



SC50xx Series SMD High Current Inductor



Features:

- 0.50" package SMD inductor up to 80 Amp (I_{max}).
- Ideally for DC to DC converter. VRM & high density board design.
- Low leakage flux, shielded inductor design.
- Low profile.
- Operating temperature: -40 °C ~ 150 °C.
- Suitable for IR reflow and wave solder process.
- Figure 2 construction is recommended for new designs.



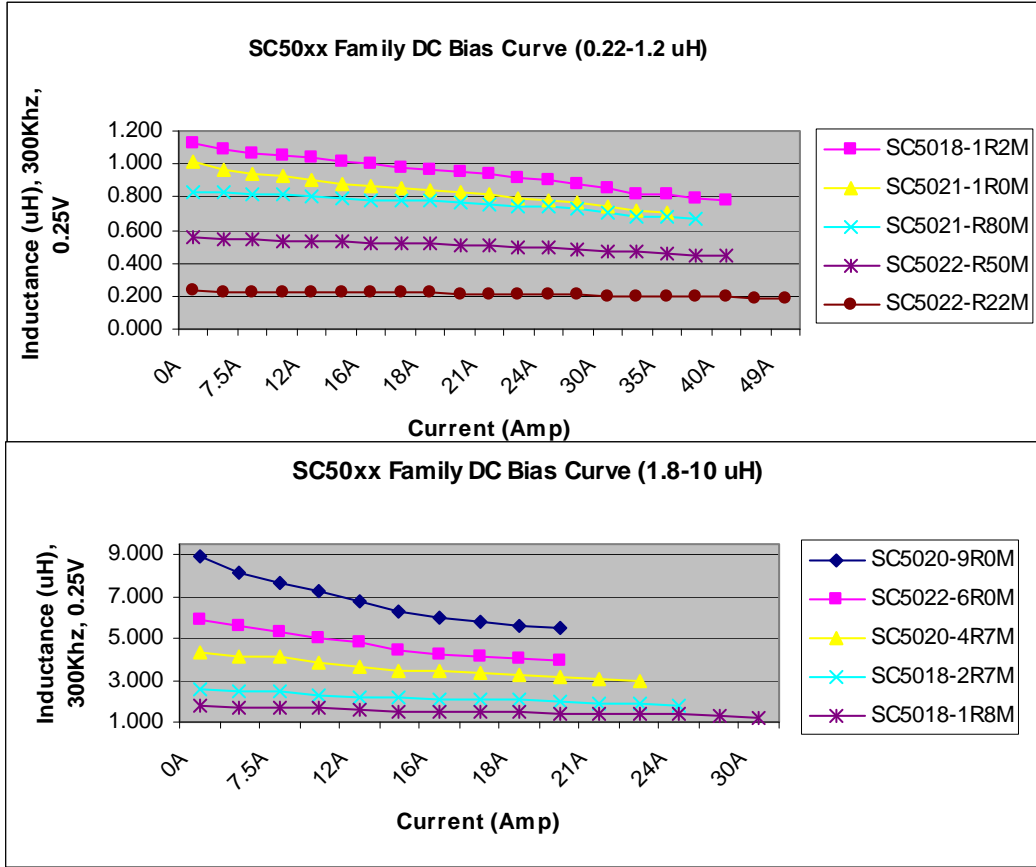
Electrical Specifications							
Part Number	L \pm 20% (μ H)	DCR \pm 7% (m Ω)	I_{rate} (Amps)	L @ I_{rate} (μ H)	I_{max} . (Amps)	L @ I_{max} . (μ H)	Fig.
SC5020-R22MHF	0.22	0.50	34.0	0.20	80.0	0.16	2
SC5021-R50MHF	0.50	0.82	40.0	0.43	60.0	0.31	2
SC5015-R67MHF	0.67	1.28	23.0	0.54	35.0	0.50	1
SC5021-R80MHF	0.80	1.42	25.0	0.73	38.0	0.66	2
SC5020-1R0MHF	1.00	1.74	21.0	0.85	34.0	0.74	2
SC5021-1R0MHF	1.00	1.42	24.5	0.79	37.0	0.68	2
SC5026-1R0MHF	1.00	1.06	25.0	0.80	38.0	0.70	2
SC5015-1R2MHF	1.20	2.58	18.5	1.01	23.5	0.93	1
SC5018-1R2MHF	1.20	1.64	21.0	1.00	35.0	0.81	1
SC5020-1R2MHF	1.20	1.70	20.0	0.90	32.0	0.80	2
SC5018-1R8MHF	1.80	3.24	16.0	1.50	26.0	1.30	1
SC5020-1R8MHF	1.80	2.90	17.0	1.44	28.0	1.25	2
SC5020-2R2MHF	2.20	4.00	18.5	1.76	25.0	1.58	2
SC5018-2R7MHF	2.70	4.10	15.0	2.14	24.0	1.81	1
SC5020-3R3MHF	3.30	5.13	14.0	2.55	19.0	2.27	2
SC5020-4R5MHF	4.50	6.50	12.0	3.85	18.0	3.36	2
SC5020-4R7MHF	4.70	6.70	12.0	3.64	17.0	3.30	1
SC5022-6R0MHF	6.00	10.00	9.50	5.00	16.0	4.20	1
SC5020-9R0MHF	9.00	13.90	7.50	7.65	13.0	6.50	1
SC5022-100MHF	10.00	13.90	7.50	8.00	12.0	7.00	1

Notes:

1. Test condition: 300 KHz & 600 KHz, 0.25V, 25°C.
2. I_{rate} : DC current rating at 40 °C temperature raise (typical).
3. I_{max} : DC Current rating at 100 °C temperature raise (typical).
4. DC Bias is measured at 300 KHz, 0.25V, 25°C.



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Mechanical Dimensions (Unit: mm) (Figure 1)

Part Number	A	B	C	D	E	F	T&R Qty
SC5015	±0.4	±0.4	±0.4	Ref.	±0.4	±0.4	800
SC5018	12.6	12.6	12.7	7.6	5.8	3.9	800
SC5020	12.6	12.6	12.7	8.2	5.8	5.1	800
SC5022	12.6	12.6	13.0	7.9	5.8	5.6	500

Mechanical Dimensions (Unit: mm) (Figure 2)

Part Number	A	B	C	D	E	F	G	T&R Qty
SC5020	±0.4	±0.4	Max.	Max.	Ref.	Ref.	Ref.	500
SC5021	12.6	12.6	5.7	13.5	7.5	3.5	3.0	500
SC5026	12.6	12.6	7.0	14.0	7.5	3.5	2.8	500

