



SC4015 Series



1. Features of SC4015 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
- RoHS and HF Compliant.
- T & R Qtys: 800pcs, 13" Reel



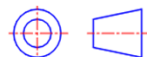
2. Electrical Characteristics of SC4015 Series:

Part Number	L $\pm$ 20% (μ H)	DCR $\pm$ 7% (m Ω)	I _{rms} (A)	L @ I _{rms} (μ H)	I _{max} (A)	L @ I _{max} (μ H)	C (mm)
SC4015-R15MHF	0.15	0.68	30.0	0.13	51.0	0.10	4.30
SC4015-R39MHF	0.39	1.32	24.0	0.33	40.0	0.28	4.30
SC4015-R50MHF	0.50	1.38	23.0	0.41	37.0	0.34	4.30
SC4015-R75MHF	0.75	3.25	20.0	0.63	25.0	0.58	4.00
SC4015-1R0MHF	1.00	3.26	18.5	0.80	26.5	0.67	4.00
SC4015-1R2MHF	1.20	4.37	17.0	1.02	24.5	0.91	4.00
SC4015-1R7MHF	1.70	5.40	15.0	1.42	22.5	1.17	4.00
SC4015-2R5MHF	2.50	8.00	11.5	2.08	16.5	1.85	4.00
SC4015-3R3MHF	3.30	8.00	10.0	2.75	14.5	2.30	4.00
SC4015-4R7MHF	4.70	14.00	8.0	3.80	12.0	3.20	4.00

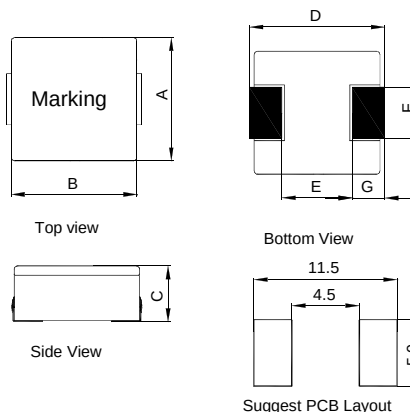
3. Mechanical Dimensions (unit:mm):

Part Number	A ± 0.4	B ± 0.4	C Max	D Max	E Ref.	F Ref.	G Ref.
SC4015	10	10	See table above	11.0	5.60	2.00	2.35

Third Angle Projection:



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
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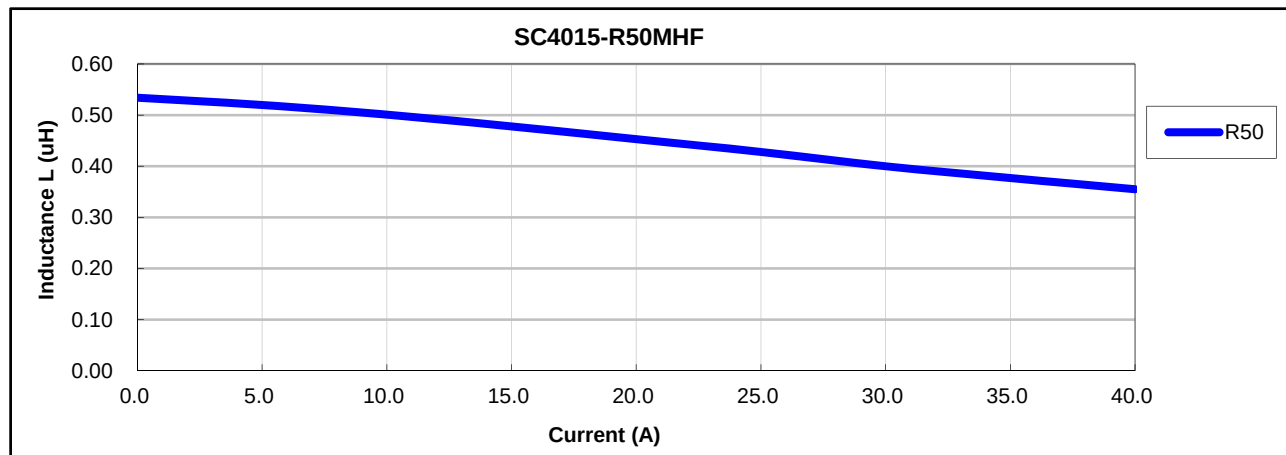
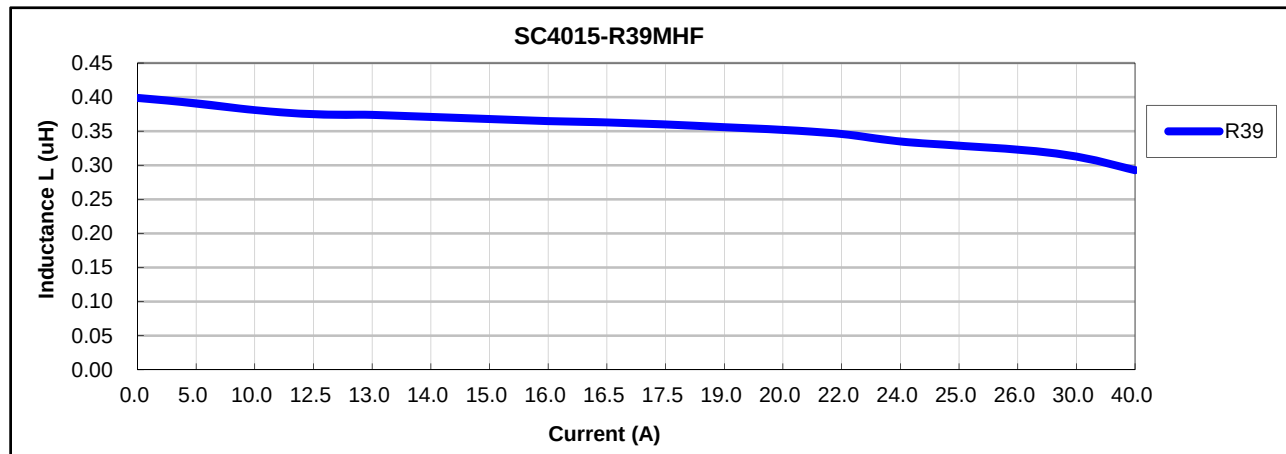
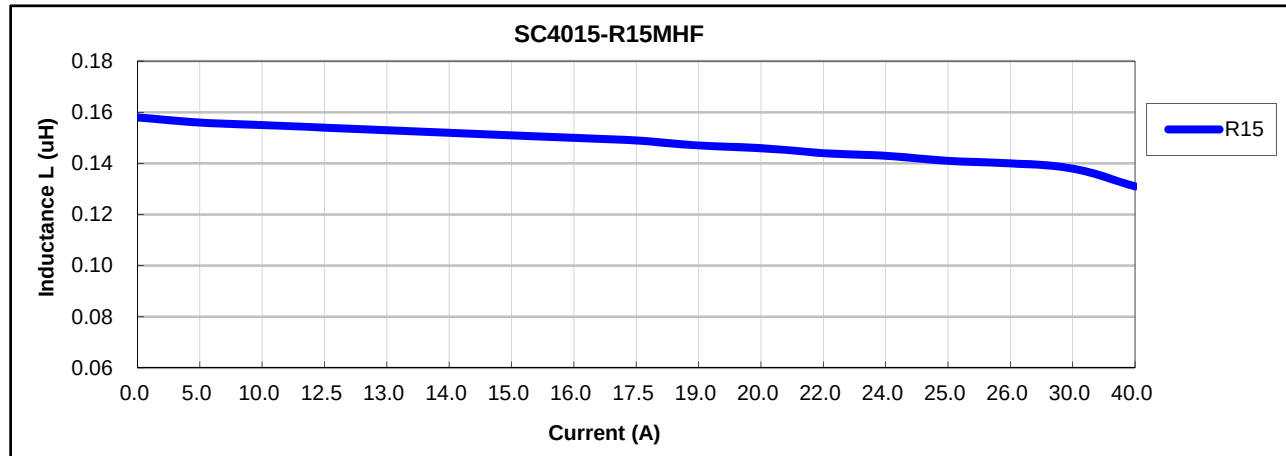
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4. SC4015 Family DC Bias Curve



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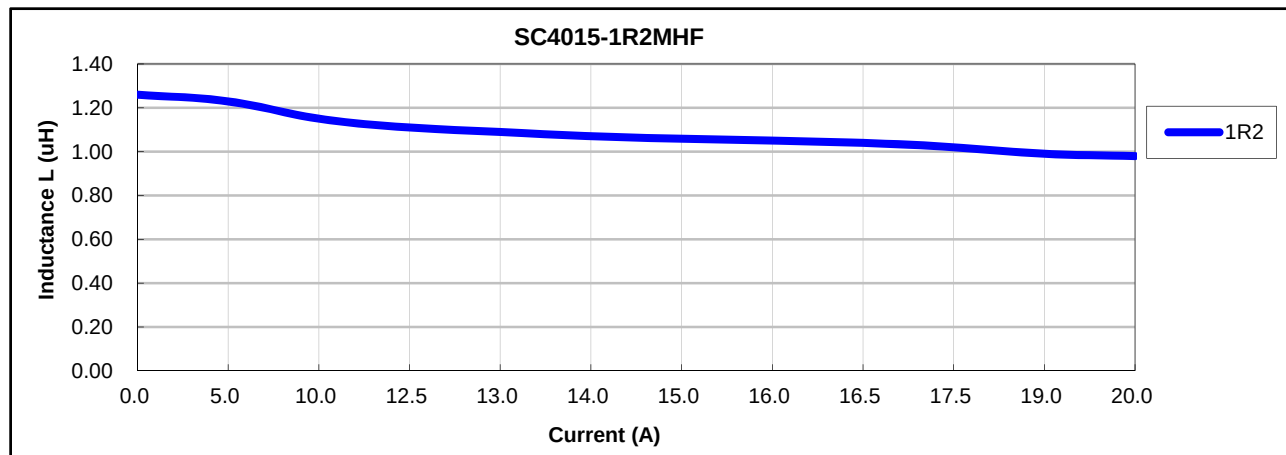
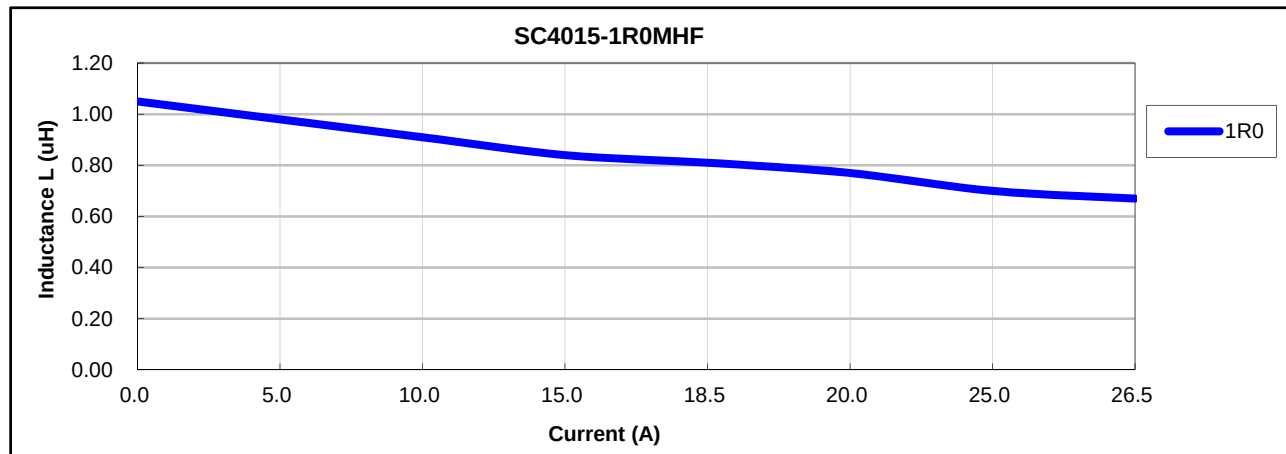
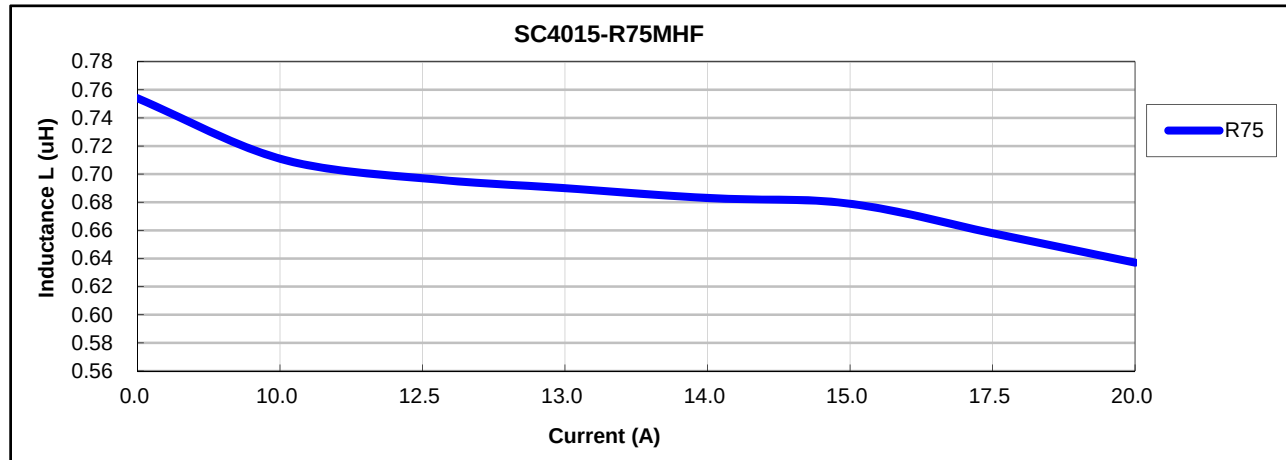
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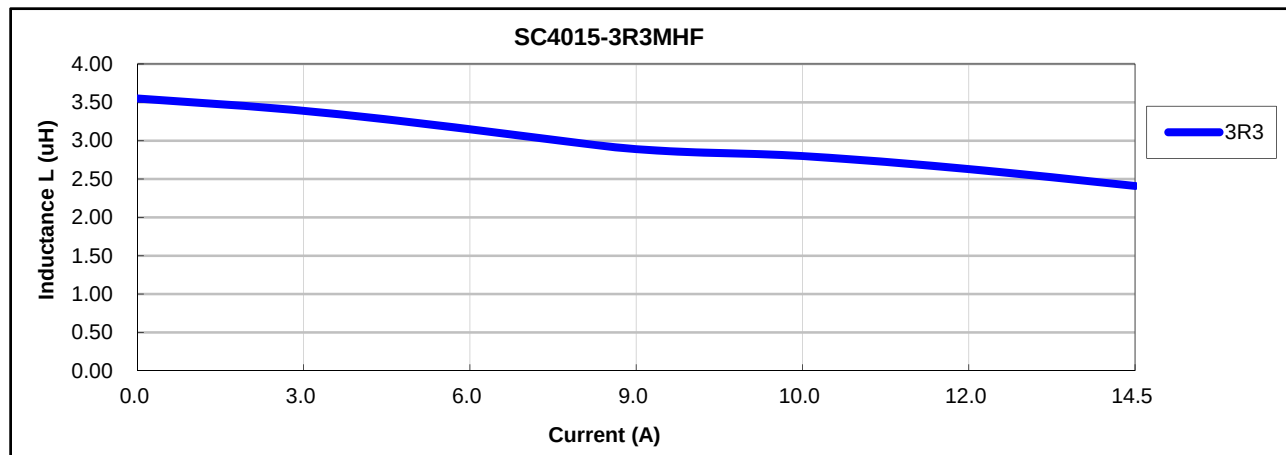
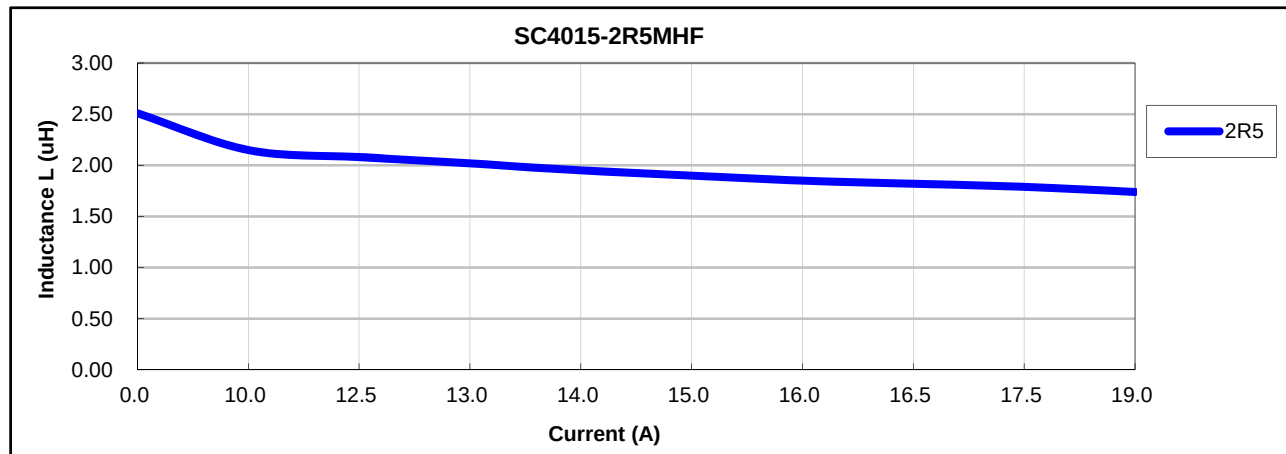
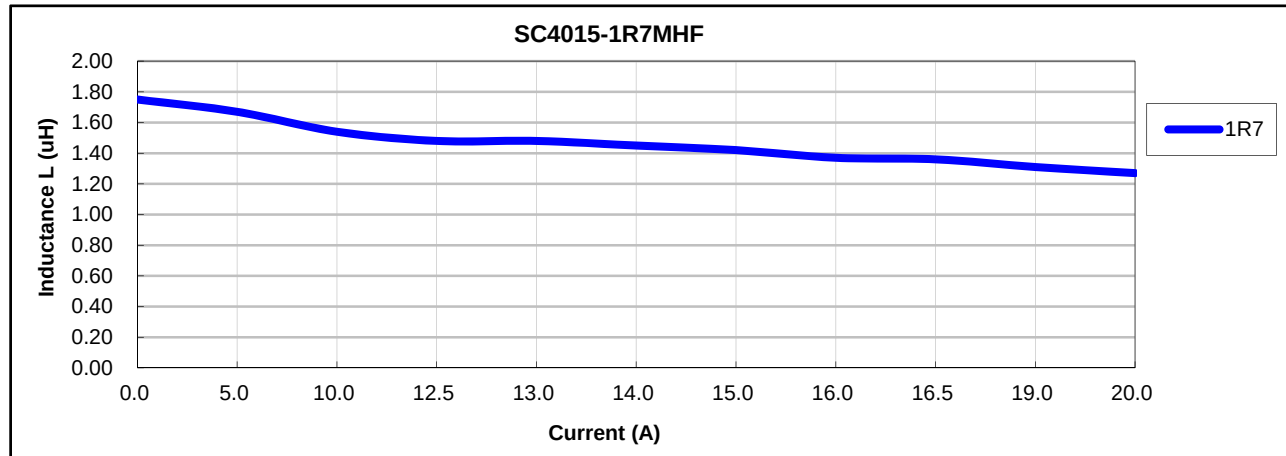
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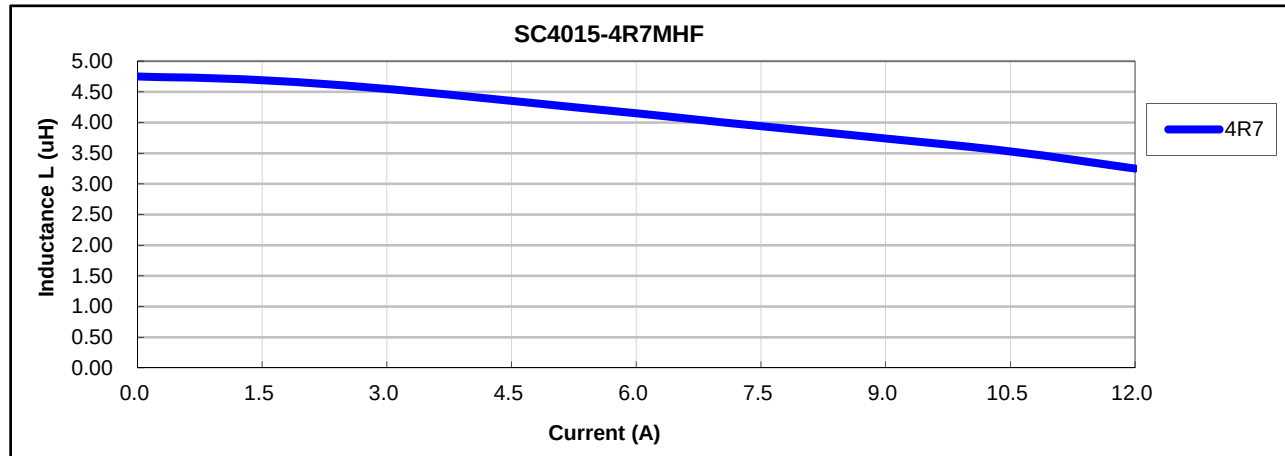
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