

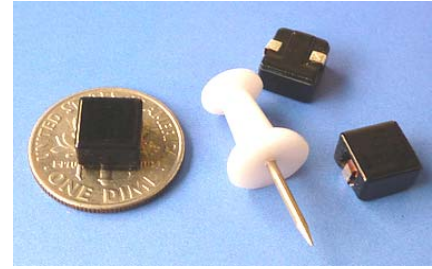


SC3018S Series



1. Features:

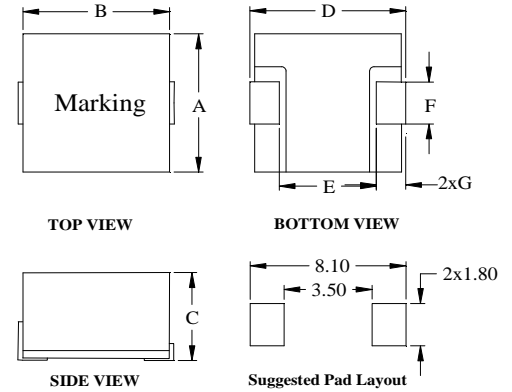
- Low profile 5.0mm max. height SMD power inductor.
- Ideal for DC to DC converter, VRM & high density Board Design.
- Low leakage flux.
- Operating up to 3 MHz application.
- Suitable for IR reflow and wave solder process.
- Foot print 7.90 x 7.60 mm Max.
- Operating Temperature Range -40°C to + 150°C



2. Electrical Characteristic of SC3018S Series:

ITG Part Number	OCL ¹ (uH) ± 20%	DCR (mΩ) ± 6%	Isat ² (A) @25°C	L@Isat (uH) Typ.	Irms ³ (A) @25°C	L@Irms (uH) Typ.	Size Code
SC3018S-R40MHF	0.40	1.80	35.00	0.36	21.00	0.38	S1
SC3018S-R68MHF	0.68	2.80	25.00	0.59	18.00	0.63	S1
SC3018S-1R0MHF	1.00	4.20	22.00	0.81	15.50	0.88	S1
SC3018S-1R3MHF	1.30	4.20	19.00	1.03	15.50	1.12	S1
SC3018S-1R5MHF	1.50	5.90	18.00	1.34	13.50	1.40	S1
SC3018S-2R2MHF	2.20	8.30	14.00	1.80	10.00	1.95	S1
SC3018S-3R3MHF	3.30	12.50	13.00	2.60	11.00	2.70	S2
SC3018S-4R7MHF	4.70	18.40	10.00	3.70	9.00	4.00	S2
SC3018S-6R8MHF	6.80	22.50	8.00	5.40	6.50	5.50	S2

3. Mechanical Dimension(Unit:mm):

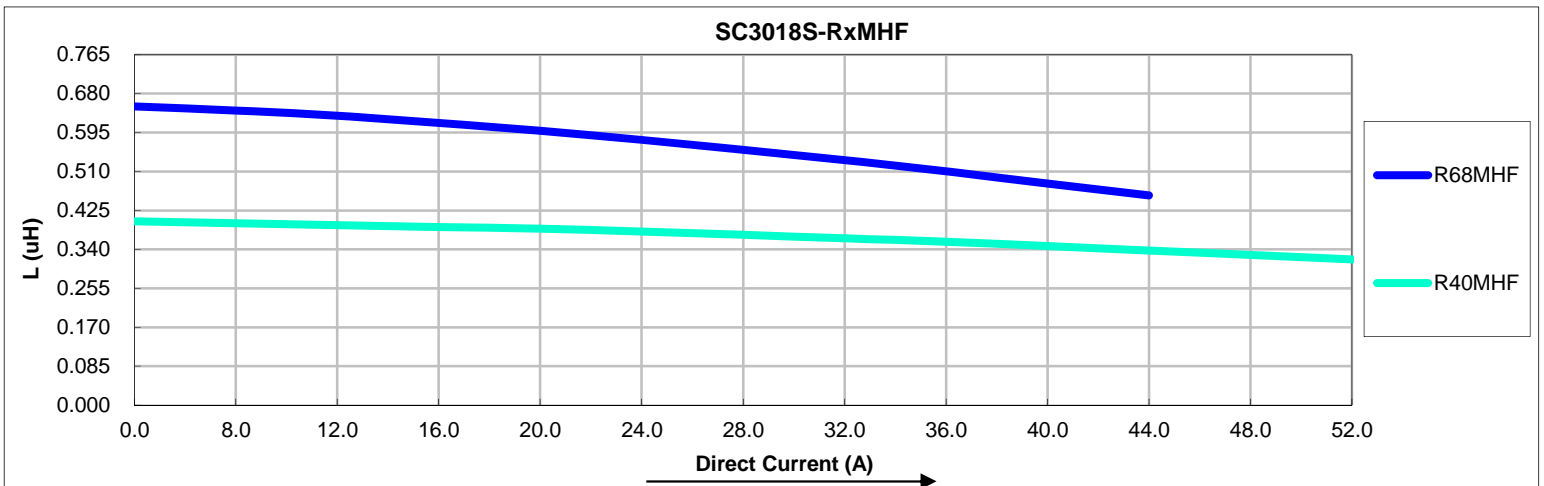


Size Code	A ±0.25	B ±0.25	C Max.	D Max.	E Nom.	F Typ.	G Min.
S1	7.35	7.10	5.10	7.90	3.80	1.50	1.70
S2	7.35	7.10	5.00	7.90	3.80	1.20	1.70

Note:

- 1>. Open Circuit Inductance (OCL) test condition: 100KHz, 0.10Vrms, 0A_{dc}; (T_a=25°C).
- 2>. Isat: DC current that will cause inductance to drop approximately by 20% ;
- 3>. I_{rms}: DC current rating at 40°C temperature rise without core loss ;

4. Inductance Characteristics (Inductance vs. Current):

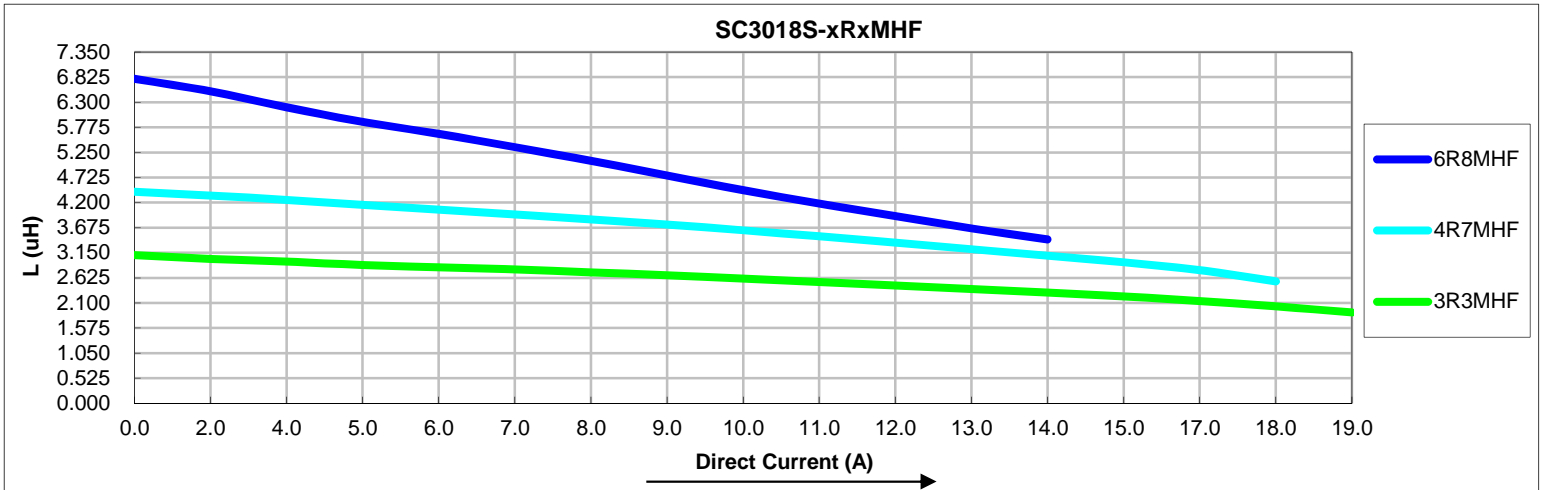
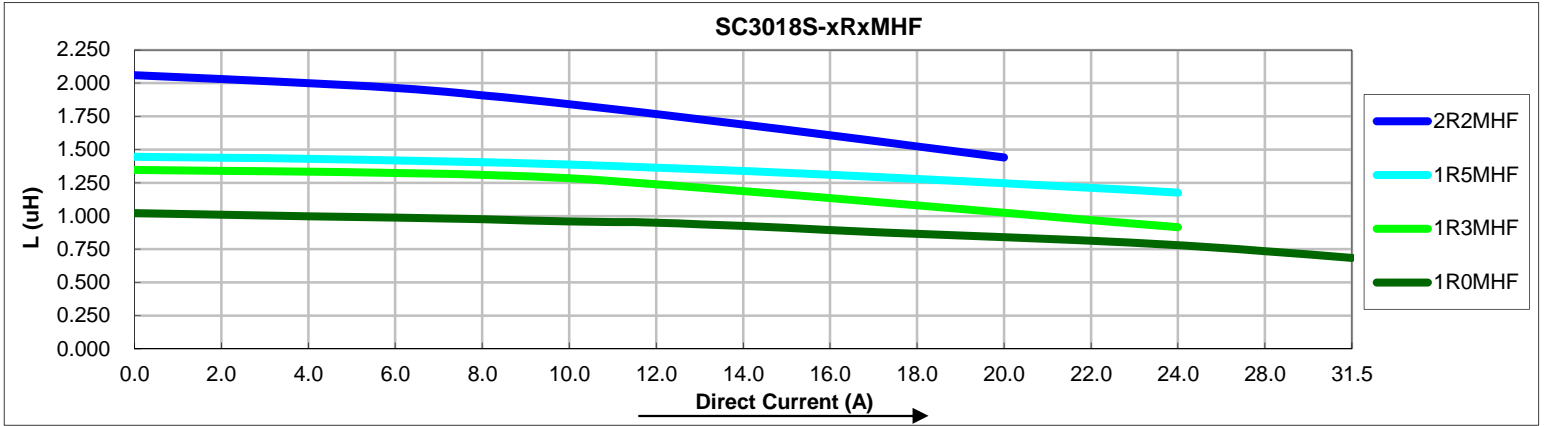




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Inductance vs. Current



Inductance vs. Frequency

