



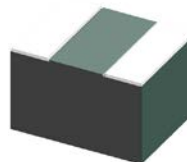
Halogen Free

SMF322520A Series



1. Features of SMF322520A series:

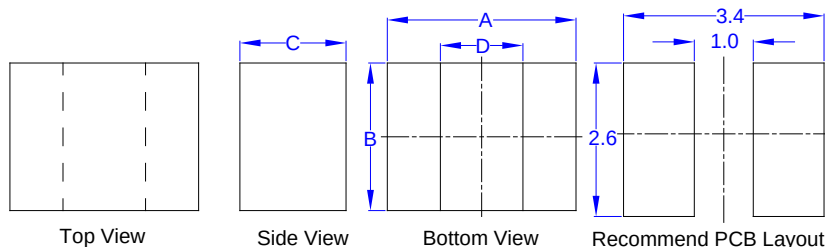
- 1210 Foot print (3.2 x 2.5 mm).
- Inductance range from 0.22 uH to 4.70 uH.
- High saturation current characteristics by distributed gapped metal dust core.
- Ideal for portable device, PAD, Notebook, smart phone & High Density DC to DC converter Board.
- Lower DC resistance for higher current application.
- Working Frequency up to 5MHz.
- T & R Qtys: 2000 pcs , 7" Reel and Plastic tape: 8mm wide, 4mm pocket spacing.
- Operating Temperature Range: -55°C to + 125°C (ambient + self-temperature rise).
- RoHS and HF compliant.



2. Electrical Characteristics of SMF322520A series:

ITG Part Number	Inductance (uH) ± 20%	DCR (mΩ) Typ.	DCR ² (mΩ) Max.	Isat ³ (A) Typ.	Irms ⁴ (A) Typ.
SMF322520A-R22MHF	0.22	4.55	5.60	17.00	11.00
SMF322520A-R33MHF	0.33	7.40	9.60	11.00	8.50
SMF322520A-R47MHF	0.47	8.70	10.50	9.00	8.00
SMF322520A-R68MHF	0.68	12.00	14.50	8.00	7.00
SMF322520A-1R0MHF	1.00	14.50	17.50	7.00	6.50
SMF322520A-1R5MHF	1.50	23.00	28.00	5.50	5.00
SMF322520A-2R2MHF	2.20	36.00	44.00	4.80	4.30
SMF322520A-3R3MHF	3.30	52.00	63.00	4.00	3.50
SMF322520A-4R7MHF	4.70	78.00	95.00	3.00	2.80

3. Mechanical Dimensions of SMF322520A series (unit: mm):



Type	A	B	C	D
SMF322520A	3.20 ± 0.20	2.50 ± 0.20	2.00 Max.	1.30 Typ.

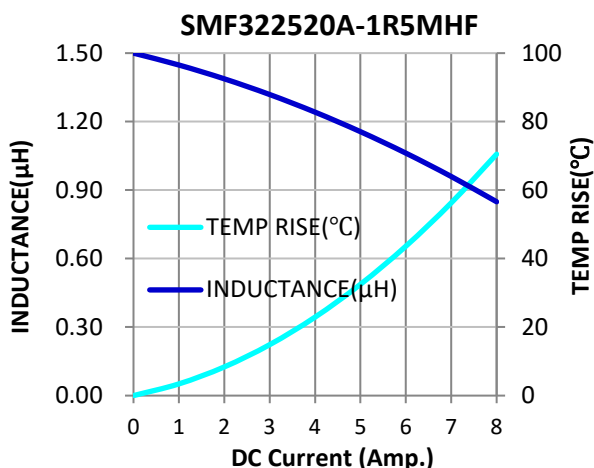
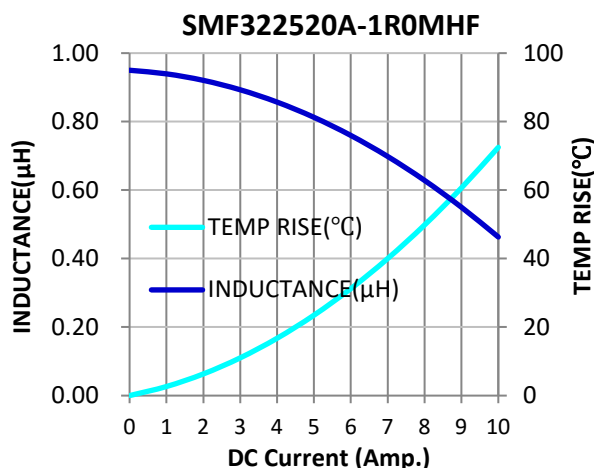
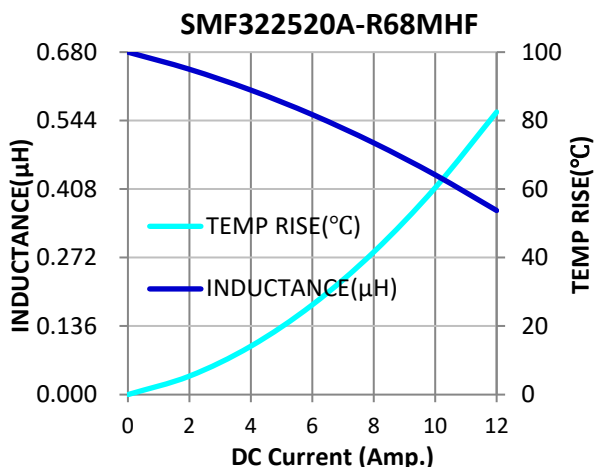
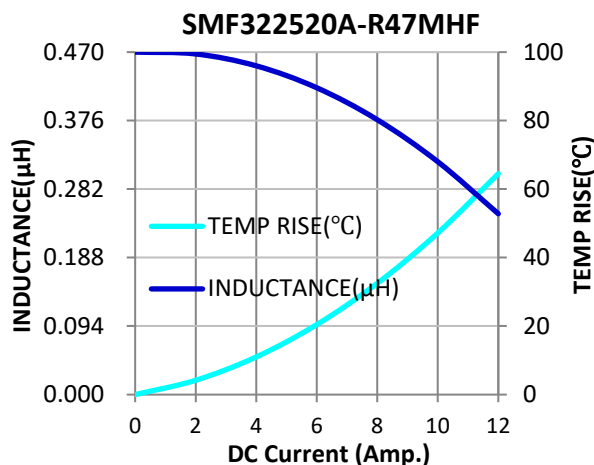
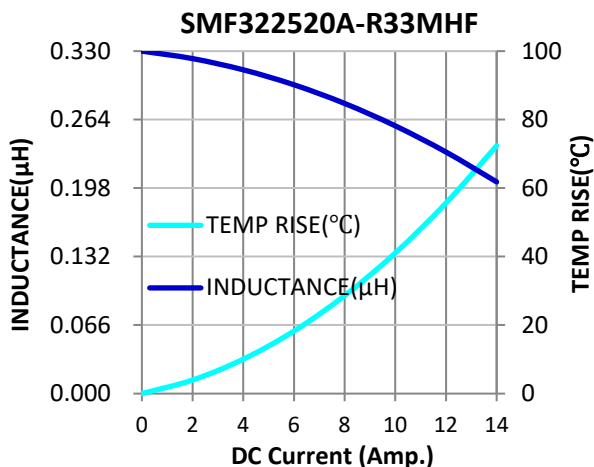
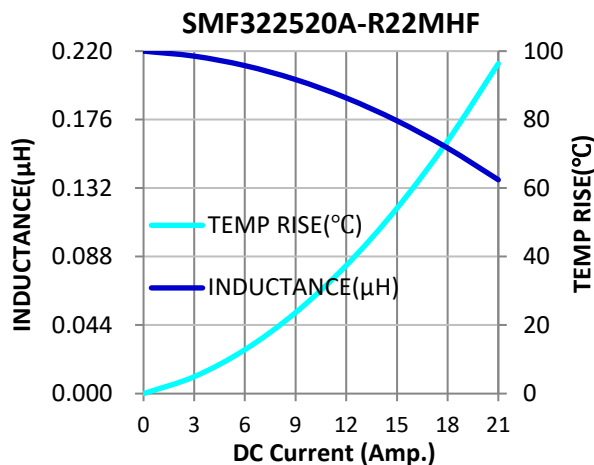
Notes:

1. Test conditions: 1MHz, 1.0V, 25°C ambient temperature .
2. DCR @ 25°C. (DCR test position at bottom Pad surface).
3. Isat: DC current that causes inductance to drop approximately 30%(Typ.) from OCL (Ta=25°C).
4. Irms: DC current for an approximate temperature rise of 40°C without core loss. Derating is necessary for AC currents. PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 125° C under worst case operating conditions as verified in the end application.
5. Maximum Operating Voltage: 24Vdc.
6. Storage temperature range: 20°C ~ 35°C , 75%RH (Max.).

● 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 A.1 : Jan. 05, 2026

*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.

4. Inductance vs. Current vs. Temperature Rise Characteristics of SMF322520A Series :



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