

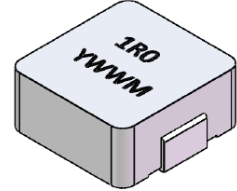


SM2007A Series



1. Features of SM2007A series:

- 5.70x5.40mm foot Print, 1.80mm Max. height SMD Power Inductor for high frequency application with operating frequency of up to 5MHz.
- Inductance range from 0.56uH to 15.0uH. 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: 1,000 pieces per 13 inches reel. RoHS and HF compliant.



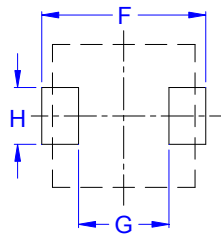
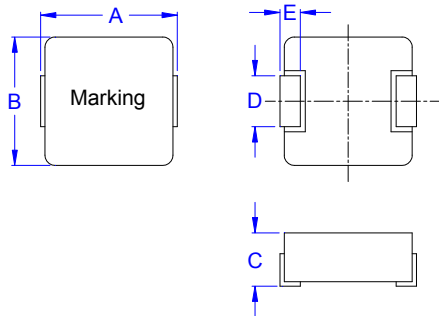
2. Electrical Characteristics of SM2007A series:

ITG Part Number	OCL (uH) ±20%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Isat1 ¹ (A)	Isat2 ² (A)	Irms ³ (A)
SM2007A-R56MHF	0.56	8.45	9.70	9.50	15.00	9.50
SM2007A-1R0MHF	1.00	15.00	17.00	7.50	10.00	8.00
SM2007A-1R5MHF	1.50	20.50	23.70	5.50	8.50	7.50
SM2007A-2R2MHF	2.20	30.50	35.00	4.20	6.50	5.00
SM2007A-3R3MHF	3.30	47.50	55.00	3.70	5.50	4.50
SM2007A-4R7MHF	4.70	73.80	81.50	3.00	4.50	3.50
SM2007A-5R6MHF	5.60	82.70	91.00	2.70	4.00	3.00
SM2007A-6R8MHF	6.80	109.00	120.00	2.70	4.00	2.80
SM2007A-100MHF	10.00	139.20	153.00	2.50	3.50	2.50
SM2007A-150MHF	15.00	234.50	259.00	1.30	2.00	1.80

3. Mechanical Dimensions (unit: mm):

A	B	C	D	E
±0.30	±0.20	±0.20	±0.30	±0.20
5.40	5.20	1.60	2.20	1.20

Pad Dimension		
F	G	H
6	2.2	2.5



Recommend PCB Layout

Notes:

1. Isat1: DC current that causes inductance to drop 20%(Typ.) from OCL (Ta=25°C).
2. Isat2: DC current that causes inductance to drop 30%(Typ.) from OCL (Ta=25°C).
3. Irms: DC current that will cause an approximate ΔT of 40°C.
4. Test conditions: 100KHz, 1.0V, 25°C ambient temperature.
5. 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
● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision B: August 09, 2016

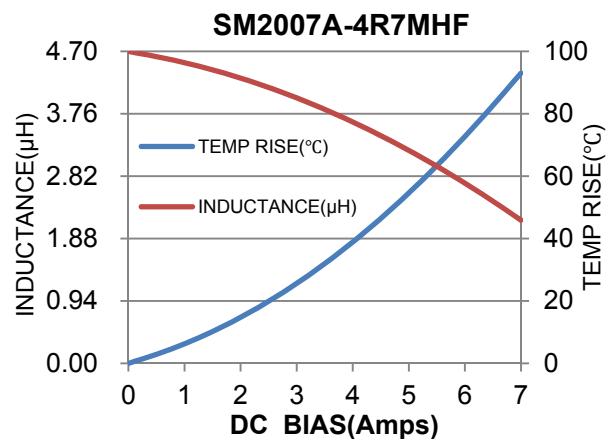
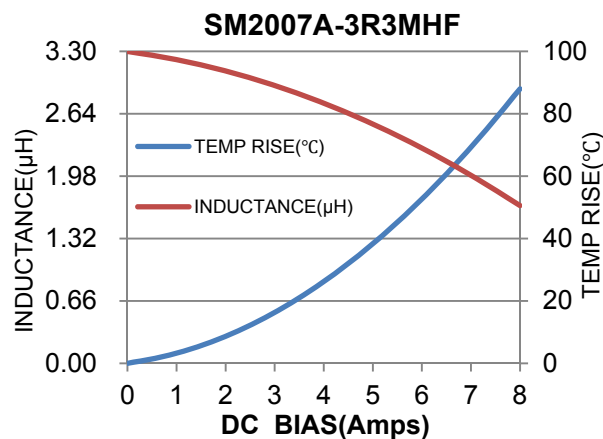
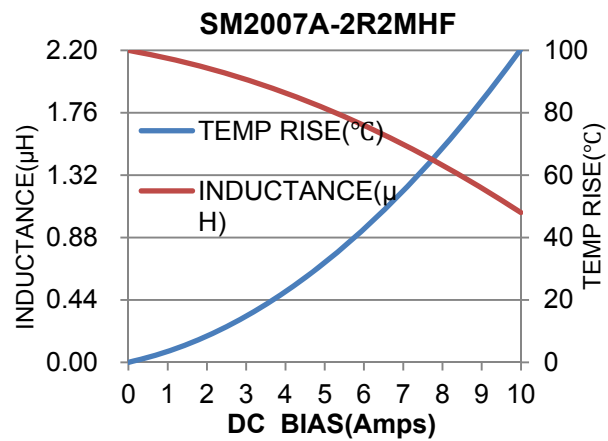
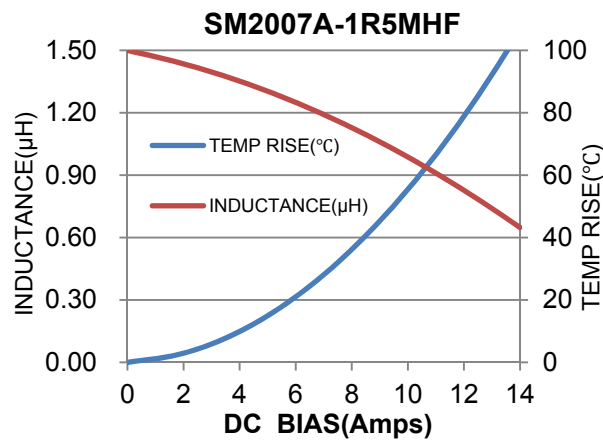
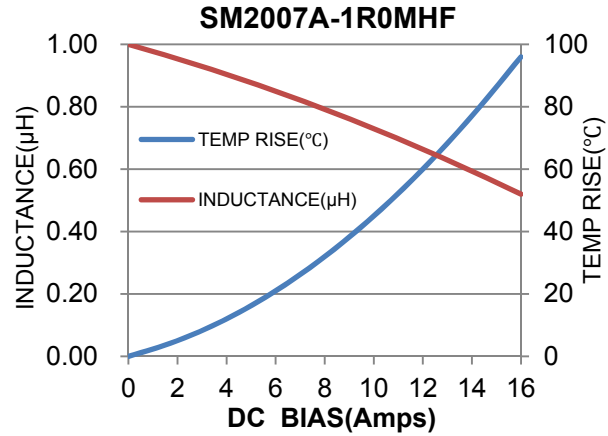
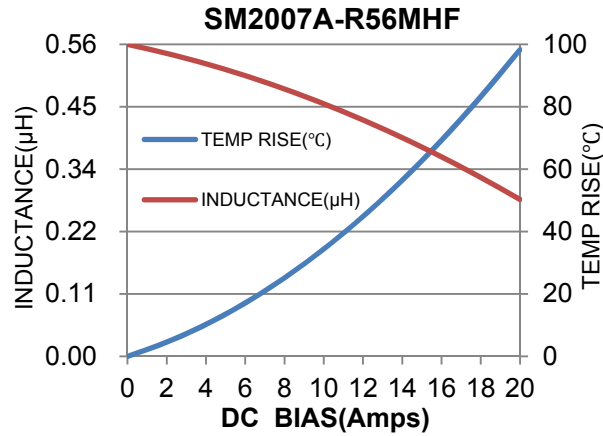
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. Inductance vs. Temperature Rise Characteristics of SM2007A Series :



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