



SC4018 Series



1. Features of SC4018 Series :

- 0.40" Package SMD Power Inductor
- Ideal for DC to DC converter & High density board design
- Operating frequency of up to 3 Mhz
- Low leakage flux
- Low profile 3.6 – 6.35mm maximum height
- Suitable for IR reflow and wave solder process
- Tight DCR tolerance features for current sensing application
- T & R Qtys: 800pcs, 13" Reel

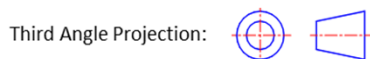


2. Electrical Characteristics of SC4018 Series:

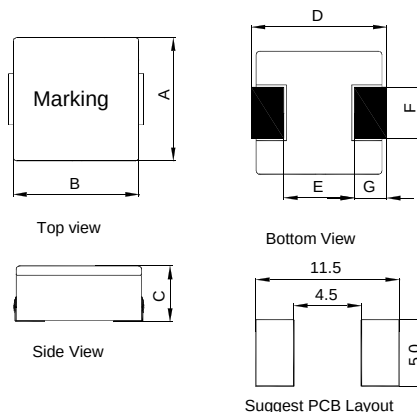
ITG Part Number	L $\pm$ 20% (μ H)	DCR $\pm$ 7% (m Ω)	I _{rms} (A)	L @ I _{max} (μ H)	I _{max} (A)	L @ I _{max} (μ H)	C (mm)
SC4018-R20MHF	0.20	0.50	33.0	0.18	49.0	0.17	4.80
SC4018-R37MHF	0.37	0.93	27.0	0.31	40.0	0.29	5.00
SC4018-1R0MHF	1.00	1.83	20.0	0.77	31.0	0.66	4.80
SC4018-1R7MHF	1.70	4.80	16.0	1.40	23.0	1.15	4.80
SC4018-2R7MHF	2.70	6.45	12.0	2.20	18.0	1.95	4.80
SC4018-3R9MHF	3.90	7.40	10.5	3.00	15.5	2.55	4.80

3. Mechanical Dimensions (unit:mm):

Part Number	A ± 0.4	B ± 0.4	C Max	D Max	E Ref.	F Ref.	G Ref.
SC4018	10	10	See table above	11.0	5.60	2.00	2.35



Part Marking:
Rxx x: xx is inductance value in μ H(R:decimal point),
x is special code.
YYWW: Date Code



Test Condition:

1. Test condition: 300KHz, 0.25Vrms, 0 Amp at 25°C.
2. I_{rms}: DC current rating at 40°C temperature raise (typical)
3. I_{max}: DC current rating with maximum of 100°C temperature rise
4. L@I_{rms} & L@I_{max} are measured at 300Khz, 0.25V.
5. DCR tolerance of $\pm$ 5% is available upon request
6. Operating temperature -40°C ~ 150°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
 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision L: February 8, 2016

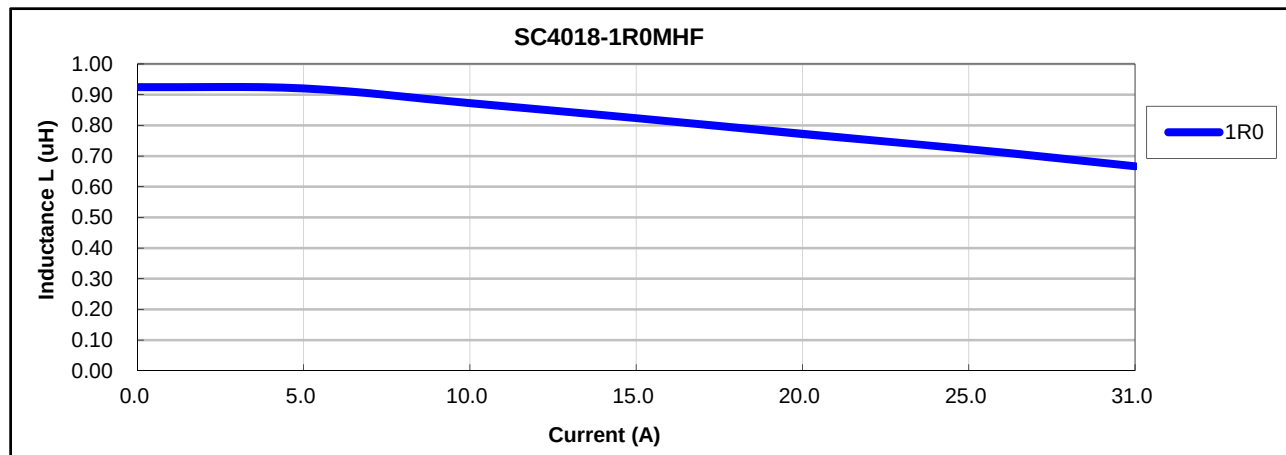
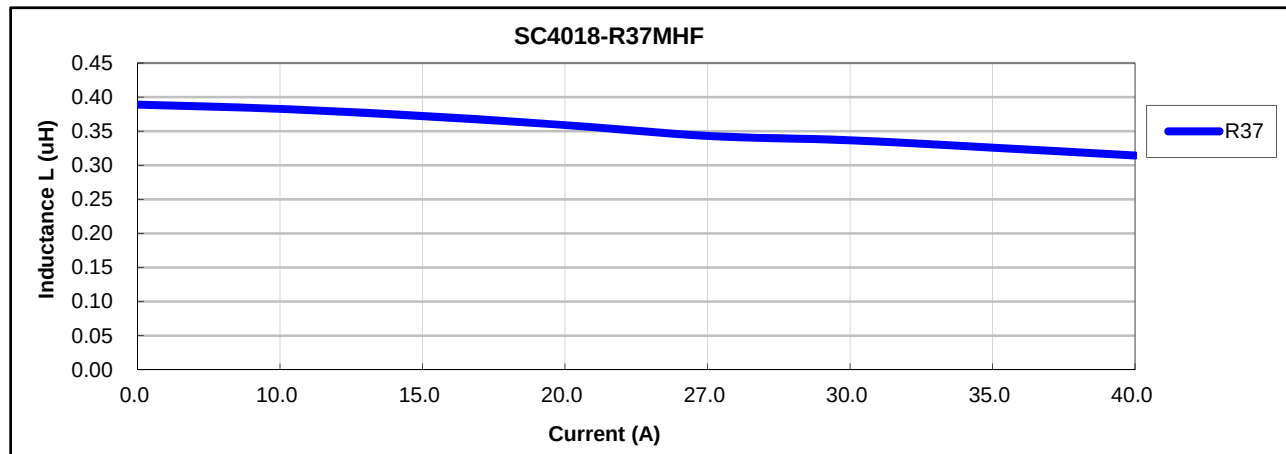
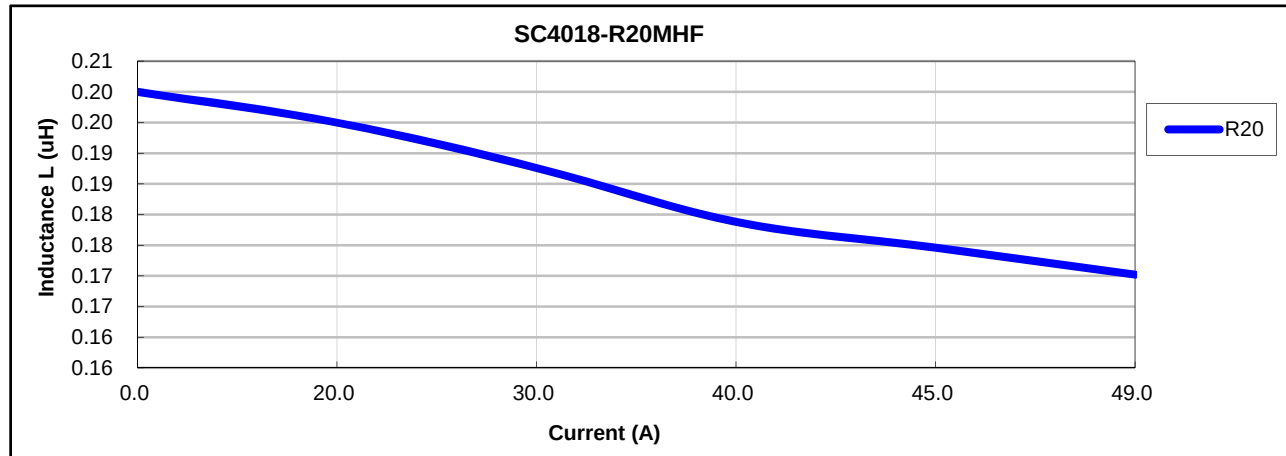
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. SC4018 Family DC Bias Curve



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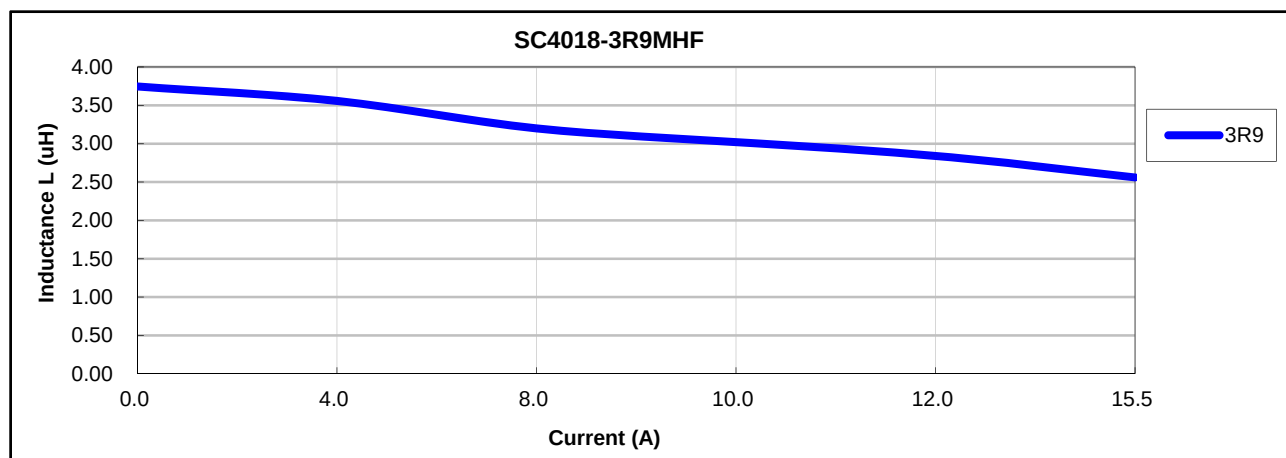
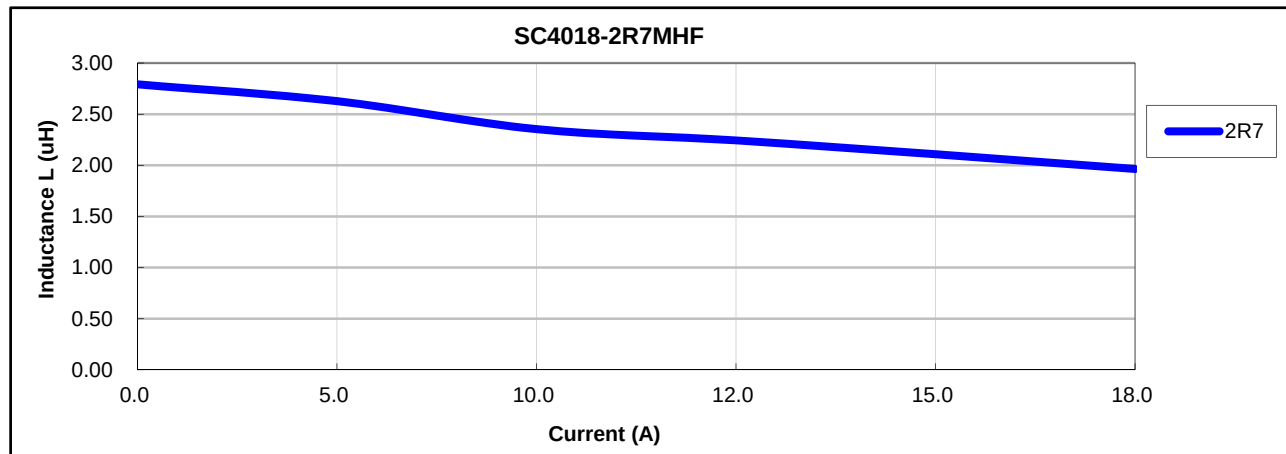
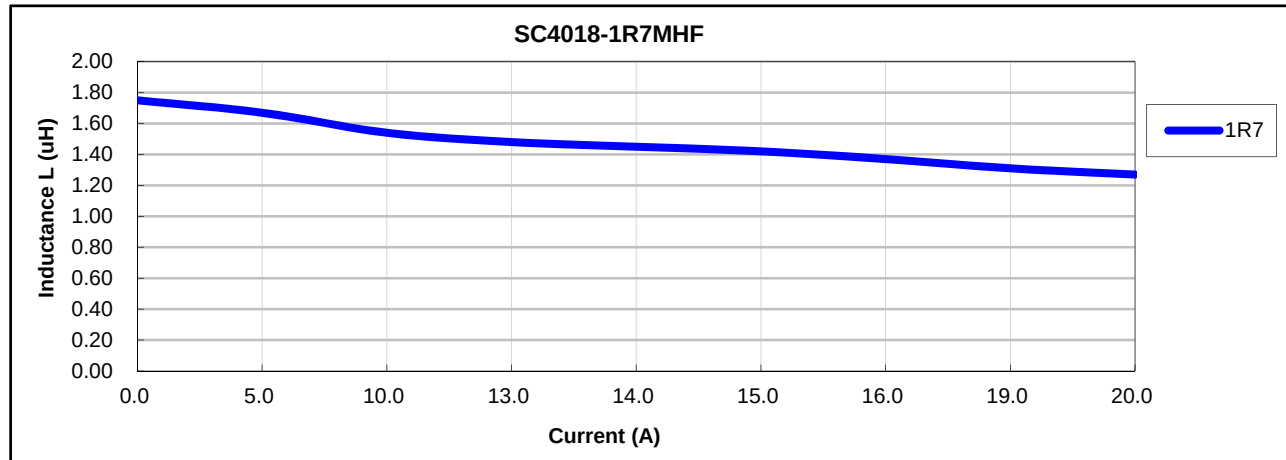
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