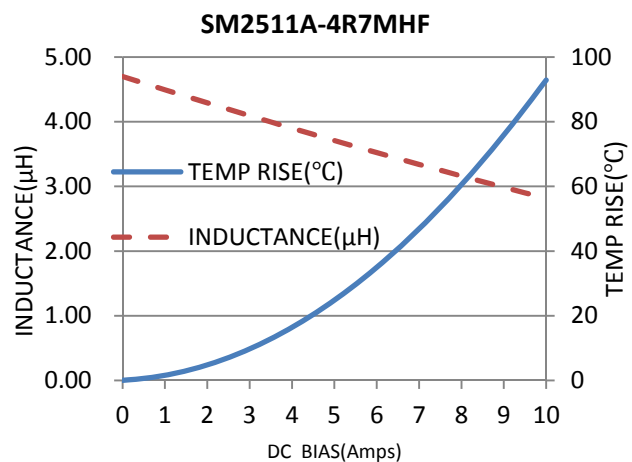
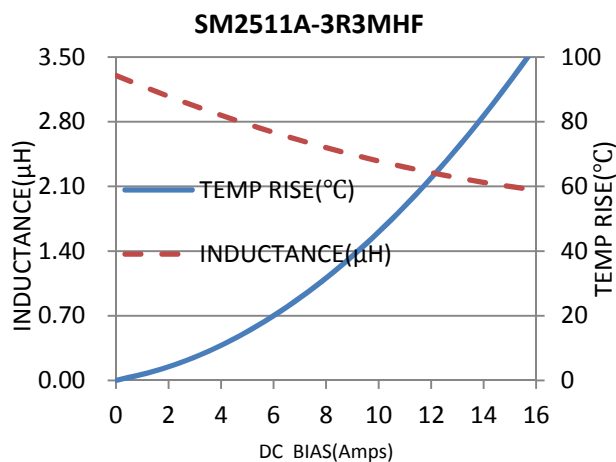
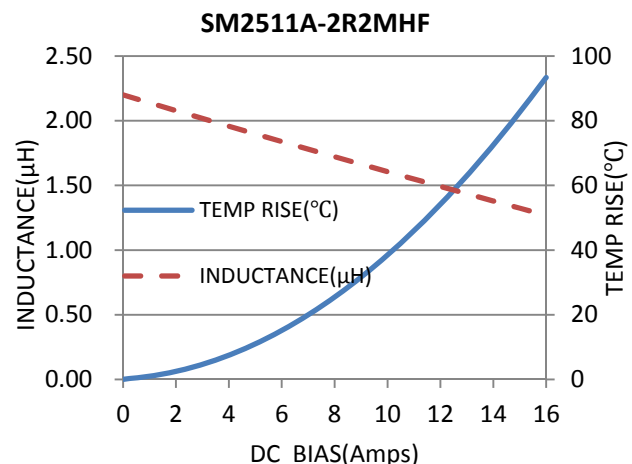
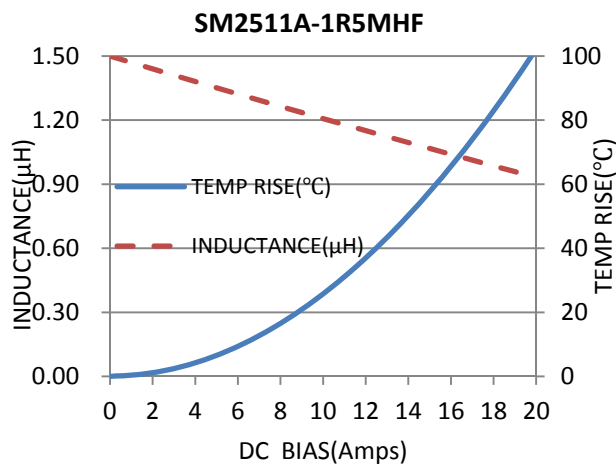
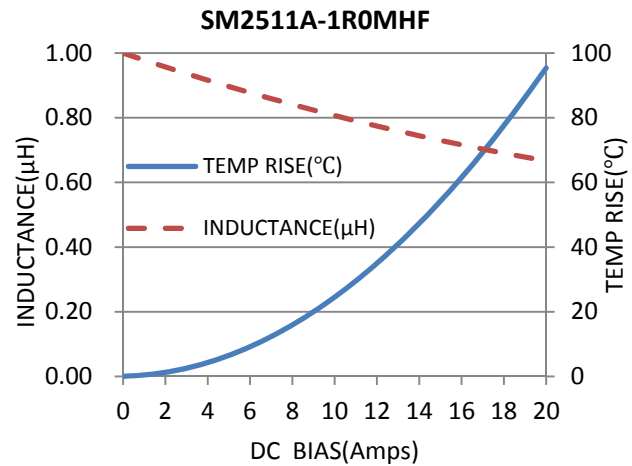
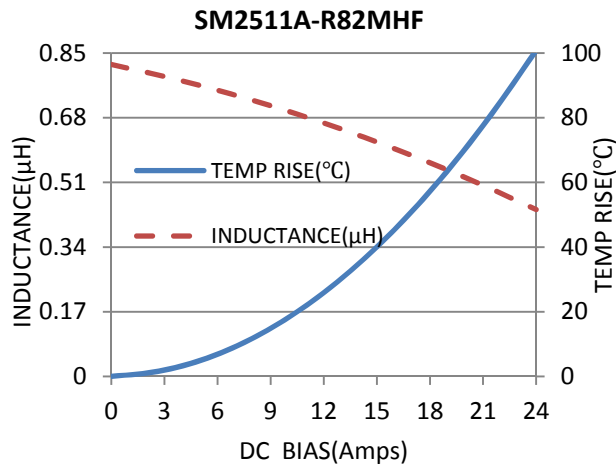
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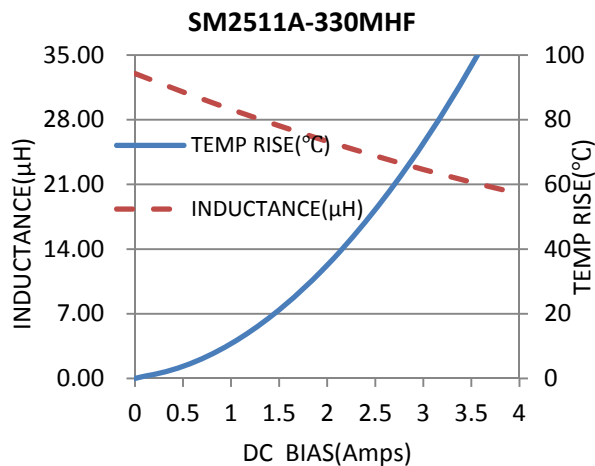
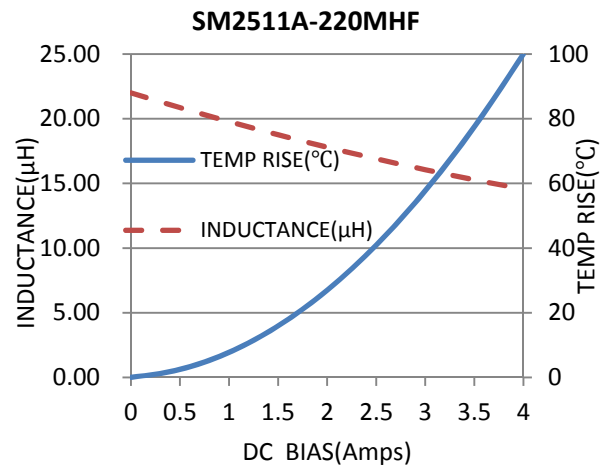
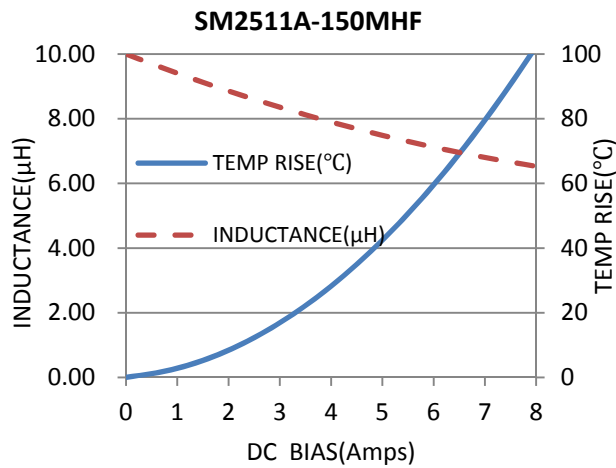
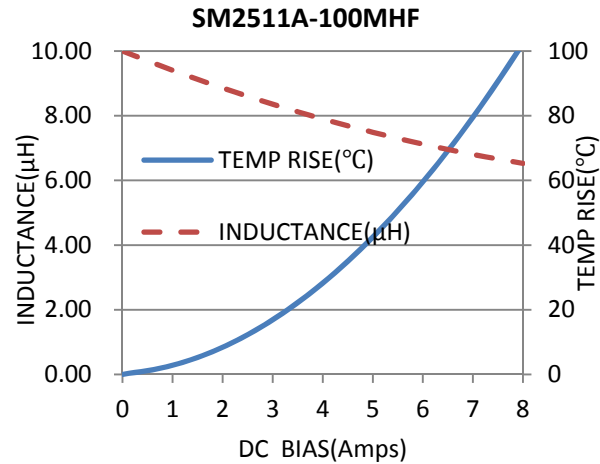
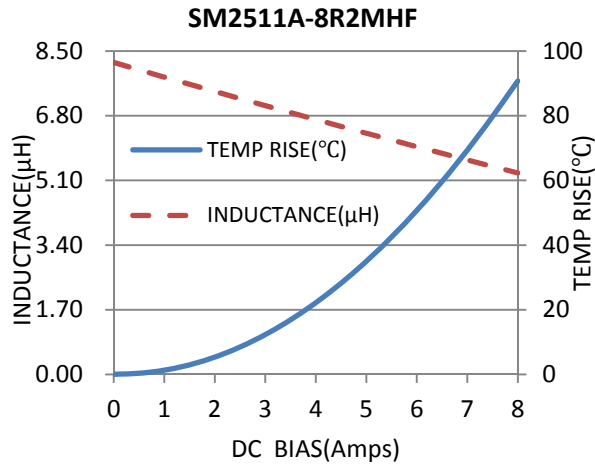
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