

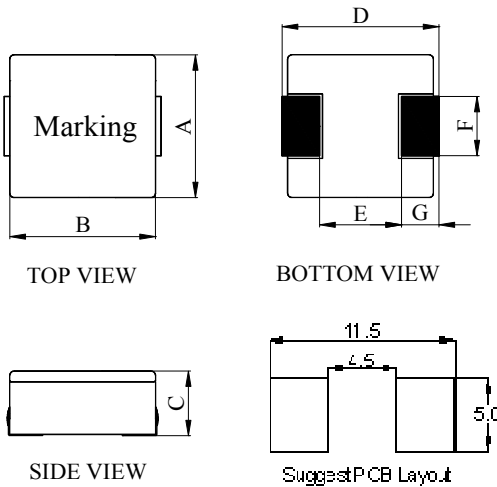


SC40XX Series SMD High Current Inductor



Features:

- 0.40" package SMD power inductor.
- Ideally for DC to DC converter & high density board design.
- Operating up to 3 MHz application.
- Low leakage flux.
- Low profile 3.60 ~ 6.35 mm Max. height.
- Suitable for IR reflow and wave solder process.
- Tight DCR Tolerance features for Current Sensing Application.



Electrical Specifications							
Part Number	L ±20% (μH)	DCR ±7% (mΩ)	I _{rms} (Amp)	L @ I _{rms} (μH)	I _{max} (Amp)	L @ I _{max} (μH)	C* _{Max} (mm)
SC4015-R15MU	0.15	0.68	30.0	0.13	51.0	0.10	4.30
SC4018-R20MU	0.20	0.50	33.0	0.18	49.0	0.17	4.80
SC4018-R37MU	0.37	0.93	27.0	0.31	40.0	0.29	5.00
SC4015-R39MU	0.39	1.32	24.0	0.33	40.0	0.28	4.30
SC4025-R47MU	0.47	0.75	30.0	0.38	45.0	0.33	6.35
SC4015-R50MU	0.50	1.38	23.0	0.41	37.0	0.34	4.30
SC4013-R75MU	0.75	3.25	20.0	0.63	25.0	0.58	3.60
SC4015-R75MU	0.75	3.25	20.0	0.63	25.0	0.58	4.00
SC4018-1R0MU	1.00	1.83	20.0	0.77	31.0	0.66	4.80
SC4015-1R0MU	1.00	3.26	18.5	0.80	26.5	0.67	4.00
SC4015-1R2MU	1.20	4.37	17.0	1.02	24.5	0.91	4.00
SC4015-1R7MU	1.70	5.40	15.0	1.42	22.5	1.17	4.00
SC4018-1R7MU	1.70	4.80	16.0	1.40	23.0	1.15	4.80
SC4015-2R5MU	2.50	8.00	11.5	2.08	16.5	1.85	4.00
SC4018-2R7MU	2.70	6.45	12.0	2.20	18.0	1.95	4.80
SC4015-3R3MU	3.30	8.00	10.0	2.75	14.5	2.30	4.00
SC4018-3R9MU	3.90	7.40	10.5	3.00	15.5	2.55	4.80
SC4015-4R7MU	4.70	14.00	8.0	3.80	12.0	3.20	4.00

Quantity per Reel	
SC4013 ; SC4015 ; SC4018	800 pcs
SC4025	500 pcs

Notes:

1. Test condition: 300 kHz & 600 kHz, 0.25 V, 25 °C.
2. I_{rms}: DC current rating at 40°C temp. raise (typical).
3. I_{max}: DC current rating with max. of 100°C temp. raise.
4. L @ I_{rms} & L @ I_{max} is measured at 300 kHz, 0.25 V.
5. DCR tolerance of ± 5% is available upon request.
6. Operating temperature: -40 °C ~ 150 °C.

Mechanical Dimensions (Unit: mm)							
Part Number	A ±0.4	B ±0.4	C* Max.	D Max.	E Ref.	F Ref.	G Ref.
SC40xx	10	10	See table above	11.0	5.60	2.00	2.35

