

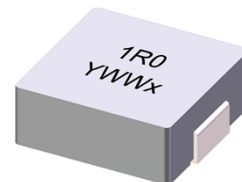


SM5018A Series



1. Features of SM5018A series:

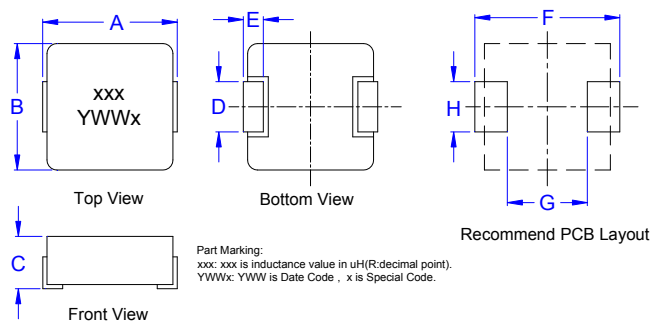
- 13.80 x 12.90mm Foot Print , 5.00mm Max. height SMD Power Inductor for high frequency application. Operating frequency up to 5.0 MHz.
- Inductance range from 0.15 uH to 47.00 uH. Custom values are welcomed.
- High saturation current characteristics by distributed gapped metal dust core.
- Ideal for portable device, Pad, E-reader and high density DC to DC Converter
- Tape & Reel Quantity: 500 piece per 13 inches reel. RoHS and HF compliant.



2. Electrical Characteristics of SM5018A series:

ITG Part Number	Inductance (uH) ± 20%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat (A) @25°C	Irms (A) @25°C	Dim. D (mm) ± 0.50
SM5018A-R15MHF	0.15	0.35	0.56	75.00	45.00	3.85
SM5018A-R36MHF	0.36	0.71	0.82	75.00	42.00	3.85
SM5018A-R47MHF	0.47	0.80	0.92	64.00	40.00	3.85
SM5018A-R56MHF	0.56	1.10	1.30	48.00	35.00	3.85
SM5018A-R68MHF	0.68	1.38	1.60	46.00	33.00	3.85
SM5018A-1R0MHF	1.00	1.53	1.75	35.00	26.00	3.85
SM5018A-1R5MHF	1.50	2.75	3.20	33.00	23.00	3.85
SM5018A-2R2MHF	2.20	3.40	3.90	24.00	15.00	3.85
SM5018A-3R3MHF	3.30	6.40	7.40	22.00	14.00	5.00
SM5018A-4R7MHF	4.70	8.50	9.40	21.00	13.00	5.00
SM5018A-6R8MHF	6.80	14.50	16.00	16.00	12.00	5.00
SM5018A-8R2MHF	8.20	16.50	18.00	14.50	10.00	5.00
SM5018A-100MHF	10.00	17.70	19.50	12.00	9.00	5.00
SM5018A-220MHF	22.00	35.70	39.00	6.50	4.50	5.00
SM5018A-330MHF	33.00	52.00	57.00	6.00	3.50	5.00
SM5018A-470MHF	47.00	82.40	90.50	5.00	3.00	5.00

3. Mechanical Dimensions of SM5018A series (unit: mm):



Recommended PCB Layout	F	G	H
SM5018A-R15MHF~2R2MHF	14.50	8.00	5.00
SM5018A-3R3MHF~470MHF	14.50	8.00	5.50

Series	A	B	C	D	E
SM5018A	13.45 ± 0.35	12.60 ± 0.30	4.80 ± 0.20	See table above	2.00 ± 0.50

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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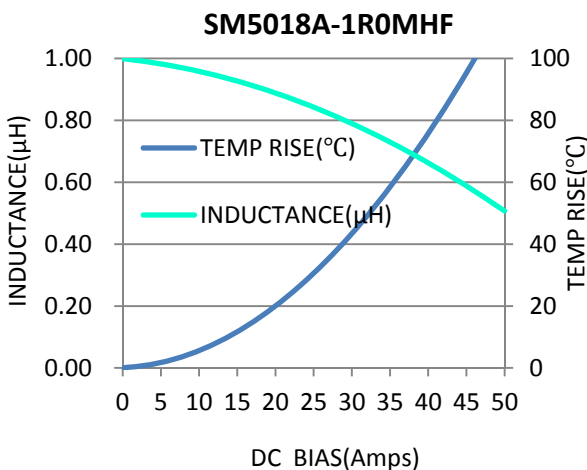
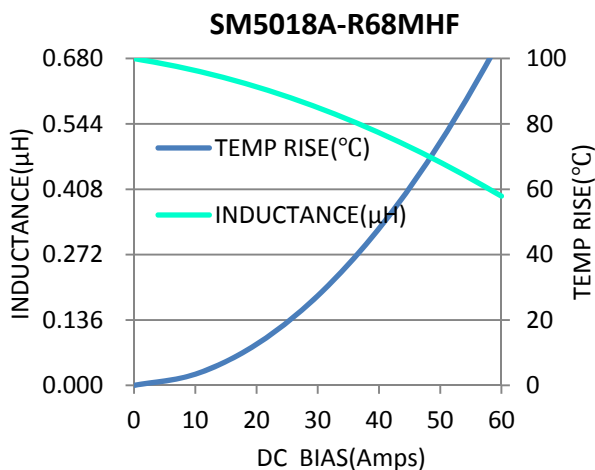
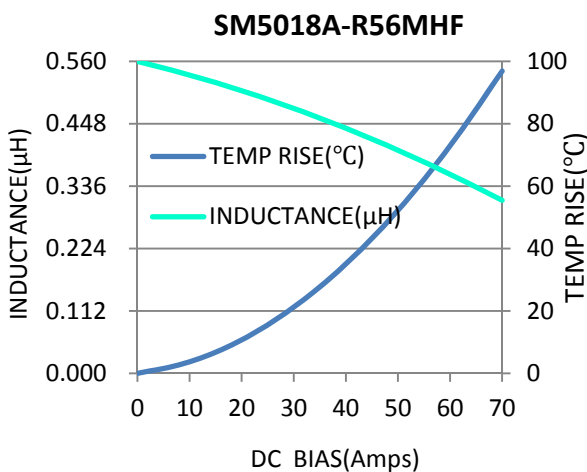
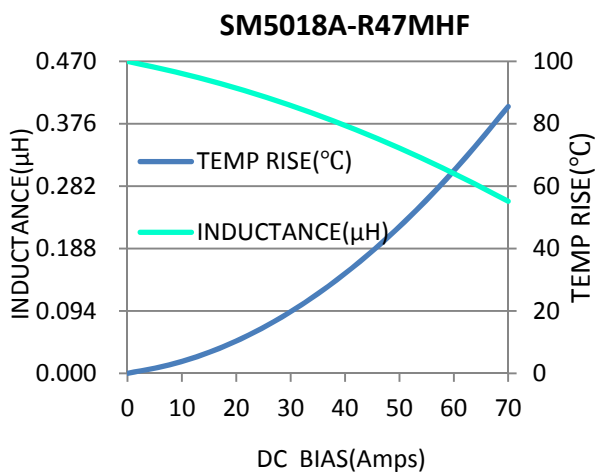
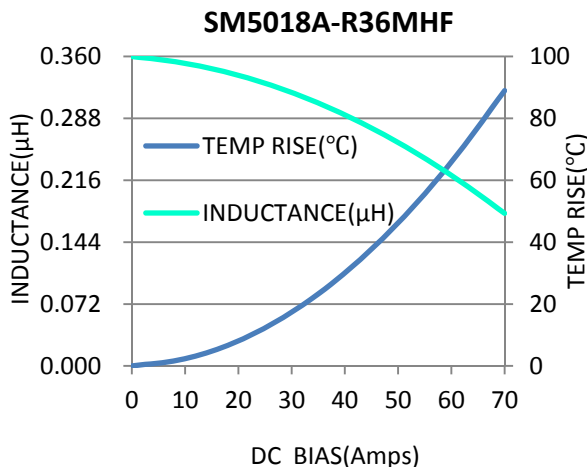
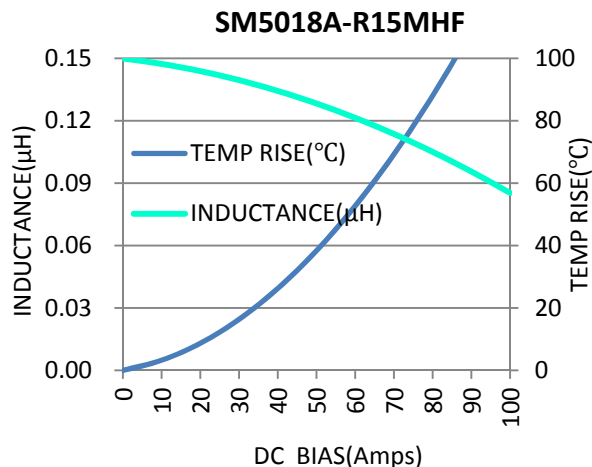
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. Inductance vs. Current vs. Temperature Rise Characteristics of SM5018A Series



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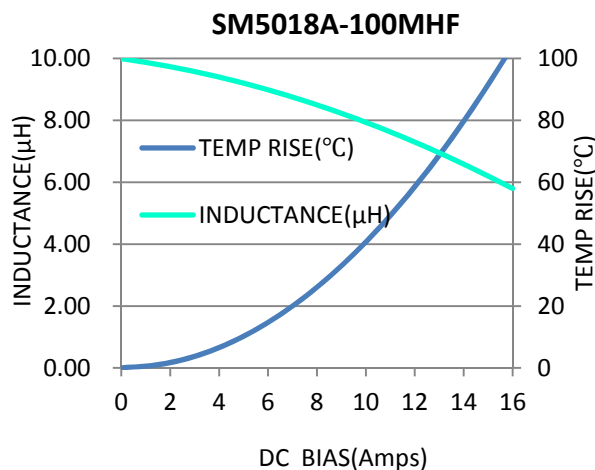
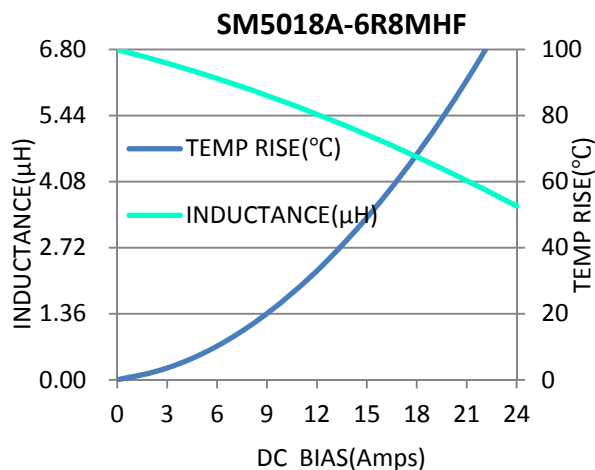
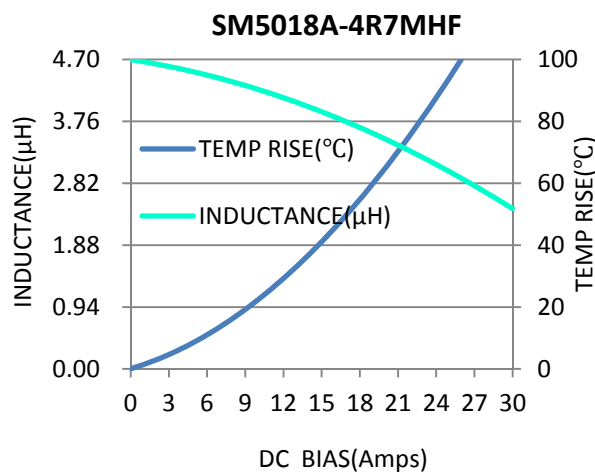
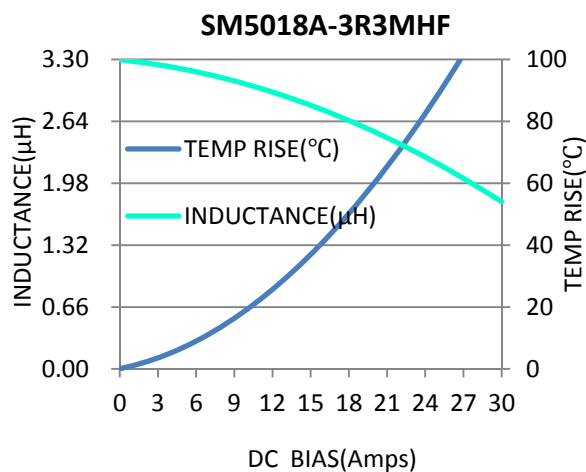
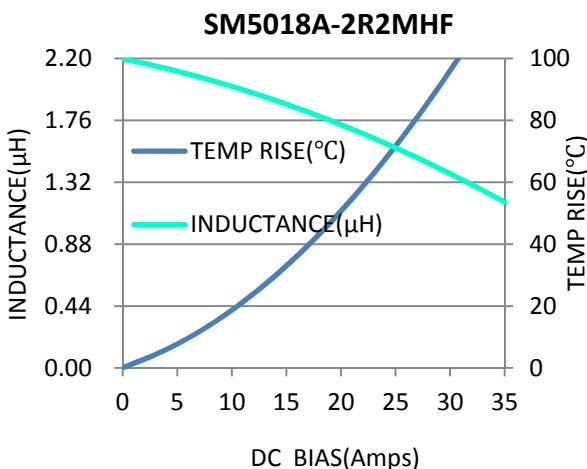
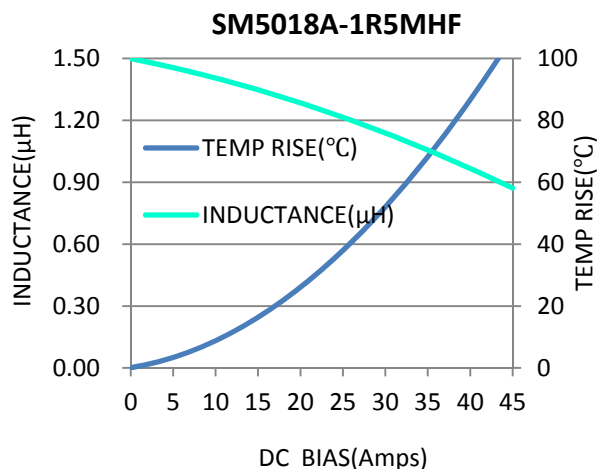
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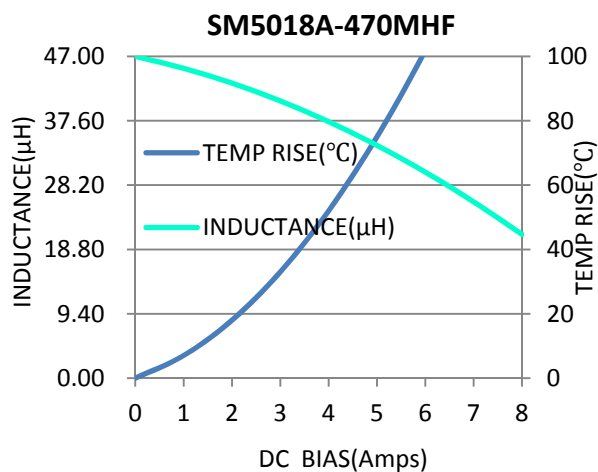
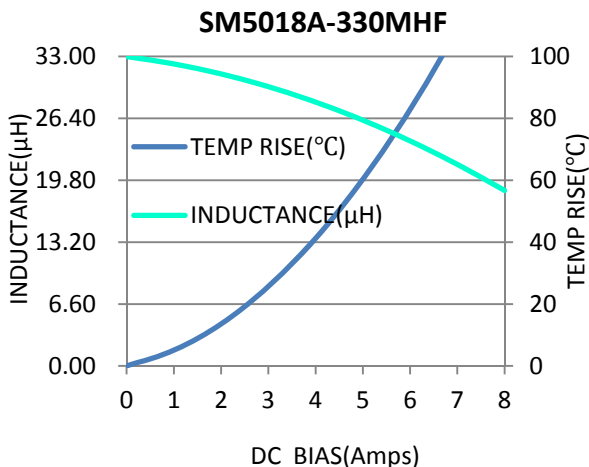
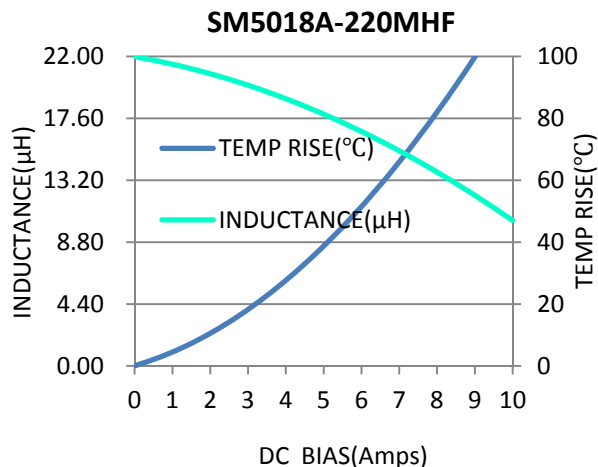
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